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92.1 53       SID       448         92.1 53       S-RNTI Group       448         92.1 53       S-RNTI Group       449         92.1 54       Sync Case       449         92.1 55       TFCI Presence       449         92.1 56       Time Slot       449         92.1 56       TNL QoS       450         92.1 57       ToAWE       450         92.1 58       Trace Depth       450         92.1 58       Trace Reference       451         92.1 58       Trace Reference scion Reference       451         92.1 58       Trace Reference were       451         92.1 59       Transmitted Carrier Power       452         92.1 59       Transmitted Carrier Power       452         92.1 59       Transmitted Carrier Power       452         92.1 59       Transport Rearer ID       451         92.1 59       Transport Rearer ID       452         92.1 60       Transport Bearer ID       452         92.1 60       Transport Format Set (TFCS)       454         92.1 61       Transport Format Set (TFCS)       454         92.1 62       Transport Format Combination Set (TFCS)       454         92.1 64       Tra			
92.1.53       S-RNTI.       448         92.1.54       Sync Case       449         92.1.55       TFCI Presence.       449         92.1.55       TFCI Presence.       449         92.1.55       TRU QoS.       450         92.1.55       TON WE       450         92.1.55       ToN QoS.       450         92.1.54       TNL QoS.       450         92.1.55       ToAWE       450         92.1.58       Trace Recording Session Reference.       451         92.1.58       Trace Recording Session Reference.       451         92.1.58       Trace Recording Session Reference.       451         92.1.59       Transaction ID.       451         92.1.59       Transaction ID.       452         92.1.59       Turnax-grs Measurement Value Information.       452         92.1.59       Turnax-grs Measurement Value Information.       452         92.1.60       Transport Bearer Request Indicator       453         92.1.61       Transport Bearer Request Indicator       453         92.1.62       Transport Commat Combination Set (TFCS).       454         92.1.63       Transport Rearer ID       455         92.1.64       Transport Pormat Combination Set			
92.1.53a       S-RNTI Group.       448         92.1.54       Sync Case.       449         92.1.55       TFCI Presence.       449         92.1.56       Time Slot.       449         92.1.56       TINL QoS.       450         92.1.57       ToAWE       450         92.1.58       ToAWS       450         92.1.58       Tace Depth.       450         92.1.58       Trace Coording Session Reference.       451         92.1.58       Trace Reording Session Reference.       451         92.1.58       Trace Reference.       451         92.1.59       Transmitted Carrier Power.       452         92.1.59       Turnax-orgs Accuracy Class.       452         92.1.59       Turnax-orgs Measurement Threshold Information.       452         92.1.60       Transport Bearer D.       453         92.1.61       Transport Bearer Meauest Indicator       453         92.1.61       Transport Format Set.       457         92.1.64       Transport Format Set.       457         92.1.66       UARFCN       457         92.1.68       Unidirectional DCH Indicator       458         92.1.64       Transport Format Set.       457			
92.1.54       Syn Case       449         92.1.55       TFCI Presence       449         92.1.56       Time Slot       449         92.1.57       ToAWE       450         92.1.58       ToAWS       450         92.1.58       ToAWE       450         92.1.58       ToAWE       450         92.1.58       ToAWE       450         92.1.58       ToAWE       450         92.1.58       Trace Depth       450         92.1.58       Trace Recording Session Reference       451         92.1.58       Trace Recording Session Reference       451         92.1.59       Transaction ID       451         92.1.59       Transaction ID       451         92.1.59       Turnaxorg Accuracy Class       452         92.1.50       Turnaxorg Measurement Threshold Information       452         92.1.60       Transport Bearer Request Indicator       453         92.1.61       Transport Bearer Request Indicator       453         92.1.62       Transport Cayet Address       454         92.1.63       Transport Format Combination Set (TFCS)       454         92.1.64       Transport Pormat Set       457         92.1.64			
9.2.1.54A       Time Slot       449         9.2.1.55       TFCI Presence       449         9.2.1.56       Time Slot       449         9.2.1.57       ToAWE       450         9.2.1.58       ToAWS       450         9.2.1.58       ToAWE       450         9.2.1.58       ToAWS       450         9.2.1.58       Trace Depth       450         9.2.1.58       Trace Recording Session Reference       451         9.2.1.58       Trace Reference       451         9.2.1.58       Trace Reference       451         9.2.1.59       Transmitted Carrier Power       452         9.2.1.59       Turrans.org Accuracy Class       452         9.2.1.59       Turrans.org Accuracy Class       452         9.2.1.60       Turrans.org Accuracy Class       452         9.2.1.61       Transport Bearer ID       453         9.2.1.61       Transport Bearer ID       453         9.2.1.62       Turs.org Bearer ID       454         9.2.1.63       Transport Format Combination Set (TFCS)       454         9.2.1.64       Transport Format Set       457         9.2.1.65       Tuck Access Point Position       457         9.2.1.6		1	
9.2.1.55       TFCI Presence.       449         9.2.1.56       Time Stot.       449         9.2.1.56       Time Stot.       440         9.2.1.57       ToAWE.       450         9.2.1.58       ToAWS.       450         9.2.1.58       Trace Depth.       450         9.2.1.58       Trace Recording Session Reference.       451         9.2.1.58       Trace Recording Session Reference.       451         9.2.1.59       Transaction ID.       451         9.2.1.59       TurasAction ID.       451         9.2.1.59       TurasActrs Measurement Threshold Information.       452         9.2.1.50       TUTRANCRY Measurement Threshold Information.       452         9.2.1.60       Transport Bearer Request Indicator       453         9.2.1.61       Transport Bearer Request Indicator       453         9.2.1.62       Transport Format Combination Set (TFCS).       454         9.2.1.64       Transport Format Combination Set (TFCS).       454         9.2.1.65       TrCH Source Statistics Descriptor.       457         9.2.1.64       U ARFCN       457         9.2.1.65       TrCH Source Statistics Descriptor       457         9.2.1.64       U Linterference Level       458 </td <td></td> <td></td> <td></td>			
9.2.1.56       Time Slot.       449         9.2.1.57       ToAWE       450         9.2.1.58       ToAWS       450         9.2.1.58       Trace Depth.       450         9.2.1.58       Trace Recording Session Reference.       451         9.2.1.58       Trace Recording Session Reference.       451         9.2.1.58       Trace Recording Session Reference.       451         9.2.1.59       Transaction ID.       451         9.2.1.59       Transmitted Carrier Power.       452         9.2.1.59       TurasAcra Accuracy Class.       452         9.2.1.50       TURRANCRS Measurement Threshold Information.       452         9.2.1.50       TURRANCRS Measurement Value Information.       453         9.2.1.61       Transport Bearer ID.       454         9.2.1.62       Turasport Bearer ID.       454         9.2.1.63       Transport Format Combination Set (TFCS).       454         9.2.1.64       Transport Format Set.       455         9.2.1.65       TCH Source Statistics Descriptor       457         9.2.1.64       U. Interference Level       458         9.2.1.65       U. Interference Level       458         9.2.1.64       U. Interference Level       458			
9.2.1.56A       TNL QoS.       450         9.2.1.57       ToAWE       450         9.2.1.58       ToAWS       450         9.2.1.58a       Trace Depth.       450         9.2.1.58b       Trace Recording Session Reference.       451         9.2.1.58c       Trace Reference       451         9.2.1.58c       Trace Reference       451         9.2.1.59       Transmitted Carrier Power       451         9.2.1.59       Transmitted Carrier Power       452         9.2.1.59D       TUTRANGES Accuracy Class       452         9.2.1.59D       TUTRANGES Measurement Threshold Information       452         9.2.1.60       Transport Bearer Request Indicator       453         9.2.1.61       Transport Format Combination Set (TFCS)       454         9.2.1.62       Transport Format Set       455         9.2.1.64       Transport Format Set       455         9.2.1.65       TrCH Source Statistics Descriptor       457         9.2.1.66       UARPCN       457			
9.2.1.57       ToAWE       450         9.2.1.58       Trace Deph.       450         9.2.1.58       Trace Recording Session Reference.       451         9.2.1.58b       Trace Reference.       451         9.2.1.58       Trace Reference.       451         9.2.1.58       Trace Reference.       451         9.2.1.59       Transaction ID.       451         9.2.1.59       Transmited Carrier Power.       452         9.2.1.59       TureAN-GES Accuracy Class.       452         9.2.1.59       TUTRAN-GES Measurement Threshold Information.       452         9.2.1.59       Turansport Bearer ID.       453         9.2.1.61       Transport Bearer ID.       453         9.2.1.62       Transport Format Combination Set (TFCS).       454         9.2.1.63       Transport Format Set.       455         9.2.1.64       Transport Format Set.       457         9.2.1.65       TCH Fource Statistics Descriptor.       457         9.2.1.64       UL Interference Level.       457         9.2.1.64       UL Interference Level.       457         9.2.1.64       UL Interference Level.       458         9.2.1.64       UL Interference Level.       458         9			
9.2.1.58       ToAWS			
9.2.1.58a       Trace Depth	,		
9.2.1.58b       Trace Reference       451         9.2.1.58c       Trace Reference       451         9.2.1.58c       Trace Reference       451         9.2.1.58c       Transmitted Carrier Power       451         9.2.1.59       Transmitted Carrier Power       452         9.2.1.59B       Turran Carrier Power       452         9.2.1.59D       Turran Carrier Power       452         9.2.1.59D       Turran Carrier Measurement Threshold Information       452         9.2.1.60       Transport Bearer Request Indicator       453         9.2.1.61       Transport Layer Address       454         9.2.1.62       Transport Format Combination Set (TFCS)       454         9.2.1.64       Transport Format Set       455         9.2.1.65       TrCH Source Statistics Descriptor       457         9.2.1.66       ULARFCN       457         9.2.1.67       UL Ferference Level       457         9.2.1.68       UL Interference Level       458         9.2.1.64       UL Interference Level       458         9.2.1.64       UL Interference Level       458         9.2.1.65       UL IN P Mode       457         9.2.1.64       UL Interference Level       458			
9.2.1.58c       Trace Reference       451         9.2.1.59       Transaction ID       451         9.2.1.59       Transmitted Carrier Power       452         9.2.1.59R       Turnax.orp Accuracy Class       452         9.2.1.59D       Turnax.orp Measurement Value Information       452         9.2.1.59D       Turnax.orp Measurement Value Information       452         9.2.1.59D       Turnax.orp Measurement Value Information       453         9.2.1.60       Transport Bearer ID       453         9.2.1.61       Transport Bearer Request Indicator       453         9.2.1.62       Transport Format Combination Set (TFCS)       454         9.2.1.63       Transport Format Set       454         9.2.1.64       Transport Statistics Descriptor       457         9.2.1.65       T CH FW Mode       457         9.2.1.66       UARFCN       457         9.2.1.66       UA FP Mode       457         9.2.1.66       UL Interference Level       458         9.2.1.68       UL Interference Level       458         9.2.1.69       UIR A Information       458         9.2.1.69       UIR Na Ccess Point Position       458         9.2.1.70       URA Information       458 <td></td> <td>1</td> <td></td>		1	
9.2.1.58A       Traffic Class       451         9.2.1.59A       Transmitted Carrier Power       452         9.2.1.59B       TUTRANGPS Accuracy Class       452         9.2.1.59C       TUTRANGPS Measurement Threshold Information       452         9.2.1.59C       TUTRANGPS Measurement Value Information       452         9.2.1.59C       TUTRANGPS Measurement Value Information       452         9.2.1.60       Transport Bearer Request Indicator       453         9.2.1.61       Transport Format Combination Set (TFCS)       454         9.2.1.63       Transport Format Set       455         9.2.1.64       Transport Format Set       455         9.2.1.65       TrCH Source Statistics Descriptor       457         9.2.1.66       UARFCN       457         9.2.1.67       UL PP Mode       457         9.2.1.68       UL Interference Level       458         9.2.1.68       Unidirectional DCH Indicator       458         9.2.1.68       Unidirectional DCH Indicator       458         9.2.1.69       Uplink SIR       458         9.2.1.69       Uplink SIR       458         9.2.1.69       Uplink SIR       458         9.2.1.70       URA Information       458			
9.2.1.59A       Transmitted Carrier Power       452         9.2.1.59B       TUTRAN-GPS Accuracy Class       452         9.2.1.59D       TUTRAN-GPS Measurement Threshold Information       452         9.2.1.59D       TUTRAN-GPS Measurement Value Information       452         9.2.1.60       Transport Bearer ID       453         9.2.1.61       Transport Bearer Request Indicator       453         9.2.1.62       Transport Combination Set (TFCS)       454         9.2.1.63       Transport Format Combination Set (TFCS)       454         9.2.1.64       Transport Format Set       455         9.2.1.65       TrCH Source Statistics Descriptor       457         9.2.1.66       UARFCN       457         9.2.1.67       UL FP Mode       457         9.2.1.68       UL Interference Level       458         9.2.1.68       Un Intertainty Ellipse       458         9.2.1.68       Unidirectional DCH Indicator       458         9.2.1.69       Uplink SIR       458         9.2.1.60       URA ID       458         9.2.1.61       URA ID       458         9.2.1.62       UL Information       458         9.2.1.64       UL Information       458         9.2	9.2.1.58A		
9.2.1.59B       TUTRAN-GPS Accuracy Class.       452         9.2.1.59C       TUTRAN-GPS Measurement Threshold Information       452         9.2.1.59D       TUTRAN-GPS Measurement Value Information.       452         9.2.1.60       Transport Bearer ID       453         9.2.1.61       Transport Bearer Request Indicator       453         9.2.1.62       Transport Combination Set (TFCS).       454         9.2.1.63       Transport Format Combination Set (TFCS).       454         9.2.1.64       Transport Format Set.       455         9.2.1.65       TrCH Source Statistics Descriptor       457         9.2.1.66       UARFCN       457         9.2.1.66       UARFCN       457         9.2.1.66       UE Identity.       457         9.2.1.68       UL Interference Level       458         9.2.1.68       UL Interference Level       458         9.2.1.68       Unidirectional DCH Indicator       458         9.2.1.69       UPInk SIR       458         9.2.1.69       UPInk SIR       458         9.2.1.69       UPInk XIR       458         9.2.1.69       UPInk XIR       458         9.2.1.70       URA ID       458         9.2.1.71       U	9.2.1.59	Transaction ID	
9.2.1.59B       TUTRAN-GPS Accuracy Class.       452         9.2.1.59C       TUTRAN-GPS Measurement Threshold Information       452         9.2.1.59D       TUTRAN-GPS Measurement Value Information.       452         9.2.1.60       Transport Bearer ID       453         9.2.1.61       Transport Bearer Request Indicator       453         9.2.1.62       Transport Combination Set (TFCS).       454         9.2.1.63       Transport Format Combination Set (TFCS).       454         9.2.1.64       Transport Format Set.       455         9.2.1.65       TrCH Source Statistics Descriptor       457         9.2.1.66       UARFCN       457         9.2.1.66       UARFCN       457         9.2.1.66       UE Identity.       457         9.2.1.68       UL Interference Level       458         9.2.1.68       UL Interference Level       458         9.2.1.68       Unidirectional DCH Indicator       458         9.2.1.69       UPInk SIR       458         9.2.1.69       UPInk SIR       458         9.2.1.69       UPInk XIR       458         9.2.1.69       UPInk XIR       458         9.2.1.70       URA ID       458         9.2.1.71       U	9.2.1.59A		
9.2.1.59D $T_{UTRAN-GPS}$ Measurement Value Information.       452         9.2.1.60       Transport Bearer ID       453         9.2.1.61       Transport Bearer Request Indicator       453         9.2.1.62       Transport Layer Address       454         9.2.1.63       Transport Format Combination Set (TFCS).       454         9.2.1.64       Transport Format Set.       455         9.2.1.65       TrCH Source Statistics Descriptor       457         9.2.1.66       UARFCN       457         9.2.1.66       UE Identity.       457         9.2.1.66       UE Identity.       457         9.2.1.67       UL FP Mode.       457         9.2.1.68       UL Interference Level.       458         9.2.1.68       Uncertainty Ellipse.       458         9.2.1.68       Unidirectional DCH Indicator       458         9.2.1.69       Uplink SIR       458         9.2.1.70       URA ID       458         9.2.1.70       URA Information       459         9.2.1.70B       URA Information       459         9.2.1.71       UTRAN Access Point Position       450         9.2.1.72       Neighbouring TDD Cell Information LCR       460         9.2.1.73	9.2.1.59B		
9.2.1.60       Transport Bearer ID       453         9.2.1.61       Transport Bearer Request Indicator       453         9.2.1.62       Transport Layer Address       454         9.2.1.63       Transport Format Combination Set (TFCS)       454         9.2.1.64       Transport Format Set       455         9.2.1.65       TrCH Source Statistics Descriptor       457         9.2.1.66       UARFCN       457         9.2.1.67       UL FP Mode       457         9.2.1.68       UL Interference Level       458         9.2.1.68       UL Interference Level       458         9.2.1.68       Undirectional DCH Indicator       458         9.2.1.70       URA ID       458         9.2.1.70       URA Information       458         9.2.1.70       URA Information       459         9.2.1.70C       User Plane Congestion Fields Inclusion       459         9.2.1.71       UTRAN Access Point Position       450         9.2.1.72       Neighbouring TDD Cell Information LCR       460         9.2.1.73       Permanent NAS UE Identity       460         9.2.1.74       SFN-SFN Measurement Reference Point Position       461         9.2.1.75       UTRAN Access Point Position with Altitude	9.2.1.59C		
9.2.1.61       Transport Bearer Request Indicator       453         9.2.1.62       Transport Layer Address.       454         9.2.1.63       Transport Format Combination Set (TFCS).       454         9.2.1.64       Transport Format Set.       455         9.2.1.65       TrCH Source Statistics Descriptor       457         9.2.1.66       UARFCN       457         9.2.1.66       UL FP Mode.       457         9.2.1.68       UL Interference Level.       458         9.2.1.68       UL Interference Level.       458         9.2.1.68       Undirectional DCH Indicator       458         9.2.1.69       Uplink SIR       458         9.2.1.70       URA ID       458         9.2.1.70       URA ID       458         9.2.1.70       URA ID       458         9.2.1.70       URA Information       459         9.2.1.71       UTRAN Access Point Position       459         9.2.1.72       Neighbouring TDD Cell Information LCR       460         9.2.1.73       Permanent NAS UE Identity       460         9.2.1.74       SFN-SFN Measurement Reference Point Position       461         9.2.1.75       UTRAN Access Point Position with Altitude       461 <t< td=""><td>9.2.1.59D</td><td></td><td></td></t<>	9.2.1.59D		
9.2.1.62       Transport Layer Address       454         9.2.1.63       Transport Format Combination Set (TFCS)       454         9.2.1.64       Transport Format Set       455         9.2.1.65       TrCH Source Statistics Descriptor       457         9.2.1.66       UARFCN       457         9.2.1.66       UE Identity       457         9.2.1.67       UL FP Mode       457         9.2.1.68       UE Interference Level       458         9.2.1.68       Uncertainty Ellipse       458         9.2.1.68       Uncertainty Ellipse       458         9.2.1.69       Uplink SIR       458         9.2.1.70       URA ID       458         9.2.1.70       URA ID       458         9.2.1.70       URA ID       458         9.2.1.70       URA ID       458         9.2.1.70       URA Information       459         9.2.1.70       USA Information       459         9.2.1.71       UTRAN Access Point Position       450         9.2.1.72       Vieghbouring TDD Cell Information LCR       460         9.2.1.73       Permanent NAS UE Identity       460         9.2.1.74       SFN-SFN Measurement Reference Point Position       461 <td>9.2.1.60</td> <td></td> <td></td>	9.2.1.60		
9.2.1.63       Transport Format Combination Set (TFCS)       454         9.2.1.64       Transport Format Set.       455         9.2.1.65       TrCH Source Statistics Descriptor       457         9.2.1.66       UARFCN       457         9.2.1.66A       UE Identity       457         9.2.1.67       UL FP Mode       457         9.2.1.68       UL Interference Level       458         9.2.1.68       UL Interference Level       458         9.2.1.68       Unidirectional DCH Indicator       458         9.2.1.69       Uplink SIR       458         9.2.1.70       URA ID       458         9.2.1.70       URA ID       458         9.2.1.70       URA Information       458         9.2.1.70       URA Information       459         9.2.1.70       User Plane Congestion Fields Inclusion       459         9.2.1.71       UTRAN Access Point Fields Inclusion       459         9.2.1.71       UTRAN Cell Identifier (UC-ID)       460         9.2.1.71       UTRAN Cell Identifier (UC-ID)       460         9.2.1.73       Permanent NAS UE Identify       460         9.2.1.74       SFN-SFN Measurement Reference Point Position       461         9.2.1.75 <td>9.2.1.61</td> <td>Transport Bearer Request Indicator</td> <td></td>	9.2.1.61	Transport Bearer Request Indicator	
9.2.1.64       Transport Format Set			
9.2.1.65       TrCH Source Statistics Descriptor       457         9.2.1.66       UARFCN       457         9.2.1.66       UE Identity       457         9.2.1.67       UL FP Mode       457         9.2.1.68       UL Interference Level       458         9.2.1.68       UL Interference Level       458         9.2.1.68       Undirectional DCH Indicator       458         9.2.1.69       Uplink SIR       458         9.2.1.69       Uplink SIR       458         9.2.1.70       URA ID       458         9.2.1.70       URA ID       458         9.2.1.70       URA ID       458         9.2.1.70       URA N Access Point Position       458         9.2.1.70       URA Information       459         9.2.1.71       UTRAN Access Point Position       459         9.2.1.71       UTRAN Cell Identifier (UC-ID)       460         9.2.1.72       Neighbouring TDD Cell Information LCR       460         9.2.1.73       Permanent NAS UE Identity       460         9.2.1.74       SFN-SFN Measurement Reference Point Position       461         9.2.1.75       UTRAN Access Point Position with Altitude       461         9.2.1.76       SFN-SFN Measurement			
9.2.1.66       UARFCN       457         9.2.1.66A       UE Identity       457         9.2.1.67       UL FP Mode.       457         9.2.1.68       UL Interference Level       458         9.2.1.68       Uncertainty Ellipse.       458         9.2.1.68       Uncertainty Ellipse.       458         9.2.1.69       Uplink SIR       458         9.2.1.70       URA ID       458         9.2.1.70       URA Information       459         9.2.1.70       User Plane Congestion Fields Inclusion       459         9.2.1.71       UTRAN Cell Identifier (UC-ID)       460         9.2.1.72       Neighbouring TDD Cell Information LCR       460         9.2.1.73       Permanent NAS UE Identity       460         9.2.1.74       SFN-SFN Measurement Reference Point Position       461         9.2.1.75       UTRAN Access Point Position with Altitude       461         9.2.1.			
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# Foreword

This Technical Specification (TS) has been produced by the 3<sup>rd</sup> Generation Partnership Project (3GPP).

The contents of the present document are subject to continuing work within the TSG and may change following formal TSG approval. Should the TSG modify the contents of the present document, it will be re-released by the TSG with an identifying change of release date and an increase in version number as follows:

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where:

- x the first digit:
  - 1 presented to TSG for information;
  - 2 presented to TSG for approval;
  - 3 or greater indicates TSG approved document under change control.
- Y the second digit is incremented for all changes of substance, i.e. technical enhancements, corrections, updates, etc.
- z the third digit is incremented when editorial only changes have been incorporated in the document.

### 1 Scope

The present document specifies the radio network layer signalling procedures of the control plane between RNCs in UTRAN, between RNC in UTRAN and BSS in GERAN Iu mode and between BSSs in GERAN Iu mode.

# 2 References

The following documents contain provisions which, through reference in this text, constitute provisions of the present document.

- References are either specific (identified by date of publication, edition number, version number, etc.) or non-specific.
- For a specific reference, subsequent revisions do not apply.
- For a non-specific reference, the latest version applies. In the case of a reference to a 3GPP document (including a GSM document), a non-specific reference implicitly refers to the latest version of that document *in the same Release as the present document*.
- [1] 3GPP TS 23.003: "Numbering, addressing and identification".
- [2] 3GPP TS 25.413: "UTRAN Iu Interface RANAP Signalling".
- [3] 3GPP TS 25.426: "UTRAN Iur and Iub Interface Data Transport & Transport Layer Signalling for DCH Data Streams".
- [4] 3GPP TS 25.427: "UTRAN Iur and Iub Interface User Plane Protocols for DCH Data Streams".
- [5] 3GPP TS 25.435: "UTRAN Iub interface User Plane Protocols for Common Transport Channel Data Streams".
- [6] 3GPP TS 25.104: "UTRA (BS) FDD; Radio transmission and Reception".
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- [8] 3GPP TS 25.211: "Physical Channels and Mapping of Transport Channels onto Physical Channels (FDD)".
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- [10] 3GPP TS 25.214: "Physical Layer Procedures (FDD)".
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- [12] 3GPP TS 25.221: "Physical Channels and Mapping of Transport Channels onto Physical Channels (TDD)".
- [13] 3GPP TS 25.223: "Spreading and Modulation (TDD)".
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- [17] 3GPP TS 25.402: "Synchronisation in UTRAN, Stage 2".
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- [38] 3GPP TS 48.008: "Mobile-services Switching Centre Base Station System (MSC BSS) interface; Layer 3 specification".
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- [63] 3GPP TS 25.308: "High Speed Downlink Packet Access (HSDPA); Overall description; Stage 2".
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# 3 Definitions, Symbols and Abbreviations

### 3.1 Definitions

For the purposes of the present document, the following terms and definitions apply:

**Elementary Procedure:** RNSAP protocol consists of Elementary Procedures (Eps). An Elementary Procedure is a unit of interaction between two RNCs. An EP consists of an initiating message and possibly a response message. Two kinds of Eps are used:

- Class 1: Elementary Procedures with response (success or failure);
- Class 2: Elementary Procedures without response.

For Class 1 Eps, the types of responses can be as follows:

Successful

- A signalling message explicitly indicates that the elementary procedure has been successfully completed with the receipt of the response.

#### Unsuccessful

- A signalling message explicitly indicates that the EP failed.

Class 2 Eps are considered always successful.

**Prepared Reconfiguration:** A Prepared Reconfiguration exists when the Synchronised Radio Link Reconfiguration Preparation procedure has been completed successfully. The Prepared Reconfiguration does not exist anymore only after either of the procedures Synchronised Radio Link Reconfiguration Commit or Synchronised Radio Link Reconfiguration Cancellation has been completed. In particular, the Prepared Reconfiguration still exists if the object (e.g. Radio Link) concerned by the Synchronised Radio Link Reconfiguration (e.g. in the case of an HS-DSCH Setup) is removed, but the UE Context still exists.

**UE Context:** The UE Context contains the necessary information for the DRNC/DBSS to communicate with a specific UE. The UE Context is created by the Radio Link Setup procedure or by the Uplink Signalling Transfer procedure when the UE makes its first access in a cell controlled by the DRNS/DBSS or by Enhanced Relocation procedure when the procedure is the first dedicated RNSAP procedure for the UE. The UE Context is deleted by the Radio Link Deletion procedure, by the Common Transport Channel Resources Release procedure, or by the Downlink Signalling Transfer procedure when neither any Radio Links nor any common transport channels are established towards the concerned UE. The UE Context is identified by the SCCP Connection for messages using connection oriented mode of the signalling bearer and the D-RNTI for messages using connectionless mode of the signalling bearer, unless specified otherwise in the procedure text.

**Distant RNC Context:** The Distant RNC context is created by the first Common Measurement Initiation Procedure or Information Exchange Initiation Procedure initiated by one RNC/BSS and requested from another RNC/BSS. The Distant RNC Context is deleted after the Common Measurement Termination, the Common Measurement Failure, the Information Exchange Termination or the Information Exchange Failure procedure when there is no more Common Measurement and no more Information to be provided by the requested RNC/BSS to the requesting RNC/BSS. The Distant RNC Context is identified by an SCCP connection as, for common measurements and information exchange, only the connection oriented mode of the signalling bearer is used.

**Signalling radio bearer 2:** The signalling radio bearer 2 is used by the UE to access a GERAN cell in order to perform RRC procedures TS 44.118 [36].

UE Link: see definition in TS 25.346 [50].

URA Link: see definition in TS 25.346 [50].

MBMS Bearer Service: see definition in TS 23.246 [51].

MBMS session: see definiton in TS 25.346 [50].

MBMS session start: see definition in TS 25.346 [50].

MBMS session stop: see definition in TS 25.346 [50].

MBMS Selected Services: see definition in TS 25.346 [50].

PUESBINE feature: as defined in TS 23.195 [65].

### 3.2 Symbols

Void.

### 3.3 Abbreviations

For the purposes of the present document, the following abbreviations apply:

A-GPS	Assisted-GPS
ALCAP	Access Link Control Application Part
APN	Access Point Name
ASN.1	Abstract Syntax Notation One
BER	Bit Error Rate
BLER	Block Error Rate
BSS	Base Station Subsystem
CBSS	Controlling BSS
CCCH	Common Control Channel

CODOLI	
CCPCH	Common Control Physical Channel
CCTrCH	Coded Composite Transport Channel
CFN	Connection Frame Number
C-ID	Cell Identifier
CM	Compressed Mode Core Network
CN CDICU	Core Network Common Pilot Channel
CPICH CRNC	
DBSS	Controlling RNC Drift BSS
C-RNTI	
CS	Cell Radio Network Temporary Identifier Circuit Switched
CTFC	Calculated Transport Format Combination DCH Dedicated Channel
DGANSS	Differential GANSS
DGPS	Differential GPS
DL	Downlink
DPC	Downlink Power Control
DPCCH	Dedicated Physical Control Channel
DPCH	Dedicated Physical Channel
DPDCH	Dedicated Physical Data Channel
DRNC	Drift RNC
DRNS	Drift RNS
D-RNTI	Drift Radio Network Temporary Identifier
DRX	Discontinuous Reception
DSCH	Downlink Shared Channel
Ec	Energy in single Code
E-AGCH	E-DCH Absolute Grant Channel
E-DCH	Enhanced UL DCH
E-HICH	E-DCH HARQ Acknowledgement Indicator Channel
E-PUCH	Enhanced Uplink Physical Channel (TDD only)
E-RNTI	E-DCH RNTI
E-RUCCH	E-DCH Random Access Uplink Control Channel (TDD only)
E-TFCI	E-DCH Transport Format Combination Indicator
E-UCCH E-UTRA	E-DCH Uplink Control Channel (TDD only) Evolved UTRA
EDSCHPC	Evolved OTRA Enhanced Downlink Shared Channel Power Control
EGNOS	European Geostationary Navigation Overlay Service
EP	Elementary Procedure
FACH	Forward Access Channel
FDD	Frequency Division Duplex
F-DPCH	Fractional DPCH
FN	Frame Number
FP	Frame Protocol
GANSS	Galileo and Additional Navigation Satellite Systems
GERAN	GSM EDGE Radio Access Network
GA	Geographical Area
GAGAN	GPS Aided Geo Augmented Navigation
GAI	Geographical Area Identifier
GLONASS	GLObal'naya Navigatsionnaya Sputnikovaya Sistema (Engl.: Global Navigation Satellite System)
GNSS	Global Navigation Satellite System
GPS	Global Positioning System
GRA	GERAN Registration Area
GSM	Global System Mobile
GWCN	Gateway Core Network
HSDPA HW	High Speed Downlink Packet Access Hardware
нw IB	Information Block
ICD	Interface Control Document
ID	Identity or Identifier
IE	Information Element
IMSI	International Mobile Subscriber Identity
IP	Internet Protocol
IPDL	Idle Period DownLink

ICCD	
ISCP	Interference Signal Code Power
LAC	Location Area Code
LCR	Low Chip Rate (1.28 Mcps)
LCS	Location Services
MAC	Medium Access Control
MBMS	Multimedia Broadcast Multicast Service
MOCN	Multi-Operator Core Network
MRNC	MBMS Master RNC
MS	Mobile Station
MSAS	Multi-functional Satellite Augmentation System
NACC	Network Assissted Cell Change
NAS	Non Access Stratum
No	Reference Noise
NRT	Non Real Time
O&M	Operation and Maintenance
P(-)CCPCH	Primary CCPCH
PCH OTD	Paging Channel
-	Observed Time Difference
P(-)CPICH PCS	Primary CPICH Personal Communication Services
PDSCH PDU	Physical Downlink Shared Channel Protocol Data Unit
PhCH	
PICH	Physical Channel Paging Indication Channel
PLCCH	Physical Layer Common Control Channel
Pos	Position or Positioning
PRACH	Physical Random Access Channel
PTP	Point To Point
PTM	Point To Multipoint
PS	Packet Switched
PUESBINE	Provision of UE Specific Behaviour Information to Network Entities
QE	Quality Estimate
QZSS	Quasi-Zenith Satellite System
RAC	Routing Area Code
RACH	Random Access Channel
RAN	Radio Access Network
RANAP	Radio Access Network Application Part
RB	Radio Bearer
RL	Radio Link
RLC	Radio Link Control
RLS	Radio Link Set
RM	Rate Matching
RNC	Radio Network Controller
RNS	Radio Network Subsystem
RNSAP	Radio Network Subsystem Application Part
RNTI	Radio Network Temporary Identifier
RRC	Radio Resource Control
RT	Real Time
RSCP	Received Signal Code Power
SBAS	Satellite Based Augmentation System
SBSS	Serving BSS
Rx	Receive or Reception
Sat	Satellite
SCCP	Signalling Connection Control Part
S(-)CCPCH	Secondary CCPCH
SCH	Synchronisation Channel
SCTD	Space Code Transmit Diversity
SDU	Service Data Unit
SF	System Frame
SFN	System Frame Number
SHCCH	Shared Control Channel
SIR	Signal-to-Interference Ratio

SNA	Shared Network Area
SRB2	Signalling radio bearer 2
SRNC	Serving RNC
SRNS	Serving RNS
S-RNTI	Serving Radio Network Temporary Identifier
STTD	Space Time Transmit Diversity
TDD	Time Division Duplex
TF	Transport Format
TFCI	Transport Format Combination Indicator
TFCS	Transport Format Combination Set
TFS	Transport Format Set
TGCFN	Transmission Gap Connection Frame Number
TMGI	Temporary Mobile Group Identity
ToAWE	Time of Arrival Window Endpoint
ToAWS	Time of Arrival Window Startpoint
TPC	Transmit Power Control
TrCH	Transport Channel
TS	Time Slot
TSG	Technical Specification Group
TSTD	Time Switched Transmit Diversity
TTI	Transmission Time Interval
ТХ	Transmit or Transmission
UARFCN	UTRA Absolute Radio Frequency Channel Number
UDP	User Datagram Protocol
UC-ID	UTRAN Cell Identifier
UE	User Equipment
UL	Uplink
UMTS	Universal Mobile Telecommunications System
URA	UTRAN Registration Area
U-RNTI	UTRAN Radio Network Temporary Identifier
USCH	Uplink Shared Channel
UTC	Universal Coordinated Time
UTRA	Universal Terrestrial Radio Access
UTRAN	Universal Terrestrial Radio Access Network
WAAS	Wide Area Augmentation System
MAAS	which file Augmentation System

## 4 General

### 4.1 Procedure Specification Principles

The principle for specifying the procedure logic is to specify the functional behaviour of the DRNC/CRNC exactly and completely. The SRNC functional behaviour is left unspecified. The Physical Channel Reconfiguration procedure, [TDD – the UE Measurement Initiation, the UE Measurement Reporting, UE Measurement Termination, UE Measurement Failure,] and the Reset procedure are an exception from this principle.

The following specification principles have been applied for the procedure text in subclause 8:

- The procedure text discriminates between:
  - 1) Functionality which "shall" be executed

The procedure text indicates that the receiving node "shall" perform a certain function Y under a certain condition. If the receiving node supports procedure X but cannot perform functionality Y requested in the REQUEST message of a Class 1 EP, the receiving node shall respond with the message used to report unsuccessful outcome for this procedure, containing an appropriate cause value.

04. Functionality which "shall, if supported" be executed

The procedure text indicates that the receiving node "shall, if supported," perform a certain function Y under a certain condition. If the receiving node supports procedure X, but does not support functionality Y, the

receiving node shall proceed with the execution of the EP, possibly informing the requesting node about the not supported functionality.

Any required inclusion of an optional IE in a response message is explicitly indicated in the procedure text. If the procedure text does not explicitly indicate that an optional IE shall be included in a response message, the optional IE shall not be included. For requirements for including *Criticality Diagnostics* IE, see section 10. For examples on how to use the *Criticality Diagnostics* IE, see Annex C.

### 4.2 Forwards and Backwards Compatibility

The forwards and backwards compatibility of the protocol is assured by a mechanism in which all current and future messages, and IEs or groups of related IEs, include ID and criticality fields that are coded in a standard format that will not be changed in the future. These parts can always be decoded regardless of the standard version.

### 4.3 Source Signalling Address Handling

The sender of an RNSAP messages shall include the Source Signalling Address, i.e. the Signalling Address of the sending node.

### 4.4 Specification Notations

For the purposes of the present document, the following notations apply:

[FDD]	This tagging of a word indicates that the word preceding the tag "[FDD]" applies only to FDD. This tagging of a heading indicates that the heading preceding the tag "[FDD]" and the section following the heading applies only to FDD.
[TDD]	This tagging of a word indicates that the word preceding the tag "[TDD]" applies only to TDD, including 3.84Mcps TDD, 7.68Mcps TDD and 1.28Mcps TDD. This tagging of a heading indicates that the heading preceding the tag "[TDD]" and the section following the heading applies only to TDD, including 3.84Mcps TDD, 7.68Mcps TDD and 1.28Mcps TDD.
[3.84Mcps TDD]	This tagging of a word indicates that the word preceding the tag "[3.84Mcps TDD]" applies only to 3.84Mcps TDD. This tagging of a heading indicates that the heading preceding the tag "[3.84Mcps TDD]" and the section following the heading applies only to 3.84Mcps TDD.
[1.28Mcps TDD]	This tagging of a word indicates that the word preceding the tag "[1.28Mcps TDD]" applies only to 1.28Mcps TDD. This tagging of a heading indicates that the heading preceding the tag "[1.28Mcps TDD]" and the section following the heading applies only to 1.28Mcps TDD.
[7.68Mcps TDD]	This tagging of a word indicates that the word preceding the tag "[7.68Mcps TDD]" applies only to 7.68Mcps TDD. This tagging of a heading indicates that the heading preceding the tag "[7.68Mcps TDD]" and the section following the heading applies only to 7.68Mcps TDD.
[FDD]	This tagging indicates that the enclosed text following the "[FDD – " applies only to FDD. Multiple sequential paragraphs applying only to FDD are enclosed separately to enable insertion of TDD specific (or common) paragraphs between the FDD specific paragraphs.
[TDD]	This tagging indicates that the enclosed text following the "[TDD – " applies only to TDD including 3.84Mcps TDD, 7.68Mcps TDD and 1.28Mcps TDD. Multiple sequential paragraphs applying only to TDD are enclosed separately to enable insertion of FDD specific (or common) paragraphs between the TDD specific paragraphs.
[3.84Mcps TDD]	This tagging indicates that the enclosed text following the "[3.84Mcps TDD – " applies only to 3.84Mcps TDD. Multiple sequential paragraphs applying only to 3.84Mcps TDD are enclosed separately to enable insertion of FDD and TDD specific (or common) paragraphs between the 3.84Mcps TDD specific paragraphs.

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- [1.28Mcps TDD ...] This tagging indicates that the enclosed text following the "[1.28Mcps TDD " applies only to 1.28Mcps TDD. Multiple sequential paragraphs applying only to 1.28Mcps TDD are enclosed separately to enable insertion of FDD and TDD specific (or common) paragraphs between the 1.28Mcps TDD specific paragraphs.
- [7.68Mcps TDD ...] This tagging indicates that the enclosed text following the "[7.68Mcps TDD " applies only to 7.68Mcps TDD. Multiple sequential paragraphs applying only to 7.68Mcps TDD are enclosed separately to enable insertion of FDD and TDD specific (or common) paragraphs between the 7.68Mcps TDD specific paragraphs.
- Procedure When referring to an elementary procedure in the specification, the Procedure Name is written with the first letters in each word in upper case characters followed by the word "procedure", e.g. Radio Link Setup procedure.
- Message When referring to a message in the specification, the MESSAGE NAME is written with all letters in upper case characters followed by the word "message", e.g. RADIO LINK SETUP REQUEST message.
- IE When referring to an information element (IE) in the specification, the *Information Element Name* is written with the first letters in each word in upper case characters and all letters in Italic font followed by the abbreviation "IE", e.g. *Transport Format Set* IE.
- Value of an IE When referring to the value of an information element (IE) in the specification, the "Value" is written as it is specified in subclause 9.2 enclosed by quotation marks, e.g. "Abstract Syntax Error (Reject)".

# 5 RNSAP Services

### 5.1 RNSAP Procedure Modules

The Iur interface RNSAP procedures are divided into five modules as follows:

- 1. RNSAP Basic Mobility Procedures;
- 2. RNSAP Dedicated Procedures;
- 3. RNSAP Common Transport Channel Procedures;
- 4. RNSAP Global Procedures;
- 5. RNSAP MBMS Procedures.

The Basic Mobility Procedures module contains procedures used to handle the mobility within UTRAN, within GERAN and between UTRAN and GERAN.

The Dedicated Procedures module contains procedures that are used to handle DCHs, [FDD – F-DPCH,] [TDD – DSCHs, USCHs], HS-DSCH and E-DCH between two RNSs. If procedures from this module are not used in a specific Iur, then the usage of DCH, [FDD – F-DPCH,] [TDD – DSCH, USCH,] HS-DSCH and E-DCH traffic between corresponding RNSs is not possible.

The Common Transport Channel Procedures module contains procedures that are used to control common transport channel data streams (excluding the DSCH, HS-DSCH and USCH) over Iur interface.

The Global Procedures module contains procedures that are not related to a specific UE. The procedures in this module are in contrast to the above modules involving two peer CRNCs/CBSSs.

The MBMS Procedures module contains procedures that are specific to MBMS and used for cases that cannot be handled by other modules.

### 5.2 Parallel Transactions

Unless explicitly indicated in the procedure specification, at any instance in time one protocol peer shall have a maximum of one ongoing RNSAP Dedicated procedure related to a certain UE.

# 6 Services Expected from Signalling Transport

The signalling transport shall provide two different service modes for the RNSAP.

- 1. Connection oriented data transfer service. This service is supported by a signalling connection between two RNCs. It shall be possible to dynamically establish and release signalling connections based on the need. Each active UE shall have its own signalling connection. The signalling connection shall provide in sequence delivery of RNSAP messages. RNSAP shall be notified if the signalling connection breaks.
- 2. Connectionless data transfer service. RNSAP shall be notified in case a RNSAP message did not reach the intended peer RNSAP entity.

# 7 Functions of RNSAP

The RNSAP protocol provides the following functions:

- Radio Link Management. This function allows the SRNC to manage radio links using dedicated resources in a DRNS;
- Physical Channel Reconfiguration. This function allows the DRNC to reallocate the physical channel resources for a Radio Link;
- Radio Link Supervision. This function allows the DRNC to report failures and restorations of a Radio Link;
- Compressed Mode Control [FDD]. This function allows the SRNC to control the usage of compressed mode within a DRNS;
- Measurements on Dedicated Resources. This function allows the SRNC to initiate measurements on dedicated resources in the DRNS. The function also allows the DRNC to report the result of the measurements;
- DL Power Drifting Correction [FDD]. This function allows the SRNC to adjust the DL power level of one or more Radio Links in order to avoid DL power drifting between the Radio Links;
- DCH Rate Control. This function allows the DRNC to limit the rate of each DCH configured for the Radio Link(s) of a UE in order to avoid congestion situations in a cell;
- CCCH Signalling Transfer. This function allows the SRNC and DRNC to pass information between the UE and the SRNC on a CCCH controlled by the DRNS;
- GERAN Signalling Transfer. This function allows the SBSS and DBSS, the SRNC and DBSS or the SBSS and DRNC to pass information between the UE/MS and the SRNC/SBSS on an SRB2/CCCH controlled by the DBSS/DRNC;
- Paging. This function allows the SRNC/SBSS to page a UE in a URA/GRA or a cell in the DRNS;
- Common Transport Channel Resources Management. This function allows the SRNC to utilise Common Transport Channel Resources within the DRNS;
- Relocation Execution. This function allows the SRNC/SBSS to finalise a Relocation previously prepared via other interfaces;
- Reporting of General Error Situations. This function allows reporting of general error situations, for which function specific error messages have not been defined.
- DL Power Timeslot Correction [TDD]. This function enables the DRNS to apply an individual offset to the transmission power in each timeslot according to the downlink interference level at the UE.

- Measurements on Common Resources. This function allows an RNC/BSS to request from another RNC/BSS to initiate measurements on Common Resources. The function also allows the requested RNC/BSS to report the result of the measurements.
- Information Exchange. This function allows an RNC to request from another RNC the transfer of information. The function also allows the requested RNC to report the requested information.
- Resetting the Iur. This function is used to completely or partly reset the Iur interface.
- UE Measurement Forwarding[TDD]. This function allows the DRNC to request and receive UE measurements from the SRNC.
- Tracing. This function allows the SRNC to activate or deactivate trace in a DRNC.
- MBMS UE Linking/De-linking. This function allows the SRNC to provide/update/remove the UE Link to/in/from the DRNC.
- MBMS URA Linking/De-linking. This function allows the SRNC to provide/update/remove the URA Link to/in/from the DRNC.
- MBMS Channel Type Indication. This function allows the DRNC to indicate to the SRNC the selected channel type for an MBMS bearer service within certain cells in the DRNS.
- MBMS Preferred Frequency Layer Indication. This function allows the DRNC to indicate to the SRNC the preferred frequency layer for an MBMS bearer service within certain cells in the DRNS.
- MBMS MCCH Information Control. This function allows an MRNC to distribute the MCCH Information to CRNC within the MBSFN cluster.
- Direct Information Transfer. This function allows an RNC to transfer information to another RNC.
- Relocating serving RNC. This function enables to change the serving RNC functionality as well as the related Iu resources (RAB(s) and Signalling connection) from one RNC to another.
- Exchanging information about the secondary UL frequency. This function allows the SRNC to transfer information about the secondary UL frequency to the DRNS and the DRNS to transfer information about the secondary UL frequency to SRNC in Dual-Cell E-DCH operation.

The mapping between the above functions and RNSAP elementary procedures is shown in the Table 1.

Function	Elementary Procedure(s)
Radio Link Management	a) Radio Link Setup
	b) Radio Link Addition
	c) Radio Link Deletion
	d) Unsynchronised Radio Link Reconfiguration
	e) Synchronised Radio Link Reconfiguration
	Preparation
	f) Synchronised Radio Link Reconfiguration
	Commit
	g) Synchronised Radio Link Reconfiguration
	Cancellation
	h) Radio Link Pre-emptioni) Radio Link
	Activation j) Radio Link Parameter Update
Physical Channel Reconfiguration	Physical Channel Reconfiguration
Radio Link Supervision	a) Radio Link Failure
	b) Radio Link Restoration
Compressed Mode Control [FDD]	a) Radio Link Setup
	b) Radio Link Addition
	c) Compressed Mode Command
	d) Unsynchronised Radio Link Reconfiguration
	e) Synchronised Radio Link Reconfiguration
	Preparation
	f) Synchronised Radio Link Reconfiguration
	Commit
	g) Synchronised Radio Link Reconfiguration
Macauramente en Dadiastad Basaurasa	Cancellation a) Dedicated Measurement Initiation
Measurements on Dedicated Resources	b) Dedicated Measurement Initiation b) Dedicated Measurement Reporting
	c) Dedicated Measurement Termination
	d) Dedicated Measurement Failure
DL Power Drifting Correction [FDD]	Downlink Power Control
DCH Rate Control	a) Radio Link Setup
	b) Radio Link Addition
	c) Unsynchronised Radio Link Reconfiguration
	d) Synchronised Radio Link Reconfiguration
	Preparation
	e) Radio Link Congestion
CCCH Signalling Transfer	a) Uplink Signalling Transfer
	b) Downlink Signalling Transfer
GERAN Signalling Transfer	a) GERAN Uplink Signalling Transfer b) Downlink Signalling Transfer
Paging	/ 3 3
Paging Common Transport Channel Resources	Paging           a) Common Transport Channel Resources
Management	Initiation
Managomont	b) Common Transport Channel Resources
	Release
Relocation Execution	Relocation Commit
Reporting of General Error Situations	Error Indication
Measurements on Common Resources	a) Common Measurement Initiation
	b) Common Measurement Reporting
	c) Common Measurement Termination
	d) Common Measurement Failure
Information Exchange	a) Information Exchange Initiation
	b) Information Reporting
	<ul><li>c) Information Exchange Termination</li><li>d) Information Exchange Failure</li></ul>
DL Power Timeslot Correction [TDD]	Downlink Power Timeslot Control
Reset	Reset
UE Measurement Forwarding[TDD]	a) UE Measurement Initiation
	b) UE Measurement Reporting
	c) UE Measurement Termination
	d) UE Measurement Failure
Trace	a) lur Invoke Trace
	b) Iur Deactivate Trace

### Table 1: Mapping between functions and RNSAP elementary procedures

Function	Elementary Procedure(s)
MBMS UE Linking/De-linking	a) Common Transport Channel Resources
	Initiation
	b) Radio Link Setup
	c) Downlink Signalling Transfer
	d) MBMS Attach
	e) MBMS Detach
MBMS Channel Type Indication	a) Direct Information Transfer
	b) Uplink Signalling Transfer
	c) Radio Link Setup
	d) Radio Link Addition
	e) Common Transport Channel Resources
	Initiation
MBMS Preferred Frequency Layer Indication	a) Direct Information Transfer
	b) Radio Link Setup
	d) Radio Link Addition
MBMS URA Linking/De-linking	a) Downlink Signalling Transfer
	b) MBMS Attach
	c) MBMS Detach
MBMS MCCH Information Control	a) MBSFN MCCH Information
Direct Information Transfer	a) Direct Information Transfer
Relocating serving RNC	a) Enhanced Relocation
	b) Enhanced Relocation Cancel
	c) Enhanced Relocation Signalling Transfer
	d) Enhanced Relocation Release
Exchanging information about the secondary	a) Secondary UL Frequency Reporting
UL frequency [FDD]	b) Secondary UL Frequency Update

# 7.1 RNSAP functions and elementary procedures for lur-g.

The functions and RNSAP elementary procedures, which are applicable on the Iur-g interface are shown in the Table 1A.

Table 1A: RNSAP elementary procedures applicable on the lur-	g interface
--	-------------

Function	Elementary Procedure(s)
GERAN Signalling Transfer	a) GERAN Uplink Signalling Transfer
	b) Downlink Signalling Transfer
Paging	Paging
Relocation Execution	Relocation Commit
Reporting of General Error Situations	Error Indication
Measurements on Common Resources	a) Common Measurement Initiation
	b) Common Measurement Reporting
	c) Common Measurement Termination
	d) Common Measurement Failure
Information Exchange	a) Information Exchange Initiation
	b) Information Reporting
	c) Information Exchange Termination
	d) Information Exchange Failure

NOTE: In the connection with the functions related to the GERAN and UTRAN, the term RNC shall refer to RNC/BSS.

# 8 RNSAP Procedures

# 8.1 Elementary Procedures

In the following tables, all Eps are divided into Class 1 and Class 2 Eps.

Elementary	Initiating Message	Successful Outcome	Unsuccessful Outcome
Procedure		Response message	Response message
Radio Link Setup	RADIO LINK SETUP	RADIO LINK SETUP	RADIO LINK SETUP
	REQUEST	RESPONSE	FAILURE
Radio Link	RADIO LINK	RADIO LINK	RADIO LINK ADDITION
Addition	ADDITION REQUEST	ADDITION	FAILURE
		RESPONSE	
Radio Link	RADIO LINK	RADIO LINK	
Deletion	DELETION REQUEST	DELETION	
		RESPONSE	
Synchronised	RADIO LINK	RADIO LINK	RADIO LINK
Radio Link	RECONFIGURATION	RECONFIGURATION	RECONFIGURATION
Reconfiguration	PREPARE	READY	FAILURE
Preparation			
Unsynchronised	RADIO LINK	RADIO LINK	RADIO LINK
Radio Link	RECONFIGURATION	RECONFIGURATION	RECONFIGURATION
Reconfiguration	REQUEST	RESPONSE	FAILURE
Physical Channel	PHYSICAL CHANNEL	PHYSICAL CHANNEL	PHYSICAL CHANNEL
Reconfiguration	RECONFIGURATION	RECONFIGURATION	RECONFIGURATION
	REQUEST	COMMAND	FAILURE
Dedicated	DEDICATED	DEDICATED	DEDICATED
Measurement	MEASUREMENT	MEASUREMENT	MEASUREMENT
Initiation	INITIATION REQUEST	INITIATION	INITIATION FAILURE
		RESPONSE	
Common	COMMON	COMMON	COMMON TRANSPORT
Transport	TRANSPORT	TRANSPORT	CHANNEL RESOURCES
Channel	CHANNEL	CHANNEL	FAILURE
Resources	RESOURCES	RESOURCES	
Initialisation	REQUEST	RESPONSE	
Common	COMMON	COMMON	COMMON
Measurement	MEASUREMENT	MEASUREMENT	MEASUREMENT
Initiation	INITIATION REQUEST	INITIATION	INITIATION FAILURE
1. f		RESPONSE	
Information			
Exchange			EXCHANGE INITIATION
Initiation	INITIATION REQUEST		FAILURE
Popot	RESET REQUEST	RESPONSE RESET RESPONSE	
Reset UE Measurement			
		UE MEASUREMENT	
Initiation[TDD]	INITIATION REQUEST		INITIATION FAILURE
Enhanced		RESPONSE	
Enhanced	ENHANCED	ENHANCED	ENHANCED RELOCATION
Relocation	RELOCATION	RELOCATION RESPONSE	FAILURE
	REQUEST	RESPUNSE	

Table 2: Class 1 Elementary Pro
---------------------------------

Elementary Procedure	Initiating Message	
Uplink Signalling Transfer	UPLINK SIGNALLING TRANSFER INDICATION	
GERAN Uplink Signalling Transfer	GERAN UPLINK SIGNALLING TRANSFER	
	INDICATION	
Downlink Signalling Transfer	DOWNLINK SIGNALLING TRANSFER REQUEST	
Relocation Commit	RELOCATION COMMIT	
Paging	PAGING REQUEST	
Synchronised Radio Link Reconfiguration	RADIO LINK RECONFIGURATION COMMIT	
Commit		
Synchronised Radio Link Reconfiguration	RADIO LINK RECONFIGURATION CANCEL	
Cancellation		
Radio Link Failure	RADIO LINK FAILURE INDICATION	
Radio Link Restoration	RADIO LINK RESTORE INDICATION	
Dedicated Measurement Reporting	DEDICATED MEASUREMENT REPORT	
Dedicated Measurement Termination	DEDICATED MEASUREMENT TERMINATION	
	REQUEST	
Dedicated Measurement Failure	DEDICATED MEASUREMENT FAILURE	
	INDICATION	
Downlink Power Control [FDD]	DL POWER CONTROL REQUEST	
Compressed Mode Command [FDD]	COMPRESSED MODE COMMAND	
Common Transport Channel Resources	COMMON TRANSPORT CHANNEL RESOURCES	
Release	RELEASE REQUEST	
Error Indication	ERROR INDICATION	
Downlink Power Timeslot Control [TDD]	DL POWER TIMESLOT CONTROL REQUEST	
Radio Link Pre-emption	RADIO LINK PREEMPTION REQUIRED	
	INDICATION	
Radio Link Congestion	RADIO LINK CONGESTION INDICATION	
Common Measurement Reporting	COMMON MEASUREMENT REPORT	
Common Measurement Termination	COMMON MEASUREMENT TERMINATION	
	REQUEST	
Common Measurement Failure	COMMON MEASUREMENT FAILURE INDICATION	
Information Reporting	INFORMATION REPORT	
Information Exchange Termination	INFORMATION EXCHANGE TERMINATION	
	REQUEST	
Information Exchange Failure	INFORMATION EXCHANGE FAILURE INDICATION	
MBMS Attach	MBMS ATTACH COMMAND	
MBMS Detach	MBMS DETACH COMMAND	
Radio Link Parameter Update	RADIO LINK PARAMETER UPDATE INDICATION	
UE Measurement Reporting [TDD]	UE MEASUREMENT REPORT	
UE Measurement Termination [TDD]	UE MEASUREMENT TERMINATION REQUEST	
UE Measurement Failure [TDD]	UE MEASUREMENT FAILURE INDICATION	
lur Invoke Trace	IUR INVOKE TRACE	
Iur Deactivate Trace	IUR DEACTIVATE TRACE	
Direct Information Transfer	DIRECT INFORMATION TRANSFER	
Enhanced Relocation Cancel	ENHANCED RELOCATION CANCEL	
Enhanced Relocation Signalling Transfer	ENHANCD RELOCATION SIGNALLING TRANSFER	
Enhanced Relocation Release	ENHANCD RELOCATION RELEASE	
MBSFN MCCH Information	MBSFN MCCH INFORMATION	
Secondary UL Frequency Reporting [FDD]	SECONDARY UL FREQUENCY REPORT	
Secondary UL Frequency Update[FDD]	SECONDARY UL FREQUENCY UPDATE	
, , , , , , , , , , , , , , , , , , , ,	INDICATION	

# 8.2 Basic Mobility Procedures

# 8.2.1 Uplink Signalling Transfer

## 8.2.1.1 General

The procedure is used by the DRNC to forward a Uu message received on the CCCH to the SRNC.

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This procedure shall use the connectionless mode of the signalling bearer.

### 8.2.1.2 Successful Operation

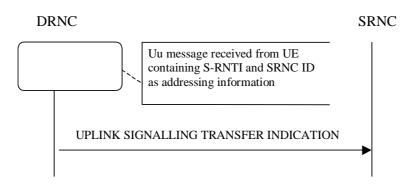


Figure 1: Uplink Signalling Transfer procedure, Successful Operation

When the DRNC receives an Uu message on the CCCH in which the UE addressing information is U-RNTI, i.e. S-RNTI and SRNC-ID, DRNC shall send the UPLINK SIGNALLING TRANSFER INDICATION message to the SRNC identified by the SRNC-ID received from the UE.

If at least one URA Identity is being broadcast in the cell where the Uu message was received (the accessed cell), the DRNC shall include a URA Identity for this cell in the *URA ID* IE, the *Multiple URAs Indicator* IE indicating whether or not multiple URA Identities are being broadcast in the accessed cell, and the RNC Identity of all other RNCs that are having at least one cell within the URA where the Uu message was received in the *URA Information* IE in the UPLINK SIGNALLING TRANSFER INDICATION message.

The DRNC shall include in the message the C-RNTI that it allocates to identify the UE in the radio interface in the accessed cell. If there is no valid C-RNTI for the UE in the accessed cell, the DRNS shall allocate a new C-RNTI for the UE [FDD – and in case Enhanced FACH operation is activated in the accessed cell the DRNC shall allocate the HS-DSCH-RNTI to the UE and shall include the *HS-DSCH-RNTI* IE in the message. And in case Common E-DCH operation is activated in the accessed cell the DRNC shall allocate the HS-DSCH-RNTI IE in the message]. [1.28Mcps TDD – and in case Enhanced FACH operation is activated in the accessed cell the DRNC shall allocate the HS-DSCH-RNTI IE in the message]. [1.28Mcps TDD – and in case Enhanced FACH operation is activated in the accessed cell the DRNC shall allocate the HS-DSCH-RNTI to the UE and shall include the *HS-DSCH-RNTI* IE in the message and the DRNC shall allocate the E-RNTI received from Node B and shall include the E-RNTI IE in the message]. If the DRNS allocates a new C-RNTI it shall also release any C-RNTI previously allocated for the UE.

If the DRNS has any RACH and/or FACH resources allocated for the UE identified by the U-RNTI in another cell than the accessed cell in which the Mac SDU sizes, flow control settings (including credits) and/or transport bearer are different from those in the old cell, then the DRNS shall not include the *Common Transport Channel Resources Initialisation Not Required* IE in the UPLINK SIGNALLING TRANSFER INDICATION message. In addition the DRNS shall release these RACH and/or FACH resources in old cell.

If the DRNS has any RACH and/or FACH resources allocated for the UE identified by the U-RNTI in another cell than the accessed cell in which the Mac SDU sizes, flow control settings (including credits) and transport bearer are the same as in the old cell, there is no need for Common Transport Channel Resources Initialisation to be initiated. In that case, DRNC may include the *Common Transport Channel Resources Initialisation Not Required* IE in the UPLINK SIGNALLING TRANSFER INDICATION message. In addition, the DRNS shall move these RACH and/or FACH resources to the new cell. If no Common Transfer Channel Resources Initialisation procedure is executed, the currently applicable Mac SDU sizes, flow control settings (including credits) and transport bearer shall continue to be used while the UE is in the new cell.

If no context exists for this UE in the DRNC, the DRNC shall create a UE Context for this UE, allocate a D-RNTI for the UE Context, and include the *D-RNTI* IE and the identifiers for the CN CS Domain and CN PS Domain that the DRNC is connected to in the UPLINK SIGNALLING TRANSFER INDICATION message. These CN Domain Identifiers shall be based on the LAC and RAC respectively of the cell where the message was received from the UE.

Depending on local configuration in the DRNS, it may include the geographical co-ordinates of the cell, represented either by the *Cell GAI* IE or by the *Cell GA Additional Shapes* IE, in which the Uu message was received in the UPLINK SIGNALLING TRANSFER INDICATION message. If the DRNC includes the *Cell GA Additional Shapes* IE in the UPLINK SIGNALLING TRANSFER INDICATION message, it shall also include the *Cell GAI* IE.

[FDD – The DRNC shall include the *DPC Mode Change Support Indicator* IE in the UPLINK SIGNALLING TRANSFER INDICATION message if the accessed cell supports DPC mode change.]

The DRNC shall include [FDD – the *Cell Capability Container FDD* IE] [3.84Mcps TDD – the *Cell Capability Container TDD* IE] [1.28Mcps TDD – the *Cell Capability Container TDD* LCR IE] [7.68Mcps TDD – the *Cell Capability Container 7.68Mcps TDD* IE] [FDD – and/or the *Cell Capability Container Extension FDD* IE] in the UPLINK SIGNALLING TRANSFER INDICATION message if the accessed cell supports any functionalities listed in [FDD – 9.2.2.D] [3.84Mcps TDD – 9.2.3.1a] [1.28Mcps TDD – 9.2.3.1b] [7.68Mcps TDD – 9.2.3.31] [FDD – 9.2.2.123].

[FDD – If the cell is multicell adjacent carrier operation capable and if the cell can be the serving HS-DSCH then the possible cells to serve multicell adjacent carrier operation (same sector) that can act as secondary serving HS-DSCH shall be listed in the *Secondary Serving Cell List* IE. If the *Secondary Serving Cell List* IE is not present, the multicell (adjacent carrier operation) capable cell can only serve as a secondary serving HS-DSCH cell in single band operation.]

[FDD – If the cell is dual band capable and if the cell can be the serving HS-DSCH then the possible cells to serve dual band carrier operation (same sector) that can act as secondary serving HS-DSCH shall be listed in the *Dual Band Secondary Serving Cell List* IE. If the *Dual Band Secondary Serving Cell List* IE is not present, the dual band capable cell can only serve as a secondary serving HS-DSCH cell in dual band operation.]

If MOCN or GWCN network sharing configuration is used then the DRNC shall include the broadcasted PLMN identities of the concerned cell in the *Multiple PLMN List* IE in the UPLINK SIGNALLING TRANSFER INDICATION message.

If available, the DRNC shall include the SNA Information IE for the concerned cell.

When receiving the *SNA Information* IE, the SRNC should use it to restrict cell access based on SNA information. See also TS 25.401 [40] for a broader description of the SNA access control.

[FDD – The DRNC shall include the *Cell Portion ID* IE in the UPLINK SIGNALLING TRANSFER INDICATION message if available.]

[1.28 Mcps TDD – The DRNC shall include the *Cell Portion LCR ID* IE in the UPLINK SIGNALLING TRANSFER INDICATION message if available.]

[FDD – If the propagation delay value exceeds the range of the *Propagation Delay* IE then the DRNC shall if supported include the *Extended Propagation Delay* IE and set the *Propagation Delay* IE to its maximum value.]

If the *D-RNTI* IE is not to be included in the UPLINK SIGNALLING TRANSFER INDICATION message and the UE Link is currently stored in the UE Context in the DRNC, the DRNC shall assume that the UE changes the cell under which it camps in the DRNS (see ref. TS 25.346 [50], section 5.1.6 on intra-DRNC cell change). In this case, if an MBMS session for some MBMS bearer services contained in the UE Link is ongoing in the cell identified by the *UC-ID* IE, the DRNC shall include in the *Active MBMS Bearer Service List* IE the *Transmission Mode* IE for each of these active MBMS bearer services are included, and the Uu message requests for MBMS PtP radio bearer establishment, the DRNC shall determine which TMGIs correspond with the short identities and shall include in the *Active MBMS Bearer Service List* IE the *TMGI* IE together with the *Transmission Mode* IE for each of these MBMS Selected Services.

If the CCCH message contains *Measurement results for monitored cells on non-used frequencies* IE in *Measured Result on RACH* IE, the DRNC may include in the UPLINK SIGNALLING TRANSFER INDICATION message the *Inter-frequency Cell List* IE for each of the measured inter-frequency cells. The order of cells in *Measurement results for monitored cells on non-used frequencies* IE in the CCCH message shall be preserved in *Inter-frequency Cell List* IE. If the *UL UARFCN* IE in the *Inter-frequency Cell List* IE is not present, the default duplex distance defined for the operating frequency band shall be used in the SRNC (see ref. TS 25.101 [43]).

[3.84 Mcps TDD – the DRNC shall include the *Rx Timing Deviation* IE unless the cell to which the CCCH message was sent is configured to use the extended timing advance in which case *Rx Timing Deviation 3.84Mcps Extended* IE shall be included.]

[7.68 Mcps TDD – the DRNC shall include the Rx Timing Deviation 7.68Mcps IE.]

### 8.2.1.3 Abnormal Conditions

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#### 8.2.1A **GERAN Uplink Signalling Transfer**

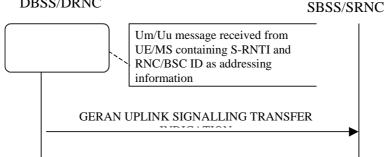
#### 8.2.1A.1 General

The procedure is used by the DBSS to forward an Um message received on the SRB2 to the SBSS/SRNC. The procedure is also used by the DRNC to forward a Uu message received on the CCCH to the SBSS.

This procedure shall use the connectionless mode of the signalling bearer.

#### 8.2.1A.2 Successful Operation

#### DBSS/DRNC



#### Figure 1A: GERAN Uplink Signalling Transfer procedure, Successful Operation

When the DBSS receives an Um message on the SRB2 in which the MS addressing information is G-RNTI, i.e. S-RNTI and BSC-ID, DBSS shall send the GERAN UPLINK SIGNALLING TRANSFER INDICATION message to the SBSS/SRNC identified by the BSC-ID received from the MS.

Alternatively, when the DRNC receives an Uu message on the CCCH in which the UE addressing information is U-RNTI, i.e. S-RNTI and SRNC-ID, and in which the SRNC-ID points to a GERAN BSS, the DRNC shall send the GERAN UPLINK SIGNALLING TRANSFER INDICATION message to the SBSS identified by SRNC-ID received from the UE.

If at least one GRA/URA Identity is being broadcast in the cell where the Um/Uu message was received (the accessed cell), the DBSS/DRNC shall include a GRA/URA Identity for this cell in the URA ID IE, the Multiple URAs Indicator IE indicating whether or not multiple GRA/URA Identities are being broadcast in the accessed cell, and the RNC/BSS Identity of all other RNC/BSSs that are having at least one cell within the GRA/URA where the Um/Uu message was received in the URA Information IE in the GERAN UPLINK SIGNALLING TRANSFER INDICATION message.

If no context exists for this UE/MS in the DBSS/DRNC, the DBSS/DRNC shall create a UE Context for this UE/MS, allocate a D-RNTI for the UE Context, and include the D-RNTI IE and the identifiers for the CN CS Domain and CN PS Domain that the DBSS/DRNC is connected to in the GERAN UPLINK SIGNALLING TRANSFER INDICATION message. These CN Domain Identifiers shall be based on the LAC and RAC respectively of the cell where the message was received from the UE/MS.

#### 8.2.1A.3 Abnormal Conditions

#### 8.2.2 **Downlink Signalling Transfer**

#### 8.2.2.1 General

The procedure is used by the SRNC to request to the DRNC the transfer of a Uu message on the CCCH in a cell. When used, the procedure is in response to a received Uplink Signalling Transfer procedure.

This procedure shall use the connectionless mode of the signalling bearer.

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### 8.2.2.1.1 Downlink Signalling Transfer for lur-g

The procedure is used by the SRNC/SBSS to request to the DBSS the transfer of an Um message on the SRB2 in a cell.

The procedure is used by the SBSS to request to the DRNC the transfer of a Uu message on the CCCH in a cell.

### 8.2.2.2 Successful Operation



Figure 2: Downlink Signalling Transfer procedure, Successful Operation

The procedure consists of the DOWNLINK SIGNALLING TRANSFER REQUEST message sent by the SRNC to the DRNC.

The message contains the Cell Identifier (C-ID) contained in the received UPLINK SIGNALLING TRANSFER INDICATION message and the D-RNTI.

Upon receipt of the message, the DRNC shall send the L3 Information on the CCCH in the cell indicated by the *C-ID* IE to the UE identified by the *D-RNTI* IE.

If the *D-RNTI Release Indication* IE is set to "Release D-RNTI" and the DRNS has no dedicated resources (DCH, [TDD – USCH and/or DSCH]) allocated for the UE, the DRNS shall release the D-RNTI, the UE Context and any RACH and FACH resources and any C-RNTI allocated to the UE Context upon receipt of the DOWNLINK SIGNALLING TRANSFER REQUEST message. If a UE Link is currently stored in the UE Context, the DRNC shall perform UE De-linking as specified in TS 25.346 [50], section 5.1.6.

If the *D-RNTI Release Indication* IE is set to "Release D-RNTI" and the DRNS has dedicated resources allocated for the UE, the DRNS shall only release any RACH and FACH resources and any C-RNTI allocated to the UE Context upon receipt of the DOWNLINK SIGNALLING TRANSFER REQUEST message.

If the *MBMS Bearer Service List* IE is included and *URA-ID* IE is not included in the DOWNLINK SIGNALLING TRANSFER REQUEST message, the DRNC shall perform the UE Linking as specified in TS 25.346 [50], section 5.1.6.

If the *MBMS Bearer Service List* IE is included and the *URA-ID* IE is included in the DOWNLINK SIGNALLING TRANSFER REQUEST message, the DRNC shall perform the URA Linking as specified in TS 25.346 [50], section 5.1.10.

If the *MBMS Bearer Service List* IE is included and the *Old URA-ID* IE is included in the DOWNLINK SIGNALLING TRANSFER REQUEST message, the DRNC shall perform URA De-linking for the URA identified by the *Old URA-ID* IE as specified in TS 25.346 [50], section 5.1.10.

[FDD – If the *Enhanced PCH Capability* IE is included in the message, the DRNC should store the information. If the *Enhanced PCH Capability* IE is not included in the message, the DRNC shall use the information to release an RRC Connection for the UE in cells supporting Enhanced PCH.]

[1.28Mcps TDD – If the *Enhanced PCH Capability* IE is included in the message, the DRNC should store the information. If the *Enhanced PCH Capability* IE is not included in the message, the DRNC shall use the information to release an RRC Connection for the UE in cells supporting Enhanced PCH.]

### 8.2.2.2.1 Successful Operation for lur-g

The procedure consists of the DOWNLINK SIGNALLING TRANSFER REQUEST message sent by the SRNC/SBSS to the DBSS or by the SBSS to the DRNC.

The message contains the Cell Identifier (C-*ID*) contained in the received UPLINK SIGNALLING TRANSFER INDICATION message and the D-RNTI.

Upon receipt of the message, the DBSS shall send the L3 Information on the SRB2 in the cell indicated by the *C-ID* IE to the UE/MS identified by the *D-RNTI* IE.

Upon receipt of the message, the DRNC shall send the L3 Information on the CCCH in the cell indicated by the *C-ID* IE to the UE/MS identified by the *D-RNTI* IE.

## 8.2.2.3 Abnormal Conditions

If the user identified by the *D-RNTI* IE has already accessed another cell controlled by the DRNC than the cell identified by the *C-ID* IE in the DOWNLINK SIGNALLING TRANSFER REQUEST message, the message shall be ignored.

## 8.2.2.3.1 Abnormal Conditions for lur-g

If the user identified by the *D-RNTI* IE has already accessed another cell controlled by the DRNC/DBSS than the cell identified by the *C-ID* IE in the DOWNLINK SIGNALLING TRANSFER REQUEST message, the message shall be ignored.

If the DRNC receives from the SBSS the DOWNLINK SIGNALLING TRANSFER REQUEST message, in which the *D-RNTI Release Indication* IE is set to "not Release D-RNTI", the DRNC shall ignore this IE and release the D-RNTI.

If the DBSS receives from the SBSS/SRNC the DOWNLINK SIGNALLING TRANSFER REQUEST message, in which the *D-RNTI Release Indication* IE is set to "not Release D-RNTI", the DBSS shall ignore this IE and release the D-RNTI.

## 8.2.3 Relocation Commit

### 8.2.3.1 General

The Relocation Commit procedure is used by source RNC to execute the Relocation. This procedure supports the Relocation procedures described in TS 25.413 [2].

This procedure shall use the signalling bearer mode specified below.

## 8.2.3.2 Successful Operation



### Figure 3: Relocation Commit procedure, Successful Operation

The source RNC sends the RELOCATION COMMIT message to the target RNC to request the target RNC to proceed with the Relocation. When the UE is utilising one or more radio links in the DRNC the message shall be sent using the connection oriented service of the signalling bearer and no further identification of the UE Context in the DRNC is required. If on the other hand, the UE is not utilising any radio link the message shall be sent using the connectionless service of the signalling bearer and the *D-RNTI* IE shall be included in the message to identify the UE Context in the DRNC.

Upon receipt of the RELOCATION COMMIT message from the source RNC the target RNC finalises the Relocation. If the message contains the transparent *RANAP Relocation Information* IE the target RNC shall use this information when finalising the Relocation.

### 8.2.3.2.1 Successful Operation for lur-g

The source RNC/BSS sends the RELOCATION COMMIT message to the target RNC/BSS to request the target RNC/BSS to proceed with the Relocation.

The message shall be sent using the connectionless service of the signalling bearer and the *D*-*RNTI* IE shall be included in the message to identify the UE/MS context in the DBSS.

Upon receipt of the RELOCATION COMMIT message from the source RNC/BSS, the target RNC/BSS finalises the Relocation. If the message contains the transparent *RANAP Relocation Information* IE the target RNC/BSS shall use this information when finalising the Relocation.

### 8.2.3.3 Abnormal Conditions

## 8.2.4 Paging

### 8.2.4.1 General

This procedure is used by the SRNC to indicate to a CRNC that a UE shall be paged in a cell or URA that is under the control of the CRNC.

This procedure shall use the connectionless mode of the signalling bearer.

### 8.2.4.2 Successful Operation



Figure 4: Paging procedure, Successful Operation

The procedure is initiated with a PAGING REQUEST message sent from the SRNC to the CRNC.

If the message contains the *C-ID* IE, the CRNC shall page in the indicated cell. Alternatively, if the message contains the *URA-ID* IE, the CRNC shall page in all cells that it controls in the indicated URA.

If the PAGING REQUEST message includes the *CN Originated Page to Connected Mode UE* IE, the CRNC shall include the information contained in the *CN Originated Page to Connected Mode UE* IE when paging the UE.

The CRNC shall calculate the Paging Occasions from the *IMSI* IE and the *DRX Cycle Length Coefficient* IE according to specification in ref. TS 25.304 [15] and apply transmission on PICH and PCH [FDD – or HS-DSCH] [1.28Mcps TDD – or HS-DSCH] accordingly.

[FDD – If the PAGING REQUEST message includes the *Enhanced PCH Capability* IE, the CRNC shall use the information to page the UE in cells supporting Enhanced PCH.]

[1.28Mcps TDD – If the PAGING REQUEST message includes the *Enhanced PCH Capability* IE, the CRNC shall use the information to page the UE in cells supporting Enhanced PCH.]

### 8.2.4.2.1 Successful Operation for lur-g

The procedure is initiated with a PAGING REQUEST message sent from the SBSS to the CRNC/CBSS or from the SRNC to the CBSS.

If the message contains the URA-ID IE, the CRNC/CBSS shall page in all cells that it controls in the indicated URA/GRA.

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If the PAGING REQUEST message includes the *CN Originated Page to Connected Mode UE* IE, the CRNC/CBSS shall include the information contained in the *CN Originated Page to Connected Mode UE* IE when paging the UE.

The CBSS shall calculate the Paging Occasions from the *IMSI* IE and the *GERAN DRX Cycle Length Coefficient* IE according to specification in ref. TS 44.118 [36] and apply transmission on PCCCH or PACCH accordingly.

### 8.2.4.3 Abnormal Conditions

### 8.2.4.3.1 Abnormal Conditions for lur-g

If the DRNC receives a PAGING REQUEST message from the SBSS, which contains the *C-ID* IE, the message shall be ignored.

If the DBSS receives a PAGING REQUEST message from the SBSS/SRNC, which contains the *C-ID* IE, the message shall be ignored.

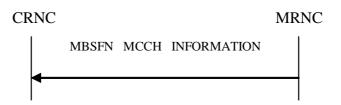
## 8.2.5 MBSFN MCCH Information

### 8.2.5.1 General

The procedure is used by the MRNC to inform the CRNC of the MCCH configuration and scheduling information used in MRNC.

This procedure shall use the connectionless mode of the signalling bearer.

### 8.2.5.2 Successful Operation



### Figure 4A: MBSFN MCCH Information procedure, Successful Operation

The procedure is used for MBSFN operation when a MRNC is used.

The message contains the MCCH message list sent on the MRNC and the MCCH configuration information of the MRNC.

Upon receipt of the message, if the *MCCH Configuration* IE exists, the CRNC shall setup or reconfigure the MCCH of all cells in the MBSFN cluster with the configuration contained in this IE, and update the System Information of these cells.

The CRNC shall decode the *L3 Information* IE contained in the *MCCH Message List* IE and apply the RLC/MAC/PHY configuration specified by relative MCCH Message to setup the RB information of MTCH, and then send the *L3 Information* IE on the MCCH in the receiving sequence at the beginning of the first MCCH modification period following the CFN indicated by the *CFN* IE.

In case MRNC is used and TDM multiplexing is used over air interface, the *MBSFN Scheduling Transmission Time Interval info List* IE shall be contained to show the scheduling transmission time interval for MBMS service which is configured with MBSFN TDM multiplexing. The CRNC shall schedule received data packets in the scheduling transmission time interval following the time point indicated by the timestamp.

### 8.2.5.3 Abnormal Conditions

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# 8.3 Dedicated Procedures

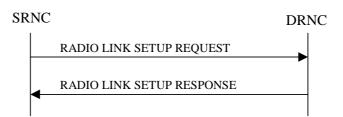
### 8.3.1 Radio Link Setup

### 8.3.1.1 General

This procedure is used for establishing the necessary resources in the DRNS for one or more radio links.

The connection-oriented service of the signalling bearer shall be established in conjunction with this procedure.

### 8.3.1.2 Successful Operation



#### Figure 5: Radio Link Setup procedure: Successful Operation

When the SRNC makes an algorithmic decision to add the first cell or set of cells from a DRNS to the active set of a specific UE-UTRAN connection, the RADIO LINK SETUP REQUEST message is sent to the corresponding DRNC to request establishment of the radio link(s). The Radio Link Setup procedure is initiated with this RADIO LINK SETUP REQUEST message sent from the SRNC to the DRNC.

Upon receipt of the RADIO LINK SETUP REQUEST message, the DRNS shall reserve the necessary resources and configure the new RL(s) according to the parameters given in the message. Unless specified below, the meaning of parameters is specified in other specifications.

The DRNS shall prioritise resource allocation for the RL(s) to be established according to Annex A.

If the RADIO LINK SETUP REQUEST message includes the *Allowed Queuing Time* IE the DRNS may queue the request for a time period not to exceed the value of the *Allowed Queuing Time* IE before starting to execute the request.

If the *UE Aggregate Maximum Bit Rate* IE is contained in the RADIO LINK SETUP REQUEST message, the DRNS shall, if supported, store the received UE Aggregate Maximum Bit Rate parameters to control the aggregate data rate of non GBR traffic for this UE.

#### **Transport Channels Handling:**

#### DCH(s):

[TDD – If the *DCH Information* IE is present in the RADIO LINK SETUP REQUEST message, the DRNS shall configure the new DCHs according to the parameters given in the message.]

If the RADIO LINK SETUP REQUEST message includes a *DCH Information* IE with multiple *DCH Specific Info* IEs, then the DRNS shall treat the DCHs in the *DCH Information* IE as a set of co-ordinated DCHs.

If the *DCH Specific Info* IE includes the *Unidirectional DCH Indicator* IE set to "Uplink DCH only", the DRNS shall ignore the *Transport Format Set* IE for the downlink for this DCH. As a consequence this DCH is not included as a part of the downlink CCTrCH.

If the *DCH Specific Info* IE includes the *Unidirectional DCH Indicator* IE set to "Downlink DCH only", the DRNS shall ignore the *Transport Format Set* IE for the uplink for this DCH. As a consequence this DCH is not included as a part of the uplink CCTrCH.

[FDD – For each DCH which do not belong to a set of co-ordinated DCHs, and which includes a *QE-Selector* IE set to "selected", the DRNS shall use the Transport channel BER from that DCH for the QE in the UL data frames. If no Transport channel BER is available for the selected DCH, the DRNS shall use the Physical

channel BER for the QE, ref. TS 25.427 [4]. If the *QE-Selector* IE is set to "non-selected", the DRNS shall use the Physical channel BER for the QE in the UL data frames, ref. TS 25.427 [4].]

For a set of co-ordinated DCHs, the DRNS shall use the Transport channel BER from the DCH with the *QE-Selector* IE set to "selected" for the QE in the UL data frames, ref. TS 25.427 [4]. [FDD – If no Transport channel BER is available for the selected DCH, the DRNS shall use the Physical channel BER for the QE, ref. TS 25.427 [4]. If all DCHs have *QE-Selector* IE set to "non-selected", the DRNS shall use the Physical channel BER for the QE, ref. TS 25.427 [4]. [TDD – If no Transport channel BER for the QE, ref. TS 25.427 [4].] [TDD – If no Transport channel BER is available for the selected DCH, the DRNS shall use the Physical channel BER is available for the Selected DCH, the DRNS shall use 0 for the QE, ref. TS 25.427 [4].]

The DRNS shall use the included *UL DCH FP Mode* IE for a DCH or a set of co-ordinated DCHs as the DCH FP Mode in the Uplink of the user plane for the DCH or the set of co-ordinated DCHs.

The DRNS shall use the included *ToAWS* IE for a DCH or a set of co-ordinated DCHs as the Time of Arrival Window Startpoint in the user plane for the DCH or the set of co-ordinated DCHs.

The DRNS shall use the included *ToAWE* IE for a DCH or a set of co-ordinated DCHs as the Time of Arrival Window Endpoint in the user plane for the DCH or the set of co-ordinated DCHs.

The *Frame Handling Priority* IE defines the priority level that should be used by the DRNS to prioritise between different frames of the data frames of the DCHs in the downlink on the radio interface in congestion situations once the new RL(s) have been activated.

The *Traffic Class* IE may be used to determine the transport bearer characteristics to apply between DRNC and Node B for the related DCH or set of co-ordinated DCHs. The DRNC should ignore the *Traffic Class* IE if the *TrCH Source Statistics Descriptor* IE indicates the value "RRC".

If the *TNL QoS* IE is included for a DCH or a set of co-ordinated DCHs and if ALCAP is not used, the *TNL QoS* IE may be used by the DRNS to determine the transport bearer characteristics to apply in the uplink for the related DCH or set of co-ordinated DCHs.

If the *DCH Information* IE contains a *DCH Specific Info* IE which includes the *Guaranteed Rate Information* IE, the DRNS shall treat the included IEs according to the following:

- If the *Guaranteed Rate Information* IE includes the *Guaranteed UL Rate* IE, the DRNS shall apply the Guaranteed Rate in the uplink of this DCH. The DRNS may decide to request the SRNC to limit the user rate of the uplink of the DCH at any point in time. The DRNS may request the SRNC to reduce the user rate of the uplink of the DCH below the guaranteed bit rate, however, whenever possible the DRNS should request the SRNC to only reduce the user rate between the maximum bit rate and the guaranteed bit rate. If the *DCH Specific Info* IE in the *DCH Information* IE does not include the *Guaranteed UL Rate* IE, the DRNS shall not limit the user rate of the uplink of the DCH.
- If the *Guaranteed Rate Information* IE includes the *Guaranteed DL Rate* IE, the DRNS shall apply the Guaranteed Rate in the downlink of this DCH. The DRNS may decide to request the SRNC to limit the user rate of the downlink of the DCH at any point in time. The DRNS may request the SRNC to reduce the user rate of the downlink of the DCH below the guaranteed bit rate, however, whenever possible the DRNS should request the SRNC to only reduce the user rate between the maximum bit rate and the guaranteed bit rate. If the *DCH Specific Info* IE in the *DCH Information* IE does not include the *Guaranteed DL Rate* IE, the DRNS shall not limit the user rate of the downlink of the DCH.

[FDD – If the RADIO LINK SETUP REQUEST message includes the *Transport Bearer Not Requested Indicator* IE set to "Transport Bearer shall not be Established" for a DCH, then the DRNC shall not establish a transport bearer for the concerned DCH and shall include the *Transport Bearer Not Setup Indicator* IE for the corresponding DCH in the RADIO LINK SETUP RESPONSE message.]

[FDD – If the RADIO LINK SETUP REQUEST message includes the *Transport Bearer Not Requested Indicator* IE set to "Transport Bearer may not be Established" for a DCH and:]

- [FDD – if the DRNC establishes a transport bearer for the concerned DCH, the DRNC shall include in the RADIO LINK SETUP RESPONSE message the *Binding ID* IE and *Transport Layer Address* IE for establishment of a transport bearer for the DCH being established.]

[FDD – if the DRNC does not establish a transport bearer for the concerned DCH, the DRNC shall
include the *Transport Bearer Not Setup Indicator* IE for the corresponding DCH in the RADIO LINK
SETUP RESPONSE message.]

#### [TDD – DSCH(s):]

[TDD – If the DSCH Information IE is included in the RADIO LINK SETUP REQUEST message, the DRNC shall establish the requested DSCHs. If the *Transport Layer Address* IE and *Binding ID* IE are included in the DSCH Information IE the DRNC may use the transport layer address and the binding identifier received from the SRNC when establishing a transport bearer for the DSCH. In addition, the DRNC shall send a valid set of DSCH Scheduling Priority IE and MAC-c/sh SDU Length IE parameters to the SRNC in the RADIO LINK SETUP RESPONSE message. If the PDSCH RL ID IE indicates a radio link in the DRNS, then the DRNC shall allocate a DSCH-RNTI to the UE Context and include the DSCH-RNTI IE in the RADIO LINK SETUP RESPONSE message.]

[TDD – If the *DSCH Information* IE is included in the RADIO LINK SETUP REQUEST message, the DRNS may use the *Traffic Class* IE to determine the transport bearer characteristics to apply between DRNC and Node B for the related DSCHs.]

[TDD – The DRNC shall include the *DSCH Initial Window Size* IE in the RADIO LINK SETUP RESPONSE message for each DSCH, if the DRNS allows the SRNC to start transmission of MAC-c/sh SDUs before the DRNS has allocated capacity on user plane as described in TS 25.425 [32].]

[TDD – If the RADIO LINK SETUP REQUEST message includes the *TNL QoS* IE in the *DSCH TDD Information* IE and if ALCAP is not used, the DRNS may use the *TNL QoS* IE to determine the transport bearer characteristics to apply in the uplink for the related DSCH.]

#### **[TDD – USCH(s):]**

[TDD – The DRNS shall use the list of RB Identities in the *RB Info* IE in the *USCH information* IE to map each *RB Identity* IE to the corresponding USCH. If the *Transport Layer Address* IE and *Binding ID* IE are included in the *USCH Information* IE the DRNC may use the transport layer address and the binding identifier received from the SRNC when establishing a transport bearer for the USCH.]

[TDD – If the USCH Information IE is included in the RADIO LINK SETUP REQUEST message, the DRNS may use the *Traffic Class* IE to determine the transport bearer characteristics to apply between DRNC and Node B for the related USCHs.]

[TDD – If the USCH Information IE is included in the RADIO LINK SETUP REQUEST message and contains the *TNL QoS* IE, and if ALCAP is not used, the DRNS may use the *TNL QoS* IE to determine the transport bearer characteristics to apply in the uplink for the related USCH.]

[TDD – If the USCH Information IE is included in the RADIO LINK SETUP REQUEST message, the DRNS shall establish the requested USCHs, and the DRNC shall provide the [3.84 Mcps TDD – USCH Information Response IE] [1.28 Mcps TDD – USCH Information Response LCR IE] [7.68 Mcps TDD – USCH Information Response 7.68 Mcps IE] in the RADIO LINK SETUP RESPONSE message.]

#### [TDD – CCTrCH Handling:]

[TDD – If the *UL CCTrCH Information* IE is present in the RADIO LINK SETUP REQUEST message, the DRNS shall configure the new UL CCTrCH(s) according to the parameters given in the message.]

[1.28Mcps TDD – If the *UL CCTrCH Information LCR* IE includes the *TDD TPC Uplink Step Size* IE, the DRNS shall configure the uplink TPC step size according to the parameters given in the message.]

[TDD – If the *DL CCTrCH Information* IE is present in the RADIO LINK SETUP REQUEST message, the DRNS shall configure the new DL CCTrCH(s) according to the parameters given in the message.]

[TDD – If the *TPC CCTrCH List* IE is present in the RADIO LINK SETUP REQUEST message, the DRNS shall configure the identified UL CCTrCHs with TPC according to the parameters given in the message.]

#### **HS-DSCH:**

If the HS-DSCH Information IE is present in the RADIO LINK SETUP REQUEST message, then:

- The DRNS shall setup the requested HS-PDSCH resources on the Serving HS-DSCH Radio Link indicated by the *HS-PDSCH RL ID* IE.
- The DRNC shall include the HARQ Memory Partitioning IE in the [FDD HS-DSCH FDD Information Response IE] [TDD – HS-DSCH TDD Information Response IE] in the RADIO LINK SETUP RESPONSE message. [FDD – The HARQ Memory Partitioning IE shall either contain the HARQ Memory Partitioning Information Extension For MIMO IE or the Number of Processes IE set to a value higher than "8", if the MIMO Activation Indicator IE is included in the HS-DSCH Information IE.] [1.28Mcps TDD– The HARQ Memory Partitioning IE shall either contain the HARQ Memory Partitioning Information Extension For MIMO IE or the Number of Processes IE set to a value higher than "8", if the MIMO Activation Indicator IE is included in the HS-DSCH Information IE.] [1.28Mcps TDD– The HARQ Memory Partitioning IE shall either contain the HARQ Memory Partitioning Information Extension For MIMO IE or the Number of Processes IE set to a value higher than "8", if the MIMO Activation Indicator IE is included in the HS-DSCH Information IE.]
- The DRNC shall allocate an HS-DSCH-RNTI to the UE Context and include the *HS-DSCH-RNTI* IE in the RADIO LINK SETUP RESPONSE message.
- The DRNC shall include in the RADIO LINK SETUP RESPONSE message the *Binding ID* IE and *Transport Layer Address* IE for establishment of transport bearer for every HS-DSCH MAC-d flow being established.
- If the RADIO LINK SETUP REQUEST message includes the *Transport Layer Address* IE and *Binding ID* IE in the *HS-DSCH Information* IE for an HS-DSCH MAC-d flow, then the DRNC may use the transport layer address and the binding identifier received from the SRNC when establishing a transport bearer for the concerned HS-DSCH MAC-d flow.
- The DRNS may use the *Traffic Class* IE for a specific HS-DSCH MAC-d flow to determine the transport bearer characteristics to apply between DRNC and Node B. If *TrCH Source Statistics Descriptor* IE is present with the value "RRC" in the *HS-DSCH MAC-d Flows Information* IE, then the DRNC should ignore the *Traffic Class* IE.
- If fields are to be included in the User Plane by the SRNC to handle TNL Congestion Control for HSDPA in the DRNS, then the DRNC shall include the *User Plane Congestion Fields Inclusion* IE in the *HS-DSCH Information Response* IE.
- If the RADIO LINK SETUP REQUEST message includes the *MAC-hs Guaranteed Bit Rate* IE for a Priority Queue in the *HS-DSCH MAC-d Flows Information* IE in the *HS-DSCH Information* IE, then the DRNS shall use this information to optimise MAC-hs scheduling decisions for the related HSDPA Priority Queue.
- If the RADIO LINK SETUP REQUEST message includes the *Discard Timer* IE for a Priority Queue in the *HS-DSCH MAC-d Flows Information* IE in the *HS-DSCH Information* IE, then the DRNS shall use this information to discard out-of-date MAC-hs SDUs from the related HSDPA Priority Queue.
- If the RADIO LINK SETUP REQUEST message includes the *Maximum MAC-d PDU Size Extended* IE for a Priority Queue in the *HS-DSCH MAC-d Flows Information* IE in the *HS-DSCH Information* IE, then the DRNS shall ignore the *SID* IE and *MAC-d PDU Size* IE in the *MAC-d PDU Size Index* IE and use *Maximum MAC-d PDU Size Extended* IE to optimise capacity allocation for the related HSDPA Priority Queue.
- The DRNC shall include the HS-DSCH Initial Capacity Allocation IE in the [FDD HS-DSCH FDD Information Response IE] [TDD – HS-DSCH TDD Information Response IE] in the RADIO LINK SETUP RESPONSE message for every HS-DSCH MAC-d flow being established, if the DRNS allows the SRNC to start transmission of MAC-d PDUs before the DRNS has allocated capacity on user plane as described in TS 25.425 [32]. If RADIO LINK SETUP REQUEST message includes HS-DSCH MAC-d PDU Size Format IE in the HS-DSCH Information IE set to the value "Flexible MACd PDU Size", then DRNC shall only set in the HS-DSCH Initial Capacity Allocation IE the values for the peer of Scheduling Priority Indicator IE and Maximum MAC-d PDU Size Extended IE to the values of the corresponding peer I in RADIO LINK SETUP REQUEST in the HS-DSCH MAC-d Flows Information IE in the HS-DSCH Information IE for a Priority Queue including Scheduling Priority Indicator IE and Maximum MAC-d PDU Size Extended IE.
- [FDD If the RADIO LINK SETUP REQUEST message includes the *HS-SCCH Power Offset* IE in the *HS-DSCH Information* IE, then the DRNS may use this value to determine the HS-SCCH power. The HS-SCCH Power Offset should be applied for any HS-SCCH transmission to this UE.]

- [FDD The DRNC shall include the *Measurement Power Offset* IE in the *HS-DSCH Information Response* IE in the RADIO LINK SETUP RESPONSE message.]
- [FDD The DRNS shall allocate HS-SCCH codes corresponding to the HS-DSCH and the DRNC shall include the *HS-SCCH Specific Information Response* IE in the *HS-DSCH FDD Information Response* IE in the RADIO LINK SETUP RESPONSE message.]
- [TDD The DRNS shall allocate HS-SCCH parameters corresponding to the HS-DSCH and the DRNC shall include the [3.84Mcps TDD – HS-SCCH Specific Information Response IE] [1.28Mcps TDD – HS-SCCH Specific Information Response LCR IE] [7.68 Mcps TDD – HS-SCCH Specific Information Response 7.68 Mcps IE] in the HS-DSCH TDD Information Response IE in the RADIO LINK SETUP RESPONSE message.]
- [TDD The DRNC shall include the [3.84 Mcps TDD HS-PDSCH Timeslot Specific Information Response IE] [1.28 Mcps TDD – HS-PDSCH Timeslot Specific Information Response LCR IE] [7.68 Mcps TDD – HS-PDSCH Timeslot Specific Information Response IE] in the HS-DSCH Information Response IE in the RADIO LINK SETUP RESPONSE message.]
- [FDD The DRNC shall include the *HS-PDSCH And HS-SCCH Scrambling Code* IE in the *HS-DSCH FDD Information Response* IE in the RADIO LINK SETUP RESPONSE message.]
- [FDD If the RADIO LINK SETUP REQUEST message includes the *HARQ Preamble Mode* IE in the *HS-DSCH Information* IE, then the DRNS shall use the indicated HARQ Preamble Mode as described in TS 25.214 [10], if HS-DPCCH ACK/NACK preamble and postamble is supported. Then, in this case, if the mode 1 is applied, the DRNC shall include the *HARQ Preamble Mode Activation Indicator* IE in the *HS-DSCH Information Response* IE in the RADIO LINK SETUP RESPONSE message. If the *HARQ Preamble Mode* IE is not included or if the mode 0 is applied, then the DRNC shall not include the *HARQ Preamble Mode Activation Indicator* IE in the RADIO LINK SETUP RESPONSE message.]
- If the RADIO LINK SETUP REQUEST message includes the *HS-DSCH MAC-d PDU Size Format* IE in the *HS-DSCH Information* IE, then the DRNS shall use the indicated format in user plane frame structure for HS-DSCH channels TS 25.425 [32] and MAC-hs TS 25.321 [41].
- [FDD If the *TNL QoS* IE is included for a MAC-d flow and if ALCAP is not used, the *TNL QoS* IE may be used by the DRNS to determine the transport bearer characteristics to apply in the uplink between the DRNS and the SRNC for the related MAC-d flow.]
- [FDD If the *Serving Cell Change CFN* IE is included in the RADIO LINK SETUP REQUEST message, then the DRNS shall activate the resources that are allocated for the new serving HS-DSCH Radio Link at the next coming CFN with a value equal to the value requested by the SRNC.]
- [FDD If the MIMO Activation Indicator IE is included in the HS-DSCH FDD Information IE, then]
  - [FDD The DRNS shall activate the MIMO mode for the HS-DSCH Radio Link.]
  - [FDD The DRNS shall decide the pilot configuration and the UE reporting configuration (N/M ratio) according to TS 25.214 [10] for MIMO and include the *MIMO Information Response* IE in the *HS-DSCH FDD Information Response* IE in the RADIO LINK SETUP RESPONSE message.]
  - [FDD If the Power Offset For S-CPICH for MIMO Request Indicator IE is included, the DRNC shall, if supported and MIMO pilot configuration with Primary and Secondary CPICH is set up with a non-zero power offset on the cell where the Serving HS-DSCH Radio Link is established, include the Power Offset For S-CPICH for MIMO IE in the HS-DSCH FDD Information Response IE in the RADIO LINK SETUP RESPONSE message. If zero power offset the DRNC may include the Power Offset For S-CPICH for MIMO IE.]
- [1.28 Mcps TDD If the *MIMO Activation Indicator* IE is included in the *HS-DSCH TDD Information* IE, then]
  - [1.28 Mcps TDD The DRNS shall activate the MIMO mode for the HS-DSCH Radio Link.]
  - [1.28 Mcps TDD The DRNS shall decide the SF mode for HS-PDSCH dual stream and include the *MIMO SF Mode for HS-PDSCH dual stream* IE in the *HS-DSCH TDD Information Response* IE in the RADIO LINK SETUP RESPONSE message.]

- [FDD If the Sixtyfour QAM Usage Allowed Indicator IE is included in the HS-DSCH FDD Information IE, then the DRNS may if the value is set to "allowed" use 64 QAM for the HS-DSCH Radio Link, and the DRNS shall include the SixtyfourQAM DL Usage Indicator IE in the HS-DSCH FDD Information Response IE in the RADIO LINK SETUP RESPONSE message.]
- [FDD If the Sixtyfour QAM Usage Allowed Indicator IE is included in the HS-DSCH FDD Information IE with value set to "not allowed", then the DRNS shall not use 64 QAM for the HS-DSCH Radio Link.]
- [FDD If the RADIO LINK SETUP REQUEST message includes the HS-DSCH MAC-d PDU Size Format IE set to "Flexible MAC-d PDU Size" and if Sixtyfour QAM will not be used, the DRNS shall include the HS-DSCH TB Size Table Indicator IE in the RADIO LINK SETUP RESPONSE message if it decides to use the octet aligned table defined in TS 25.321 [41] for HS-DSCH Transport Block Size signalling.]
- [FDD If the *UE with enhanced HS-SCCH support indicator* IE is included in the *HS-DSCH FDD Information* IE, then the DRNS may use:]
  - [FDD a different HS-SCCH in consecutive TTIs for this UE]
  - [FDD HS-SCCH orders for the case of HS-SCCH-less operation to this UE]
- [FDD If the *UE Support Indicator Extension* IE is included in the *HS-DSCH FDD Information* IE the DRNS may use the supported HSDPA functions for this UE.]
- [FDD If the UE Support Indicator Extension IE is included in the HS-DSCH FDD Information IE with the bit UE DTXDRX related HS-SCCH orders uniform behavior indicator set to 0, then the DRNS shall, if supported, include the Support of dynamic DTXDRX related HS-SCCH order IE in the HS-DSCH FDD Information Response IE in the RADIO LINK SETUP RESPONSE message.]
- [FDD The DRNS shall include the SixtyfourQAM DL Support Indicator IE in the RADIO LINK SETUP RESPONSE message. This SixtyfourQAM DL Support Indicator IE is related to the HS-DSCH Radio Link.]
- [1.28 Mcps TDD The DRNS shall include the *SixtyfourQAM DL Support Indicator* IE in the RADIO LINK SETUP RESPONSE message.]
- If the RADIO LINK SETUP REQUEST message includes the *DL RLC PDU Size Format* IE for a Priority Queue in the *HS-DSCH MAC-d Flows Information* IE in the *HS-DSCH Information* IE, the *DL RLC PDU Size Format* IE may be used by the DRNS to determine the allocated capacity on user plane as described in TS 25.425 [32].
- [FDD If the RADIO LINK SETUP REQUEST message includes the UE Aggregate Maximum Bit Rate Enforcement Indicator IE in the Priority Queue Information IE in the HS-DSCH MAC-d Flows Information IE in the HS-DSCH Information IE, the DRNS shall, if supported, consider the data of the related HSDPA Priority Queue for UE Aggregate Maximum Bit Rate Enforcement.]
- [FDD If the Single Stream MIMO Activation Indicator IE is included in the HS-DSCH FDD Information IE, then the DRNS shall activate the Single Stream MIMO for the HS-DSCH Radio Link.]
- [1.28 Mcps TDD If the UE TSO Capability LCR IE is included in the HS-DSCH TDD Information IE, then the DRNC may include the TSO HS-PDSCH Indication LCR IE in the RADIO LINK SETUP RESPONSE message if HS-PDSCH resources could be allocated on TSO for the UE.]

#### [FDD – Secondary Serving HS-DSCH:]

[FDD – If the *Additional HS Cell Information RL Setup* IE is present in the RADIO LINK SETUP REQUEST message, then:]

 [FDD – The DRNS shall setup the requested HS-PDSCH resources on the Serving HS-DSCH Radio Link indicated by the *HS-PDSCH RL ID* IE. Non cell specific secondary serving Radio Link and non cell specific secondary serving HS-DSCH parameters take the same values as for the serving HS-DSCH cell.]

- [FDD The DRNC shall allocate an HS-DSCH-RNTI to the UE Context and include the HS-DSCH-RNTI IE in the Additional HS Cell Information Response IE in the RADIO LINK SETUP RESPONSE message.]
- [FDD If the RADIO LINK SETUP REQUEST message includes the HS-SCCH Power Offset IE in the HS-DSCH Secondary Serving Information IE, then the DRNS may use this value to determine the HS-SCCH power. The HS-SCCH Power Offset should be applied for any secondary serving HS-SCCH transmission to this UE.]
- [FDD The DRNC shall include the *Measurement Power Offset* IE in the *HS-DSCH FDD Secondary Serving Information Response* IE in the *Additional HS Cell Information Response* IE in the RADIO LINK SETUP RESPONSE message.]
- [FDD The DRNS shall allocate HS-SCCH codes corresponding to the HS-DSCH and the DRNC shall include the *HS-SCCH Specific Secondary Serving Information Response* IE in the *HS-DSCH FDD Secondary Serving Information Response* IE in the *Additional HS Cell Information Response* IE in the RADIO LINK SETUP RESPONSE message.]
- [FDD The DRNC shall include the *HS-PDSCH And HS-SCCH Scrambling Code* IE in the *HS-DSCH FDD Secondary Serving Information Response* IE in the *Additional HS Cell Information Response* IE in the RADIO LINK SETUP RESPONSE message.]
- [FDD If the *Serving Cell Change CFN* IE is included in the RADIO LINK SETUP REQUEST message, then the DRNS shall activate the resources that are allocated for the new serving HS-DSCH Radio Link at the next coming CFN with a value equal to the value requested by the SRNC.]
- [FDD If the *MIMO Activation Indicator* IE is included in the *HS-DSCH FDD Secondary Serving Information* IE, then the DRNS shall activate the MIMO mode for the secondary serving HS-DSCH Radio Link and the DRNS shall decide the pilot configuration and the UE reporting configuration (N/M ratio) according to TS 25.214 [10] for MIMO for the secondary serving HS-DSCH Radio Link and include the *MIMO Information Response* IE in the *HS-DSCH FDD Secondary Serving Information Response* IE in the *Additional HS Cell Information Response* IE in the RADIO LINK SETUP RESPONSE message.]
- [FDD If the Power Offset For S-CPICH for MIMO Request Indicator IE is included, the DRNC shall, if supported and MIMO pilot configuration with Primary and Secondary CPICH is set up with a non-zero power offset on the cell where the Secondary Serving HS-DSCH Radio Link is established, include the Power Offset For S-CPICH for MIMO IE in the HS-DSCH FDD Secondary Serving Information Response IE in the RADIO LINK SETUP RESPONSE message. If zero power offset the DRNC may include the Power Offset For S-CPICH for S-CPICH for MIMO IE.]
- [FDD If the *Single Stream MIMO Activation Indicator* IE is included in the *HS-DSCH FDD Secondary Serving Information* IE, then the DRNS shall activate the Single Stream MIMO mode for the secondary serving HS-DSCH Radio Link.]
- [FDD If the Sixtyfour QAM Usage Allowed Indicator IE is included in the HS-DSCH FDD Secondary Serving Information IE, then the DRNS may if the value is set to "allowed" use 64 QAM for the secondary serving HS-DSCH Radio Link, and the DRNS shall include the SixtyfourQAM DL Usage Indicator IE in the HS-DSCH FDD Secondary Serving Information Response IE in the Additional HS Cell Information Response IE in the RADIO LINK SETUP RESPONSE message.]
- [FDD If the Sixtyfour QAM Usage Allowed Indicator IE is included in the HS-DSCH FDD Secondary Serving Information IE with value set to "not allowed", then the DRNS shall not use 64 QAM for the secondary serving HS-DSCH Radio Link.]
- [FDD If Sixtyfour QAM will not be used for the secondary serving HS-DCSH, the DRNS shall
  include the HS-DSCH TB Size Table Indicator IE in the HS-DSCH FDD Secondary Serving
  Information Response IE in the Additional HS Cell Information Response IE in the RADIO LINK
  SETUP RESPONSE message if it decides to use the octet aligned table defined in TS 25.321 [41] for
  the secondary serving HS-DSCH Transport Block Size signalling.]
- [FDD The DRNS shall include the *SixtyfourQAM DL Support Indicator* IE in the *Additional HS Cell Information Response* IE in the RADIO LINK SETUP RESPONSE message.]

#### [FDD – E-DCH:]

[FDD – If the *E-TFCS Information* IE in the *E-DPCH Information* IE contains the *E-DCH Minimum Set E-TFCI Validity Indicator* IE the DRNS shall ignore the value in *E-DCH Minimum Set E-TFCI* IE. If the *E-DCH Minimum Set E-TFCI validity indicator* IE is absent DRNS shall use the value for the related resource allocation operation.]

[FDD – If the *E-TFCS Information IE in the E-DPCH Information* IE contains the *E-DPDCH Power Interpolation* IE, the DRNS shall use the value to determine the applicable E-DPDCH power formula defined in TS 25.214 [10]. If the *E-DPDCH Power Interpolation* IE is not present, the DRNS shall use the E-DPDCH power extrapolation formula defined in TS 25.214 [10].]

[FDD – If the *E-TFCS Information* IE in the *E-DPCH Information* IE contains the *E-TFCI Boost Information* IE, the DRNS shall use the information according to TS 25.214 [10]. If the *E-TFCI Boost Information* IE is not present, the DRNS shall use the value "127" in the algorithm defined in TS 25.214 [10].]

[FDD – If the RADIO LINK SETUP REQUEST message includes the *E-DPCH Information* IE, which contains the *Minimum Reduced E-DPDCH Gain Factor* IE, then the DRNS shall use the value to determine the applicable minimum gain factor ( $\beta_{ed,k,reduced,min}$ ) defined in TS 25.214 [10]. For the case the *Minimum Reduced E-DPDCH Gain Factor* IE is not available for the UE Context, the DRNS may use the default value defined in TS 25.331 [16]. ]

[FDD – If the *E-DCH FDD Information* IE is present in the RADIO LINK SETUP REQUEST message then:]

- [FDD The DRNS shall setup the requested E-DCH resources on the Radio Links indicated by the *E*-DCH *RL Indication* IE, set to "E-DCH", in the *RL Information* IE.]
- [FDD If the RADIO LINK SETUP REQUEST message includes the *HARQ Process Allocation For* 2ms Scheduled Transmission Grant IE, the DRNS shall use this information for the related resource allocation operation.]
- [FDD If the RADIO LINK SETUP REQUEST message includes the *Transport Layer Address* IE and *Binding ID* IE in the *RL specific E-DCH Information* IE for an E-DCH MAC-d flow, then if the *Transport Bearer Not Requested Indicator* IE is not included for this E-DCH MAC-d flow, the DRNC may use the transport layer address and the binding identifier received from the SRNC when establishing a transport bearer for the concerned E-DCH MAC-d flow. The DRNC shall include in the RADIO LINK SETUP RESPONSE message the *Binding ID* IE and *Transport Layer Address* IE for establishment of a transport bearer for every E-DCH MAC-d flow being established for which the *Transport Bearer Not Requested Indicator* IE was not included.]
- [FDD If the RADIO LINK SETUP REQUEST message includes the *Transport Bearer Not Requested Indicator* IE set to "Transport Bearer shall not be Established" for an E-DCH MAC-d flow, then the DRNC shall not establish a transport bearer for the concerned E-DCH MAC-d flow and shall include the *Transport Bearer Not Setup Indicator* IE for the corresponding E-DCH MAC-d flow in the RADIO LINK SETUP RESPONSE message.]
- [FDD If the RADIO LINK SETUP REQUEST message includes the *Transport Bearer Not Requested Indicator* IE set to "Transport Bearer may not be Established" for an E-DCH MAC-d flow and:]
  - [FDD if the DRNC establishes a transport bearer for the concerned E-DCH MAC-d flow, the DRNC shall include in the RADIO LINK SETUP RESPONSE message the *Binding ID* IE and *Transport Layer Address* IE for establishment of a transport bearer for the E-DCH MAC-d flow being established.]
  - [FDD if the DRNC does not establish a transport bearer for the concerned E-DCH MAC-d flow, the DRNC shall include the *Transport Bearer Not Setup Indicator* IE for the corresponding E-DCH MAC-d flow in the RADIO LINK SETUP RESPONSE message.]
- [FDD The DRNS may use the *Traffic Class* IE for a specific E-DCH MAC-d flow to determine the transport bearer characteristics to apply between DRNC and Node B. If *TrCH Source Statistics Descriptor* IE is present with the value "RRC" in the *E-DCH MAC-d Flows Information* IE, then the DRNC should ignore the *Traffic Class* IE.]

- [FDD If the RADIO LINK SETUP REQUEST message includes the MAC-es Guaranteed Bit Rate IE in the E-DCH Logical Channel Information IE in the E-DCH MAC-d Flow Specific Information IE in the E-DCH FDD Information IE, then the DRNS shall use this information to optimise MAC-e scheduling decisions.]
- [FDD If the RADIO LINK SETUP REQUEST message includes UE Aggregate Maximum Bit Rate Enforcement Indicator IE in the E-DCH Logical Channel Information IE in the E-DCH MAC-d Flow Specific Information IE in the E-DCH FDD Information IE, the DRNS shall, if supported, consider the data of the related E-DCH Logical Channel for UE Aggregate Maximum Bit Rate Enforcement.]
- [FDD If the RADIO LINK SETUP REQUEST message includes the Maximum MAC-d PDU Size Extended IE for a E-DCH Logical Channel in the E-DCH MAC-d Flows Information IE in the E-DCH FDD Information IE, then the DRNS shall ignore the MAC-d PDU Size IE in the MAC-d PDU Size List IE and use Maximum MAC-d PDU Size Extended IE to optimise capacity allocation for the related E-DCH Logical Channel and use the indicated format in user plane frame structure for E-DCH channels TS 25.425 [32] and MAC TS 25.321 [41].]
- [FDD If the RADIO LINK SETUP REQUEST message includes the *E-DCH MAC-d Flow Multiplexing List* IE for an E-DCH MAC-d flow the DRNS shall use this information for the related resource allocation operation.]
- [FDD If in the RADIO LINK SETUP REQUEST message the E-DCH Grant Type is indicated as being "E-DCH Non-Scheduled Transmission Grant" for an E-DCH MAC-d flow the DRNS shall assume non-scheduled grants being configured for that E-DCH MAC-d flow and shall use the information within the HARQ Process Allocation For 2ms Non-Scheduled Transmission Grant IE, if included, for the related resource allocation operation.]
- [FDD If in the RADIO LINK SETUP REQUEST message the E-DCH Grant Type is indicated as being "E-DCH Scheduled Transmission Grant" for an E-DCH MAC-d flow the DRNS shall assume scheduled grants being configured for that E-DCH MAC-d flow.]
- [FDD If the *TNL QoS* IE is included for a E-DCH MAC-d flow and if ALCAP is not used, the *TNL QoS* IE may be used by the DRNS to determine the transport bearer characteristics to apply in the uplink for the related MAC-d flow.]
- [FDD The DRNC may include the E-AGCH And E-RGCH/E-HICH FDD Scrambling Code IE and shall include the E-RGCH/E-HICH Channelisation Code IE and the corresponding E-HICH Signature Sequence IE and the DRNC may include the corresponding E-RGCH Signature Sequence IE in the E-DCH FDD DL Control Channel Information IE in the RADIO LINK SETUP RESPONSE message, for every RL indicated by the E-DCH RL Indication IE, set to "E-DCH", in the RL Information IE.]

[FDD – If the RADIO LINK SETUP REQUEST message includes the *E-DCH ReferencePower Offset* IE, then the DRNS may use this value as a default HARQ power offset if it is not able to decode the MAC-e PDU and to determine the value of the actual HARQ power offset.]

- [FDD If the RADIO LINK SETUP REQUEST message includes the E-DCH Power Offset for Scheduling Info IE, then the DRNS shall use this value as a power offset for the transmission of scheduling information without any MAC-d PDUs.]
- [FDD If the RADIO LINK SETUP REQUEST message contains the *Serving E-DCH RL* IE indicating that the Serving E-DCH RL is in this DRNS:]
  - [FDD The DRNS shall allocate a primary E-RNTI identifier or a secondary E-RNTI identifier or both and include these E-RNTI identifiers and the Channelisation Code of the corresponding E-AGCH in the *E-DCH FDD DL Control Channel Information* IE in the *RL Information Response* IE for the indicated RL in the RADIO LINK SETUP RESPONSE message.]
  - [FDD The DRNS may include the Serving Grant Value IE and Primary/Secondary Grant Selector IE in the RADIO LINK SETUP RESPONSE message for the initial grant for the serving E-DCH RL.]
  - [FDD If the E-DCH HARQ process allocation for 2ms TTI for scheduled and/or non-scheduled transmission shall be changed, the DRNS shall allocate resources according to the new/changed

configuration and include the new/changed configuration in the *E-DCH FDD Information Response* IE in the RADIO LINK SETUP RESPONSE message.]

- [FDD If a serving cell change is performed the RADIO LINK SETUP RESPONSE message may contain invalid data (see 9.2.2.4C).]
- [FDD If the DRNS has no valid data for the *E-RGCH/E-HICH Channelisation Code* IE in the *E-DCH FDD DL Control Channel Information* IE in the RADIO LINK SETUP RESPONSE message, then it shall insert the *E-RGCH and E-HICH Channelisation Code Validity Indicator* IE in the *E-DCH FDD DL Control Channel Information* IE, to indicate that the *E-RGCH/E-HICH Channelisation Code* IE contains invalid data.]
- [FDD The DRNS may include the *Default Serving Grant in DTX Cycle 2* IE in the RADIO LINK SETUP RESPONSE message for the serving E-DCH RL.]
- [FDD If the RADIO LINK SETUP REQUEST message includes the Bundling Mode Indicator IE for a E-DCH MAC-d flow in the E-DCH MAC-d Flow Specific Information IE in the E-DCH FDD Information IE and the Bundling Mode Indicator IE is set to "Bundling" and the E-TTI IE is set to "2ms", then the DRNS shall use the bundling mode for the E-DCH UL data frames for the related MAC-d flow, otherwise the DRNS shall use the non-bundling mode for the E-DCH UL data frames for the related MAC-d flow.]
- [FDD If the RADIO LINK SETUP REQUEST message includes the *E-DCH Maximum Bitrate* IE for an E-DCH, the DRNS shall use this information for the related resource allocation operation, and when applicable, for E-DCH scheduling.]
- [FDD If the RADIO LINK SETUP REQUEST message includes the *E-DCH Processing Overload Level* IE, then if the DRNS could not decode the E-DPCCH/E-DPDCH for the last consecutive number of TTIs, indicated in the *E-DCH Processing Overload Level* IE, because of processing issue, the DRNS shall notify the SRNC by initiating the Radio Link Failure procedure.]
- [FDD If the RADIO LINK SETUP REQUEST message includes the *E-AGCH Power Offset* IE in the *RL Specific E-DCH Information* IE, then the DRNS may use this value to determine the E-AGCH power. The E-AGCH Power Offset should be applied for any E-AGCH transmission to this UE.]
- [FDD If the RADIO LINK SETUP REQUEST message includes the *E-RGCH Power Offset* IE in the *RL Specific E-DCH Information* IE, then the DRNS may use this value to determine the E-RGCH power for the RL. The E-RGCH Power Offset should be applied for any E-RGCH transmission to this UE.]
- [FDD If the RADIO LINK SETUP REQUEST message includes the *E-HICH Power Offset* IE in the *RL Specific E-DCH Information* IE, then the DRNS may use this value to determine the E-HICH power for the RL. The E-HICH Power Offset should be applied for any E-HICH transmission to this UE.]
- [FDD If the *Serving Cell Change CFN* IE is included in the RADIO LINK SETUP REQUEST message, then the DRNS shall activate the resources that are allocated for the new serving E-DCH Radio Link at the next coming CFN with a value equal to the value requested by the SRNC.]
- [FDD If the RADIO LINK SETUP REQUEST message includes the *SixteenQAM UL Operation Indicator* IE, the DRNS shall activate/deactivate SixteenQAM UL Operation for the RL in accordance with the *SixteenQAM UL Operation Indicator* IE.]
  - [FDD If SixteenQAM UL Operation is activated, then the DRNS shall base the handling of the Relative Grant signalling on Scheduling Grant Table 2 according to TS 25.321 [41]. If SixteenQAM UL Operation is deactivated, then the DRNS shall base the handling of the Relative Grant signalling on Scheduling Grant Table 1 according to TS 25.321 [41].]

### [FDD – Additional E-DCH Setup:]

[FDD – If the Additional E-DCH Cell Information RL Setup Req IE is present in the RADIO LINK SETUP REQUEST message, then the Additional E-DCH Cell Information Setup IE defines the new configuration and then:]

- [FDD The DRNS shall setup the E-DCH on the secondary uplink frequency and setup the requested E-DCH resources on the Radio Links and in the cells indicated by the *E-DCH Additional RL ID* IE and the *C-ID* IE in the *Additional E-DCH RL Specific Information To Setup* IE in the *Additional E-DCH FDD Setup Information* IE in the *Additional E-DCH Cell Information Setup* IE. Non cell specific Radio Link related parameters and non cell specific E-DPCH, UL DPCH, E-DCH and F-DPCH parameters shall take the same values as for the corresponding cell of the Primary uplink frequency.]
- [FDD If the UL SIR Target IE in the UL DPCH Information IE in the Additional E-DCH FDD Setup Information IE in the Additional E-DCH Cell Information Setup IE and/or the DL Power Balancing Information IE and/or the Minimum Reduced E-DPDCH Gain Factor IE in the Multicell E-DCH Information IE in the Additional E-DCH FDD Setup Information IE are present, the DRNS shall use the information in the same same way as for the information used on Primary uplink frequency.]
- [FDD If the Secondary UL Frequency Activation State IE is present in the Multicell E-DCH Information IE in the Additional E-DCH FDD Setup Information IE, the DRNS shall use the information as initial activation state of the Radio Links on the secondary uplink frequency.]
- [FDD If the *Propagation Delay* IE, the *Initial DL Tx Power* IE, *Primary CPICH Ec/No* IE, the *E-AGCH Power Offset* IE, the *E-RGCH Power Offset* IE and/or the *E-HICH Power Offset* IE is included in the *Additional E-DCH RL Specific Information To Setup* IE in the *Additional E-DCH FDD Setup Information* IE in the *Additional E-DCH Cell Information Setup* IE, the DRNS shall use the information in the same way as for the information used on Primary uplink frequency.]
- [FDD If the *Extended Propagation Delay* IE and/or *Enhanced Primary CPICH Ec/No* IE is included in the *Multicell E-DCH RL Specific Information* IE in the *Additional E-DCH Secondary RL Specific Information To Setup* IE in the *Additional E-DCH FDD Setup Information* IE in the *Additional E-DCH Cell Information Setup* IE, the DRNS shall use the information in the same way as for the information used on Primary uplink frequency.]
- [FDD If the F-DPCH Slot Format Support Request IE in the F-DPCH Information IE in the Additional E-DCH FDD Setup Information IE in the Additional E-DCH Cell Information Setup IE is included, the DRNS shall configure the concerned UE Context for F-DPCH Slot Format operation according to TS 25.211 [8] and include the F-DPCH Slot Format IE in the Additional E-DCH FDD Information Response IE in the Additional E-DCH Cell Information Respone IE in the RADIO LINK SETUP RESPONSE message. If the Multicell E-DCH Information IE in the Additional E-DCH FDD Setup Information IE includes the F-DPCH Slot Format IE, the DRNS may use the F-DPCH Slot Format IE to determine the F-DPCH slot format.]
- [FDD If the HARQ Process Allocation For 2ms Scheduled Transmission Grant IE, the E-DCH Maximum Bitrate IE, the E-DCH Minimum Set E-TFCI IE and/or the E-DCH Processing Overload Level IE are present in the Additional E-DCH FDD Information IE in the Additional E-DCH FDD Setup Information IE in the Additional E-DCH Cell Information Setup IE, the DRNS shall use the information in same way as for the information used on Primary uplink frequency.]
- [FDD If the *Multicell E-DCH Transport Bearer Mode* IE for an Additional E-DCH to be Setup is set to "Separate Iur Transport Bearer Mode" the DRNS shall use this mode in the new configuration and apply separate transport bearers for the MAC-d flows.]
- [FDD if the *Multicell E-DCH Transport Bearer Mode* IE for an Additional E-DCH to be Setup is set to "UL Flow Multiplexing Mode" the DRNS shall use this mode in the new configuration and multiplex MAC-d flows on the transport bearers.]
- [FDD if Separate Iur Transport Bearer Mode is used in the new configuration, then:]
  - [FDD The DRNS shall follow the rules defined in this procedure for single carrier mode of
    operation for establishment of the transport bearer for a MAC-d flow and use the *Transport Bearer Not Requested Indicator* IE in the *RL Specific E-DCH Information* IE in the *RL Information* IE
    received for the corresponding Radio Link(s) of the Primary Uplink Frequency to determine the
    transport bearer configuration in the new configuration for the radio links of the Secondary Uplink
    Frequency.]

- [FDD If the Transport Layer Address IE and Binding ID IE is included for an E-DCH MAC-d flow in the Additional E-DCH MAC-d Flows Specific Information IE in the Additional E-DCH RL Specific Information To Setup IE in the Additional E-DCH FDD Setup Information IE in the Additional E-DCH Cell Information Setup IE, then the DRNS may use the transport layer address and the binding identifier received from the SRNC when establishing a transport bearer for the concerned E-DCH MAC-d flow. If the DRNS establishes a transport bearer for the concerned E-DCH MAC-d flow the DRNS shall include in the RADIO LINK SETUP RESPONSE message the Binding ID IE and Transport Layer Address IE in the Additional E-DCH MAC-d Flow Specific Information Response IE in the Additional E-DCH FDD Information Response IE in the Additional E-DCH Cell Information Response IE for establishment of a transport bearer for every E-DCH MAC-d flow being established.]
- [FDD If activation of power balancing for the Additional E-DCH RL by the RADIO LINK SETUP REQUEST message is supported by the DRNS, the DRNS shall include the *DL Power Balancing Activation Indicator* IE in the *Additional E-DCH FDD Information Response* IE in the *Additional E-DCH Cell Information Response* IE in the RADIO LINK SETUP RESPONSE message.]
- [FDD For each Additional E-DCH RL not having a common generation of the TPC commands in the DL with another Additional E-DCH RL, the DRNS shall set the *RL Set ID* IE included in the *Additional E-DCH FDD Information Response* IE in the RADIO LINK SETUP RESPONSE message to a value that uniquely identifies the RL as a RL Set within the UE Context. The generation of E-HICH related information for Additional E-DCH RLs in different RL Sets shall not be common.]
- [FDD For all Additional E-DCH RLs having a common generation of the TPC commands in the DL with another Additional E-DCH RL, the DRNS shall assign to each Additional E-DCH RL the same value for the *RL Set ID* IE included in the *Additional E-DCH FDD Information Response* IE in the RADIO LINK SETUP RESPONSE message. This value shall uniquely identify these Additional E-DCH RLs as members of the same RL Set within the UE Context. The generation of E-HICH information for all Additional E-DCH RLs in a RL Set shall be common.]
- [FDD For each Additional E-DCH RL which has or can have a common generation of E-RGCH information with another Additional E-DCH RL (current or future) when the DRNS would contain the Additional E-DCH serving RL, the DRNS shall set a same value to the *E-DCH RL Set ID* IE for the Additional E-DCH RL in the Additional E-DCH FDD Information Response IE in the Additional E-DCH Cell Information Response IE in the RADIO LINK SETUP RESPONSE message]
- [FDD For every additional E-DCH RL indicated in the Additional E-DCH RL Specific Information To Setup IE in the Additional E-DCH FDD Setup Information IE the DRNS may include the E-AGCH And E-RGCH/E-HICH FDD Scrambling Code IE and shall include the E-RGCH/E-HICH Channelisation Code IE and the corresponding E-HICH Signature Sequence IE and the DRNS may include the corresponding E-RGCH Signature Sequence IE for each Additional E-DCH RL in the E-DCH FDD DL Control Channel Information IE in the Additional E-DCH FDD Information Response IE in the Additional E-DCH Cell Information Response IE in the RADIO LINK SETUP RESPONSE message and if DRNS has no valid data for the E-RGCH/E-HICH Channelisation Code IE, then it shall insert the E-RGCH and E-HICH Channelisation Code Validity Indicator IE to indicate that the E-RGCH/E-HICH Channelisation Code IE contains invalid data.]
- [FDD If the Additional Serving E-DCH Radio Link is configured in the DRNS, then:]
  - [FDD The DRNS shall allocate a primary E-RNTI identifier or a secondary E-RNTI identifier or both for the corresponding RL and include these E-RNTI identifiers and the channelisation code of the corresponding E-AGCH in the *E-DCH FDD DL Control Channel Information* IE in the *Additional E-DCH FDD Information Response* IE in the *Additional E-DCH Cell Information Response* IE in the RADIO LINK SETUP RESPONSE message.]
  - [FDD The DRNS may include in the *E-DCH FDD DL Control Channel Information* IE in the *Additional E-DCH FDD Information Response* IE in the *Additional E-DCH Cell Information Response* IE in the RADIO LINK SETUP RESPONSE message the *Serving Grant Value* IE and *Primary/Secondary Grant Selector* IE for the initial grant for the Additional serving E-DCH RL and may include the *Default Serving Grant in DTX Cycle 2* IE.]
  - [FDD If the E-DCH HARQ process allocation for 2ms TTI for scheduled transmission shall be changed, the DRNS shall allocate resources according to the new/changed configuration and include the new/changed configuration in the HARQ Process Allocation For 2ms Scheduled

*Transmission Grant* IE in the *Additional E-DCH FDD Information Response* IE in the *Additional E-DCH Cell Information Response* IE in the RADIO LINK SETUP RESPONSE message.]

- [FDD If the *Serving Cell Change CFN* IE is included in the RADIO LINK SETUP REQUEST message, then the DRNS shall activate the resources that are allocated for the new additional serving E-DCH Radio Link at the next coming CFN with a value equal to the value requested by the SRNC. If the *Serving Cell Change CFN* IE is not included then the DRNS shall activate immediately the resources that are allocated for the new additional serving E-DCH Radio Link]
- [FDD If the *D-RNTI* IE was included in the RADIO LINK SETUP REQUEST message the DRNS shall include in the RADIO LINK SETUP RESPONSE message the *Primary Scrambling Code* IE, the *UL UARFCN* IE and the *DL UARFCN* IE for the secondary UL frequency in the *Additional E-DCH FDD Information Response* IE in the *Additional E-DCH Cell Information Response* IE in the RADIO LINK SETUP RESPONSE message.]
- [FDD If Primary CPICH is not to be used as a Phase Reference for this Radio Link on the secondary UL frequency, the DRNS shall include the *Primary CPICH Usage For Channel Estimation* IE set to the value "Primary CPICH shall not be used" in the *Additional E-DCH FDD Information Response* IE in the *Additional E-DCH Cell Information Response* IE RADIO LINK SETUP RESPONSE message.]
- [FDD If Secondary CPICH may be used as a Phase Reference for this Radio Link on the secondary UL frequency, the DRNS shall include the *Secondary CPICH Information* IE in the *Additional E-DCH FDD Information Response* IE in the *Additional E-DCH Cell Information Response* IE in the RADIO LINK SETUP RESPONSE message. If the DRNS doesn't include the *Secondary CPICH Information* IE, it shall not include the *Primary CPICH Usage For Channel Estimation* IE set to the value "Primary CPICH shall not be used".]

#### [FDD – E-DCH –HS-DSCH:]

[FDD – If the RADIO LINK SETUP REQUEST message includes the *DCH Indicator For E-DCH-HSDPA Operation* IE, then the DRNS shall ignore the *DCH Information* IE in the RADIO LINK SETUP REQUEST message.]

#### **Physical Channels Handling:**

#### [FDD – Compressed Mode:]

[FDD – If the RADIO LINK SETUP REQUEST message includes the *Transmission Gap Pattern Sequence Information* IE, the DRNS shall store the information about the Transmission Gap Pattern Sequences to be used in the Compressed Mode Configuration. This Compressed Mode Configuration shall be valid in the DRNS until the next Compressed Mode Configuration is configured in the DRNS or the last Radio Link is deleted.]

[FDD – If the RADIO LINK SETUP REQUEST message includes the *Transmission Gap Pattern Sequence Information* IE and the *Active Pattern Sequence Information* IE, the DRNS shall use the information to activate the indicated Transmission Gap Pattern Sequence(s) in the new RL. The received *CM Configuration Change CFN* IE refers to latest passed CFN with that value. The DRNS shall treat the received *TGCFN* IEs as follows:]

- [FDD If any received *TGCFN* IE has the same value as the received *CM Configuration Change CFN* IE, the DRNS shall consider the concerned Transmission Gap Pattern Sequence as activated at that CFN.]
- [FDD If any received *TGCFN* IE does not have the same value as the received *CM Configuration Change CFN* IE but the first CFN after the CM Configuration Change CFN with a value equal to the *TGCFN* IE has already passed, the DRNS shall consider the concerned Transmission Gap Pattern Sequence as activated at that CFN.]
- [FDD For all other Transmission Gap Pattern Sequences included in the Active Pattern Sequence Information IE, the DRNS shall activate each Transmission Gap Pattern Sequence at the first CFN after the CM Configuration Change CFN with a value equal to the TGCFN IE for the Transmission Gap Pattern Sequence.]

[FDD – If the *Downlink Compressed Mode Method* IE in one or more Transmission Gap Pattern Sequence is set to "SF/2" in the RADIO LINK SETUP REQUEST message and the UE Context is configured to use DPCH in the downlink, the DRNS shall include the *Transmission Gap Pattern Sequence Scrambling Code* 

*Information* IE in the RADIO LINK SETUP RESPONSE message indicating for each DL Channelisation Code whether the alternative scrambling code shall be used or not.]

[FDD – If the RADIO LINK SETUP REQUEST message includes the *Transmission Gap Pattern Sequence Information* IE and the *Active Pattern Sequence Information* IE and the concerned UE Context is configured to use F-DPCH in the downlink, the DRNS shall ignore, when activating the Transmission Gap Pattern Sequence(s), the information provided by the *Downlink Compressed Mode Method* IE if included for the concerned Transmission Gap Pattern Sequence(s).]

#### [FDD – DL Code Information:]

[FDD – When more than one DL DPDCH are assigned per RL, the segmented physical channel shall be mapped on to DL DPDCHs according to TS 25.211 [8]. When *p* number of DL DPDCHs are assigned to each RL, the first pair of DL Scrambling Code and FDD DL Channelisation Code Number corresponds to "*PhCH number 1*", the second to "*PhCH number 2*", and so on until the *p*th to "*PhCH number p*".]

#### [FDD – Phase Reference Handling:]

[FDD – If Primary CPICH is not to be used as a Phase Reference for this Radio Link, the DRNC shall include the *Primary CPICH Usage For Channel Estimation* IE set to the value "Primary CPICH shall not be used" in the RADIO LINK SETUP RESPONSE message.]

[FDD – If Secondary CPICH may be used as a Phase Reference for this Radio Link, the DRNC shall include the *Secondary CPICH Information* IE in the RADIO LINK SETUP RESPONSE message.]

[FDD – If the DRNC doesn't include the *Secondary CPICH Information* IE in the RADIO LINK SETUP RESPONSE message, it shall not include the *Primary CPICH Usage For Channel Estimation* IE set to the value "Primary CPICH shall not be used" in the RADIO LINK SETUP RESPONSE message.]

#### General:

[FDD – If the *Propagation Delay* IE and optionally the *Extended Propagation Delay* IE are included, the DRNS may use this information to speed up the detection of UL synchronisation on the Uu interface.]

[FDD – If the received *Limited Power Increase* IE is set to "Used", the DRNS shall, if supported, use Limited Power Increase according to ref. TS 25.214 [10] subclause 5.2.1 for the inner loop DL power control.]

[TDD – If the RADIO LINK SETUP REQUEST message includes the [1.28 Mcps TDD and 3.84 Mcps TDD – *Maximum Number of DL Physical Channels per Timeslot* IE] [7.68 Mcps TDD – *Maximum Number of DL Physical Channels per Timeslot* 7.68 Mcps IE] the DRNC shall take this value into account when allocating physical resources, otherwise the DRNC can assume that this UE capability is consistent with the other signalled UE capabilities.]

[1.28Mcps TDD – If the RADIO LINK SETUP REQUEST message includes the *Support for 8PSK* IE within the *DL Physical Channel Information* IE *or UL Physical Channel Information* IE, the DRNC shall take this into account in the specified direction when allocating physical resources, otherwise the DRNC can assume that this UE does not support 8PSK resource allocation.]

[1.28Mcps TDD – If the RADIO LINK SETUP REQUEST message includes the *Support for PLCCH* IE within the *DL Physical Channel Information* IE, the DRNC shall take this into account when allocating PLCCH sequence numbers, otherwise the DRNC can assume that this UE does not support PLCCH.]

[FDD – If the RADIO LINK SETUP REQUEST message includes the *DL DPCH Information* IE, then the DRNS shall configure the concerned UE Context to use DPCH in the downlink, i.e. with a DL DPCCH and a DL DPDCH.]

[FDD - If the RADIO LINK SETUP REQUEST message includes the F-DPCH Information IE, then:]

- [FDD The DRNS shall configure the concerned UE Context to use F-DPCH in the downlink, i.e. with transmission of only the TPC field.]
- [FDD If the *F-DPCH Information* IE includes the *F-DPCH Slot Format Support Request* IE, then the DRNS shall configure the concerned UE Context for F-DPCH Slot Format operation according to TS 25.211 [8] and include the *F-DPCH Slot Format* IE in the RADIO LINK SETUP RESPONSE

message. If the *F-DPCH Information* IE includes the *F-DPCH Slot Format* IE, the DRNC may use the *F-DPCH Slot Format* IE to determine the F-DPCH slot format.]

#### [FDD – E-DPCH Handling:]

[FDD – If the UL DPDCH Indicator for E-DCH operation IE is included in the UL DPCH Information IE and set to "UL-DPDCH not present" the Min UL Channelisation Code Length IE, the Puncture Limit IE and the TFCS IE, within the UL DPCH Information IE shall be ignored and no UL DPDCH resources shall be allocated.]

#### [FDD – Continuous Packet Connectivity Handling:]

[FDD – If the RADIO LINK SETUP REQUEST message includes the *Continuous Packet Connectivity DTX-DRX Information* IE, then:]

- [FDD The DRNS shall configure the concerned UE Context for Continuous Packet Connectivity DTX operation according to TS 25.214 [10].]
- [FDD If *DRX Information* IE is included in the *Continuous Packet Connectivity DTX-DRX Information* IE, then the DRNS shall configure the concerned UE Context for Continuous Packet Connectivity DRX operation according to TS 25.214 [10].]

[FDD – If the RADIO LINK SETUP REQUEST message includes the *Continuous Packet Connectivity HS-SCCH less Information* IE, then:]

- [FDD The DRNS shall configure the Serving HS-DSCH Radio Link indicated by the *HS-PDSCH RL ID* IE for Continuous Packet Connectivity HS-SCCH less operation according to TS 25.214 [10].]
- [FDD The DRNS shall allocate the HS-PDSCH codes needed for HS-SCCH less operation and include the *Continuous Packet Connectivity HS-SCCH less Information Response* IE in the RADIO LINK SETUP RESPONSE message.]
- [FDD If at least one of *HS-PDSCH Second Code Support* IE is set to "True", then the DRNC shall include *HS-PDSCH Second Code Index* IE in the RADIO LINK SETUP RESPONSE message.]

#### [1.28 Mcps TDD – Continuous Packet Connectivity Handling:]

[1.28 Mcps TDD – If the RADIO LINK SETUP REQUEST message includes the *Continuous Packet Connectivity DRX Information LCR* IE, then the DRNS shall take account into these parameters to decide the DRX operation related parameters and configure the concerned UE Context for DRX operation according to TS 25.213 [21] and include the parameter(s) in the *Continuous Packet Connectivity DRX Information Response LCR* IE in the RADIO LINK SETUP RESPONSE message.]

[1.28 Mcps TDD - If the *Inactivity Threshold for UE DRX Cycle Ext* IE is included in the *Continuous Packet Connectivity DRX Information LCR* IE, then the DRNS may use this value to determine the Inactivity Threshold for UE DRX Cycle according to TS 25.224 [22].]

[1.28 Mcps TDD – If the RADIO LINK SETUP REQUEST message includes the *HS-DSCH Semi-Persistent* scheduling Information LCR IE, then:]

- [1.28 Mcps TDD The DRNS shall configure the Serving HS-DSCH Radio Link indicated by the *HS*-*PDSCH RL ID* IE for HS-DSCH Semi-Persistent scheduling operation according to TS 25.213 [21].]
- [1.28 Mcps TDD The DRNS shall allocate the HS-SICH information needed for HS-DSCH Semi-Persistent scheduling operation and include the *HS-DSCH Semi-Persistent scheduling Information Response LCR* IE in the RADIO LINK SETUP RESPONSE message.]
- [1.28 Mcps TDD If the HS-DSCH Semi-Persistent Resource Reservation Indicator IE is included in the HS-DSCH Semi-Persistent scheduling Information LCR IE, then the DRNS shall include Allcoated HS-PDSCH Semi-persistent resource IE in the RADIO LINK SETUP RESPONSE message.]
- [1.28 Mcps TDD The DRNS shall include the *Buffer Size for HS-DSCH Semi-Persistent scheduling* IE in the RADIO LINK SETUP RESPONSE message.]
- [1.28 Mcps TDD The DRNS shall include the *Number of Processes for HS-DSCH Semi-Persistent* scheduling IE in the RADIO LINK SETUP RESPONSE message.]

- [1.28 Mcps TDD – If the HS-DSCH Semi-Persistent scheduling operation Indicator IE is included in the HS-DSCH Semi-Persistent scheduling Information LCR IE, then the DRNS shall apply this information for HS-DSCH Semi-Persistent scheduling operation.]

[1.28 Mcps TDD – If the RADIO LINK SETUP REQUEST message includes the *E-DCH Semi-Persistent* scheduling Information LCR IE, then:]

- [1.28 Mcps TDD The DRNS shall configure the Serving E-DCH Radio Link indicated by the *E-DCH Serving RL* IE for E-DCH Semi-Persistent scheduling operation according to TS 25.213 [21].]
- [1.28 Mcps TDD If the E-DCH Semi-Persistent Resource Reservation Indicator IE is included in the E-DCH Semi-Persistent scheduling Information LCR IE, then the DRNS shall include Allcoated E-DCH Semi-persistent resource IE in the RADIO LINK SETUP RESPONSE message.]
- [1.28 Mcps TDD If the E-DCH Semi-Persistent scheduling Indicator IE is included in the E-DCH Semi-Persistent scheduling Information LCR IE, then the DRNS shall apply this information for E-DCH Semi-Persistent scheduling operation.]

#### **Radio Link Handling:**

#### **Diversity Combination Control:**

[FDD – The *Diversity Control Field* IE indicates for each RL except for the first RL whether the DRNS shall combine the RL with any of the other RLs or not.]

- [FDD If the *Diversity Control Field* IE is set to "May" (be combined with another RL), the DRNS shall decide for any of the alternatives.]
- [FDD If the *Diversity Control Field* IE is set to "Must", the DRNS shall combine the RL with one of the other RL.]
- [FDD If the *Diversity Control Field* IE is set to "Must not", the DRNS shall not combine the RL with any other existing RL.]

[FDD – When an RL is to be combined, the DRNS shall choose which RL(s) to combine it with.]

[FDD – The *Diversity Control Field* IE is only applicable for DCHs, in case of E-DCH it shall always be assumed to be set to "May".]

[FDD – In the RADIO LINK SETUP RESPONSE message, the DRNC shall indicate for each RL with the Diversity Indication in the *RL Information Response* IE whether the RL is combined or not.]

- [FDD In case of not combining with a RL previously listed in the RADIO LINK SETUP RESPONSE message or for the first RL in the RADIO LINK SETUP RESPONSE message, the DRNC shall]
  - [FDD in case of requested DCHs, include in the *DCH Information Response* IE in the RADIO LINK SETUP RESPONSE message for which the *Transport Bearer Not Requested Indicator* IE was not included the *Binding ID* IE and *Transport Layer Address* IE for the transport bearer to be established for each DCH of this RL.]
  - [FDD in case of requested DCHs, include in the RADIO LINK SETUP RESPONSE message the *Transport Bearer Not Setup Indicator* IE for every DCH for which establishment of a transport bearer has not taken place as a result of information in the *Transport Bearer Not Requested Indicator* IE in the RADIO LINK SETUP REQUEST message.]
  - [FDD in case of a requested E-DCH, include in the E-DCH FDD Information Response IE in the RADIO LINK SETUP RESPONSE for which the Transport Bearer Not Requested Indicator IE was not included message the Binding ID IE and the Transport Layer Address IE for the establishment of transport bearers for every E-DCH MAC-d flow being established.]
  - [FDD in case of a requested E-DCH, include in the RADIO LINK SETUP RESPONSE message the *Transport Bearer Not Setup Indicator* IE for every E-DCH MAC-d flow for which establishment of a transport bearer has not taken place as a result of information in the *Transport Bearer Not Requested Indicator* IE in the RADIO LINK SETUP REQUEST message.]

- [FDD – Otherwise in case of combining, the *RL ID* IE indicates (one of) the RL(s) previously listed in this RADIO LINK SETUP RESPONSE message with which the concerned RL is combined and if the ALCAP is not used and the transport bearer for the DCH is already established, the *Transport Layer Address* IE and the *Binding ID* IE in the *RL Specific DCH Information* IE included in the *RL Information* IE for a specific RL in the RADIO LINK SETUP REQUEST message, shall not be used. In case of combining an E-DCH RL, one of the RLs previously listed in this RADIO LINK SETUP RESPONSE message including the *E-DCH FDD Information Response* IE and part of the same Radio Link Set shall be regarded as the RL with which the concerned E-DCH RL is combined and if the ALCAP is not used, the *Transport Layer Address* IE and the *Binding ID* IE in the RADIO LINK SETUP REQUEST message, shall not be used.]

[TDD – The DRNC shall always include in the RADIO LINK SETUP RESPONSE message both the *Transport Layer Address* IE and the *Binding ID* IE for the transport bearer to be established for each DCH, DSCH and USCH of the RL.]

In the case of a set of co-ordinated DCHs requiring a new transport bearer the *Binding ID* IE and the *Transport Layer Address* IE shall be included in the RADIO LINK SETUP RESPONSE message for only one of the DCHs in the set of co-ordinated DCHs [FDD – where the *Transport Bearer Not Requested Indicator* IE was not included].

#### [FDD – Transmit Diversity:]

[FDD – If the cell in which the RL is being set up is capable to provide Close loop Tx diversity, the DRNC shall include the *Closed Loop Timing Adjustment Mode* IE in the RADIO LINK SETUP RESPONSE message indicating the configured Closed loop timing adjustment mode of the cell.]

[FDD – When the *Diversity Mode* IE is set to "STTD", or "Closed loop mode1", the DRNC shall activate/deactivate the Transmit Diversity for each Radio Link in accordance with the *Transmit Diversity Indicator* IE.]

[FDD – If the Diversity Mode IE is included in the HS-DSCH FDD Secondary Serving Information IE in the Additional HS Cell Information RL Setup IE in the RADIO LINK SETUP REQUEST message, the DRNS shall apply cell specific transmit diversity configuration and if the Diversity Mode IE is not set to "None" the DRNS shall activate/deactivate the Transmit Diversity for the secondary serving HS-DSCH Radio Link in accordance with the Transmit Diversity Indicator IE in the HS-DSCH FDD Secondary Serving Information IE.]

#### **DL Power Control:**

[FDD – If both the *Initial DL TX Power* IE and *Uplink SIR Target* IE are included in the message, the DRNS shall use the indicated DL TX Power and Uplink SIR Target as initial value. If the value of the *Initial DL TX Power* IE is outside the configured DL TX power range, the DRNS shall apply these constraints when setting the initial DL TX power. The DRNS shall also include the configured DL TX power range defined by *Maximum DL TX Power* IE and *Minimum DL TX Power* IE in the RADIO LINK SETUP RESPONSE message. The DRNS shall not transmit with a power higher than indicated by the *Maximum DL TX Power* IE or lower than indicated by the *Minimum DL TX Power* IE on any DL DPCH or on the F-DPCH of the RL except, if the UE Context is configured to use DPCH in the downlink, during compressed mode, when the  $\delta P_{curr}$ , as described in ref. TS 25.214 [10] subclause 5.2.1.3, shall be added to the maximum DL power for the associated compressed frame.]

[FDD – If both the *Initial DL TX Power* and the *Uplink SIR Target* IEs are not included in the RADIO LINK SETUP REQUEST message, then DRNC shall determine the initial Uplink SIR Target and include it in the *Uplink SIR Target* IE in the RADIO LINK SETUP RESPONSE message.]

[TDD – The DRNC shall use the *Uplink SIR Target CCTrCH* IEs in the RADIO LINK SETUP RESPONSE message to indicate for any UL CCTrCH an Uplink SIR Target value in case this is deviating from the value included in the *Uplink SIR Target* IE specified for the Radio Link. If in any [3.84Mcps TDD – *UL CCTrCH Information* IE] [1.28Mcps TDD – *UL CCTrCH Information LCR* IE] [7.68Mcps TDD – *UL CCTrCH Information 7.68 Mcps* IE] the *Uplink SIR Target CCTrCH* IE is not included, the value of the *Uplink SIR Target* IE shall apply to the respective UL CCTrCH.]

[FDD – If the *Primary CPICH Ec/No* IE is present, the DRNC should use the indicated value when deciding the Initial DL TX Power. If the *Enhanced Primary CPICH Ec/No* IE is present, the DRNC should use the indicated value when deciding the Initial DL Tx Power.]

[TDD – If [3.84Mcps TDD and 7.68 Mcps TDD – the *DL Time Slot ISCP Info* IE] [1.28Mcps TDD – the *DL Time Slot ISCP Info LCR* IE] is present, the DRNSshould use the indicated value when deciding the Initial DL TX Power for the Radio Link. The DRNS shall use the indicated DL Timeslot ISCP when determining the initial DL power per timeslot as specified in TS 25.224 [22], i.e. it shall reduce the DL TX power in those downlink timeslots of the radio link where the interference is low, and increase the DL TX power in those timeslots where the interference is high, while keeping the total downlink power in the radio link unchanged.]

[TDD – If the *Primary CCPCH RSCP Delta* IE is included, the DRNS should assume that the reported value for Primary CCPCH RSCP is in the negative range as per TS 25.123 [24], and the value is equal to the *Primary CCPCH RSCP Delta* IE. If the *Primary CCPCH RSCP Delta* IE is not included and the *Primary CCPCH RSCP* IE is included, the DRNS should assume that the reported value is in the non-negative range as per TS 25.123 [24], and the value is equal to the *Primary CCPCH RSCP* IE and the value is equal to the *Primary CCPCH RSCP* IE. The DRNS should use the indicated value when deciding the Initial DL TX Power for the Radio Link.]

[3.84 Mcps TDD and 7.68 Mcps TDD – The DL TX power upper and lower limit is configured in the following way:

- The DRNC shall include the *Maximum DL TX Power* IE and *Minimum DL TX Power* IE in the RADIO LINK SETUP RESPONSE message. If the maximum or minimum power needs to be different for particular DCH type CCTrCHs, the DRNC shall include the value(s) for that CCTrCH in the *CCTrCH Maximum DL TX Power* IE and *CCTrCH Minimum DL TX Power* IE. The DRNS shall not transmit with a higher power than indicated by the appropriate *Maximum DL TX Power* IE/*CCTrCH Maximum DL TX Power* IE or lower than indicated by the appropriate *Minimum DL TX Power* IE/*CCTrCH Minimum DL TX Power* IE or any DL DPCH within each CCTrCH of the RL.]

[1.28 Mcps TDD – The DL TX power upper and lower limit is configured in the following way:

- The DRNC shall include the Maximum DL TX Power IE and Minimum DL TX Power IE in the RADIO LINK SETUP RESPONSE message. If the maximum or minimum power needs to be different for particular timeslots within a DCH type CCTrCH, the DRNC shall include the value(s) for that timeslot in the Maximum DL TX Power IE and Minimum DL TX Power IE within the DL Timeslot Information LCR IE. The DRNS shall not transmit with a higher power than indicated by the appropriate Maximum DL TX Power IE on any DL DPCH within each timeslot of the RL.]

[1.28McpsTDD – If the *TSTD Support Indicator* IE is present, the DRNS shall apply this information when configuring the transmit diversity for the new radio link.]

[FDD – The DRNS shall start any DL transmission using the indicated DL TX power level (if received) or the decided DL TX power level on each DL channelisation code or on the F-DPCH of a RL until UL synchronisation is achieved on the Uu interface for the concerned RLS or Power Balancing is activated. No inner loop power control or power balancing shall be performed during this period. The DL power shall then vary according to the inner loop power control (see ref.TS 25.214 [10] subclause 5.2.1.2) and the power control procedure (see 8.3.15).]

[TDD – The DRNS shall start any DL transmission using the decided DL TX power level on each DL channelisation code and on each Time Slot of a RL until UL synchronisation is achieved on the Uu interface for the concerned RL. No inner loop power control shall be performed during this period. Then after UL synchronisation, the DL power shall vary according to the inner loop power control (see ref. TS 25.224 [22] subclause 4.2.3.3).]

[FDD – If the received *Inner Loop DL PC Status* IE is set to "Active", the DRNS shall activate the inner loop DL power control for all RLs. If *Inner Loop DL PC Status* IE is set to "Inactive", the DRNS shall deactivate the inner loop DL power control for all RLs according to ref. TS 25.214 [10].]

[FDD – If the *DPC Mode* IE is present in the RADIO LINK SETUP REQUEST message, the DRNC shall apply the DPC mode indicated in the message, and be prepared that the DPC mode may be changed during the lifetime of the RL. If the *DPC Mode* IE is not present in the RADIO LINK SETUP REQUEST message, DPC mode 0 shall be applied (see ref. TS 25.214 [10]).]

[FDD – If the RADIO LINK SETUP REQUEST message includes the *DL Power Balancing Information* IE and the *Power Adjustment Type* IE is set to "Common" or "Individual", the DRNS shall activate the power balancing, if activation of power balancing by the RADIO LINK SETUP REQUEST message is supported, according to subclause 8.3.15, using the *DL Power Balancing Information* IE. If the DRNS starts the DL transmission and the activation of the power balancing at the same CFN, the initial power of the power balancing i.e. *P<sub>init</sub>* shall be set to the power level indicated by the *Initial DL TX Power* IE (if received) or the decided DL TX power level on each DL channelisation code of a RL based on the *Primary CPICH Ec/No* IE or the *Enhanced Primary CPICH Ec/No* IE.]

[FDD – If activation of power balancing by the RADIO LINK SETUP REQUEST message is supported by the DRNS, the DRNC shall include the *DL Power Balancing Activation Indicator* IE in the *RL Information Response* IE in the RADIO LINK SETUP RESPONSE message.]

#### **Neighbouring Cell Handling:**

If there are UMTS neighbouring cell(s) to the cell in which a Radio Link was established then:

- The DRNC shall include in the RADIO LINK SETUP RESPONSE message the *Neighbouring FDD Cell Information* IE and/or *Neighbouring TDD Cell Information* IE in the *Neighbouring UMTS Cell Information* IE for each neighbouring FDD cell and/or TDD cell respectively. In addition, if the information is available, the DRNC shall include in the RADIO LINK SETUP RESPONSE message the *Frame Offset* IE, *Primary CPICH Power* IE, *Cell Individual Offset* IE, *STTD Support Indicator* IE, *Closed Loop Mode1 Support Indicator* IE, *Coverage Indicator* IE, *Antenna Co-location Indicator* IE and *HCS Prio* IE in the *Neighbouring FDD Cell Information* IE, and the *Frame Offset* IE, *Cell Individual Offset* IE, *DPCH Constant Value* IE, the *PCCPCH Power* IE, *Coverage Indicator* IE, *Antenna Colocation Indicator* IE and *HCS Prio* IE in the *Neighbouring TDD Cell Information* IE or the *Neighbouring TDD Cell Information LCR* IE. If the *Neighbouring TDD Cell Information* IE includes the *Sync Case* IE for the set to "Case1", the DRNC shall include the *Time Slot For SCH* IE in the *Neighbouring TDD Cell Information* IE. If the *Neighbouring TDD Cell Information* IE includes *Sync Case* IE set to "Case2", the DRNC shall include the *SCH Time Slot* IE in the *Neighbouring TDD Cell Information* IE.
- If a UMTS neighbouring cell is not controlled by the same DRNC, the DRNC shall also include in the RADIO LINK SETUP RESPONSE message the CN PS Domain Identifier IE and/or CN CS Domain Identifier IE which are the identifiers of the CN nodes connected to the RNC controlling the UMTS neighbouring cell.
- If the information is available, the DRNC shall include in the RADIO LINK SETUP RESPONSE message the *DPC Mode Change Support Indicator* IE for each neighbour cell in the *Neighbouring FDD Cell Information* IE
- The DRNC shall include the *Cell Capability Container FDD* IE, the *Cell Capability Container TDD* IE, the *Cell Capability Container TDD LCR* IE and/or the *Cell Capability Container Extension FDD* IE if the DRNC is aware that the neighbouring cell supports any functionality listed in 9.2.2.D, 9.2.3.1a, 9.2.3.1b and/or the *Cell Capability Container Extension FDD* IE.
- [FDD The DRNC shall, if supported, include the *Cell List Validity Indicator* IE if the neighbouring cell is multi cell capable and/or dual band capable but the cell can not be the serving HS-DSCH in a multicell and/or dual band configuration. Hence the cell can only serve as the secondary serving HS-DSCH cell. When *Cell List Validity Indicator* IE is included the SRNC should ignore the indicated cell list(s).]
- For the UMTS neighbouring cells which are controlled by the DRNC, the DRNC shall report in the RADIO LINK SETUP RESPONSE message the restriction state of those cells, otherwise the *Restriction State Indicator* IE may be absent. The DRNC shall include in the RADIO LINK SETUP RESPONSE message the *Restriction State Indicator* IE for the neighbouring cells which are controlled by the DRNC in the *Neighbouring FDD Cell Information* IE, the *Neighbouring TDD Cell Information* IE and the *Neighbouring TDD Cell Information LCR* IE.
- If MOCN or GWCN network sharing configuration is used then the DRNC shall include the broadcasted PLMN identities of the concerned neighbouring cells in the *Multiple PLMN List* IE in the *Neighbouring FDD Cell Information* IE, the *Neighbouring TDD Cell Information* IE and the *Neighbouring TDD Cell Information LCR* IE.

- If available, the DRNC shall include the *SNA Information* IE for the concerned neighbouring cells in the *Neighbouring FDD Cell Information* IE, the *Neighbouring TDD Cell Information* IE and the *Neighbouring TDD Cell Information LCR* IE.
- If available, the DRNC shall include the *Frequency Band Indicator* IE for the concerned neighbouring cells in the *Neighbouring FDD Cell Information* IE.

If there are GSM neighbouring cells to the cell(s) where a radio link is established, the DRNC shall include in the RADIO LINK SETUP RESPONSE message the *Neighbouring GSM Cell Information* IE for each of the GSM neighbouring cells. If available the DRNC shall include in the RADIO LINK SETUP RESPONSE message the *Cell Individual Offset* IE, and if the *Cell Individual Offset* IE alone cannot represent the value of the offset, the DRNC shall also include the *Extended GSM Cell Individual Offset* IE in the *Neighbouring GSM Cell Information* IE. If available the DRNC shall also include in the RADIO LINK SETUP RESPONSE message the *Coverage Indicator* IE, *Antenna Co-location Indicator* IE and *HCS Prio* IE in the *Neighbouring GSM Cell Information* IE. If available, the DRNC shall also include the *SNA Information* IE for the concerned neighbouring cells in the *Neighbouring GSM Cell Information* IE.

When receiving the *SNA Information* IE in the RADIO LINK SETUP RESPONSE message, the SRNC should use it to restrict cell access based on SNA information. See also TS 25.401 [40] for a broader description of the SNA access control.

If there are GERAN neighbouring cells to the cell(s) where a radio link is established, the DRNC shall include the *GERAN Cell Capability* IE in the *Neighbouring GSM Cell Information* IE that is included in the RADIO LINK SETUP RESPONSE message for each of the GERAN cells.

If there are GERAN Iu-mode neighbouring cells to the cell(s) where a radio link is established, the DRNC shall include, if available, the *GERAN Classmark* IE in the *Neighbouring GSM Cell Information* IE that is included in the RADIO LINK SETUP RESPONSE message for each of the GERAN Iu-mode neighbouring cells. Ref. TS 43.051 [39] defines when the transmission of the *GERAN Classmark* IE will be required at the initiation of the Relocation Preparation procedure.

If there are E-UTRA neighbouring cells to the cell(s) where a radio link is established, the DRNC shall include in the RADIO LINK SETUP RESPONSE message the *Neighbouring E-UTRA Cell Information* IE for each of the E-UTRA neighbouring cells.

#### [1.28Mcps TDD – Uplink Synchronisation Parameters LCR:]

[1.28Mcps TDD – If the *Uplink Synchronisation Parameters LCR* IE is present, the DRNC shall use the indicated values of *Uplink synchronisation stepsize* IE and *Uplink synchronisation frequency* IE when evaluating the timing of the UL synchronisation.]

#### [1.28Mcps TDD – Shared physical channels Synchronisation Detection:]

[1.28Mcps TDD – If HS-PDSCH and E-PUCH are configured but no DPCH is configured for the UE, then the DRNS shall also include the *Out-of-sync Detection Window* IE in the *HS-DSCH TDD Information Response* IE in the RADIO LINK SETUP RESPONSE message.]

#### [1.28Mcps TDD – Uplink Timing Advance Control LCR:]

[1.28Mcps TDD – The DRNC shall include the *Uplink Timing Advance Control LCR* IE in the RADIO LINK SETUP RESPONSE message.]

#### [1.28Mcps TDD – PowerControl GAP:]

[1.28Mcps TDD – If applied in the DRNS, the DRNC may include the *PowerControl GAP* IE in the RADIO LINK SETUP RESPONSE message.]

#### [1.28Mcps TDD – E-UTRAN Inter-RAT measurement:]

[1.28Mcps TDD – If the RADIO LINK SETUP REQUEST message includes the *Idle Interval Configuration Indicator* IE, if supported, the DRNC shall include the *Idle Interval Information* IE in the RADIO LINK SETUP RESPONSE message.]

#### [1.28Mcps TDD – RNTI Allocation Indicator:]

[1.28Mcps TDD – If the RADIO LINK SETUP REQUEST message includes the *RNTI Allocation Indicator* IE, if supported, the DRNS may allocate an E-RNTI and/or an H-RNTI for UE to use in CELL\_FACH state.]

#### [1.28Mcps TDD – Inter-frequency/ Inter-RAT measurement:]

[1.28Mcps TDD – If the RADIO LINK SETUP REQUEST message includes the *DCH Measurement Type indicator* IE, if supported, the DRNS shall include the *Measurement purpose* IE and the *Measurement occasion pattern sequence parameters* IE in the *DCH Measurement Occasion Information* IE in the RADIO LINK SETUP RESPONSE message to configure the measurement occasion pattern(s) indicated by the *DCH Measurement Type indicator* IE.]

#### **MBMS Handling:**

If the *MBMS Bearer Service List* IE is included in the RADIO LINK SETUP REQUEST message, the DRNC shall, if supported, perform the UE Linking as specified in TS 25.346 [50], section 5.1.6. If the UE Link is currently stored in the UE Context or the *MBMS Bearer Service List* IE is included in the RADIO LINK SETUP REQUEST message and if an MBMS session for some MBMS bearer services contained in the UE Link is ongoing in some of the cells identified by the *C-ID* IEs in the RADIO LINK SETUP REQUEST message, the DRNC shall include for each of these active MBMS bearer services in the *Active MBMS Bearer Service List* IE the *Transmission Mode* IE in the concerned *RL Information Response* IEs in the RADIO LINK SETUP RESPONSE message.

If the UE Link is currently stored in the UE Context or the *MBMS Bearer Service List* IE is included in the RADIO LINK SETUP REQUEST message and if an MBMS preferred frequency layer for some active MBMS bearer services contained in the UE Link is set in some of the cells identified by the *C-ID* IEs in the RADIO LINK SETUP REQUEST message, the DRNC shall include for each of these active MBMS bearer services in the *Active MBMS Bearer Service List* IE the *Preferred Frequency Layer* IE in the concerned *RL Information Response* IEs in the RADIO LINK SETUP REQUEST message.

#### [FDD – HS-DSCH Preconfiguration for Enhanced HS Serving Cell Change]

[FDD – If the RADIO LINK SETUP REQUEST message includes the *HS-DSCH Preconfiguration Setup* IE in the *RL Information* IE for a Radio Link not indicated by the *HS-PDSCH RL ID* IE the DRNS shall if supported preconfigure the indicated cells for Enhanced HS Serving Cell Change according to TS 25.308 [63]: ]

- [FDD The DRNS shall preconfigure sets of HS-SCCH codes on the cells preconfigured for HS-DSCH, primary serving HS-DSCH cell, as well as on the secondary serving HS-DSCH cells. The primary serving HS-DSCH cell is designated through the *C-ID* IE part of the *RL Information* IE in the RADIO LINK SETUP REQUEST message. The list of secondary serving HS-DSCH cells is designated by the list of *Secondary C-ID* IEs in the *HS-DSCH Preconfiguration Setup* IE part of the *RL Information* IE in the RADIO LINK SETUP REQUEST message. ]
- [FDD The number of HS-SCCH codes to preconfigure for each cell may be optionally specified: ]
  - [FDD by the *Num Primary HS-SCCH Codes* IE in the *HS-DSCH Preconfiguration Setup* IE, for the primary serving HS-DSCH cell]
  - [FDD by the *Num Secondary HS-SCCH Codes* IE in the *Secondary Cells* IE in the *HS-DSCH Preconfiguration Setup* IE for each of the secondary serving HS-DSCH cells]
- [FDD –If *Num Primary HS-SCCH Codes* IE or *Num Secondary HS-SCCH Codes* IE is not included in the message the number and distribution of codes on primary and any secondary cells shall be preconfigured to satisfy any limitations in TS 25.214 [10]. ]
- [FDD The DRNS shall return these codes in the *Sets of HS-SCCH Codes IE* along with the corresponding per-cell *HS-DSCH-RNTI* IE in the *HS-DSCH Preconfiguration Info* IE in the *RL Information Response* IE of the RADIO LINK SETUP RESPONSE message or in the *Successful RL Information Response* IE of the RADIO LINK SETUP FAILURE message. ]
- [FDD The DRNS shall use the first in the numbered list of the primary serving HS-DSCH cell's HS-SCCH codes in the *HS-SCCH Preconfigured Codes* IE sent to the SRNC to signal the Target Cell HS-SCCH Order defined in ITU-T Rec. X.680 [18]. ]

- [FDD The DRNS shall include, in the HS-DSCH Preconfiguration Info IE in the RL Information Response IE in the RADIO LINK SETUP RESPONSE message or in the Successful RL Information Response IE of the RADIO LINK SETUP FAILURE message, IEs according to the rules defined for HS-DSCH setup and: ]
  - [FDD if *HARQ Preamble Mode* IE is included in the *HS-DSCH Preconfiguration Setup* IE the *HARQ Preamble Mode Activation Indicator* IE]
  - [FDD if *MIMO Activation Indicator* IE is included in the *HS-DSCH Preconfiguration Setup* IE or in the *Secondary Cells* IE in the *HS-DSCH Preconfiguration Setup* IE the Pilot Configuration and MIMO N/M Ratio in *MIMO Information Response* IE]
  - [FDD if *HS-DSCH MAC-d PDU Size Format* IE is included in the *HS-DSCH Preconfiguration Setup* IE and set to "Flexible MAC-d PDU Size" and if Sixtyfour QAM will not be used in the preconfiguration, the *HS-DSCH TB Size Table Indicator* IE for each preconfigured cell]
  - [FDD if Sixtyfour QAM Usage Allowed Indicator IE is included in the Secondary Cells IE in the HS-DSCH Preconfiguration Setup IE or in the HS-DSCH Preconfiguration Setup IE the SixtyfourQAM DL Usage Indicator IE for each preconfigured cell]
  - [FDD if Continuous Packet Connectivity HS-SCCH less Information IE is included in the HS-DSCH Preconfiguration Setup IE the Continuous Packet Connectivity HS-SCCH less Information Response IE]
  - [FDD if the UE with enhanced HS-SCCH support indicator IE is included in the HS-DSCH Preconfiguration Setup IE, then the DRNS shall store this information in the preconfigured configuration.]
  - [FDD If the UE Support Indicator Extension IE is included in the HS-DSCH Preconfiguration Setup IE with the bit UE DTXDRX related HS-SCCH orders uniform behavior indicator set to 0, then the DRNS shall, if supported, include the Support of dynamic DTXDRX related HS-SCCH order IE in the HS-DSCH Preconfiguration Info IE in the RADIO LINK SETUP RESPONSE message.]
  - [FDD the SixtyfourQAM DL Support Indicator IE shall be included]
  - [FDD if the *UE Support Indicator Extension* IE is included in the *HS-DSCH Preconfiguration Setup* IE, then the DRNS may store this information in the preconfigured configuration.]
  - [FDD the DRNS shall, if supported, include in the *Sets of HS-SCCH Codes* IE the *Measurement Power Offset* IE for each preconfigured cell.]
- [FDD The DRNS shall include in the *HS-DSCH Preconfiguration Info* IE in the *RL Information Response* IE in the RADIO LINK SETUP RESPONSE message or in the *Successful RL Information Response* IE of the RADIO LINK SETUP FAILURE message the *E-DCH FDD DL Control Channel Information* containing the preconfigured configuration of the E-DCH serving cell according to the rules defined for Serving E-DCH Radio Link Change as follows: ]
  - [FDD The DRNS shall allocate for the preconfigured configuration a primary E-RNTI identifier or a secondary E-RNTI identifier or both for the new Serving E-DCH Radio Link and include these E-RNTI identifiers along with the channelisation code of the corresponding E-AGCH in the *E-DCH FDD DL Control Channel Information* IE.]
  - [FDD The DRNS may preconfigure the *Serving Grant Value* IE and *Primary/Secondary Grant Selector* IE for the initial grant for the serving E-DCH RL and include these values in the *E-DCH FDD DL Control Channel Information* IE.]
- [FDD –If the *HS-DSCH Preconfiguration Setup* IE includes the *E-DCH Indicator* IE for a secondary cell, the DRNS shall include in the *Additional E-DCH Preconfiguration Information* IE in the *HS-DSCH Preconfiguration Info* IE in the *RL Information Response* IE in the RADIO LINK SETUP RESPONSE message or in the *Successful RL Information Response* IE of the RADIO LINK SETUP FAILURE message the *E-DCH FDD DL Control Channel Information* containing the preconfigured configuration of the Additional E-DCH serving cell, corresponding to the cell indicated with the *E-DCH Indicator* IE, according to the rules defined for Serving Additional E-DCH Radio Link Change as follows:]

- [FDD The DRNS shall allocate for the preconfigured configuration a primary E-RNTI identifier or a secondary E-RNTI identifier or both for the new Serving Additional E-DCH Radio Link and include these E-RNTI identifiers along with the channelisation code of the corresponding E-AGCH in the *E*-DCH FDD DL Control Channel Information IE. ]
- [FDD The DRNS may preconfigure the *Serving Grant Value* IE and *Primary/Secondary Grant Selector* IE for the initial grant for the serving Additional E-DCH RL and include these values in the *E-DCH FDD DL Control Channel Information* IE.]
- [FDD If the Power Offset For S-CPICH for MIMO Request Indicator IE is included in the HS-DSCH Preconfiguration Setup IE or in the Secondary Cells IE in the HS-DSCH Preconfiguration Setup IE, the DRNC shall, if supported and MIMO pilot configuration with Primary and Secondary CPICH is set up with a non-zero power offset on the cell where HS-DSCH / secondary HS-DSCH is preconfigured, include the Power Offset For S-CPICH for MIMO IE in the HS-DSCH Preconfiguration Info IE or in the Sets of HS-SCCH Codes IE in the HS-DSCH Preconfiguration Info IE for each preconfigured cell in the RADIO LINK SETUP RESPONSE message. If zero power offset the DRNC may include the Power Offset For S-CPICH for MIMO IE.]

[FDD – If the RADIO LINK SETUP REQUEST message includes the *Non-Serving RL Preconfiguration Setup* IE in the *RL Information* IE and:]

- [FDD if the choice of new Serving RL is "New Serving RL in the DRNS", the DRNC may include the New non-serving RL E-DCH FDD DL Control Channel Information A IE and/or New non-serving RL E-DCH FDD DL Control Channel Information B IE in the Non-Serving RL Preconfiguration Info IE for the RL in the RADIO LINK SETUP RESPONSE message.]
- [FDD if the choice of *new Serving RL* is "New Serving RL Not in the DRNS", the DRNC may include the *New non-serving RL E-DCH FDD DL Control Channel Information C* IE in the *Non-Serving RL Preconfiguration Info* IE for the RL in the RADIO LINK SETUP RESPONSE message.]
- [FDD if the choice of new Serving RL is "New Serving RL in the DRNS or New Serving RL Not in the DRNS", the DRNC may include the New non-serving RL E-DCH FDD DL Control Channel Information A IE, the New non-serving RL E-DCH FDD DL Control Channel Information B IE and/or the New non-serving RL E-DCH FDD DL Control Channel Information C IE for the RL in the Non-Serving RL Preconfiguration Info IE in the RADIO LINK SETUP RESPONSE message.]
- [FDD if the Additional E-DCH Non-Serving RL Preconfiguration Setup IE is included, the DRNC may include the New non-serving RL E-DCH FDD DL Control Channel Information A IE, the New nonserving RL E-DCH FDD DL Control Channel Information B IE and/or the New non-serving RL E-DCH FDD DL Control Channel Information C IE according to the choice of new Serving RL in Additional E-DCH New non-serving RL E-DCH FDD DL Control Channel Information IE for the additional non serving E-DCH RL in the Non-Serving RL Preconfiguration Info IE in the RADIO LINK SETUP RESPONSE message.]

#### General:

If the RADIO LINK SETUP REQUEST message includes the *RL Specific DCH Information* IE, the DRNC may use the transport layer address and the binding identifier received from the SRNC when establishing a transport bearer for the DCH or the set of co-ordinated DCHs [FDD – for every DCH being established for which the *Transport Bearer Not Requested Indicator* IE was not included].

If no *D-RNTI* IE was included in the RADIO LINK SETUP REQUEST message, the DRNC shall include in the RADIO LINK SETUP RESPONSE message the *D-RNTI* IE, the *CN PS Domain Identifier* IE and/or the *CN CS Domain Identifier* IE for the CN domains (using LAC and RAC of the current cell) to which the DRNC is connected.

[1.28 Mcps TDD – If no *D-RNTI* IE was included in the RADIO LINK SETUP REQUEST message, the DRNC could include in the RADIO LINK SETUP RESPONSE message the *UARFCN* IE.]

[FDD – If the *D-RNTI* IE was included in the RADIO LINK SETUP REQUEST message the DRNC shall include in the RADIO LINK SETUP RESPONSE message the *Primary Scrambling Code* IE, the *UL UARFCN* IE and the *DL UARFCN* IE.]

[TDD – If the *D*-*RNTI* IE was included in the RADIO LINK SETUP REQUEST message the DRNC shall include in the RADIO LINK SETUP RESPONSE message the *UARFCN* IE, the *Cell Parameter ID* IE and the *SCTD Indicator* IE.]

[3.84Mcps TDD and 7.68 Mcps TDD – If the *D-RNTI* IE was included in the RADIO LINK SETUP REQUEST message the DRNC shall include in the RADIO LINK SETUP RESPONSE message the *Sync Case* IE and if the *Sync Case* IE is set to "Case 2", the DRNC shall also include the *SCH Time Slot* IE in the RADIO LINK SETUP RESPONSE message. If the included *Sync Case* IE is set to "Case1", the DRNC shall also include the *Time Slot For SCH* IE.]

[3.84Mcps TDD – The DRNC shall include the Secondary CCPCH Info TDD IE in the RADIO LINK SETUP RESPONSE message if at least one DSCH Information Response IE or USCH Information Response IE is included in the message and at least one DCH is configured for the radio link. The DRNC shall also include the Secondary CCPCH Info TDD IE in the RADIO LINK SETUP RESPONSE message if at least one DSCH Information Response IE or USCH Information Response IE is included in the message and the SHCCH messages for this radio link will be transmitted over a different secondary CCPCH than selected by the UE from system information.]

[1.28 Mcps TDD – The DRNC shall include the Secondary CCPCH Info TDD LCR IE in the RADIO LINK SETUP RESPONSE message if at least one DSCH Information Response LCR IE or USCH Information Response LCR IE is included in the message and at least one DCH is configured for the radio link. The DRNC shall also include the Secondary CCPCH Info TDD LCR IE in the RADIO LINK SETUP RESPONSE message if at least one DSCH Information Response LCR IE or USCH Information Response LCR IE is included in the message and the SHCCH messages for this radio link will be transmitted over a different secondary CCPCH than selected by the UE from system information.]

[7.68 Mcps TDD – The DRNC shall include the *Secondary CCPCH Info* 7.68*Mcps TDD* IE in the RADIO LINK SETUP RESPONSE message if at least one *DSCH Information Response* 7.68 *Mcps* IE or *USCH Information Response* 7.68 *Mcps* IE is included in the message and at least one DCH is configured for the radio link. The DRNC shall also include the *Secondary CCPCH Info* 7.68*Mcps TDD* IE in the RADIO LINK SETUP RESPONSE message if at least one *DSCH Information Response* 7.68 *Mcps* IE or *USCH Information Response* 7.68 *Mcps* IE is included in the message and the SHCCH Info Secondary CCPCH Info The Response 7.68 *Mcps* IE or *USCH Information Response* 7.68 *Mcps* IE is included in the message and the SHCCH messages for this radio link will be transmitted over a different secondary CCPCH than selected by the UE from system information.]

For each Radio Link established in a cell in which at least one URA Identity is being broadcast, the DRNC shall include in the *URA Information* IE within the RADIO LINK SETUP RESPONSE message URA Information for this cell including the *URA ID* IE, the *Multiple URAs Indicator* IE indicating whether or not multiple URA Identities are being broadcast in the cell, and the *RNC-ID* Iesof all other RNCs that have at least one cell within the URA identified by the *URA ID* IE.

Depending on local configuration in the DRNS, the DRNC may include in the RADIO LINK SETUP RESPONSE message the *UTRAN Access Point Position* IE and the geographical co-ordinates of the cell, represented either by the *Cell GAI* IE or by the *Cell GA Additional Shapes* IE. If the DRNC includes the *Cell GA Additional Shapes* IE in the RADIO LINK SETUP RESPONSE message, it shall also include the *Cell GAI* IE.

If the DRNS need to limit the user rate in the uplink of a DCH due to congestion caused by the UL UTRAN Dynamic Resources (see subclause 9.2.1.79) when starting to utilise a new Radio Link, the DRNC shall include in the RADIO LINK SETUP RESPONSE message the *Allowed UL Rate* IE in the *DCH Information Response* IE for this Radio Link.

If the DRNS need to limit the user rate in the downlink of a DCH due to congestion caused by the DL UTRAN Dynamic Resources (see subclause 9.2.1.79) when starting to utilise a new Radio Link, the DRNC shall include in the RADIO LINK SETUP RESPONSE message the *Allowed DL Rate* IE in the *DCH Information Response* IE for this Radio Link.

If the *Permanent NAS UE Identity* IE is included in the RADIO LINK SETUP REQUEST message, the DRNS shall store the information for the considered UE Context for the life-time of the UE Context.

If the RADIO LINK SETUP REQUEST message includes the *Permanent NAS UE Identity* IE and a *C-ID* IE corresponding to a cell reserved for operator use, the DRNS shall use this information to determine whether it can set up a Radio Link on this cell or not for the considered UE Context.

If the HCS priority information is available in the DRNS, it shall include the *HCS Prio* IE for each of the established RLs in the RADIO LINK SETUP RESPONSE message.

The DRNS shall start receiving on the new RL(s) after the RLs are successfully established.

[FDD – If the RADIO LINK SETUP REQUEST message includes the *Cell Portion ID* IE, the DRNS shall use this information when it decides to use beamforming for the new RL.]

[1.28 Mcps TDD – If the RADIO LINK SETUP REQUEST message includes the *Cell Portion LCR ID* IE, the DRNS shall use this information when it decides to allocate physical resource for the new RL.]

[FDD – If the RADIO LINK SETUP REQUEST message includes the *Initial DL DPCH Timing Adjustment Allowed* IE, then the DRNS may perform an initial DL DPCH Timing Adjustment (i.e. perform a timing advance or a timing delay with respect to the SFN timing) on a Radio Link. In this case, the DRNS shall include, for the concerned Radio Link(s), the *Initial DL DPCH Timing Adjustment* IE in the *Radio Link Information Response* IE in the RADIO LINK SETUP RESPONSE message.]

[FDD – If the RADIO LINK SETUP REQUEST message includes the *D*-*RNTI* IE which already has a RL and *Synchonisation Indicator* IE, the DRNC shall ignore the value in the *Frame Offset* IE and *Chip Offset* IE in the RADIO LINK SETUP REQUEST message and shall include in the *Frame Offset* IE and *Chip Offset* IE the values used for already established RL in the RADIO LINK SETUP RESPONSE message.]

#### [FDD – Radio Link Set Handling:]

[FDD – The *First RLS Indicator* IE indicates if the concerned RL shall be considered part of the first RLS established towards this UE. The DRNS shall use the *First RLS Indicator* IE to determine the initial TPC pattern in the DL of the concerned RL and all RLs which are part of the same RLS, as described in TS 25.214 [10], section 5.1.2.2.1.2.]

[FDD – For each RL not having a common generation of the TPC commands in the DL with another RL, the DRNS shall assign to the RL a unique value for the *RL Set ID* IE which uniquely identifies the RL as an RL Set within the UE Context. In case of E-DCH, the generation of E-HICH related information for RLs in different RL Set(s) shall not be common.]

[FDD – For all RLs having a common generation of the TPC commands in the DL with another RL, the DRNS shall assign to each RL the same value for the *RL Set ID* IE which uniquely identifies these RLs as members of the same RL Set within the UE Context. In case of E-DCH, the generation of E-HICH information for all RLs in a RL Set shall be common.]

[FDD –The UL oout-of-sync algorithm defined in ref. TS 25.214 [10] shall, for each of the established RL Set(s), use the maximum value of the parameters N\_OUTSYNC\_IND and T\_RLFAILURE that are configured in the cells supporting the radio links of the RL Set. The UL in-sync algorithm defined in TS 25.214 [10] shall, for each of the established RL Set(s), use the minimum value of the parameters N\_INSYNC\_IND that are configured in the cells supporting the radio links of the RL Set.]

[FDD – For each E-DCH RL which has or can have a common generation of E-RGCH information with another RL (current or future) when the DRNS would contain the E-DCH serving RL, the DRNS shall include the *E-DCH RL Set ID* IE in the RADIO LINK SETUP RESPONSE message. The value of the *E-DCH RL Set ID* IE shall allow the SRNC to identify the E-DCH RLs that have or can have a common generation of E-RGCH information.]

#### [TDD- E-DCH:]

[TDD – If the [3.84Mcps – *E-DCH Information* IE][1.28Mcps – *E-DCH Information* 1.28Mcps IE][7.68Mcps TDD – *E-DCH Information* 7.68Mcps IE] is present in the RADIO LINK SETUP REQUEST message:]

- [TDD The DRNS shall setup the requested E-DCH resources on the Radio Link indicated by the *E-DCH Serving RL* IE.]
- [TDD If the *TNL QoS* IE is included in the *E-DCH MAC-d Flows Information TDD* IE for an E-DCH MAC-d flow and if ALCAP is not used, the *TNL QoS* IE may be used by the DRNS to determine the transport bearer characteristics to apply in the uplink for the related MAC-d flow.]
- [TDD If the RADIO LINK SETUP REQUEST message includes the *Transport Layer Address* IE and *Binding ID* IE in the *E-DCH MAC-d Flows Information TDD* IE for an E-DCH MAC-d flow, then the DRNC may use the transport layer address and the binding identifier received from the SRNC when establishing a transport bearer for the concerned E-DCH MAC-d flow.]

- [TDD If the RADIO LINK SETUP REQUEST message includes the *E-DCH MAC-d Flow Multiplexing List* IE for an E-DCH MAC-d flow in the *E-DCH MAC-d Flows Information TDD* IE, the DRNS shall use this information for the related resource allocation operation.]
- [TDD If in the RADIO LINK SETUP REQUEST message the *E-DCH Grant Type* IE in the *E-DCH MAC-d Flows Information TDD* IE is set to "Non-scheduled" for an E-DCH MAC-d flow the DRNS shall assume nonscheduled grants are configured for that E-DCH MAC-d flow.]
- [TDD If in the RADIO LINK SETUP REQUEST message the *E-DCH Grant Type* IE in the *E-DCH MAC-d Flows Information TDD* IE is set to "Scheduled" the DRNS shall assume that it may issue scheduled grants for the concerned E-DCH MAC-d flow.]
- [TDD If the RADIO LINK SETUP REQUEST message includes the *MAC-es Guaranteed Bit Rate* IE in the *E-DCH Logical Channel Information* IE in the *E-DCH MAC-d Flows Information TDD* IE, then the DRNS shall use this information to optimise MAC-e scheduling decisions for the related queue.]
- [1.28Mcps TDD If the RADIO LINK SETUP REQUEST message includes the *MAC-es Maximum Bit Rate LCR* IE in the *E-DCH Logical Channel Information* IE in the *E-DCH MAC-d Flows Information TDD* IE, the DRNS shall use this information for the related resource allocation operation, and when applicable, for E-DCH scheduling.]
- [TDD If the RADIO LINK SETUP REQUEST message includes the *Maximum MAC-d PDU Size Extended* IE for a E-DCH Logical Channel in the *E-DCH MAC-d Flows Information TDD* IE in the *E-DCH Information* IE, then the DRNS shall ignore the *MAC-d PDU Size* IE in the *MAC-d PDU Size List* IE and use *Maximum MAC-d PDU Size Extended* IE to optimise capacity allocation for the related E-DCH Logical Channel and use the indicated format in user plane frame structure for E-DCH channels TS 25.425 [32] and MAC TS 25.321 [41].]
- [3.84Mcps TDD If the RADIO LINK SETUP REQUEST message includes the *E-DCH TDD Maximum Bitrate* IE in the *E-DCH TDD Information* IE for an E-DCH, the DRNS shall use this information for the related resource allocation operation, and when applicable, for E-DCH scheduling.]
- [1.28Mcps TDD If the RADIO LINK SETUP REQUEST message includes the *E-DCH Physical Layer Category LCR* IE or *Extended E-DCH Physical Layer Category LCR* IE in the *E-DCH TDD Information LCR* IE for an E-DCH, the DRNS shall use this information for the related resource allocation operation, and when applicable, for E-DCH scheduling.]
- [7.68Mcps TDD If the RADIO LINK SETUP REQUEST message includes the *E-DCH TDD Maximum Bitrate* 7.68Mcps IE in the *E-DCH TDD Information* 7.68Mcps IE for an E-DCH, the Node B shall use this information for the related resource allocation operation, and when applicable, for E-DCH scheduling.]
- [3.84Mcps TDD If the RADIO LINK SETUP REQUEST message includes the *E-DCH Processing Overload Level* IE in the *E-DCH TDD Information* IE, then if the DRNS could not decode the E-PUCH for the last consecutive number of TTIs, indicated in the *E-DCH Processing Overload Level* IE, because of a processing issue, the DRNS shall notify the SRNC by initiating the Radio Link Failure procedure.]
- [7.68Mcps TDD If the RADIO LINK SETUP REQUEST message includes the *E-DCH Processing Overload Level* IE in the *E-DCH TDD Information 7.68Mcps* IE, then if the DRNS could not decode the E-PUCH for the last consecutive number of TTIs, indicated in the *E-DCH Processing Overload Level* IE, because of a processing issue, the DRNS shall notify the SRNC by initiating the Radio Link Failure procedure.]
- [1.28Mcps TDD If the RADIO LINK SETUP REQUEST message includes the *E-DCH Processing Overload Level* IE in the *E-DCH TDD Information LCR* IE, then if the DRNS could not decode the E-PUCH for the last consecutive number of TTIs, indicated in the *E-DCH Processing Overload Level* IE, because of a processing issue, the DRNS shall notify the SRNC by initiating the Radio Link Failure procedure.]
- [TDD The DRNS may use the *Traffic Class* IE for a specific E-DCH MAC-d flow to determine the transport bearer characteristics to apply between DRNC and Node B.]
- [TDD If the RADIO LINK SETUP REQUEST message includes the [3.84Mcps TDD E-DCH TDD Information IE][1.28Mcps TDD – E-DCH TDD Information LCR IE] in the E-DCH MAC-d Flows Information TDD IE, then the DRNS shall use this value as a power offset for the transmission of scheduling information without any MAC-d PDUs.]
- [1.28Mcps TDD If the RADIO LINK SETUP REQUEST message includes the *Maximum Number of Retransmission for Scheduling Info LCR* IE and the *E-DCH Retransmission timer for Scheduling Info LCR* IE in

the *E-DCH TDD Information LCR* IE, then the DRNS shall use these parameters for the transmission of scheduling information without any MAC-d PDUs.]

- [3.84Mcps TDD The DRNS shall determine any non-scheduled resource to be granted for the radio link, and return this in the *E-DCH Non-scheduled Grant Information TDD* IE in the *E-DCH Information Response* IE in the RADIO LINK SETUP RESPONSE message.]
- [3.84Mcps TDD The DRNS shall allocate an E-RNTI identifier and include the E-RNTI identifier and the E-AGCH(s) assigned in the *E-DCH Information Response* IE in the RADIO LINK SETUP RESPONSE message.]
- [1.28Mcps TDD The DRNS shall determine any non-scheduled resource to be granted for the radio link, and return this in the *E-DCH Non-scheduled Grant Information LCR TDD* IE in the *E-DCH Information Response* 1.28Mcps IE in the RADIO LINK ADDITION RESPONSE message.]
- [1.28Mcps TDD The DRNS shall allocate an E-RNTI identifier and include the E-RNTI identifier, the E-AGCH(s) and E-HICH(s) assigned in the *E-DCH Information Response 1.28Mcps* IE in the RADIO LINK SETUP RESPONSE message.]
- [7.68Mcps TDD The DRNS shall determine any non-scheduled resource to be granted for the radio link, and return this in the *E-DCH Non-scheduled Grant Information* 7.68Mcps TDD IE in the *E-DCH Information Response* 7.68Mcps IE in the RADIO LINK SETUP RESPONSE message.]
- [7.68Mcps TDD The DRNS shall allocate an E-RNTI identifier and include the E-RNTI identifier and the E-AGCH(s) assigned in the *E-DCH Information Response* 7.68Mcps IE in the RADIO LINK SETUP RESPONSE message.]

#### **Response Message:**

Upon receipt of the RADIO LINK SETUP REQUEST message, the DRNS allocates the requested type of channelisation codes and other physical channel resources for each RL and assigns a binding identifier and a transport layer address for each DCH, for each set of co-ordinated DCHs [TDD – and for each DSCH and USCH]. This information shall be sent to the SRNC in the RADIO LINK SETUP RESPONSE message when all the RLs have been successfully established.

[1.28 Mcps TDD – if the DRNS assigns one or more PLCCH sequence numbers to the radio link, then the PLCCH assignment(s) shall be sent to the SRNC in the RADIO LINK SETUP RESPONSE message.]

After sending the RADIO LINK SETUP RESPONSE message the DRNS shall continuously attempt to obtain UL synchronisation on the Uu interface and start reception on the new RL.

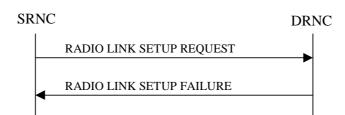
For each RL for which the *Delayed Activation* IE is not included in the RADIO LINK SETUP REQUEST message the DRNS shall:

- [FDD start transmission on the DL DPDCH(s) of the new RL as specified in ref. TS 25.427 [4].]
- [TDD start transmission on the new RL immediately as specified in ref. TS 25.427 [4].]

For each RL for which the *Delayed Activation* IE is included in the RADIO LINK SETUP REQUEST message, the DRNS shall:

- if the Delayed Activation IE indicates "Separate Indication":
  - not start any DL transmission for the concerned RL on the Uu interface;
- if the Delayed Activation IE indicates "CFN":
  - [FDD start transmission on the DL DPDCH(s) of the new RL as specified in ref. TS 25.427 [4], however never before the CFN indicated in the *Activation CFN* IE.]
  - [TDD start transmission on the new RL at the CFN indicated in the *Activation CFN* IE as specified in ref. TS 25.427 [4].]

## 8.3.1.3 Unsuccessful Operation



#### Figure 6: Radio Link Setup procedure: Unsuccessful Operation

If the establishment of at least one radio link is unsuccessful, the DRNC shall respond with a RADIO LINK SETUP FAILURE message. The DRNC shall include in the RADIO LINK SETUP FAILURE message a general *Cause* IE or a *Cause* IE for each failed radio link. The *Cause* IE indicates the reason for failure.

[FDD – If some radio links were established successfully, the DRNC shall indicate this in the RADIO LINK SETUP FAILURE message in the same way as in the RADIO LINK SETUP RESPONSE message.]

If the RADIO LINK SETUP REQUEST message includes a *C-ID* IE corresponding to a cell reserved for operator use and the *Permanent NAS UE Identity* IE is not present, the DRNC shall reject the procedure and send the RADIO LINK SETUP FAILURE message.

[FDD – If the RL identified by the *HS-PDSCH RL ID* IE is a radio link in the DRNS and this RL is successfully established, then the DRNC shall allocate a HS-DSCH-RNTI to the UE Context and include the *HS-DSCH-RNTI* IE, the *HS-DSCH FDD Information Response* IE and the *SixtyfourQAM DL Support Indicator* IE in the RADIO LINK SETUP FAILURE message. This *SixtyfourQAM DL Support Indicator* IE is related to the HS-DSCH Radio Link.]

[FDD – If the RL identified by the *HS-PDSCH RL ID* IE in the *Additional HS Cell Information RL Setup* IE is a radio link in the DRNS and this RL is successfully established, then the DRNC shall allocate a HS-DSCH-RNTI to the UE Context and include the *HS-DSCH-RNTI* IE, the *HS-DSCH FDD Secondary Serving Information Response* IE and the *SixtyfourQAM DL Support Indicator* IE in the *Additional HS Cell Information Response* IE in the RADIO LINK SETUP FAILURE message. If the establishment of the RL identified by the *HS-PDSCH RL ID* IE in the *Additional HS Cell Information RL Setup* IE, i.e secondary serving HS-DSCH Radio Link is unsuccessful but the establishment of the RL identified by the *HS-PDSCH RL ID* IE for the serving HS-DSCH Radio Link is successful, then the DRNC shall indicate the unsuccessful secondary serving HS-DSCH Radio Link in the *Unsuccessful RL Information Response* IE in the RADIO LINK SETUP FAILURE message by setting the *RL ID* IE to the same value as the unsuccessful *HS-PDSCH RL ID* IE in the *Additional HS Cell Information RL Setup* IE.]

[1.28 Mcps TDD – If the RL identified by the *HS-PDSCH RL ID* IE is a radio link in the DRNS and this RL is successfully established, then the DRNC shall allocate a HS-DSCH-RNTI to the UE Context and include the *HS-DSCH-RNTI* IE, the *HS-DSCH TDD Information Response* IE and the *SixtyfourQAM DL Support Indicator* IE in the RADIO LINK SETUP FAILURE message.]

[FDD – If the *MIMO Activation Indicator* IE is included and the *Power Offset For S-CPICH for MIMO Request Indicator* IE is not included in the *HS-DSCH FDD Information* IE in the RADIO LINK SETUP REQUEST message but MIMO pilot configuration with Primary and Secondary CPICH is set up with a non-zero power offset on the cell where the Serving HS-DSCH Radio Link is established, the setup of the serving HS-DSCH Radio Link shall be reported as failed and the DRNC shall include in the RADIO LINK SETUP FAILURE message the *Cause* IE.]

[FDD – If the RL identified by the *E-DCH Additional RL ID* IE in the *Additional E-DCH RL Specific Information To Setup* IE in the *Additional E-DCH FDD Setup Information* IE is a radio link in the DRNS and this RL is successfully established, then the DRNS shall include the *Additional E-DCH FDD Information Response* IE in the *Additional E-DCH Cell Information Response* IE in the RADIO LINK SETUP FAILURE message in the same way as in the RADIO LINK SETUP RESPONSE message. If the establishment of the RL identified by the *E-DCH Additional RL ID* IE is unsuccessful, then the DRNS shall indicate the unsuccessful setup of the Additional E-DCH Radio Link in the *Unsuccessful RL Information Response* IE in the RADIO LINK SETUP FAILURE message by setting the *RL ID* IE to the same value as the unsuccessful *E-DCH Additional RL ID* IE in the *Additional RL ID* IE in the *Additional RL ID* IE in the Same value as the unsuccessful *E-DCH Additional RL ID* IE in the *Additional RL ID* IE in the Same value as the unsuccessful *E-DCH Additional RL ID* IE in the *Additional RL ID* IE in the *Additional RL ID* IE in the Same value as the unsuccessful *E-DCH Additional RL ID* IE in the *Additional E-DCH Cell Information Setup* IE.]

Typical cause values are:

#### **Radio Network Layer Causes:**

[FDD – UL Scrambling Code Already in Use;] DL Radio Resources not Available; UL Radio Resources not Available; [FDD – Combining Resources not available;] Combining not Supported Requested Configuration not Supported; Cell not Available; [FDD – Requested Tx Diversity Mode not Supported;] Power Level not Supported; Number of DL codes not supported; Number of UL codes not supported; Dedicated Transport Channel Type not Supported; DL Shared Channel Type not Supported; [TDD – UL Shared Channel Type not Supported;] [FDD – UL Spreading Factor not Supported;] [FDD – DL Spreading Factor not Supported;] CM not Supported; [FDD – DPC mode change not Supported;] Cell reserved for operator use; Delayed Activation not supported; E-DCH not supported; [FDD – F-DPCH not supported;] [FDD - Continuous Packet Connectivity DTX-DRX operation not Supported;] [FDD - Continuous Packet Connectivity HS-SCCH less operation not Supported;] [FDD – MIMO not supported;] [FDD – E-DCH TTI2ms not supported;] [FDD – Continuous Packet Connectivity DTX-DRX operation not available;] [FDD – Continuous Packet Connectivity UE DTX Cycle not available;] [FDD – MIMO not available;] [FDD – SixteenQAM UL not Supported;] HS-DSCH MAC-d PDU Size Format not supported; [FDD – F-DPCH Slot Format operation not supported;] E-DCH MAC-d PDU Size Format not available; [FDD – E-DPCCH Power Boosting not supported;] [FDD - SixtyfourQAM DL and MIMO Combined not available;] [FDD – Multi Cell operation not available;] [FDD – Multi Cell operation not supported;] [FDD – Multi Cell operation with MIMO not available;] [FDD – Multi Cell operation with MIMO not supported;] [FDD – Single Stream MIMO not supported;] [FDD – Single Stream MIMO not available;] [FDD - TX diversity for MIMO UE on DL Control Channels not available;] [FDD – Multi Cell E-DCH Operation not supported;] [FDD – Multi Cell E-DCH Operation not available;] [FDD - Multi Cell operation with Single Stream MIMO not available;] [FDD - Multi Cell operation with Single Stream MIMO not supported;] [FDD - Cell Specific Tx Diversity Handling For Multi Cell Operation Not Available;] [FDD – Cell Specific Tx Diversity Handling For Multi Cell Operation Not Supported.]

#### **Transport Layer Causes:**

Transport Resource Unavailable.

#### **Miscellaneous Causes:**

Control Processing Overload; HW Failure; Not enough User Plane Processing Resources.

## 8.3.1.4 Abnormal Conditions

If the DRNC receives either an S-RNTI or a D-RNTI which already has RL(s) established [FDD – and the *Synchronisation Indicator* IE is not included in the RADIO LINK SETUP message,] the DRNC shall send the RADIO LINK SETUP FAILURE message to the SRNC, indicating the reason for failure.

[FDD – If the RADIO LINK SETUP REQUEST message includes the *Active Pattern Sequence Information* IE, but the *Transmission Gap Pattern Sequence Information* IE is not present, then the DRNC shall reject the procedure using the RADIO LINK SETUP FAILURE message.]

[FDD – If the RADIO LINK SETUP REQUEST message includes both the *Initial DL TX Power* IE and the *Primary CPICH Ec/No* IE or does not include either of these IEs, then the DRNC shall reject the procedure using the RADIO LINK SETUP FAILURE message.]

If more than one DCH of a set of co-ordinated DCHs has the *QE-Selector* IE set to "selected" [TDD – or no DCH of a set of co-ordinated DCHs has the *QE-Selector* IE set to "selected"] the DRNS shall reject the Radio Link Setup procedure and shall respond with a RADIO LINK SETUP FAILURE message.

[FDD – If only the *Initial DL TX Power* IE or the *Uplink SIR Target* IE is included in the RADIO LINK SETUP REQUEST message, then DRNC shall reject the Radio Link Setup procedure and shall respond with the RADIO LINK SETUP FAILURE message.]

If the RADIO LINK SETUP REQUEST message includes a *DCH Information* IE with multiple *DCH Specific Info* IEs, and if the DCHs in the *DCH Information* IE do not have the same *Transmission Time Interval* IE in the *Semi-static Transport Format Information* IE, then the DRNC shall reject the procedure using the RADIO LINK SETUP FAILURE message.

[FDD – If the RADIO LINK SETUP REQUEST message includes the *Enhanced Primary CPICH Ec/No* IE, but not the *Primary CPICH Ec/No* IE, then the DRNC shall reject the procedure using the RADIO LINK SETUP FAILURE message.]

If the RADIO LINK SETUP REQUEST message includes the *Transport Layer Address* IE and the *Binding ID* IE in the *RL Specific DCH Information* IE [FDD – or in the *RL Specific E-DCH Information* IE] included in the *RL Information* IE for a specific RL and the *Diversity Control Field* IE is set to "Must" [FDD- or the RL is combined with an E-DCH RL previously listed in the RADIO LINK SETUP RESPONSE message in the DRNS], the DRNC shall reject the Radio Link Setup procedure and the DRNC shall respond with the RADIO LINK SETUP FAILURE message.

If ALCAP is not used, if the RADIO LINK SETUP REQUEST message does not include the *Transport Layer Address* IE and the *Binding ID* IE in the *RL Specific DCH Information* IE nor *RL Specific E-DCH Information* IE in the *RL Information* IE for a specific RL and the *Diversity Control Field* IE is set to "May", the DRNC shall reject the Radio Link Setup procedure and respond with the RADIO LINK SETUP FAILURE message.

If ALCAP is not used, if the RADIO LINK SETUP REQUEST message does not include the *Transport Layer Address* IE and the *Binding ID* IE in the *RL Specific DCH Information* IE in the *RL Information* IE for a specific RL and the *Diversity Control Field* IE is set to "Must Not", the DRNC shall reject the Radio Link Setup procedure and respond with the RADIO LINK SETUP FAILURE message.

If ALCAP is not used, if the RADIO LINK SETUP REQUEST message does not include the *Transport Layer Address* IE and the *Binding ID* IE in the *RL Specific DCH Information* IE in the *RL Information* IE for the first RL and/or [FDD – in the *RL Specific E-DCH Information* IE in the *RL Information* IE for the first E-DCH RL][TDD – in the *E-DCH MAC-d Flows Information TDD* IE], the DRNC shall reject the Radio Link Setup procedure and respond with the RADIO LINK SETUP FAILURE message.

If ALCAP is not used, if the RADIO LINK SETUP REQUEST message does not include the *Transport Layer Address* IE and the *Binding ID* IE for an HS-DSCH MAC-d Flow in the *HS-DSCH MAC-d Flows Information* IE, the DRNC shall reject the Radio Link Setup procedure and respond with the RADIO LINK SETUP FAILURE message.

[TDD – If ALCAP is not used, if the RADIO LINK SETUP REQUEST message does not include the *Transport Layer Address* IE and the *Binding ID* IE for a DSCH in the *DSCH TDD Information* IE and/or for an USCH in the *USCH Information* IE, the DRNC shall reject the Radio Link Setup procedure and respond with the RADIO LINK SETUP FAILURE message.]

If the RADIO LINK SETUP REQUEST message includes the *Transport Layer Address* IE or the *Binding ID* IE, and not both are present for a transport bearer intended to be established, the DRNC shall reject the Radio Link Setup procedure and the DRNC shall respond with the RADIO LINK SETUP FAILURE message.

If the RADIO LINK SETUP REQUEST message includes an *HS-PDSCH RL-ID* IE not referring to one of the radio links to be established, the DRNC shall reject the procedure using the RADIO LINK SETUP FAILURE message.

If the RADIO LINK SETUP REQUEST message contains the *HS-DSCH Information* IE and if the Priority Queues associated with the same *HS-DSCH MAC-d Flow ID* IE have the same *Scheduling Priority Indicator* IE value, the DRNC shall reject the procedure using the RADIO LINK SETUP FAILURE message.

If the RADIO LINK SETUP REQUEST message includes the *Maximum MAC-d PDU Size Extended* IE for a Priority Queue in the *HS-DSCH MAC-d Flows Information* IE in the *HS-DSCH Information* IE, and the *HS-DSCH MAC-d PDU Size Format* IE in the *HS-DSCH Information* IE has the value "Indexed MAC-d PDU Size", the DRNC shall reject the procedure using the RADIO LINK SETUP FAILURE message.

If the RADIO LINK SETUP REQUEST message does not include the *Maximum MAC-d PDU Size Extended* IE for a Priority Queue in the *HS-DSCH MAC-d Flows Information* IE in the *HS-DSCH Information* IE, and the *HS-DSCH MAC-d PDU Size Format* IE in the *HS-DSCH Information* IE has the value "Flexible MAC-d PDU Size", the DRNC shall reject the procedure using the RADIO LINK SETUP FAILURE message.

[FDD – If the RADIO LINK SETUP REQUEST message contains, for at least one logical channel, the *Maximum MAC-d PDU Size Extended* IE in the *E-DCH MAC-d Flows Information* IE in the *E-DCH FDD Information* IE and there exist a logical channel for which the *Maximum MAC-d PDU Size Extended* IE in the *E-DCH MAC-d Flows Information* IE in the *E-DCH FDD Information* IE is not present, the DRNC shall reject the procedure using the RADIO LINK SETUP FAILURE message.]

[TDD – If the RADIO LINK SETUP REQUEST message contains, for at least one logical channel, the *Maximum MAC-d PDU Size Extended* IE in the *E-DCH MAC-d Flows Information TDD* IE in the *E-DCH Information* IE, and there exist a logical channel for which the *Maximum MAC-d PDU Size Extended* IE in the *E-DCH MAC-d Flows Information TDD* IE in the *E-DCH Information* IE is not present, the DRNC shall reject the procedure using the RADIO LINK SETUP FAILURE message.]

[FDD – If the RADIO LINK SETUP REQUEST message includes the *F-DPCH Information* IE and the *DL DPCH Information* IE, then the DRNS shall reject the procedure using the RADIO LINK SETUP FAILURE message.]

[FDD – If the RADIO LINK SETUP REQUEST message contains the *E-DCH RL Indication* IE set to "E-DCH", but does not contain the *E-DCH FDD Information* IE, or if the message contains the *E-DCH FDD Information* IE, but does not contain the *E-DCH RL Indication* IE set to "E-DCH", then the DRNC shall reject the procedure using the RADIO LINK SETUP FAILURE message.]

If the RADIO LINK SETUP REQUEST message contains the *HS-PDSCH RL ID* IE and the *Serving E-DCH RL* IE but the Serving HS-DSCH Radio Link and the Serving E-DCH Radio Link are not configured to be in the same cell then the DRNC shall reject the procedure using the RADIO LINK SETUP FAILURE message.

[FDD – If the RADIO LINK SETUP REQUEST message contains the *HS-PDSCH RL ID* IE and the *E-DPCH Information* IE which includes the *HS-DSCH Configured Indicator* IE set as "HS-DSCH not configured" then the DRNC shall reject the procedure using the RADIO LINK SETUP FAILURE message.]

[FDD – If the RADIO LINK SETUP REQUEST message contains the *E-DPCH Information* IE but does not contain the *UL DPDCH Indicator for E-DCH operation* IE, then the DRNC shall reject the procedure using the RADIO LINK SETUP FAILURE message.]

[FDD – If the RADIO LINK SETUP REQUEST message contains the *Serving Cell Change CFN* IE, but neither the *Serving E-DCH RL* IE nor *HS-DSCH Information* IE is included, then the DRNS shall reject the procedure using the RADIO LINK SETUP FAILURE message.]

[FDD – If the RADIO LINK SETUP REQUEST message contains the *Transport Bearer Not Requested Indicator* IE for a DCH, but does not contain the *Unidirectional DCH indicator* IE set to "Uplink DCH only" in the *DCH Specific Info* IE for the DCH, the DRNC shall reject the procedure using the RADIO LINK SETUP FAILURE message.]

[FDD – If the RADIO LINK SETUP REQUEST message contains the *Synchronisation Indicator* IE for a RL, but does not contain the *D-RNTI* IE which already has the RL, the DRNC shall reject the procedure using the RADIO LINK SETUP FAILURE message.]

[FDD – If the *UL DPCH Information* IE in the RADIO LINK SETUP REQUEST message contains the *UL DPCCH Slot Format* set to "4" but does not contain the *F-DPCH Information* IE, then the DRNC shall reject the procedure using the RADIO LINK SETUP FAILURE message.]

[FDD – If the UL DPCH Information IE in the RADIO LINK SETUP REQUEST message contains the UL DPCCH Slot Format set to "0" or "2" and the Continuous Packet Connectivity DTX-DRX Information IE, then the DRNC shall reject the procedure using the RADIO LINK SETUP FAILURE message.]

[FDD – If the UL DPCH Information IE in the RADIO LINK SETUP REQUEST message contains Diversity Mode IE set to "Closed loop mode 1" and UL DPCCH Slot Format not set to "2" or "3", then the DRNC shall reject the procedure using the RADIO LINK SETUP FAILURE message.]

[FDD – If the RADIO LINK SETUP REQUEST message contains the *MIMO Activation Indicator* IE, *Sixtyfour QAM Usage Allowed Indicator* IE set to "Allowed", the *Additional HS Cell Information RL Setup* IE and/or the *Single Stream MIMO Activation Indicator* IE, but does not contain the *HS-DSCH MAC-d PDU Size Format* IE set to "Flexible MAC-d PDU Size", then the DRNC shall reject the procedure using the RADIO LINK SETUP FAILURE message.]

[FDD – If the RADIO LINK SETUP REQUEST message contains the *Continuous Packet Connectivity DTX-DRX Information* IE but does not contain the *F-DPCH Information* IE, then the DRNC shall reject the procedure using the RADIO LINK SETUP FAILURE message]

[FDD – If the RADIO LINK SETUP REQUEST message contains the *Serving E-DCH RL ID* IE but contains the *Transport Bearer Not Requested Indicator* IE in the RL Specific E-DCH Information for the new Serving E-DCH RL, the DRNC shall reject the procedure using the RADIO LINK FAILRE message.]

[FDD – If the RADIO LINK SETUP REQUEST message includes the *Transport Bearer Not Requested Indicator* IE for a DCH or an E-DCH MAC-d Flow for a specific RL and the specific RL is combined with RL which the transport bearer is configured to be established for the DCH or the E-DCH MAC-d Flow, previously listed in the RADIO LINK SETUP RESPONSE message in the DRNS, the DRNC shall reject the procedure using the RADIO LINK SETUP FAILURE message.]

[FDD – If the RADIO LINK SETUP REQUEST message contains the *Additional HS Cell Information RL Setup* IE indicating a seconadry serving cell that is not in the same Node B as the new serving HS-DSCH cell, then the DRNC shall reject the procedure using the RADIO LINK SETUP FAILURE message]

[FDD – If the RADIO LINK SETUP REQUEST message contains the *Additional HS Cell Information RL Setup* IE and if the *HS-DSCH Information* IE is not present, then the DRNC shall reject the procedure using the RADIO LINK SETUP FAILURE message.]

If the RADIO LINK SETUP REQUEST message includes the *DL RLC PDU Size Format* IE for a Priority Queue in the *HS-DSCH MAC-d Flows Information* IE in the *HS-DSCH Information* IE set to "Flexible RLC PDU Size", and the *HS-DSCH MAC-d PDU Size Format* IE in the *HS-DSCH Information* IE has the value "Indexed MAC-d PDU Size", the DRNC shall reject the procedure using the RADIO LINK SETUP FAILURE message.

If the RADIO LINK SETUP REQUEST message does not include the *Maximum MAC-d PDU Size Extended* IE for a Priority Queue in the *HS-DSCH MAC-d Flows Information* IE in the *HS-DSCH Information* IE, and the *DL RLC PDU Size Format* IE in the *HS-DSCH Information* IE has the value "Flexible RLC PDU Size", the DRNC shall reject the procedure using the RADIO LINK SETUP FAILURE message.

[FDD – If the RADIO LINK SETUP REQUEST message contains a *MIMO Activation Indicator* IE and a *Single Stream MIMO Activation Indicator* IE in the *HS-DSCH FDD Information* IE or in the *HS-DSCH FDD Secondary Serving Information* IE in the *Additional HS Cell Information RL Setup* IE, then the DRNC shall reject the procedure using the RADIO LINK SETUP FAILURE message.]

[FDD – If the RADIO LINK SETUP REQUEST message contains the *Additional E-DCH Cell Information RL Setup Req* IE and if the *E-DPCH Information* IE is not present, then the DRNS shall reject the procedure using the RADIO LINK SETUP FAILURE message.]

[FDD – If the RADIO LINK SETUP REQUEST message contains the *Additional E-DCH Cell Information RL Setup Req* IE and there exist a logical channel for which the *Maximum MAC-d PDU Size Extended* IE in the *E-DCH MAC-d Flows Information* IE in the *E-DCH FDD Information* IE is not present, the DRNS shall reject the procedure using the RADIO LINK SETUP FAILURE message.]

[FDD – If the RADIO LINK SETUP REQUEST message contains the Additional E-DCH Cell Information RL Setup Req IE and the C-ID IE is not included in the Additional E-DCH RL Specific Information To Setup IE in the Additional

*E-DCH FDD Setup Information* IE in the *Additional E-DCH Cell Information Setup* IE, the DRNS shall reject the procedure using the RADIO LINK SETUP FAILURE message.]

[FDD – If the RADIO LINK SETUP REQUEST message contains in the *HS-DSCH FDD Secondary Serving Information* IE in the *Additional HS Cell Information RL Setup* IE the *Diversity Mode* IE not set to "None" but not the *Transmit Diversity Indicator* or contains the *Transmit Diversity Indicator* but not the *Diversity Mode* IE not set to "None", then the DRNS shall reject the procedure using the RADIO LINK SETUP FAILURE message.]

## 8.3.2 Radio Link Addition

## 8.3.2.1 General

This procedure is used for establishing the necessary resources in the DRNS for one [FDD – or more] additional RLs towards a UE when there is already at least one RL established to the concerned UE via this DRNS.

This procedure shall use the signalling bearer connection for the relevant UE Context.

The Radio Link Addition procedure shall not be initiated if a Prepared Reconfiguration exists, as defined in subclause 3.1.

[TDD – The Radio Link Addition procedure serves to establish a new Radio Link with the DSCH and USCH included, if they existed before.]

## 8.3.2.2 Successful Operation

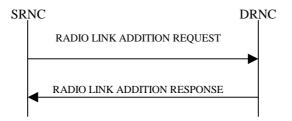


Figure 7: Radio Link Addition procedure: Successful Operation

The procedure is initiated with a RADIO LINK ADDITION REQUEST message sent from the SRNC to the DRNC.

Upon receipt, the DRNS shall reserve the necessary resources and configure the new RL(s) according to the parameters given in the message. Unless specified below, the meaning of parameters is specified in other specifications.

The DRNS shall prioritise resource allocation for the RL(s) to be established according to Annex A.

If the *UE Aggregate Maximum Bit Rate* IE is contained in the RADIO LINK ADDITION REQUEST message, the DRNS shall, if supported, store the received UE Aggregate Maximum Bit Rate parameters to control the aggregate data rate of non GBR traffic for this UE.

#### **Transport Channel Handling:**

[3.84 Mcps TDD – The DRNC shall include the *UL/DL DPCH Information* IE within the *UL/DL CCTrCH Information* IE for each CCTrCH that requires DPCHs.]

[1.28 Mcps TDD – The DRNC shall include the *UL/DL DPCH Information LCR* IE within the *UL/DL CCTrCH Information LCR* IE for each CCTrCH that requires DPCHs.]

[7.68 Mcps TDD – The DRNC shall include the *UL/DL DPCH Information* 7.68 Mcps IE within the *UL/DL CCTrCH Information* 7.68 Mcps IE for each CCTrCH that requires DPCHs.]

#### [TDD – DSCH:]

[3.84 Mcps TDD – If the radio link to be added includes a DSCH, the DRNC shall include in the RADIO LINK ADDITION RESPONSE message a *DSCH Information Response* IE for each DSCH.]

[1.28 Mcps TDD – If the radio link to be added includes a DSCH, the DRNC shall include in the RADIO LINK ADDITION RESPONSE message a *DSCH Information Response LCR* IE for each DSCH.]

[7.68 Mcps TDD – If the radio link to be added includes a DSCH, the DRNC shall include in the RADIO LINK ADDITION RESPONSE message a *DSCH Information Response* 7.68 *Mcps* IE for each DSCH.]

#### [TDD – USCH:]

[3.84 Mcps TDD – If the radio link to be added includes any USCHs, the DRNC shall include in the RADIO LINK ADDITION RESPONSE message a *USCH Information Response* IE for each USCH.]

[1.28 Mcps TDD – If the radio link to be added includes any USCHs, the DRNC shall include in the RADIO LINK ADDITION RESPONSE message a *USCH Information Response LCR* IE for each USCH.]

[7.68 Mcps TDD – If the radio link to be added includes any USCHs, the DRNC shall include in the RADIO LINK ADDITION RESPONSE message a *USCH Information Response* 7.68 *Mcps* IE for each USCH.]

#### **Physical Channels Handling:**

#### [FDD –Compressed Mode:]

[FDD – If the RADIO LINK ADDITION REQUEST message includes the *Active Pattern Sequence Information* IE, the DRNS shall use the information to activate the indicated (all ongoing) Transmission Gap Pattern Sequence(s) in the new RL. The received *CM Configuration Change CFN* IE refers to the latest passed CFN with that value. The DRNS shall treat the received *TGCFN* IEs as follows:]

- [FDD If any received *TGCFN* IE has the same value as the received *CM Configuration Change CFN* IE, the DRNS shall consider the concerned Transmission Gap Pattern Sequence as activated at that CFN.]
- [FDD If any received TGCFN IE does not have the same value as the received CM Configuration Change CFN IE but the first CFN after the CM Configuration Change CFN with a value equal to the TGCFN IE has already passed, the DRNS shall consider the concerned Transmission Gap Pattern Sequence as activated at that CFN.]
- [FDD For all other Transmission Gap Pattern Sequences included in the Active Pattern Sequence Information IE, the DRNS shall activate each Transmission Gap Pattern Sequence at the first CFN after the CM Configuration Change CFN with a value equal to the TGCFN IE for the Transmission Gap Pattern Sequence.]

[FDD – If the RADIO LINK ADDITION REQUEST message includes the *Active Pattern Sequence Information* IE and the concerned UE Context is configured to use F-DPCH in the downlink, the DRNS shall ignore, when activating the Transmission Gap Pattern Sequence(s), the downlink compressed mode method information, if existing, for the concerned Transmission Gap Pattern Sequence(s) in the Compressed Mode Configuration.]

[FDD – If the *Active Pattern Sequence Information* IE is not included, the DRNS shall not activate the ongoing compressed mode pattern in the new RLs, but the ongoing pattern in the existing RL shall be maintained.]

[FDD – If some Transmission Gap Pattern sequences using SF/2 method are initialised in the DRNS and the UE Context is configured to use DPCH in the downlink, the DRNC shall include the *Transmission Gap Pattern Sequence Scrambling Code Information* IE in the *DL Code Information* IE in the RADIO LINK ADDITION RESPONSE message to indicate the Scrambling code change method that it selects for each channelisation code.]

#### [FDD – DL Code Information:]

[FDD – When more than one DL DPDCH are assigned per RL, the segmented physical channel shall be mapped on to DL DPDCHs according to TS 25.211 [8]. When *p* number of DL DPDCHs are assigned to each RL, the first pair of DL Scrambling Code and FDD DL Channelisation Code Number corresponds to "*PhCH number 1*", the second to "*PhCH number 2*", and so on until the *p*th to "*PhCH number p*".]

#### [TDD – CCTrCH Handling:]

[TDD – If the *UL CCTrCH Information* IE is present, the DRNS shall configure the new UL CCTrCH(s) according to the parameters given in the message.]

[1.28Mcps TDD – If the *UL CCTrCH Information* IE includes the *TDD TPC Uplink Step Size* IE, the DRNS shall configure the uplink TPC step size according to the parameters given in the message, otherwise it shall use the step size configured in other radio link.]

[TDD – If the *DL CCTrCH Information* IE is present, the DRNS shall configure the new DL CCTrCH(s) according to the parameters given in the message.]

[TDD – If the *DL CCTrCH Information* IE includes the *TDD TPC Downlink Step Size* IE, the DRNS shall configure the downlink TPC step size according to the parameters given in the message, otherwise it shall use the step size configured in other radio link.]

#### General:

[FDD – The DRNS shall use the provided Uplink SIR Target value as the current target for the inner-loop power control.]

#### **Radio Link Handling:**

#### **Diversity Combination Control:**

The *Diversity Control Field* IE indicates for each RL whether the DRNS shall combine the new RL with existing RL(s) or not on the Iur.

- If the *Diversity Control Field* IE is set to "May" (be combined with another RL), the DRNS shall decide for any of the alternatives.
- If the *Diversity Control Field* IE is set to "Must", the DRNS shall combine the RL with one of the other RL. When a new RL is to be combined the DRNS shall choose which RL(s) to combine it with.
- If the *Diversity Control Field* IE is set to "Must not", the DRNS shall not combine the RL with any other existing RL.

[FDD – The *Diversity Control Field* IE is only applicable for DCHs, in case of E-DCH it shall always be assumed to be set to "May".]

In the case of not combining a RL with a RL established with a previous Radio Link Setup or Radio Link Addition Procedure or a RL previously listed in the RADIO LINK ADDITION RESPONSE message, the DRNC shall indicate with the Diversity Indication in the *RL Information Response* IE in the RADIO LINK ADDITION RESPONSE message that no combining is done. In this case the DRNC shall:

- include in the DCH Information Response IE both the Transport Layer Address IE and the Binding ID IE for the transport bearer to be established for each DCH of the RL in the RADIO LINK ADDITION RESPONSE message [FDD for which the Transport Bearer Not Requested Indicator IE was not included].
- [FDD include in the RADIO LINK ADDITION RESPONSE the *Transport Bearer Not Setup Indicator* IE for every DCH or set of co-ordinated DCHs for which establishment of a transport bearer has not taken place as a result of information in the *Transport Bearer Not Requested Indicator* IE in the RADIO LINK ADDITION REQUEST message.]

[FDD – In case of not combining E-DCH, the *E-DCH FDD Information Response* IE shall be included in the RADIO LINK ADDITION RESPONSE message containing the *Binding ID* IE and the *Transport Layer Address* IE for the establishment of transport bearers for every E-DCH MAC-d flow being established for which the *Transport Bearer Not Requested Indicator* IE was not included.]

[FDD – In case of not combining E-DCH, the DRNC shall include in the RADIO LINK ADDITION RESPONSE the *Transport Bearer Not Setup Indicator* IE for every E-DCH MAC-d flow for which establishment of a transport bearer has not taken place as a result of information in the *Transport Bearer Not Requested Indicator* IE in the RADIO LINK ADDITION REQUEST message.]

In the case of combining with a RL established with a previous Radio Link Setup or Radio Link Addition Procedure or with a RL previously listed in this RADIO LINK ADDITION RESPONSE message, the DRNC shall indicate with the Diversity Indication in the *RL Information Response* IE in the RADIO LINK ADDITION RESPONSE message that the RL is combined. In this case, the *RL ID* IE indicates (one of) the previously established RL(s) or a RL previously listed in this RADIO LINK ADDITION RESPONSE message with which the new RL is combined and if the ALCAP is not used [FDD – and the transport bearer for this DCH is already established], the *Transport Layer Address* IE and the *Binding ID* IE in the *RL Specific DCH Information* IE included in the *RL Information* IE for a specific RL in the RADIO LINK ADDITION REQUEST message, shall not be used.

[FDD – In the case of combining with an E-DCH RL established with a previous Radio Link Setup or Radio Link Addition Procedure or with a RL previously listed in this RADIO LINK ADDITION RESPONSE message, one of the previously established RLs or a RL previously listed in this RADIO LINK ADDITION RESPONSE message including the *E-DCH FDD Information Response* IE and part of the same Radio Link Set shall be regarded as the RL with which the concerned E-DCH RL is combined and if the ALCAP is not used, the *Transport Layer Address* IE and the *Binding ID* IE in the *RL Specific E-DCH Information* IE included in the *RL Information* IE for a specific RL in the RADIO LINK ADDITION REQUEST message, shall not be used. In case E-DCH RL is established for the first time, the DRNC shall include *E-DCH FDD Information Response* IE in the RADIO LINK ADDITION RESPONSE message. It shall include in the *E-DCH FDD Information Response* IE the *Binding ID* IE and *Transport Layer Address* IE for the transport bearers to be established for each E-DCH MAC-d flow of this E-DCH RL for which the *Transport Bearer Not Requested Indicator* IE was not included.]

[FDD – If the RADIO LINK ADDITION REQUEST message includes the *Additional E-DCH Cell Information RL Add Req* IE, then:]

- [FDD if the *Multicell E-DCH Transport Bearer Mode* IE for an Additional E-DCH to be Setup is set to "Separate Iur Transport Bearer Mode" the DRNS shall use this mode in the new configuration and apply separate transport bearers for the MAC-d flows.]
- [FDD if the *Multicell E-DCH Transport Bearer Mode* IE for an Additional E-DCH to be Setup is set to "UL Flow Multiplexing Mode" the DRNS shall use this mode in the new configuration and multiplex MAC-d flows on the transport bearers.]
- [FDD if Separate Iur Transport Bearer Mode is used in the new configuration, then:]
  - [FDD the DRNS shall follow the rules defined in this procedure for single carrier mode of operation for establishment of the transport bearer for a MAC-d flow and use the *Transport Bearer Not Requested Indicator* IE in the *RL Specific E-DCH Information* IE in the *RL Information* IE received for the corresponding Radio Link(s) of the Primary Uplink Frequency to determine the transport bearer configuration in the new configuration for the radio links of the Secondary Uplink Frequency.]
  - [FDD If the Transport Layer Address IE and Binding ID IE is included for an E-DCH MAC-d flow in the Additional E-DCH MAC-d Flows Specific Information IE in the Additional E-DCH RL Specific Information To Setup IE in the Additional E-DCH FDD Setup Information IE in the Additional E-DCH Cell Information Setup IE or in the Additional E-DCH RL Specific Information To Add IE in the Additional E-DCH Cell Information Addition IE, then the DRNS may use the transport layer address and the binding identifier received from the SRNC when establishing a transport bearer for the concerned E-DCH MAC-d flow. If the DRNS establishes a transport bearer for the concerned E-DCH MAC-d flow the DRNS shall, for establishment of the transport bearer, include in the RADIO LINK ADDITION RESPONSE message the Binding ID IE and Transport Layer Address IE in the Additional E-DCH MAC-d Flow Specific Information Response IE in the Additional E-DCH FDD Information Response IE in the Additional E-DCH Cell Information E-DCH Cell Information Response RL Add IE for establishment of the transport bearer.]

[TDD – The DRNC shall always include in the RADIO LINK ADDITION RESPONSE message both the *Transport Layer Address* IE and the *Binding ID* IE for the transport bearer to be established for each DSCH and USCH of the RL.]

In the case of a set of co-ordinated DCHs, the DRNC shall include in the RADIO LINK ADDITION RESPONSE message the *Binding ID* IE and the *Transport Layer Address* IE for only one of the DCHs in the set of co-ordinated DCHs [FDD – for which the *Transport Bearer Not Requested Indicator* IE was not included].

If the DRNS needs to limit the user rate in the uplink of a DCH due to congestion caused by the UL UTRAN Dynamic Resources (see subclause 9.2.1.79) when starting to utilise a new Radio Link, the DRNC shall include in the RADIO LINK ADDITION RESPONSE message the *Allowed UL Rate* IE in the *DCH Information Response* IE for this Radio Link.

If the DRNS needs to limit the user rate in the downlink of a DCH due to congestion caused by the DL UTRAN Dynamic Resources (see subclause 9.2.1.79) when starting to utilise a new Radio Link, the DRNC shall include in the RADIO LINK ADDITION RESPONSE message the *Allowed DL Rate* IE in the *DCH Information Response* IE for this Radio Link.

#### [FDD – Transmit Diversity:]

[FDD – The DRNS shall activate any feedback mode diversity according to the received settings.]

[FDD – If the cell in which the RL is being added is capable to provide Close loop Tx diversity, the DRNC shall indicate the Closed loop timing adjustment mode of the cell by including the *Closed Loop Timing Adjustment Mode* IE in the RADIO LINK ADDITION RESPONSE message.]

[FDD – When the *Transmit Diversity Indicator* IE and/or *Transmit Diversity Indicator* IE in the *HS-DSCH FDD Secondary Serving Information* IE in the *Additional HS Cell Information RL Addition* IE is present the DRNS shall activate/deactivate the Transmit Diversity for each new Radio Link and/or secondary serving HS-DSCH Radio Link in accordance with the *Transmit Diversity Indicator* IE and/or *Transmit Diversity Indicator* IE in the *HS-DSCH FDD Secondary Serving Information* IE using the diversity mode of the existing Radio Link(s) and/or existing secondary serving HS-DSCH Radio Link.]

#### **DL Power Control:**

[FDD – If the *Primary CPICH Ec/No* IE or the *Primary CPICH Ec/No* IE and the *Enhanced Primary CPICH Ec/No* IE measured by the UE are included for an RL in the RADIO LINK ADDITION REQUEST message, the DRNS shall use this in the calculation of the Initial DL TX Power for this RL. If the *Primary CPICH Ec/No* IE is not present, the DRNS shall set the Initial DL TX Power based on the power relative to the Primary CPICH power used by the existing RLs.]

[TDD – If [3.84Mcps TDD and 7.68 Mcps TDD – the *DL Time Slot ISCP Info* IE] [1.28Mcps TDD – the *DL Time Slot ISCP Info LCR* IE] is included in the RADIO LINK ADDITION REQUEST message, the DRNS shall use it in the calculation of the Initial DL TX Power.]

[TDD – If the *Primary CCPCH RSCP Delta* IE is included, the DRNS shall assume that the reported value for Primary CCPCH RSCP is in the negative range as per TS 25.123 [24], and the value is equal to the *Primary CCPCH RSCP Delta* IE. If the *Primary CCPCH RSCP Delta* IE is not included and the *Primary CCPCH RSCP* IE is included, the DRNS shall assume that the reported value is in the non-negative range as per TS 25.123 [24], and the value is equal to the *Primary CCPCH RSCP* IE is included, the DRNS shall assume that the reported value is in the non-negative range as per TS 25.123 [24], and the value is equal to the *Primary CCPCH RSCP* IE. The DRNS shall use it in the calculation of the Initial DL TX Power.]

[TDD – If the *Primary CCPCH RSCP* IE, *Primary CCPCH RSCP Delta* IE, [3.84Mcps TDD and 7.68 Mcps TDD – and the *DL Time Slot ISCP Info* IE] [1.28Mcps TDD – and the *DL Time Slot ISCP Info* LCR IE] are not present, the DRNS shall set the Initial DL TX Power based on the power relative to the Primary CCPCH power used by the existing RL.]

[FDD – The Initial DL TX Power shall be applied until UL synchronisation is achieved on the Uu interface for that RLS or Power Balancing is activated. No inner loop power control or power balancing shall be performed during this period. The DL power shall then vary according to the inner loop power control (see ref. TS 25.214 [10] subclause 5.2.1.2) and the power control procedure (see 8.3.7).]

[TDD – The Initial DL TX Power shall be applied until UL synchronisation is achieved on the Uu interface for that RL. No inner loop power control shall be performed during this period. The DL power shall then vary according to the inner loop power control (see ref. TS 25.224 [22] subclause 4.2.3.3).]

[3.84 Mcps TDD and 7.68 Mcps TDD – The DL TX power upper and lower limit is configured in the following way: The DRNC shall include the *Maximum DL TX Power* IE and *Minimum DL TX Power* IE in the RADIO LINK ADDITION RESPONSE message. If the maximum or minimum power needs to be different for particular DCH type CCTrCHs, the DRNC shall include the value(s) for that CCTrCH in the *CCTrCH Maximum DL TX Power* IE and *CCTrCH Minimum DL TX Power*. The DRNS shall not transmit with a higher power than indicated by the appropriate *Maximum DL TX Power* IE/*CCTrCH Maximum DL TX Power* IE or lower than indicated by the appropriate *Minimum DL TX Power* IE/*CCTrCH Minimum DL TX Power* IE on any DL DPCH within each CCTrCH of the RL.]

[1.28 Mcps TDD – The DL TX power upper and lower limit is configured in the following way: The DRNC shall include the *Maximum DL TX Power* IE and *Minimum DL TX Power* IE in the RADIO LINK

ADDITION RESPONSE message. If the maximum or minimum power needs to be different for particular timeslots within a DCH type CCTrCH, the DRNC shall include the value(s) for that timeslot in the *Maximum DL TX Power* IE and *Minimum DL TX Power* within the *DL Timeslot Information LCR* IE. The DRNS shall not transmit with a higher power than indicated by the appropriate *Maximum DL TX Power* IE or lower than indicated by the appropriate *Minimum DL TX Power* IE on any DL DPCH within each timeslot of the RL.]

[FDD – If the *DPC Mode* IE is present in the RADIO LINK ADDITION REQUEST message, the DRNC shall apply the DPC mode indicated in the message, and be prepared that the DPC mode may be changed during the lifetime of the RL. If the *DPC Mode* IE is not present in the RADIO LINK ADDITION REQUEST message, DPC mode 0 shall be applied (see ref. TS 25.214 [10]).]

The DRNC shall provide the configured *Maximum DL TX Power* IE and *Minimum DL TX Power* IE for every new RL to the SRNC in the RADIO LINK ADDITION RESPONSE message. The DRNS shall not transmit with a power higher than indicated by the *Maximum DL TX Power* IE or lower than indicated by the *Minimum DL TX Power* IE on any DL DPCH [FDD – or on the F-DPCH] of the RL [FDD – except, if the UE Context is configured to use DPCH in the downlink, during compressed mode, when the  $\delta P_{curr}$ , as described in ref. TS 25.214 [10] subclause 5.2.1.3, shall be added to the maximum DL power for the associated compressed frame.]

[FDD – If the power balancing is active with the Power Balancing Adjustment Type of the UE Context set to "Individual" in the existing RL(s) and the RADIO LINK ADDITION REQUEST message includes the *DL Reference Power* IE, the DRNS shall activate the power balancing and use the *DL Reference Power* IE for the power balancing procedure in the new RL(s), if activation of power balancing by the RADIO LINK ADDITION REQUEST message is supported by the DRNS, according to subclause 8.3.15. In this case, the DRNC shall include the *DL Power Balancing Activation Indicator* IE in the *RL Information Response* IE in the RADIO LINK ADDITION RESPONSE message. If the DRNS starts the DL transmission and the activation of the power balancing at the same CFN, the initial power of the power balancing, i.e. *P<sub>init</sub>* shall be set to the power level which is calculated based on the *Primary CPICH Ec/No* IE or the *Enhanced Primary CPICH Ec/No* IE (if received), or to the power level which is calculated based on the power relative to the Primary CPICH power used by the existing RLs.]

#### **UL Power Control:**

The DRNC shall also provide the configured UL Maximum SIR and UL Minimum SIR for every new RL to the SRNC in the RADIO LINK ADDITION RESPONSE message. These values are taken into consideration by DRNS admission control and shall be used by the SRNC as limits for the UL inner-loop power control target.

#### **Neighbouring Cell Handling:**

If there are UMTS neighbouring cell(s) to the cell in which a Radio Link was established then:

- The DRNC shall include in the RADIO LINK ADDITION RESPONSE message the *Neighbouring FDD Cell Information* IE and/or *Neighbouring TDD Cell Information* IE in the *Neighbouring UMTS Cell Information* IE for each neighbouring FDD cell and/or TDD cell respectively. In addition, if the information is available, the DRNC shall include in the RADIO LINK ADDITION RESPONSE message the *Frame Offset* IE, *Primary CPICH Power* IE, *Cell Individual Offset* IE, *STTD Support Indicator* IE, *Closed Loop Mode1 Support Indicator* IE, *Coverage Indicator* IE, *Antenna Co-location Indicator* IE and *HCS Prio* IE in the *Neighbouring FDD Cell Information* IE, and the *Frame Offset* IE, *Cell Individual Offset* IE, *DPCH Constant Value* IE and the *PCCPCH Power* IE, *Coverage Indicator* IE, *Antenna Colocation Indicator* IE and *HCS Prio* IE in the *Neighbouring TDD Cell Information* IE or the *Neighbouring TDD Cell Information LCR* IE. If the *Neighbouring TDD Cell Information* IE includes the *Sync Case* IE set to "Case1", the DRNC shall include the *Time SlotFor SCH* IE in the *Neighbouring TDD Cell Information* IE. If the *Neighbouring TDD Cell Information* IE includes the Sync Case IE set to "Case2", the DRNC shall include the *SCH Time Slot* IE in the *Neighbouring TDD Cell Information* IE.
- If a UMTS neighbouring cell is not controlled by the same DRNC, the DRNC shall also include in the RADIO LINK ADDITION RESPONSE message the *CN PS Domain Identifier* IE and/or *CN CS Domain Identifier* IE which are the identifiers of the CN nodes connected to the RNC controlling the UMTS neighbouring cell.
- [FDD The DRNC shall include in the RADIO LINK ADDITION RESPONSE message the *DPC Mode Change Support Indicator* IE for each neighbour cell in the *Neighbouring FDD Cell Information* IE if this information is available.]

- The DRNC shall include the *Cell Capability Container FDD* IE, the *Cell Capability Container TDD* IE, *Cell Capability Container 7.68Mcps TDD* IE, the *Cell Capability Container TDD LCR* IE and/or the *Cell Capability Container Extension FDD* IE if the DRNC is aware that the neighbouring cell supports any functionality listed in 9.2.2.D, 9.2.3.1a, 9.2.3.1b and 9.2.2.123.
- [FDD The DRNC shall, if supported, include the *Cell List Validity Indicator* IE if the neighbouring cell is multi cell capable and/or dual band capable but the cell can not be the serving HS-DSCH in a multicell and/or dual band configuration. Hence the cell can only serve as the secondary serving HS-DSCH cell. When *Cell List Validity Indicator* IE is included the SRNC should ignore the indicated cell list(s).]
- For the UMTS neighbouring cells which are controlled by the DRNC, the DRNC shall report in the RADIO LINK ADDITION RESPONSE message the restriction state of those cells, otherwise *Restriction State Indicator* IE may be absent. The DRNC shall include the *Restriction State Indicator* IE for the neighbouring cells which are controlled by the DRNC in the *Neighbouring FDD Cell Information* IE, the *Neighbouring TDD Cell Information* IE and the *Neighbouring TDD Cell Information LCR* IE.
- If available, the DRNC shall include the *SNA Information* IE for the concerned neighbouring cells in the *Neighbouring FDD Cell Information* IE, the *Neighbouring TDD Cell Information* IE and the *Neighbouring TDD Cell Information LCR* IE.
- If MOCN or GWCN network sharing configuration is used then the DRNC shall include the broadcasted PLMN identities of concerned neighbouring cells in the *Multiple PLMN List* IE in the *Neighbouring FDD Cell Information* IE, the *Neighbouring TDD Cell Information* IE and the *Neighbouring TDD Cell Information LCR* IE.
- If available, the DRNC shall include the *Frequency Band Indicator* IE for the concerned neighbouring cells in the *Neighbouring FDD Cell Information* IE.

If there are GSM neighbouring cells to the cell(s) in which a radio link is established, the DRNC shall include the *Neighbouring GSM Cell Information* IE in the RADIO LINK ADDITION RESPONSE message for each of the GSM neighbouring cells. If available the DRNC shall include the *Cell Individual Offset* IE, and if the *Cell Individual Offset* IE alone cannot represent the value of the offset, the DRNC shall also include the *Extended GSM Cell Individual Offset* IE in the *Neighbouring GSM Cell Information IE*. If available the DRNC shall also include the *Coverage Indicator* IE, *Antenna Co-location Indicator* IE and *HCS Prio* IE in the *Neighbouring GSM Cell Information* IE. If available, the DRNC shall also include the *SNA Information* IE for the concerned neighbouring cells in the *Neighbouring GSM Cell Information* IE.

When receiving the *SNA Information* IE in the RADIO LINK ADDITION RESPONSE message, the SRNC should use it to restrict cell access based on SNA information. See also TS 25.401 [40] for a broader description of the SNA access control.

If there are GERAN neighbouring cells to the cell(s) where a radio link is established, the DRNC shall include the *GERAN Cell Capability* IE in the *Neighbouring GSM Cell Information* IE that is included in the RADIO LINK ADDITION RESPONSE message for each of the GERAN cells.

If there are GERAN Iu-mode neighbouring cells to the cell(s) where a radio link is established, the DRNC shall include, if available, the *GERAN Classmark* IE in the *Neighbouring GSM Cell Information* IE that is included in the RADIO LINK ADDITION RESPONSE message for each of the GERAN Iu-mode neighbouring cells. Ref. TS 43.051 [39] defines when the transmission of the *GERAN Classmark* IE will be required at the initiation of the Relocation Preparation procedure.

If there are E-UTRA neighbouring cells to the cell(s) in which a radio link is established, the DRNC shall include the *Neighbouring E-UTRA Cell Information* IE in the RADIO LINK ADDITION RESPONSE message for each of the E-UTRA neighbouring cells.

#### [1.28Mcps TDD – Uplink Synchronisation Parameters LCR:]

[1.28Mcps TDD – If the *Uplink Synchronisation Parameters LCR* IE is present, the DRNC shall use the indicated values of *Uplink synchronisation stepsize* IE and *Uplink synchronisation frequency* IE when evaluating the timing of the UL synchronisation.]

#### [1.28Mcps TDD – Shared physical channels Synchronisation Detection:]

[1.28Mcps TDD – If HS-PDSCH and E-PUCH are configured but no DPCH is configured for the UE, then the DRNS shall include the *Out-of-sync Detection Window* IE in the *HS-DSCH TDD Information Response* IE in the RADIO LINK ADDITON RESPONSE message.]

#### [1.28Mcps TDD – Uplink Timing Advance Control LCR:]

[1.28Mcps TDD – The DRNC shall include the *Uplink Timing Advance Control LCR* IE in the RADIO LINK ADDITION RESPONSE message.]

#### [1.28Mcps TDD – PowerControl GAP:]

[1.28Mcps TDD – If applied in the DRNS, the DRNC may include the *PowerControl GAP* IE in the RADIO LINK ADDITION RESPONSE message.]

#### [1.28Mcps TDD – E-UTRAN Inter-RAT measurement:]

[1.28Mcps TDD – If the RADIO LINK ADDITION REQUEST message includes the *Idle Interval Configuration Indicator* IE, if supported, the DRNC shall include the *Idle Interval Information* IE in the RADIO LINK ADDITION RESPONSE message.]

#### [1.28Mcps TDD – Inter-frequency/ Inter-RAT measurement:]

[1.28Mcps TDD – If the RADIO LINK ADDTION REQUEST message includes the *DCH Measurement Type indicator* IE, if supported, the DRNS shall include the *Measurement purpose* IE and the *Measurement occasion pattern sequence parameters* IE in the *DCH Measurement Occasion Information* IE in the RADIO LINK ADDTION RESPONSE message to configure the measurement occasion pattern(s) indicated by the *DCH Measurement Type indicator* IE.]

#### **MBMS Handling:**

If the UE Link is currently stored in the UE Context and an MBMS session for some MBMS bearer services contained in the UE Link is ongoing in some of the cells identified by the *C-ID* IEs in the RADIO LINK ADDITION REQUEST message, the DRNC shall include for each of these active MBMS bearer services in the *Active MBMS Bearer Service List* IE the *Transmission Mode* IE in the concerned *RL Information Response* IEs in the RADIO LINK ADDITION RESPONSE message.

If the UE Link is currently stored in the UE Context and an MBMS preferred frequency layer for some active MBMS bearer services contained in the UE Link is set in some of the cells identified by the *C-ID* IEs in the RADIO LINK ADDITION REQUEST message, the DRNC shall include for each of these active MBMS bearer services in the *Active MBMS Bearer Service List* IE the *Preferred Frequency Layer* IE in the concerned *RL Information Response* IEs in the RADIO LINK ADDITION RESPONSE message.

#### [FDD – HS-DSCH Preconfiguration for Enhanced HS Serving Cell Change]

[FDD – If the RADIO LINK ADDITION REQUEST message includes the *HS-DSCH Preconfiguration Setup* IE in the *RL Information* IE for a Radio Link not indicated by the *HS-PDSCH RL ID* IE in the *HS-DSCH Serving Cell Change Information* IE the DRNS shall, if supported, preconfigure the indicated cells for Enhanced HS Serving Cell Change according to TS 25.308 [63]:]

- [FDD The DRNS shall preconfigure sets of HS-SCCH codes on the cells preconfigured for HS-DSCH, primary serving HS-DSCH cell, as well as on the secondary serving HS-DSCH cells. The primary serving HS-DSCH cell is designated through the *C-ID* IE part of the *RL Information* IE in the RADIO LINK ADDITION REQUEST message. The list of secondary serving HS-DSCH cells is designated by the list of *Secondary C-ID* Iesin the *HS-DSCH Preconfiguration Setup* IE part of the *RL Information* IE in the RADIO LINK ADDITION REQUEST message. ]
- [FDD The number of HS-SCCH codes to preconfigure for each cell may be optionally specified: ]
  - [FDD by the *Num Primary HS-SCCH Codes* IE in the *HS-DSCH Preconfiguration Setup* IE, for the primary serving HS-DSCH cell]
  - [FDD by the *Num Secondary HS-SCCH Codes* IE in *the Secondary Cells* IE in the *HS-DSCH Preconfiguration Setup* IE for each of the secondary serving HS-DSCH cells]

- [FDD If Num Primary HS-SCCH Codes IE or Num Secondary HS-SCCH Codes IE is not included in the message the number and distribution of codes on primary and any secondary cells shall be preconfigured to satisfy any limitations in TS 25.214 [10].]
- [FDD The DRNS shall return these codes in the Sets of HS-SCCH Codes IE along with the corresponding per- cell HS-DSCH-RNTI IE in the HS-DSCH Preconfiguration Info IE in the RL Information Response IE of the RADIO LINK ADDITION RESPONSE message or in the Successful RL Information Response IE of the RADIO LINK ADDITION FAILURE message.]
- [FDD The DRNS shall use the first in the numbered list the primary serving HS-DSCH cell's of HS-SCCH codes in the HS-SCCH Preconfigured Codes IE sent to the SRNC to signal the Target Cell HS-SCCH Order defined in ITU-T Rec. X.680 [18]].
- [FDD The DRNS shall include, in the HS-DSCH Preconfiguration Info IE in the RL Information Response IE in the RADIO LINK ADDITION RESPONSE message or in the Successful RL Information Response IE of the RADIO LINK ADDITION FAILURE message, IEs according to the rules defined for HS-DSCH Setup at Serving HS-DSCH Radio Link Change and:]
  - [FDD if *HARQ Preamble Mode* IE is included in the *HS-DSCH Preconfiguration Setup* IE the *HARQ Preamble Mode Activation Indicator* IE]
  - [FDD if *MIMO Activation Indicator* IE is included in the *HS-DSCH Preconfiguration Setup* IE or in the *Secondary Cells* IE in the *HS-DSCH Preconfiguration Setup* IE the Pilot Configuration and MIMO N/M Ratio in *MIMO Information Response* IE]
  - [FDD if *HS-DSCH MAC-d PDU Size Format* IE is included in the *HS-DSCH Preconfiguration Setup* IE and set to "Flexible MAC-d PDU Size" and if Sixtyfour QAM will not be used for the cell in the preconfiguration the *HS-DSCH TB Size Table Indicator* IE for each preconfigured cell.]
  - [FDD if Sixtyfour QAM Usage Allowed Indicator IE is included in the Secondary Cells IE in the HS-DSCH Preconfiguration Setup IE or in the HS-DSCH Preconfiguration Setup IE the SixtyfourQAM DL Usage Indicator IE for each preconfigured cell]
  - [FDD if Continuous Packet Connectivity HS-SCCH less Information IE is included in the HS-DSCH Preconfiguration Setup IE the Continuous Packet Connectivity HS-SCCH less Information Response IE]
  - [FDD if the *UE with enhanced HS-SCCH support indicator* IE is included in the *HS-DSCH Preconfiguration Setup* IE, then the DRNS shall store this information in the preconfigured configuration.]
  - [FDD If the UE Support Indicator Extension IE is included in the HS-DSCH Preconfiguration Setup IE with the bit UE DTXDRX related HS-SCCH orders uniform behavior indicator set to 0, then the DRNS shall, if supported, include the Support of dynamic DTXDRX related HS-SCCH order IE in the HS-DSCH Preconfiguration Info IE in the RADIO LINK ADDITION RESPONSE message.]
  - [FDD the *SixtyfourQAM DL Support Indicator* IE may be included]
  - [FDD If the *UE Support Indicator Extension* IE is included in the *HS-DSCH Preconfiguration Setup* IE, then the DRNS may store this information in the preconfigured configuration.]
  - [FDD the DRNS shall, if supported, include in the *Sets of HS-SCCH Codes* IE the *Measurement Power Offset* IE for each preconfigured cell.]
- [FDD If the Power Offset For S-CPICH for MIMO Request Indicator IE is included in the HS-DSCH Preconfiguration Setup IE or in the Secondary Cells IE in the HS-DSCH Preconfiguration Setup IE, the DRNC shall, if supported and MIMO pilot configuration with Primary and Secondary CPICH is set up with a non-zero power offset on the cell where HS-DSCH / secondary HS-DSCH is preconfigured, include the Power Offset For S-CPICH for MIMO IE in the HS-DSCH Preconfiguration Info IE or in the Sets of HS-SCCH Codes IE in the HS-DSCH Preconfiguration Info IE for each preconfigured cell in the RADIO LINK ADDITION RESPONSE message. If zero power offset the DRNC may include the Power Offset For S-CPICH for MIMO IE.]

[FDD – The DRNS shall include in the *HS-DSCH Preconfiguration Info* IE in the *RL Information Response* IE in the RADIO LINK ADDITION RESPONSE message or in the *Successful RL Information Response* IE

of the RADIO LINK ADDITION FAILURE message the *E-DCH FDD DL Control Channel Information* containing the preconfigured configuration of the E-DCH serving cell according to the rules defined for Serving E-DCH Radio Link Change as follows:]

- [FDD The DRNS shall allocate for the preconfigured configuration a primary E-RNTI identifier or a secondary E-RNTI identifier or both for the new Serving E-DCH Radio Link and include these E-RNTI identifiers along with the channelisation code of the corresponding E-AGCH in the *E-DCH FDD DL Control Channel Information* IE.]
- [FDD The DRNS may preconfigure the *Serving Grant Value* IE and *Primary/Secondary Grant Selector* IE for the initial grant for the serving E-DCH RL and include these values in the *E-DCH FDD DL Control Channel Information* IE.]

[FDD – If the *HS-DSCH Preconfiguration Setup* IE includes the *E-DCH Indicator* IE for a secondary cell, the DRNS shall include in the *Additional E-DCH Preconfiguration Information* IE in the *HS-DSCH Preconfiguration Info* IE in the *RL Information Response* IE in the RADIO LINK ADDITION RESPONSE message or in the *Successful RL Information Response* IE of the RADIO LINK ADDITION FAILURE message the *E-DCH FDD DL Control Channel Information* IE containing the preconfiguration of the Additional E-DCH serving cell, corresponding to the cell indicated with the *E-DCH Indicator* IE, according to the rules defined for Serving Additional E-DCH Radio Link Change as follows:]

- [FDD The DRNS shall allocate for the preconfigured configuration a primary E-RNTI identifier or a secondary E-RNTI identifier or both for the new Serving Additional E-DCH Radio Link and include these E-RNTI identifiers along with the channelisation code of the corresponding *E-AGCH in the E-DCH FDD DL Control Channel Information* IE.]
- [FDD The DRNS may preconfigure the Serving Grant Value IE and Primary/Secondary Grant Selector IE for the initial grant for the serving Additional E-DCH RL and include these values in the E-DCH FDD DL Control Channel Information IE.]

[FDD – If the RADIO LINK ADDITION REQUEST message includes the *Non-Serving RL Preconfiguration Setup* IE in the *RL Information* IE and:]

- [FDD if the choice of new Serving RL is "New Serving RL in the DRNS", the DRNC may include the New non-serving RL E-DCH FDD DL Control Channel Information A IE and/or New non-serving RL E-DCH FDD DL Control Channel Information B IE in the Non-Serving RL Preconfiguration Info IE for the RL in the RADIO LINK ADDITION RESPONSE message.]
- [FDD if the choice of *new Serving RL* is "New Serving RL Not in the DRNS", the DRNC may include the *New non-serving RL E-DCH FDD DL Control Channel Information C* IE in the *Non-Serving RL Preconfiguration Info* IE for the RL in the RADIO LINK ADDITION RESPONSE message.]
- [FDD if the choice of new Serving RL is "New Serving RL in the DRNS or New Serving RL Not in the DRNS", the DRNC may include the New non-serving RL E-DCH FDD DL Control Channel Information A IE, the New non-serving E-DCH FDD DL Control Channel Information B IE and/or the New non-serving E-DCH FDD DL Control Channel Information C for the RL in the Non-Serving RL Preconfiguration Info IE in the RADIO LINK ADDITION RESPONSE message.]

- [FDD – if the Additional E-DCH Non-Serving RL Preconfiguration Setup IE is included, the DRNC may include the New non-serving RL E-DCH FDD DL Control Channel Information A IE, the New non-serving RL E-DCH FDD DL Control Channel Information B IE and/or the New non-serving RL E-DCH FDD DL Control Channel Information C IE according to the choice of new Serving RL in Additional E-DCH New non-serving RL E-DCH FDD DL Control Channel Information IE for the additional non serving E-DCH RL in the Non-Serving RL Preconfiguration Info IE in the RADIO LINK ADDITION RESPONSE message.]

#### General:

If the RADIO LINK ADDITION REQUEST message includes the *RL Specific DCH Information* IE, the DRNC may use the transport layer address and the binding identifier received from the SRNC when establishing a transport bearer for the DCH or the set of co-ordinated DCHs [FDD – for which the *Transport Bearer Not Requested Indicator* IE was not included].

[FDD – If the RADIO LINK ADDITION REQUEST message includes the *Transport Bearer Not Requested Indicator* IE set to "Transport Bearer shall not be Established" for a DCH, then the DRNC shall not establish a transport bearer for the concerned DCH and shall include the *Transport Bearer Not Setup Indicator* IE for the corresponding DCH in the RADIO LINK ADDITION RESPONSE message.]

[FDD – If the RADIO LINK ADDITION REQUEST message includes the *Transport Bearer Not Requested Indicator* IE set to "Transport Bearer may not be Established" for a DCH and:]

- [FDD if the DRNC establishes a transport bearer for the concerned DCH, the DRNC shall include in the RADIO LINK ADDITION RESPONSE message the *Binding ID* IE and *Transport Layer Address* IE for establishment of a transport bearer for the DCH being established.]
- [FDD if the DRNC does not establish a transport bearer for the concerned DCH, the DRNC shall
  include the *Transport Bearer Not Setup Indicator* IE for the corresponding DCH in the RADIO LINK
  ADDITION RESPONSE message.]

Depending on local configuration in the DRNS, the DRNC may include in the RADIO LINK ADDITION RESPONSE message the *UTRAN Access Point Position* IE and the geographical co-ordinates of the cell, represented either by the *Cell GAI* IE or by the *Cell GA Additional Shapes* IE. If the DRNC includes the *Cell GA Additional Shapes* IE in the RADIO LINK ADDITION RESPONSE message, it shall also include the *Cell GAI* IE.

For each Radio Link established in a cell in which at least one URA Identity is being broadcast, the DRNC shall include in the RADIO LINK ADDITION RESPONSE message a URA Information for this cell including the *URA ID* IE, the *Multiple URAs Indicator* IE indicating whether or not multiple URA Identities are being broadcast in the cell, and the *RNC-ID* IEs of all other RNCs that have at least one cell within the URA identified by the *URA ID* IE.

[3.84Mcps TDD – The DRNC shall include the *Secondary CCPCH Info TDD* IE in the RADIO LINK ADDITION RESPONSE message if at least one *DSCH Information Response* IE or *USCH Information Response* IE is included in the message and at least one DCH is configured for the radio link. The DRNC shall also include the *Secondary CCPCH Info TDD* IE in the RADIO LINK ADDITION RESPONSE message if at least one *DSCH Information Response* IE is included in the message and the secondary *CCPCH Info TDD* IE or *USCH Information Response* IE is included in the message and the SHCCH messages for this radio link will be transmitted over a different secondary CCPCH than selected by the UE from system information.]

[1.28 Mcps TDD – The DRNC shall include the *Secondary CCPCH Info TDD LCR* IE in the RADIO LINK ADDITION RESPONSE message if at least one *DSCH Information Response LCR* IE or *USCH Information Response LCR* IE is included in the message and at least one DCH is configured for the radio link. The DRNC shall also include the *Secondary CCPCH Info TDD LCR* IE in the RADIO LINK ADDITION RESPONSE message if at least one *DSCH Information Response LCR* IE or *USCH Information Response LCR* IE is included in the message and the SHCCH Info TDD LCR IE in the RADIO LINK ADDITION RESPONSE message if at least one *DSCH Information Response LCR* IE or *USCH Information Response LCR* IE is included in the message and the SHCCH messages for this radio link will be transmitted over a different secondary CCPCH than selected by the UE from system information.]

[7.68 Mcps TDD – The DRNC shall include the Secondary CCPCH Info 7.68 Mcps TDD IE in the RADIO LINK ADDITION RESPONSE message if at least one DSCH Information Response 7.68 Mcps IE or USCH Information Response 7.68 Mcps IE is included in the message and at least one DCH is configured for the radio link. The DRNC shall also include the Secondary CCPCH Info 7.68 Mcps TDD IE in the RADIO LINK ADDITION RESPONSE message if at least one DSCH Information Response 7.68 Mcps IE or USCH Information Response 7.68 Mcps IE is included in the message and the SHCCH message of USCH Information Response 7.68 Mcps IE is included in the message and the SHCCH messages for this radio link will be transmitted over a different secondary CCPCH than selected by the UE from system information.]

If the *Permanent NAS UE Identity* IE is present in the RADIO LINK ADDITION REQUEST message, the DRNS shall store the information for the considered UE Context for the lifetime of the UE Context.

If the RADIO LINK ADDITION REQUEST message includes a *C-ID* IE corresponding to a cell reserved for operator use and the Permanent NAS UE Identity is available in the DRNC for the considered UE Context, the DRNC shall use this information to determine whether it can add the Radio Link on this cell or not.

If the HCS priority information is available in the DRNS, it shall include the *HCS Prio* IE for each of the established RLs in the RADIO LINK ADDITION RESPONSE message.

The DRNS shall start receiving on the new RL(s) after the RLs are successfully established.

[FDD – If the RADIO LINK ADDITION REQUEST message includes the *Initial DL DPCH Timing Adjustment Allowed* IE, then the DRNS may perform an initial DL DPCH Timing Adjustment (i.e. perform a timing advance or a timing delay with respect to the SFN timing) on a Radio Link. In this case, the DRNS shall include, for the concerned Radio Link(s), the *Initial DL DPCH Timing Adjustment* IE in the *Radio Link Information Response* IE in the RADIO LINK ADDITION RESPONSE message.]

[FDD – If the RADIO LINK ADDITION REQUEST message includes the *Synchronisation Indicator* IE, set to "Timing Maintained Synchronisation", the DRNS shall use synchronisation procedure B according to subclause 4.3.2.4 in TS 25.214 [10]. The DRNS shall select the TPC pattern as if "first RLS indicator" is set to "first RLS" according to subclause 5.1.2.2.1.2 in TS 25.214 [10].]

[FDD – If the UE Context is configured for F-DPCH Slot Format operation, then the DRNS shall include the *F-DPCH Slot Format* IE in the RADIO LINK ADDITION RESPONSE message.]

#### [FDD – Radio Link Set Handling:]

[FDD – For each RL not having a common generation of the TPC commands in the DL with another RL, the DRNS shall assign to the RL a unique value for the *RL Set ID* IE which uniquely identifies the RL as an RL Set within the UE Context. In case of E-DCH, the generation of E-HICH information for RLs in different RL Sets shall not be common.]

[FDD – For all RLs having a common generation of the TPC commands in the DL with another new or existing RL, the DRNS shall assign to each RL the same value for the *RL Set ID* IE which uniquely identifies these RLs as members of the same RL Set within the UE Context. In case of E-DCH, the generation of E-HICH related information for all RLs in a RL Set shall be common.]

[FDD – After addition of the new RL(s), the UL out-of-sync algorithm defined in ref. TS 25.214 [10] shall, for each of the previously existing and newly established RL Set(s), use the maximum value of the parameters N\_OUTSYNC\_IND and T\_RLFAILURE that are configured in the cells supporting the radio links of the RL Set. The UL in-sync algorithm defined in TS 25.214 [10] shall, for each of the established RL Set(s), use the minimum value of the parameters N\_INSYNC\_IND that are configured in the cells supporting the radio links of the RL Set.]

[FDD – For each E-DCH RL which has or can have a common generation of E-RGCH information with another RL (current or future) when the DRNS would contain the E-DCH serving RL, the DRNS shall include the *E-DCH RL Set ID* IE in the RADIO LINK ADDITION RESPONSE message. The value of the *E-DCH RL Set ID* IE shall allow the SRNC to identify the E-DCH RLs that have or can have a common generation of E-RGCH information.]

#### [FDD – Serving HS-DSCH Radio Link Change:]

[FDD – If the RADIO LINK ADDITION REQUEST message includes the *HS-DSCH Serving Cell Change Information* IE, then the *HS-PDSCH RL ID* IE indicates the new Serving HS-DSCH Radio Link:]

- [FDD In the new configuration the DRNS shall allocate the HS-PDSCH resources for the new Serving HS-PDSCH Radio Link.]
- [FDD The DRNS may include the *HARQ Memory Partitioning* IE in the *HS-DSCH FDD Information Response* IE in the RADIO LINK ADDITION RESPONSE message. The *HARQ Memory Partitioning* IE may contain the *HARQ Memory Partitioning Information Extension For MIMO* IE.]
- [FDD If fields are to be included in the User Plane by the SRNC to handle TNL Congestion Control for HSDPA in the DRNS, then the DRNC shall include the *User Plane Congestion Fields Inclusion* IE in the *HS-DSCH Information Response* IE.]
- [FDD The DRNC shall allocate a new HS-DSCH-RNTI to the UE Context and include the *HS-DSCH-RNTI* IE in the RADIO LINK ADDITION RESPONSE message.]
- [FDD If a reset of the MAC-hs is not required the DRNS shall include the *MAC-hs Reset Indicator* IE in the RADIO LINK ADDITION RESPONSE message.]
- [FDD The DRNC shall include the *Measurement Power Offset* IE in the *HS-DSCH Information Response* IE in the RADIO LINK ADDITION RESPONSE message.]

- [FDD The DRNS shall allocate HS-SCCH codes corresponding to the HS-DSCH and include the HS-SCCH Specific Information Response IE in the HS-DSCH FDD Information Response IE in the RADIO LINK ADDITION RESPONSE message.]
- [FDD The DRNC shall include the *HS-PDSCH And HS-SCCH Scrambling Code* IE in the *HS-DSCH FDD Information Response* IE in the RADIO LINK ADDITION RESPONSE message.]
- If the *TNL QoS* IE is included for a MAC-d flow and if ALCAP is not used, the *TNL QoS* IE may be used by the DRNS to determine the transport bearer characteristics to apply in the uplink between the DRNS and the SRNC for the related MAC-d flow.
- [FDD If the HS-DSCH Serving Cell Change Information IE includes the Continuous Packet Connectivity HS-SCCH less Information IE, then:]
  - [FDD The DRNS shall configure the Serving HS-DSCH Radio Link indicated by the *HS-PDSCH RL ID* IE for Continuous Packet Connectivity HS-SCCH less operation according to TS 25.214 [10].]
  - [FDD The DRNS shall allocate the HS-PDSCH codes needed for HS-SCCH less operation and include the *Continuous Packet Connectivity HS-SCCH less Information Response* IE in the RADIO LINK ADDITION RESPONSE message.]
  - [FDD If at least one of *HS-PDSCH Second Code Support* IE is set to "True", then the DRNC shall include *HS-PDSCH Second Code Index* IE in the RADIO LINK ADDITION RESPONSE message.]
- [FDD If the HS-DSCH Serving Cell Change Information IE includes the Continuous Packet Connectivity DTX-DRX Information IE, then:]
  - [FDD The DRNS shall configure the concerned UE Context for Continuous Packet Connectivity DTX operation according to TS 25.214 [10].]
  - [FDD If DRX Information IE is included in the Continuous Packet Connectivity DTX-DRX Information IE, then the DRNS shall configure the concerned UE Context for Continuous Packet Connectivity DRX operation according to TS 25.214 [10].]
- [FDD If the UE Context is configured with Sixtyfour QAM allowed for the serving HS-DSCH Radio Link and not used in the current configuration and then if the DRNS decides to use 64 QAM in the new configuration, then it shall include the *SixtyfourQAM DL Usage Indicator* IE in the *HS-DSCH FDD Information Response* IE in the RADIO LINK ADDITION RESPONSE message.]
- [FDD If MAC-ehs is applied in the new configuration, and if Sixtyfour QAM will not be used, the DRNS shall
  include the *HS-DSCH TB Size Table Indicator* IE in the *HS-DSCH FDD Information Response* IE in the *HS-DSCH Serving Cell Change Information Response* IE in the RADIO LINK ADDITION RESPONSE message if
  it decides to use the octet aligned table defined in TS 25.321 [41] for HS-DSCH Transport Block Size
  signalling.]

#### [FDD – HS-DSCH Setup on a New Radio Link at Serving HS-DSCH Radio Link Change:]

[FDD – If the *HS-DSCH Information* IE is present in the *HS-DSCH Serving Cell Change Information* IE, then:]

- [FDD The DRNS shall setup the requested HS-PDSCH resources on the Serving HS-DSCH Radio Link indicated by the HS-PDSCH RL ID IE.]
- [FDD the *HS-DSCH Information* IE defines the new HS-DSCH configuration in the DRNS to be used on the new HS-DSCH Radio Link.]
- [FDD The DRNC shall include the HARQ Memory Partitioning IE in the HS-DSCH FDD Information Response IE in the RADIO LINK ADDITION RESPONSE message. The HARQ Memory Partitioning IE shall either contain the HARQ Memory Partitioning Information Extension For MIMO IE or the Number of Processes IE set to a value higher than "8", if the MIMO Activation Indicator IE is included in the HS-DSCH Information IE.]
- [FDD The DRNS may use the *Traffic Class* IE for a specific HS-DSCH MAC-d flow to determine the transport bearer characteristics to apply between DRNC and Node B. If *TrCH Source Statistics Descriptor* IE is present with the value "RRC" in the *HS-DSCH MAC-d Flows Information* IE, then the

DRNC should ignore the *Traffic Class* IE. If the *TNL QoS* IE is included for a MAC-d flow and if ALCAP is not used, the *TNL QoS* IE may be used by the DRNS to determine the transport bearer characteristics to apply in the uplink between the DRNS and the SRNC for the related MAC-d flow.]

- [FDD If the RADIO LINK ADDITION REQUEST message includes the MAC-hs Guaranteed Bit Rate IE for a Priority Queue in the HS-DSCH MAC-d Flows Information IE in the HS-DSCH Information IE, then the DRNS shall use this information to optimise MAC-hs scheduling decisions for the related HSDPA Priority Queue.]
- [FDD If the RADIO LINK ADDITION REQUEST message includes the *Discard Timer* IE for a Priority Queue in the *HS-DSCH MAC-d Flows Information* IE in the *HS-DSCH Information* IE, then the DRNS shall use this information to discard out-of-date MAC-hs SDUs from the related HSDPA Priority Queue.]
- [FDD If the RADIO LINK ADDITION REQUEST message includes the *Maximum MAC-d PDU Size Extended* IE for a Priority Queue in the *HS-DSCH MAC-d Flows Information* IE in the *HS-DSCH Information* IE, then the DRNS shall ignore the *SID* IE and *MAC-d PDU Size* IE in the *MAC-d PDU Size Index* IE and use *Maximum MAC-d PDU Size Extended* IE to optimise capacity allocation for the related HSDPA Priority Queue.]
- [FDD The DRNC shall include the HS-DSCH Initial Capacity Allocation IE in the HS-DSCH FDD Information Response IE in the RADIO LINK ADDITION RESPONSE message for every HS-DSCH MAC-d flow being established, if the DRNS allows the SRNC to start transmission of MAC-d PDUs before the DRNS has allocated capacity on user plane as described in TS 25.425 [32]. If RADIO LINK ADDITION REQUEST message includes HS-DSCH MAC-d PDU Size Format IE in the HS-DSCH Information IE set to "Flexible MAC-d PDU Size", then DRNC shall only set in the HS-DSCH Initial Capacity Allocation IE the values for the peer of Scheduling Priority Indicator IE and Maximum MAC-d PDU Size Extended IE to the values of the corresponding peer I in RADIO LINK ADDITION REQUEST in the HS-DSCH MAC-d Flows Information IE in the HS-DSCH Information IE for a Priority Queue including Scheduling Priority Indicator IE and Maximum MAC-d PDU Size Extended IE.]
- [FDD If the RADIO LINK ADDITION REQUEST message includes the *HS-SCCH Power Offset* IE in the *HS-DSCH Information* IE, then the DRNS may use this value to determine the HS-SCCH power. The HS-SCCH Power Offset should be applied for any HS-SCCH transmission to this UE.]
- [FDD If the RADIO LINK ADDITION REQUEST message includes the HARQ Preamble Mode IE in the HS-DSCH Information IE, then the DRNS shall use the indicated HARQ Preamble Mode as described in TS 25.214 [10], if HS-DPCCH ACK/NACK preamble and postamble is supported. Then, in this case, if the mode 1 is applied, the DRNC shall include the HARQ Preamble Mode Activation Indicator IE in the HS-DSCH Information Response IE in the RADIO LINK ADDITION RESPONSE message. If the HARQ Preamble Mode IE is not included or if the mode 0 is applied, then the DRNC shall not include the HARQ Preamble Mode Activation Indicator IE in the HS-DSCH Information Response IE in the RADIO LINK ADDITION RESPONSE message.]
- [FDD If the RADIO LINK ADDITION REQUEST message includes the *HS-DSCH MAC-d PDU Size Format* IE in the *HS-DSCH Information* IE, then the DRNS shall use the indicated format in user plane frame structure for HS-DSCH channels TS 25.425 [32] and MAC-hs TS 25.321 [41].]
- [FDD If the MIMO Activation Indicator IE is included in the HS-DSCH FDD Information IE, then ]
  - [FDD The DRNS shall activate the MIMO mode for the HS-DSCH Radio Link.]
  - [FDD The DRNS shall decide the pilot configuration and the UE reporting configuration (N/M ratio) according to TS 25.214 [10] for MIMO and include the *MIMO Information Response* IE in the *HS-DSCH FDD Information Response* IE in the RADIO LINK ADDITION RESPONSE message.]
  - [FDD If the *Power Offset For S-CPICH for MIMO Request Indicator* IE is included, the DRNC shall, if supported and MIMO pilot configuration with Primary and Secondary CPICH is set up with a non-zero power offset on the cell where the Serving HS-DSCH Radio Link is established, include the *Power Offset For S-CPICH for MIMO* IE in the *HS-DSCH FDD Information Response* IE. If zero power offset the DRNC may include the *Power Offset For S-CPICH for MIMO* IE.]
- [FDD If the *Sixtyfour QAM Usage Allowed Indicator* IE is included in the *HS-DSCH FDD Information* IE, then the DRNS may if the value is set to "allowed" use 64 QAM for the HS-DSCH Radio Link, and

the DRNS shall include the *SixtyfourQAM DL Usage Indicator* IE in the *HS-DSCH FDD Information Response* IE in the RADIO LINK ADDITION RESPONSE message.]

- [FDD If the *Sixtyfour QAM Usage Allowed Indicator* IE is included in the *HS-DSCH FDD Information* IE with value set to "not allowed", then the DRNS shall not use 64 QAM for the HS-DSCH Radio Link.]
- [FDD If the RADIO LINK ADDITION REQUEST message includes the HS-DSCH MAC-d PDU Size Format IE set to "Flexible MAC-d PDU Size" and if Sixtyfour QAM will not be used, the DRNS shall include the HS-DSCH TB Size Table Indicator IE in the HS-DSCH FDD Information Response IE in the HS-DSCH Serving Cell Change Information Response IE in the RADIO LINK ADDITION RESPONSE message if it decides to use the octet aligned table defined in TS 25.321 [41] for HS-DSCH Transport Block Size signalling.]
- [FDD If the UE with enhanced HS-SCCH support indicator IE is included in the HS-DSCH FDD Information IE, then the DRNS may use:]
  - [FDD a different HS-SCCH in consecutive TTIs for this UE]
  - [FDD HS-SCCH orders for the case of HS-SCCH-less operation to this UE]
- [FDD If the UE Support Indicator Extension IE is included in the HS-DSCH FDD Information IE the DRNS may use the supported HSDPA functions for this UE.]
- [FDD If the UE Support Indicator Extension IE is included in the HS-DSCH FDD Information IE with the bit UE DTXDRX related HS-SCCH orders uniform behavior indicator set to 0, then the DRNS shall, if supported, include the Support of dynamic DTXDRX related HS-SCCH order IE in the HS-DSCH FDD Information Response IE in the RADIO LINK ADDITION RESPONSE message.]
- [FDD If the RADIO LINK ADDITION REQUEST message includes *DL RLC PDU Size Format* IE for a Priority Queue in the *HS-DSCH MAC-d Flows Information* IE in the *HS-DSCH Information* IE, the *DL RLC PDU Size Format* IE may be used by the DRNS to determine the allocated capacity on user plane as described in TS 25.425 [32].]
- [FDD If the RADIO LINK ADDITION REQUEST message includes the UE Aggregate Maximum Bit Rate Enforcement Indicator IE in the Priority Queue Information IE in the HS-DSCH MAC-d Flows Information IE in the HS-DSCH Information IE, then the DRNS shall, if supported, consider the data of the HSDPA Priority Queue for UE Aggregate Maximum Bit Rate Enforcement.]
- [FDD If the *Single Stream MIMO Activation Indicator* IE is included in the *HS-DSCH FDD Information* IE in the *HS-DSCH Serving Cell Change Information* IE, then the DRNS shall activate the Single Stream MIMO for the HS-DSCH Radio Link.]
- [FDD The DRNC may include the *Transport Layer Address* IE and the *Binding ID* IE for HS-DSCH MAC-d flow in the *HS-DSCH FDD Information Response* IE in the RADIO LINK ADDITION RESPONSE message.]
- [FDD If the Serving Cell Change CFN IE is included in the RADIO LINK ADDITION REQUEST message, then the DRNS shall activate the resources that are allocated for the new serving HS-DSCH Radio Link at the next coming CFN with a value equal to the value requested by the SRNC, or earlier. In this case, in the new configuration the DRNS shall, if applicable, de-allocate the HS-PDSCH resources of the old Serving HS-PDSCH Radio Link. The DRNS shall deactivate those resources at the next coming CFN with a value equal to the value requested by the SRNC.]
- [FDD If the *Serving Cell Change CFN* IE is not included then the DRNS shall activate immediately the resources that are allocated for the new serving HS-PDSCH Radio Link, and shall keep active the resources that are allocated for the previous serving HS-PDSCH Radio Link.]
- [FDD If the requested Serving HS-DSCH Radio Link Change was successful or unsucessful, the DRNS shall
  indicate this in the HS-DSCH Serving Cell Change Information Response IE in the RADIO LINK ADDITION
  RESPONSE message.]

#### [FDD – Secondary Serving HS-DSCH Radio Link Change:]

[FDD – If the RADIO LINK ADDITION REQUEST message includes the *Additional HS Cell Information RL Addition* IE, then the *HS-PDSCH RL ID* IE indicates the new Serving HS-DSCH Radio Link:]

- [FDD In the new configuration the DRNS shall allocate the HS-PDSCH resources for the new secondary serving HS-PDSCH Radio Link. Non cell specific secondary serving Radio Link and non cell specific secondary serving HS-DSCH parameters take the same values as for the serving HS-DSCH cell.]
- [FDD The DRNC shall allocate a new HS-DSCH-RNTI to the UE Context and include the *HS-DSCH-RNTI* IE in the *HS-DSCH Secondary Serving Cell Change Information Response* IE in the *Additional HS Cell Change Information Response* IE in the RADIO LINK ADDITION RESPONSE message.]
- [FDD The DRNC shall include the Measurement Power Offset IE in the HS-DSCH FDD Secondary Serving Information Response IE in the Additional HS Cell Change Information Response IE in the RADIO LINK ADDITION RESPONSE message.]
- [FDD The DRNS shall allocate HS-SCCH codes corresponding to the secondary serving HS-DSCH and include the HS-SCCH Specific Secondary Serving Information Response IE in the HS-DSCH FDD Secondary Serving Information Response IE in the HS-DSCH Secondary Serving Cell Change Information Response IE in the Additional HS Cell Change Information Response IE in the RADIO LINK ADDITION RESPONSE message.]
- [FDD The DRNC shall include the HS-PDSCH And HS-SCCH Scrambling Code IE in the HS-DSCH FDD Secondary Serving Information Response IE in the HS-DSCH Secondary Serving Cell Change Information Response IE in the Additional HS Cell Change Information Response IE in the RADIO LINK ADDITION RESPONSE message.]
- [FDD If the UE Context is configured with Sixtyfour QAM allowed for the secondary serving HS-DSCH Radio Link and not used in the current configuration and then if the DRNS decides to use 64 QAM in the new secondary serving HS-DSCH Radio Link, then it shall include the *SixtyfourQAM DL Usage Indicator* IE in the *HS-DSCH FDD Secondary Serving Information Response* IE in the *Additional HS Cell Information Response* IE in the RADIO LINK ADDITION RESPONSE message.]
- [FDD If, in the new configuration, the UE context is configured not to use Sixtyfour QAM for the secondary serving HS-DSCH, the DRNS shall include the HS-DSCH TB Size Table Indicator IE in the HS-DSCH FDD Secondary Serving Information Response IE in the Additional HS Cell Change Information Response IE in the RADIO LINK ADDITION RESPONSE message if it decides to use the octet aligned table defined in TS 25.321 [41] for the secondary serving HS-DSCH Transport Block Size signalling.]

# [FDD – Secondary Serving HS-DSCH Setup on a New Radio Link at Serving HS-DSCH Radio Link Change:]

- [FDD The DRNS shall setup the requested HS-PDSCH resources on the Secondary Serving HS-DSCH Radio Link indicated by the *HS-PDSCH RL ID* IE.]
- [FDD The HS-DSCH FDD Secondary Serving Information IE defines the new secondary serving HS-DSCH configuration in the DRNS to be used on the new secondary serving HS-DSCH Radio Link. Non cell specific secondary serving Radio Link and non cell specific secondary serving HS-DSCH parameters take the same values as for the serving HS-DSCH cell.]
- [FDD If the RADIO LINK ADDITION REQUEST message includes the HS-SCCH Power Offset IE in the HS-DSCH FDD Secondary Serving Information IE in the Additional HS Cell Information RL Addition IE, then the DRNS may use this value to determine the HS-SCCH power. The HS-SCCH Power Offset should be applied for any secondary serving HS-SCCH transmission to this UE.]
- [FDD If the MIMO Activation Indicator IE is included in the HS-DSCH FDD Secondary Serving Information IE, then the DRNS shall activate the MIMO mode for the secondary serving HS-DSCH Radio Link and the Node B shall decide the pilot configuration and the UE reporting configuration (N/M ratio) according to TS 25.214 [10] for MIMO and include the MIMO Information Response IE in the HS-DSCH FDD Secondary Serving Information Response IE in the HS-DSCH Secondary Serving Cell Change Information Response IE in the Additional HS Cell Change Information Response IE in the RADIO LINK ADDITION RESPONSE message.]
- [FDD If the *Power Offset For S-CPICH for MIMO Request Indicator* IE is included, the DRNC shall, if supported and MIMO pilot configuration with Primary and Secondary CPICH is set up with a non-zero power offset on the cell where the Secondary Serving HS-DSCH Radio Link is established, include the *Power Offset For S-CPICH for MIMO* IE in the *HS-DSCH FDD Information Response* IE. If zero power offset the DRNC may include the *Power Offset For S-CPICH for S-CPICH for S-CPICH for S-CPICH for MIMO* IE.]

- [FDD If the *Single Stream MIMO Activation Indicator* IE is included in the *HS-DSCH FDD Secondary Serving Information* IE, then the DRNS shall activate the Single Stream MIMO mode for the secondary serving HS-DSCH Radio Link.]
- [FDD If the Sixtyfour QAM Usage Allowed Indicator IE is included in the HS-DSCH FDD Secondary Serving Information IE, then the DRNS may if the value is set to "allowed" use 64 QAM for the secondary serving HS-DSCH Radio Link, and the DRNS shall include the SixtyfourQAM DL Usage Indicator IE in the HS-DSCH FDD Secondary Serving Information Response IE in the HS-DSCH Secondary Serving Cell Change Information Response IE in the Additional HS Cell Change Information Response IE in the RADIO LINK ADDITION RESPONSE message.]
- [FDD If the *Sixtyfour QAM Usage Allowed Indicator* IE is included in the *HS-DSCH FDD Secondary Serving Information* IE with value set to "not allowed", then the DRNS shall not use 64 QAM for the secondary serving HS-DSCH Radio Link.]
- [FDD If Sixtyfour QAM will not be used for the secondary serving cell, the DRNS shall include the HS-DSCH TB Size Table Indicator IE in the HS-DSCH FDD Secondary Serving Information Response IE in the HS-DSCH Secondary Serving Cell Change Information Response IE in the Additional HS Cell Change Information Response IE in the RADIO LINK ADDITION RESPONSE message if it decides to use the octet aligned table defined in TS 25.321 [41] for secondary serving HS-DSCH Transport Block Size signalling.]
- [FDD If the *Diversity Mode* IE is included in the *HS-DSCH FDD Secondary Serving Information* IE in the *Additional HS Cell Information RL Addition* IE in the RADIO LINK ADDITION REQUEST message the DRNS shall apply cell specific transmit diversity configuration and if the *Diversity Mode* IE is not set to "None" the DRNS shall activate/deactivate the Transmit Diversity for the secondary serving HS-DSCH Radio Link in accordance with the *Transmit Diversity Indicator* IE in the *HS-DSCH FDD Secondary Serving Information* IE.]
- [FDD If the Serving Cell Change CFN IE is included in the RADIO LINK ADDITION REQUEST message, then the DRNS shall activate the resources that are allocated for the new secondary serving HS-DSCH Radio Link at the next coming CFN with a value equal to the value requested by the SRNC, or earlier. In this case, in the new configuration the DRNS shall, if applicable, de-allocate the HS-PDSCH resources of the old secondary serving HS-PDSCH Radio Link. The DRNS shall deactivate those resources at the next coming CFN with a value equal to the value requested by the SRNC. ]
- [FDD If the *Serving Cell Change CFN* IE is not included then the DRNS shall activate immediately the resources that are allocated for the new secondary serving HS-PDSCH Radio Link, and shall keep active the resources that are allocated for the previous secondary serving HS-PDSCH Radio Link.]
- [FDD If the requested secondary serving HS-DSCH Radio Link Change was successful or unsuccessful, the DRNS shall indicate this in the *HS-DSCH Secondary Serving Cell Change Information Response* IE in the *Additional HS Cell Change Information Response* IE in the RADIO LINK ADDITION RESPONSE message.]

#### [FDD – Additional Serving E-DCH Radio Link Change:]

[FDD – If the RADIO LINK ADDITION REQUEST message includes the Additional E-DCH Cell Information Addition IE in the Additional E-DCH Cell Information RL Add Req IE and the HS-PDSCH RL ID IE in the Additional HS Cell Information RL Addition IE, the HS-PDSCH RL ID IE indicates the new Additional Serving E-DCH Radio Link:]

- [FDD In the new configuration the DRNS shall allocate the E-DCH resources for the new additional serving E-DCH Radio Link on the secondary UL frequency. Non cell specific E-DCH parameters shall take the same values as for the corresponding cell of the Primary uplink frequency.]
- [FDD If the old Additional Serving E-DCH RL is within this DRNS, the DRNS shall de-allocate the E-AGCH resources of the old Additional Serving E-DCH Radio Link at the activation of the new configuration.]
- [FDD The DRNS shall allocate a primary E-RNTI identifier or a secondary E-RNTI identifier or both for the new Additional Serving E-DCH Radio Link and include these E-RNTI identifiers along with the channelisation code of the corresponding E-AGCH in the *E-DCH FDD DL Control Channel Information* IE in the *Additional E-DCH Serving Cell Change Information Response* IE in the RADIO LINK ADDITION RESPONSE message.]

- [FDD The DRNS may include in the E-DCH FDD DL Control Channel Information IE in the Additional E-DCH Serving Cell Change Information Response IE in the RADIO LINK ADDITION RESPONSE message the Serving Grant Value IE and Primary/Secondary Grant Selector IE for the initial grant for the additional serving E-DCH RL and may include the Default Serving Grant in DTX Cycle 2 IE]
- [FDD If the E-DCH HARQ process allocation for 2ms TTI for scheduled transmission shall be changed, the DRNS shall allocate resources according to the new/changed configuration and include the new/changed configuration in the *HARQ Process Allocation For 2ms Scheduled Transmission Grant* IE in the *Additional E-DCH FDD Information Response* IE in the RADIO LINK ADDITION RESPONSE message.]
- [FDD The DRNS may include the E-RGCH/E-HICH Channelisation Code IE and/or the E-HICH Signature Sequence IE and/or the E-RGCH Signature Sequence IE or may alternatively include the E-RGCH Release Indicator IE in the E-DCH FDD DL Control Channel Information IE in the Additional E-DCH Serving Cell Change Information Response IE in the RADIO LINK ADDITION RESPONSE message for any of the other E-DCH Radio Links in the DRNS Communication Context that have not been included in the E-DCH FDD DL Control Channel Information IE in the Additional E-DCH FDD Information Response IE.]
- [FDD If the Serving Cell Change CFN IE is included in the RADIO LINK ADDITION REQUEST message, then the DRNS shall activate the resources that are allocated for the new additional serving E-DCH Radio Link at the next coming CFN with a value equal to the value requested by the SRNC, or earlier. In this case, in the new configuration the DRNS shall, if applicable, de-allocate the E-AGCH resources of the old Additional Serving E-DCH Radio Link. The DRNS shall deactivate those resources at the next coming CFN with a value equal to the value requested by the SRNC.]
- [FDD- If the *Serving Cell Change CFN* IE is not included then the DRNS shall activate immediately the resources that are allocated for the new additional serving E-DCH Radio Link, and shall keep active the resources that are allocated for the previous additional serving E-DCH Radio Link.]
- [FDD If the addition of the requested Additional Serving E-DCH Radio Link was successful but the Additional Serving E-DCH Radio Link change was unsuccessful, the DRNS shall indicate this in the *Additional E-DCH Serving Cell Change Information Response* IE in the RADIO LINK ADDITION RESPONSE message.]

#### [FDD – E-DCH:]

[FDD – If the RADIO LINK ADDITION REQUEST message contains the *E-DCH RL Indication* IE, set to "E-DCH", in the *RL Information* IE, then for every such RL.]

- [FDD The DRNS shall setup the E-DCH resources as configured in the UE context.]
- [FDD If the RADIO LINK ADDITION REQUEST message includes the *Transport Layer Address* IE and *Binding ID* IE in the *RL specific E-DCH Information* IE for an E-DCH MAC-d flow, then if the *Transport Bearer Not Requested Indicator* IE is not included for this E-DCH MAC-d flow, the DRNC may use the transport layer address and the binding identifier received from the SRNC when establishing a transport bearer for the concerned E-DCH MAC-d flow.]
- [FDD The DRNC shall include in the RADIO LINK ADDITION RESPONSE message the *Binding ID* IE and *Transport Layer Address* IE for establishment of a transport bearer for every E-DCH MAC-d flow being established for which the *Transport Bearer Not Requested Indicator* IE was not included.]
- [FDD If the RADIO LINK ADDITION REQUEST message includes the *Transport Bearer Not Requested Indicator* IE set to "Transport Bearer Shall not be Established" for an E-DCH MAC-d flow, then the DRNC shall not establish a transport bearer for the concerned E-DCH MAC-d flow and shall include the *Transport Bearer Not Setup Indicator* IE for the corresponding E-DCH MAC-d flow in the RADIO LINK ADDITION RESPONSE message.]
- [FDD If the RADIO LINK ADDITION REQUEST message includes the *Transport Bearer Not Requested Indicator* IE set to "Transport Bearer may not be Established" for an E-DCH MAC-d flow and:]
  - [FDD if the DRNC establishes a transport bearer for the concerned E-DCH MAC-d flow, the DRNC shall include in the RADIO LINK ADDITION RESPONSE message the *Binding ID* IE and *Transport Layer Address* IE for establishment of a transport bearer for the E-DCH MAC-d flow being established.]
  - [FDD if the DRNC does not establish a transport bearer for the concerned E-DCH MAC-d flow, the DRNC shall include the *Transport Bearer Not Setup Indicator* IE for the corresponding E-DCH MAC-d flow in the RADIO LINK ADDITION RESPONSE message.]

- [FDD The DRNC may include the E-AGCH And E-RGCH/E-HICH FDD Scrambling Code IE and shall
  include the E-RGCH/E-HICH Channelisation Code IE and the corresponding E-HICH Signature Sequence IE
  and the DRNC may include the corresponding E-RGCH Signature Sequence IE in the E-DCH FDD DL Control
  Channel Information IE in the RADIO LINK ADDITION RESPONSE message, for every RL indicated by the
  E-DCH RL Indication IE, set to "E-DCH", in the RL Information IE.]
- [FDD If the RADIO LINK ADDITION REQUEST message includes the *E-RGCH Power Offset* IE in the *RL Specific E-DCH Information* IE, then the DRNS may use this value to determine the E-RGCH power for the RL. The E-RGCH Power Offset should be applied for any E-RGCH transmission to this UE.]
- [FDD If the RADIO LINK ADDITION REQUEST message includes the *E*-HICH Power Offset IE in the *RL* Specific *E*-DCH Information IE, then the DRNS may use this value to determine the E-HICH power for the RL. The E-HICH Power Offset should be applied for any E-HICH transmission to this UE.]
- [FDD If the DRNS has no valid data for the *E-RGCH/E-HICH Channelisation Code* IE in the *E-DCH FDD DL Control Channel Information* IE in the RADIO LINK ADDITION RESPONSE message, then it shall insert the *E-RGCH and E-HICH Channelisation Code Validity Indicator* IE in the *E-DCH FDD DL Control Channel Information* IE, to indicate that the *E-RGCH/E-HICH Channelisation Code* IE contains invalid data.]

### [FDD – Serving E-DCH Radio Link Change:]

[FDD – If the RADIO LINK ADDITION REQUEST message contains the *Serving E-DCH RL* IE, this indicates the new Serving E-DCH Radio Link:]

- [FDD If the new Serving E-DCH RL is in this DRNS:]
  - [FDD The DRNS shall allocate a primary E-RNTI identifier or a secondary E-RNTI identifier or both and include these E-RNTI identifiers and the Channelisation Code of the corresponding E-AGCH in the *E-DCH FDD DL Control Channel Information* IE in the *E-DCH Serving Cell Change Information Response* IE for the indicated RL in the RADIO LINK ADDITION RESPONSE message.]
  - [FDD The DRNS may include the *Serving Grant Value* IE and *Primary/Secondary Grant Selector* IE in the *E-DCH Serving Cell Change Information Response* IE in the RADIO LINK ADDITION RESPONSE message for the initial grant for the new serving E-DCH RL.]
  - [FDD If the E-DCH HARQ process allocation for 2ms TTI for scheduled and/or non-scheduled transmission shall be changed, the DRNS shall allocate resources according to the new/changed configuration and include the new/changed configuration in the *E-DCH FDD Information Response* IE in the RADIO LINK ADDITION RESPONSE message.]
  - [FDD If a serving cell change is performed the RADIO LINK ADDITION RESPONSE message may contain invalid data (see 9.2.2.4C).]
  - [FDD The DRNS may include the *Default Serving Grant in DTX Cycle 2* IE in the RADIO LINK ADDITION RESPONSE message for the new serving E-DCH RL.]
- [FDD The DRNS may include the *E-RGCH/E-HICH Channelisation Code* IE and/or the *E-HICH Signature Sequence* IE and/or the *E-RGCH Signature Sequence* IE or may alternatively include the *E-RGCH Release Indicator* IE in the *E-DCH FDD DL Control Channel Information* IE in the *E-DCH Serving Cell Change Information Response* IE in the RADIO LINK ADDITION RESPONSE message for any of the other E-DCH Radio Link in the DRNS Communication Context that have not been included in the *E-DCH FDD DL Control Channel Information* IE in *RL Information Response* IE.]
- [FDD If the *Serving Cell Change CFN* IE is included in the RADIO LINK ADDITION REQUEST message, then the DRNS shall activate the resources that are allocated for the new serving E-DCH Radio Link at the next coming CFN with a value equal to the value requested by the SRNC, or earlier. In this case, in the new configuration the DRNS shall, if applicable, de-allocate the E-AGCH resources of the old Serving E-DCH Radio Link. The DRNS shall deactivate those resources at the next coming CFN with a value equal to the value requested by the SRNC.]
- [FDD- If the *Serving Cell Change CFN* IE is not included then the DRNS shall activate immediately the resources that are allocated for the new serving E-DCH Radio Link, and shall keep active the resources that are allocated for the previous serving E-DCH Radio Link.]

- [FDD – If the addition of the requested Serving E-DCH Radio Link was successful but the Serving E-DCH Radio Link change was unsuccessful, the DRNS shall indicate this in the *E-DCH Serving Cell Change Information Response* IE in the RADIO LINK ADDITION RESPONSE message.]

#### [FDD – E-DPCH Handling:]

[FDD – If the RADIO LINK ADDITION REQUEST message includes an *E-DPCH Information* IE it defines the new E-DPCH configuration in the DRNS to be used on the new E-DCH Radio Link and the DRNS shall use the new parameters for the related resource allocation operations.]

[FDD – If the *E-TFCS Information* IE in the *E-DPCH Information* IE contains the *E-TFCI Boost Information* IE, the DRNS shall use the information according to TS 25.214 [10]. If the *E-TFCI Boost Information* IE is not present, the DRNS shall use the value "127" in the algorithm defined in TS 25.214 [10].]

[FDD – If the *E-DPCH Information* IE includes the *E-TFCS Information* IE, the DRNS shall use the *E-TFCS Information* IE for the E-DCH when reserving resources for the uplink of the new configuration. The DRNS shall apply the new TFCS in the uplink of the new configuration. If the *E-TFCS Information* IE contains the *E-DCH Minimum Set E-TFCI Validity Indicator* IE the DRNS shall ignore the value in *E-DCH Minimum Set E-TFCI* IE. If the *E-DCH Minimum Set E-TFCI validity indicator* IE is absent DRNS shall use the value for the related resource allocation operation.]

[FDD – If the *E-TFCS Information* IE in the *E-DPCH Information* IE contains the *E-DPDCH Power Interpolation* IE, the DRNS shall use the value to determine the applicable E-DPDCH power formula defined in TS 25.214 [10]. If the *E-DPDCH Power Interpolation* IE is not present, the DRNS shall use the E-DPDCH power extrapolation formula defined in TS 25.214 [10].]

[FDD – If the RADIO LINK ADDITION REQUEST message includes an *E-DPCH Information* IE, which contains the *Minimum Reduced E-DPDCH Gain Factor* IE, then the DRNS shall use the value to determine the applicable minimum gain factor ( $\beta_{ed,k,reduced,min}$ ) defined in TS 25.214 [10]. For the case the *Minimum Reduced E-DPDCH Gain Factor* IE is not available for the UE Context, the DRNS may use the default value defined in TS 25.331 [16]. ]

#### [FDD – E-DCH Setup on a new Radio Link:]

[FDD – If the E-DCH FDD Information IE is present in the RADIO LINK ADDITION REQUEST message then:]

- [FDD the *E-DCH FDD Information* IE defines the new E-DCH FDD configuration in the DRNS to be used on the new E-DCH Radio Link.]
- [FDD If the RADIO LINK ADDITION REQUEST message includes the *MAC-es Guaranteed Bit Rate* IE in the *E-DCH Logical Channel Information* IE in the *E-DCH FDD Information* IE, then the DRNS shall use this information to optimise MAC-e scheduling decisions.]
- [FDD If the RADIO LINK ADDITION REQUEST message includes UE Aggregate Maximum Bit Rate Enforcement Indicator IE in the E-DCH Logical Channel Information IE in the E-DCH MAC-d Flow Specific Information IE in the E-DCH FDD Information IE, then the DRNS shall, if supported, consider the data of the related E-DCH Logical Channel for UE Aggregate Maximum Bit Rate Enforcement.]
- [FDD If the RADIO LINK ADDITION REQUEST message includes the Maximum MAC-d PDU Size Extended IE for a E-DCH Logical Channel in the E-DCH MAC-d Flows Information IE in the E-DCH FDD Information IE, then the DRNS shall ignore the MAC-d PDU Size IE in the MAC-d PDU Size List IE and use Maximum MAC-d PDU Size Extended IE to optimise capacity allocation for the related E-DCH Logical Channel and use the indicated format in user plane frame structure for E-DCH channels TS 25.425 [32] and MAC TS 25.321 [41].]
- [FDD If the RADIO LINK ADDITION REQUEST message includes the *E-DCH MAC-d Flow Multiplexing List* IE for an E-DCH MAC-d flow the DRNS shall use this information for the related resource allocation operation.]
- [FDD If the RADIO LINK ADDITION REQUEST message includes the HARQ Process Allocation For 2ms Scheduled Transmission Grant IE, the DRNS shall use this information for the related resource allocation operation.]
- [FDD If in the RADIO LINK ADDITION REQUEST message the E-DCH Grant Type is indicated as being "E-DCH Non-Scheduled Transmission Grant" for an E-DCH MAC-d flow the DRNS shall assume nonscheduled grants being configured for that E-DCH MAC-d flow and shall use the information within the HARQ

*Process Allocation For 2ms Non-Scheduled Transmission Grant* IE, if included, for the related resource allocation operation.]

- [FDD If in the RADIO LINK ADDITION REQUEST message the E-DCH Grant Type is indicated as being "E-DCH Scheduled Transmission Grant" for an E-DCH MAC-d flow the DRNS shall assume scheduled grants being configured for that E-DCH MAC-d flow.]
- [FDD The DRNS may use the *Traffic Class* IE for a specific E-DCH MAC-d flow to determine the transport bearer characteristics to apply between DRNC and Node B. If *TrCH Source Statistics Descriptor* IE is present with the value "RRC" in the *E-DCH MAC-d Flows Information* IE, then the DRNC should ignore the *Traffic Class* IE.]
- [FDD If the *TNL QoS* IE is included for an E-DCH MAC-d flow and if ALCAP is not used, the *TNL QoS* IE may be used by the DRNS to determine the transport bearer characteristics to apply in the uplink for the related MAC-d flow.]
- [FDD If the RADIO LINK ADDITION REQUEST message includes the *Bundling Mode Indicator* IE for a E-DCH MAC-d flow in the *E-DCH MAC-d Flow Specific Information* IE in the *E-DCH FDD Information* IE and the *Bundling Mode Indicator* IE is set to "Bundling" and the *E-TTI* IE is set to "2ms", then the DRNS shall use the bundling mode for the E-DCH UL data frames for the related MAC-d flow, otherwise the DRNS shall use the non-bundling mode for the E-DCH UL data frames for the related MAC-d flow.]
- [FDD If the RADIO LINK ADDITION REQUEST message includes the *E-DCH Maximum Bitrate* IE for an E-DCH, the DRNS shall use this information for the related resource allocation operation, and when applicable, for E-DCH scheduling.]
- [FDD If the RADIO LINK ADDITION REQUEST message includes the *E-DCH Processing Overload Level* IE, then if the DRNS could not decode the E-DPCCH/E-DPDCH for the last consecutive number of TTIs, indicated in the *E-DCH Processing Overload Level* IE, because of processing issue, the DRNS shall notify the SRNC by initiating the Radio Link Failure procedure.]
- [FDD If the RADIO LINK ADDITION REQUEST message includes the *E-DCH Reference Power Offset* IE, then the DRNS may use this value as a default HARQ power offset if it is not able to decode the MAC-e PDU and to determine the value of the actual HARQ power offset.]
- [FDD If the RADIO LINK ADDITION REQUEST message includes the *E-AGCH Power Offset* IE in the *RL Specific E-DCH Information* IE, then the DRNS may use this value to determine the E-AGCH power. The E-AGCH Power Offset should be applied for any E-AGCH transmission to this UE.]
- [FDD If the RADIO LINK ADDITION REQUEST message includes the *E-RGCH Power Offset* IE in the *RL Specific E-DCH Information* IE, then the DRNS may use this value to determine the E-RGCH power for the RL. The E-RGCH Power Offset should be applied for any E-RGCH transmission to this UE.]
- [FDD If the RADIO LINK ADDITION REQUEST message includes the *E*-HICH Power Offset IE in the *RL* Specific *E*-DCH Information IE, then the DRNS may use this value to determine the E-HICH power for the RL. The E-HICH Power Offset should be applied for any E-HICH transmission to this UE.]
- [FDD If the RADIO LINK ADDITION REQUEST message includes the *E-DCH Power Offset for Scheduling Info* IE, then the DRNS shall use this value as a power offset for the transmission of scheduling information without any MAC-d PDUs.]
- [FDD If the RADIO LINK ADDITION REQUEST message includes the *SixteenQAM UL Operation Indicator* IE, the DRNS shall activate/deactivate SixteenQAM UL Operation for the RL in accordance with the *SixteenQAM UL Operation Indicator* IE.]
  - [FDD If SixteenQAM UL Operation is activated, then the DRNS shall base the handling of the Relative Grant signalling on Scheduling Grant Table 2 according to TS 25.321 [41]. If SixteenQAM UL Operation is deactivated, then the DRNS shall base the handling of the Relative Grant signalling on Scheduling Grant Table 1 according to TS 25.321 [41].]

#### [FDD – Additional E-DCH Setup:]

[FDD – If the Additional E-DCH Cell Information RL Add Req IE is present in the RADIO LINK ADDITION REQUEST message and the choice of Setup Or Addition Of E-DCH On Secondary UL Frequency is "Setup", then the Additional E-DCH Cell Information Setup IE defines the new configuration and then:]

- [FDD If the *C-ID* IE is included in the *Additional E-DCH RL Specific Information To Setup* IE in the *Additional E-DCH FDD Setup Information* IE the *C-ID* IE indicates the cell in which the additional E-DCH shall be setup]
  - [FDD The DRNS shall setup the Additional E-DCH on the secondary uplink frequency and setup the requested Additional E-DCH resources on the Radio Links and in the cells indicated by the *E-DCH Additional RL ID* IE and the *C-ID* IE in the *Additional E-DCH RL Specific Information To Setup* IE in the *Additional E-DCH FDD Setup Information* IE.]
- [FDD If the *C-ID* IE is not included in the *Additional E-DCH RL Specific Information To Setup* IE in the *Additional E-DCH FDD Setup Information* IE the *E-DCH Additional RL ID* IE indicates the existing RL on which the Additional E-DCH shall be setup.]
  - [FDD The DRNS shall setup the Additional E-DCH on the Radio Links indicated by the *E-DCH Additional RL ID* IE in the *Additional E-DCH RL Specific Information To Setup* IE in the *Additional E-DCH FDD Setup Information* IE]
- [FDD The DRNS shall use for the non cell specific Radio Link related parameters and non cell specific E-DPCH, UL DPCH, E-DCH and F-DPCH parameters the same values as for the corresponding cell of the Primary uplink frequency.]
- [FDD If the UL SIR Target IE in the UL DPCH Information IE in the Additional E-DCH FDD Setup Information IE in the Additional E-DCH Cell Information Setup IE and/or the DL Power Balancing Information IE and/or the Minimum Reduced E-DPDCH Gain Factor IE in the Multicell E-DCH Information IE in the Additional E-DCH FDD Setup Information IE are present, the DRNS shall use the information in the same way as for the information used on Primary uplink frequency.]
- [FDD If the Secondary UL Frequency Activation State IE is present in the Multicell E-DCH Information IE in the Additional E-DCH FDD Setup Information IE, the DRNS shall use the information as initial activation state of the Radio Links on the secondary uplink frequency.]
- [FDD If the Initial DL Tx Power IE, the Primary CPICH Ec/No IE, the E-AGCH Power Offset IE, the E-RGCH Power Offset IE and/or the E-HICH Power Offset IE, is included in the Additional E-DCH RL Specific Information To Setup IE in the Additional E-DCH FDD Setup Information IE in the Additional E-DCH Cell Information Setup IE, the DRNS shall use the information in the same way as for the information used on Primary uplink frequency.]
- [FDD If the *Enhanced Primary CPICH Ec/No* IE is included in the *Multicell E-DCH RL Specific Information* IE in the *Additional E-DCH Secondary RL Specific Information To Setup* IE in the *Additional E-DCH FDD Setup Information* IE in the *Additional E-DCH Cell Information Setup* IE, the DRNS shall use the information in the same way as for the information used on Primary uplink frequency.]
- If the F-DPCH Slot Format Support Request IE in the F-DPCH Information IE in the Additional E-DCH FDD Setup Information IE in the Additional E-DCH Cell Information Setup IE is included, the DRNS shall configure the concerned UE Context for F-DPCH Slot Format operation according to TS 25.211 [8] and include the F-DPCH Slot Format IE in the Additional E-DCH FDD Information Response IE in the Additional E-DCH Cell Information Response RL Add IE in the RADIO LINK ADDITION RESPONSE message. If the Multicell E-DCH Information IE in the Additional E-DCH FDD Setup Information IE includes the F-DPCH Slot Format IE, the DRNS may use the F-DPCH Slot Format IE to determine the F-DPCH slot format.]
- [FDD If the HARQ Process Allocation For 2ms Scheduled Transmission Grant IE, the E-DCH Maximum Bitrate IE, the E-DCH Minimum Set E-TFCI IE and/or the E-DCH Processing Overload Level IE are present in the Additional E-DCH FDD Information IE in the Additional E-DCH FDD Setup Information IE in the Additional E-DCH Cell Information Setup IE, the DRNS shall use the information in the same way as for the information used on Primary uplink frequency.]
- [FDD If activation of power balancing for the Additional E-DCH RL by the RADIO LINK ADDITION REQUEST message is supported by the DRNS, the DRNS shall include the *DL Power Balancing Activation Indicator* IE in the *Additional E-DCH FDD Information Response* IE in the *Additional E-DCH Cell Information Response RL Add* IE in the RADIO LINK ADDITION RESPONSE message.]
- [FDD For each Additional E-DCH RL not having a common generation of the TPC commands in the DL with another Additional E-DCH RL, the DRNS shall set the *RL Set ID* IE included in the *Additional E-DCH FDD Information Response* IE in the RADIO LINK ADDITION RESPONSE message to a value that uniquely

identifies the RL as a RL Set within the UE Context. The generation of E-HICH related information for Additional E-DCH RLs in different RL Sets shall not be common.]

- [FDD For all Additional E-DCH RLs having a common generation of the TPC commands in the DL with another Additional E-DCH RL, the DRNS shall assign to each Additional E-DCH RL the same value for the *RL Set ID* IE included in the *Additional E-DCH FDD Information Response* IE in the RADIO LINK ADDITION RESPONSE message. This value shall uniquely identify these Additional E-DCH RLs as members of the same RL Set within the UE Context. The generation of E-HICH information for all Additional E-DCH RLs in a RL Set shall be common.]
- [FDD For each Additional E-DCH RL which has or can have a common generation of E-RGCH information with another Additional E-DCH RL (current or future) when the DRNS would contain the Additional E-DCH serving RL, the DRNS shall set a same value to the *E-DCH RL Set ID* IE for the Additional E-DCH RL in the *Additional E-DCH FDD Information Response* IE in the *Additional E-DCH Cell Information Response RL Add* IE in the RADIO LINK ADDITION RESPONSE message.]
- [FDD For every additional E-DCH RL indicated in the Additional E-DCH RL Specific Information To Setup IE in the Additional E-DCH FDD Setup Information IE the DRNS may include the E-AGCH And E-RGCH/E-HICH FDD Scrambling Code IE and shall include the E-RGCH/E-HICH Channelisation Code IE and the corresponding E-HICH Signature Sequence IE and the DRNS may include the corresponding E-RGCH Signature Sequence IE in the E-DCH FDD DL Control Channel Information IE in the Additional E-DCH FDD Information Response IE in the Additional E-DCH Cell Information Response RL Add IE in the RADIO LINK ADDITION RESPONSE message and if DRNS has no valid data for the E-RGCH/E-HICH Channelisation Code IE, then it shall insert the E-RGCH and E-HICH Channelisation Code Validity Indicator IE to indicate that the E-RGCH/E-HICH Channelisation Code IE contains invalid data.]
- [FDD If the Additional Serving E-DCH Radio Link is configured in the DRNS, then:]
  - [FDD The DRNS shall allocate a primary E-RNTI identifier or a secondary E-RNTI identifier or both for the corresponding RL and include these E-RNTI identifiers and the channelisation code of the corresponding E-AGCH in the *E-DCH FDD DL Control Channel Information* IE in the *Additional E-DCH FDD Information Response* IE in the *Additional E-DCH Cell Information Response RL Add* IE in the RADIO LINK ADDITION RESPONSE message.]
  - [FDD The DRNS may include in the *E-DCH FDD DL Control Channel Information* IE in the *Additional E-DCH FDD Information Response* IE in the *Additional E-DCH Cell Information Response RL Add* IE in the RADIO LINK ADDITION RESPONSE message the the *Serving Grant Value* IE and *Primary/Secondary Grant Selector* IE for the initial grant for the Additional serving E-DCH RL and may include the *Default Serving Grant in DTX Cycle 2* IE.]
  - [FDD If the E-DCH HARQ process allocation for 2ms TTI for scheduled transmission shall be changed, the DRNS shall allocate resources according to the new/changed configuration and include the new/changed configuration in the HARQ Process Allocation For 2ms Scheduled Transmission Grant E-DCH FDD Information Response IE in the Additional E-DCH FDD Information Response IE in the Additional E-DCH FDD Information Response IE in the RADIO LINK ADDITION RESPONSE message.]
  - [FDD If the Serving Cell Change CFN IE is included in the RADIO LINK ADDITION REQUEST
    message, then the DRNS shall activate the resources that are allocated for the new additional serving E-DCH
    Radio Link at the next coming CFN with a value equal to the value requested by the SRNC. If the Serving
    Cell Change CFN IE is not included then the DRNS shall activate immediately the resources that are
    allocated for the new additional serving E-DCH Radio Link]
- [FDD If Primary CPICH is not to be used as a Phase Reference for this Radio Link on the secondary UL frequency, the DRNS shall include the *Primary CPICH Usage For Channel Estimation* IE set to the value "Primary CPICH shall not be used" in the *Additional E-DCH FDD Information Response* IE in the *Additional E-DCH Cell Information Response RL Add* IE RADIO LINK ADDITION RESPONSE message.]
- [FDD If Secondary CPICH may be used as a Phase Reference for this Radio Link on the secondary UL frequency, the DRNS shall include the *Secondary CPICH Information* IE in the *Additional E-DCH FDD Information Response* IE in the *Additional E-DCH Cell Information Response RL Add* IE in the RADIO LINK ADDITION RESPONSE message. If the DRNS doesn't include the *Secondary CPICH Information* IE, it shall not include the *Primary CPICH Usage For Channel Estimation* IE set to the value "Primary CPICH shall not be used".]

## [FDD – Additional E-DCH RL Addition:]

[FDD – If the Additional E-DCH Cell Information RL Add Req IE is present in the RADIO LINK ADDITION REQUEST message and the choice of Setup Or Addition Of E-DCH On Secondary UL Frequency is "Addition", then the Additional E-DCH Cell Information Addition IE defines the new configuration and then:]

- [FDD The DRNS shall setup the requested E-DCH resources as requested, or as configured in the UE context, on the Radio Links indicated by the *E-DCH Additional RL ID* IE in the *Additional E-DCH RL Specific Information To Add* IE. Non cell specific Radio Link related parameters and non cell specific E-DPCH, UL DPCH, E-DCH and F-DPCH parameters shall take the same values as for the corresponding cell of the Primary uplink frequency.]
- [FDD if the *Multicell E-DCH Information* IE is included and contains the *Minimum Reduced E-DPDCH Gain Factor* IE, the DRNS shall use the information in the same way as for the information used on the Primary uplink frequency.]
- [FDD if the Additional E-DCH FDD Information IE is included and contains the HARQ Process Allocation For 2ms Scheduled Transmission Grant IE, the E-DCH Maximum Bitrate IE, the E-DCH Minimum Set E-TFCI IE and/or the E-DCH Processing Overload Level IE, the DRNS shall use the information in the same way as for the information used on the Primary uplink frequency.]
- [FDD If the *E-AGCH Power Offset* IE, the *E-RGCH Power Offset* IE and/or the *E-HICH Power Offset* IE is included in the *Additional E-DCH RL Specific Information To Add* IE, the DRNS shall use the information in the same way as for the information used on Primary uplink frequency.]
- [FDD If the power balancing is active with the Power Balancing Adjustment Type of the UE Context set to "Individual" in the existing Additional E-DCH RL(s) and the RADIO LINK ADDITION REQUEST message includes the *DL Reference Power* IE in the *Multicell E-DCH RL Specific Information* IE in the *Additional E-DCH RL Specific Information To Add* IE, the DRNS shall activate the power balancing and use the *DL Reference Power* IE for the power balancing procedure in the new Additional RL(s), if activation of power balancing by the RADIO LINK ADDITION REQUEST message is supported, according to subclause 8.3.15. In this case, the DRNS shall include the *DL Power Balancing Activation Indicator* IE in the *Additional E-DCH FDD Information Response* IE in the *Additional E-DCH Cell Information Response RL Add* IE in the RADIO LINK ADDITION RESPONSE message. If the DRNS starts the DL transmission and the activation of the power balancing at the same CFN, the initial power of the power balancing, i.e. *P<sub>init</sub>* shall be set to the power level which is calculated based on the following IEs in the *Additional E-DCH RL Specific Information To Add* IE (if received): *Primary CPICH Ec/No* IE or the *Enhanced Primary CPICH Ec/No* IE in the *Multicell E-DCH RL Specific Information* IE or to the power level which is calculated based on the Primary CPICH Ec/No IE or the Primary CPICH Ec/No IE or the Primary CPICH Ec/No IE in the *Multicell E-DCH RL Specific Information* IE or to the power level which is calculated based on the Primary CPICH Ec/No IE or the Primary CPICH Ec/No IE or the Primary CPICH Ec/No IE or the Primary CPICH Ec/No IE in the *Multicell E-DCH RL Specific Information* IE or to the power level which is calculated based on the power relative to the Primary CPICH power used by the existing Additional RLs.]
- [FDD For each Additional E-DCH RL not having a common generation of the TPC commands in the DL with another Additional E-DCH RL, the DRNS shall set the *RL Set ID* IE included in the *Additional E-DCH FDD Information Response* IE in the RADIO LINK ADDITION RESPONSE message to a value that uniquely identifies the RL as a RL Set within the UE Context. The generation of E-HICH related information for Additional E-DCH RLs in different RL Sets shall not be common.]
- [FDD For all Additional E-DCH RLs having a common generation of the TPC commands in the DL with another Additional E-DCH RL, the DRNS shall assign to each Additional E-DCH RL the same value for the *RL Set ID* IE included in the *Additional E-DCH FDD Information Response* IE in the RADIO LINK ADDITION RESPONSE message. This value shall uniquely identify these Additional E-DCH RLs as members of the same RL Set within the UE Context. The generation of E-HICH information for all Additional E-DCH RLs in a RL Set shall be common.]
- [FDD For each Additional E-DCH RL which has or can have a common generation of E-RGCH information with another Additional E-DCH RL (current or future) when the DRNS would contain the Additional E-DCH serving RL, the DRNS shall set the same value for the *E-DCH RL Set ID* IE for the Additional E-DCH RL in the *Additional E-DCH FDD Information Response* IE in the *Additional E-DCH Cell Information Response RL Add* IE in the RADIO LINK ADDITION RESPONSE message.]

[FDD – For every additional E-DCH RL indicated in the Additional E-DCH RL Specific Information To Add IE the DRNS may include the E-AGCH And E-RGCH/E-HICH FDD Scrambling Code IE and shall include the E-RGCH/E-HICH Channelisation Code IE and the corresponding E-HICH Signature Sequence IE and the DRNS may include the corresponding E-RGCH Signature Sequence IE in the E-DCH FDD DL Control Channel Information IE in the Additional E-DCH FDD Information Response IE in the Additional E-DCH Cell

Information Response RL Add IE in the RADIO LINK ADDITION RESPONSE message and if DRNS has no valid data for the *E-RGCH/E-HICH Channelisation Code* IE, then it shall insert the *E-RGCH and E-HICH Channelisation Code Validity Indicator* IE to indicate that the *E-RGCH/E-HICH Channelisation Code* IE contains invalid data.]

[FDD – If in the Additional E-DCH RL Specific Information To Add IE the Primary CPICH Ec/No IE or the Primary CPICH Ec/No IE and the Enhanced Primary CPICH Ec/No IE in the Multicell E-DCH RL Specific Information IE measured by the UE are included for an RL in the RADIO LINK ADDITION REQUEST message, the DRNS shall use this in the calculation of the Initial DL TX Power for this additional RL. If the Primary CPICH Ec/No IE is not present, the DRNS shall set the Initial DL TX Power based on the power relative to the Primary CPICH power used by the existing RLs.]

#### [TDD – HS-DSCH Setup:]

[TDD - If the HS-DSCH Information IE is present in the RADIO LINK ADDITION REQUEST message, then:]

- [TDD The DRNS shall setup the requested HS-PDSCH resources on the Serving HS-DSCH Radio Link indicated by the *HS-PDSCH RL ID* IE.]
- [TDD The DRNC shall include the *HARQ Memory Partitioning* IE in the *HS-DSCH TDD Information Response* IE in the RADIO LINK ADDITION RESPONSE message.]
- [TDD If the RADIO LINK ADDITION REQUEST message includes the HS-DSCH MAC-d PDU Size Format IE in the HS-DSCH Information IE, then the DRNS shall use the indicated format in user plane frame structure for HS-DSCH channels TS 25.425 [32] and MAC-hs TS 25.321 [41].
- [TDD The DRNS may use the *Traffic Class* IE for a specific HS-DSCH MAC-d flow to determine the transport bearer characteristics to apply between DRNC and Node B. If *TrCH Source Statistics Descriptor* IE is present with the value "RRC" in the *HS-DSCH MAC-d Flows Information* IE, then the DRNC should ignore the *Traffic Class* IE.]
- [TDD The DRNC shall allocate an HS-DSCH-RNTI to the UE Context and include the *HS-DSCH-RNTI* IE in the RADIO LINK ADDITION RESPONSE message.]
- [TDD The DRNC shall include in the RADIO LINK ADDITION RESPONSE message the *Binding ID* IE and *Transport Layer Address* IE for establishment of transport bearer for every HS-DSCH MAC-d flow being established.]
- [TDD If the RADIO LINK ADDITION REQUEST message includes the *Transport Layer Address* IE and *Binding ID* IE in the *HS-DSCH Information* IE for an HS-DSCH MAC-d flow, then the DRNC may use the transport layer address and the binding identifier received from the SRNC when establishing a transport bearer for the concerned HS-DSCH MAC-d flow. If the *TNL QoS* IE is included for a MAC-d flow and if ALCAP is not used, the *TNL QoS* IE may be used by the DRNS to determine the transport bearer characteristics to apply in the uplink between the DRNS and the SRNC for the related MAC-d flow.]
- [TDD If the RADIO LINK ADDITION REQUEST message includes the *MAC-hs Guaranteed Bit Rate* IE for a Priority Queue in the *HS-DSCH MAC-d Flows Information* IE in the *HS-DSCH Information* IE, then the DRNS shall use this information to optimise MAC-hs scheduling decisions for the related HSDPA Priority Queue.]
- [TDD If the RADIO LINK ADDITION REQUEST message includes the *Discard Timer* IE for a Priority Queue in the *HS-DSCH MAC-d Flows Information* IE in the *HS-DSCH Information* IE, then the DRNS shall use this information to discard out-of-date MAC-hs SDUs from the related HSDPA Priority Queue.]
- [TDD If the RADIO LINK ADDITION REQUEST message includes the *Maximum MAC-d PDU Size Extended* IE for a Priority Queue in the *HS-DSCH MAC-d Flows Information* IE in the *HS-DSCH Information* IE, then the DRNC shall ignore the *SID* IE and *MAC-d PDU Size* IE in the *MAC-d PDU Size Index* IE and use *Maximum MAC-d PDU Size Extended* IE to optimise capacity allocation for the related HSDPA Priority Queue.]
- [TDD If the RADIO LINK ADDITION REQUEST message includes *DL RLC PDU Size Format* IE for a Priority Queue in the *HS-DSCH MAC-d Flows Information* IE in the *HS-DSCH Information* IE, the *DL RLC PDU Size Format* IE may be used by the DRNS to determine the allocated capacity on user plane as described in TS 25.425 [32].]

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- [TDD The DRNC shall include the HS-DSCH Initial Capacity Allocation IE in the HS-DSCH TDD Information Response IE in the RADIO LINK ADDITION RESPONSE message for every HS-DSCH MAC-d flow being established, if the DRNS allows the SRNC to start transmission of MAC-d PDUs before the DRNS has allocated capacity on user plane as described in TS 25.425 [32]. If RADIO LINK ADDITION REQUEST message includes HS-DSCH MAC-d PDU Size Format IE in the HS-DSCH Information IE set to "Flexible MAC-d PDU Size", then DRNC shall only set in the HS-DSCH Initial Capacity Allocation IE the values for the peer of Scheduling Priority Indicator IE and Maximum MAC-d PDU Size Extended IE to the values of the corresponding peer I in RADIO LINK ADDITION REQUEST in the HS-DSCH MAC-d Flows Information IE in the HS-DSCH Information IE for a Priority Queue including Scheduling Priority Indicator IE and Maximum MAC-d PDU Size Extended IE.]
- [TDD The DRNS shall allocate HS-SCCH parameters corresponding to the HS-DSCH and the DRNC shall include the [3.84Mcps TDD HS-SCCH Specific Information Response IE] [1.28Mcps TDD HS-SCCH Specific Information Response IE] in the HS-DSCH TDD Information Response IE in the RADIO LINK ADDITION RESPONSE message.]

[1.28 Mcps TDD – *If the MIMO Activation Indicator* IE is included in the *HS-DSCH TDD Information* IE, then, The DRNS shall activate the MIMO mode for the HS-DSCH Radio Link. The DRNS shall decide the SF mode for HS-PDSCH dual stream and include the *MIMO SF Mode for HS-PDSCH dual stream* IE in the *HS-DSCH TDD Information Response* IE in the RADIO LINK ADDITION RESPONSE message.]

- [1.28 Mcps TDD – If the *UE TSO Capability LCR* IE is included in the *HS-DSCH TDD Information* IE, then the DRNC may include the *TSO HS-PDSCH Indication LCR* IE in the RADIO LINK ADDITION RESPONSE message if HS-PDSCH resources could be allocated on TS0 for the UE.]

#### [TDD – Intra-Node B Serving HS-DSCH Radio Link Change:]

[TDD – If the RADIO LINK ADDITION REQUEST message includes the *HS-PDSCH RL ID* IE, this indicates the new Serving HS-DSCH Radio Link:]

- [TDD The DRNC shall include the *HARQ Memory Partitioning* IE in the *HS-DSCH TDD Information Response* IE in the RADIO LINK ADDITION RESPONSE message.]
- [TDD The DRNS shall allocate HS-SCCH parameters corresponding to the HS-DSCH and the DRNC shall include the [3.84Mcps TDD HS-SCCH Specific Information Response IE] [1.28Mcps TDD HS-SCCH Specific Information Response LCR IE] [7.68Mcps TDD HS-SCCH Specific Information Response 7.68Mcps IE] in the HS-DSCH TDD Information Response IE in the RADIO LINK ADDITION RESPONSE message.]

#### [TDD – E-DCH:]

[3.84Mcps TDD, 1.28Mcps TDD and 7.68Mcps TDD – If the [3.84Mcps TDD – *E-DCH Information* IE][1.28Mcps TDD – *E-DCH Information* 1.28Mcps IE] [7.68Mcps TDD – *E-DCH Information* 7.68Mcps IE] is present in the RADIO LINK ADDITION REQUEST message:]

- [TDD The DRNS shall setup the requested E-DCH resources on the Radio Link indicated by the *E-DCH Serving RL* IE.]
- [TDD If the *TNL QoS* IE is included in the *E-DCH MAC-d Flows Information TDD* IE for an E-DCH MAC-d flow and if ALCAP is not used, the *TNL QoS* IE may be used by the DRNS to determine the transport bearer characteristics to apply in the uplink for the related MAC-d flow.]
- [TDD If the RADIO LINK ADDITION REQUEST message includes the *Transport Layer Address* IE and *Binding ID* IE in the *E-DCH MAC-d Flows Information TDD* IE for an E-DCH MAC-d flow, then the DRNC may use the transport layer address and the binding identifier received from the SRNC when establishing a transport bearer for the concerned E-DCH MAC-d flow.]
- [TDD If the RADIO LINK ADDITION REQUEST message includes the *E-DCH MAC-d Flow Multiplexing List* IE for an E-DCH MAC-d flow in the *E-DCH MAC-d Flows Information TDD* IE, the DRNS shall use this information for the related resource allocation operation.]
- [TDD If in the RADIO LINK ADDITION REQUEST message the *E-DCH Grant Type* IE in the *E-DCH MAC-d Flows Information TDD* IE is set to "Non-scheduled" for an E-DCH MAC-d flow the DRNS shall assume non-scheduled grants are configured for that E-DCH MAC-d flow.]

- [TDD If in the RADIO LINK ADDITION REQUEST message the *E-DCH Grant Type* IE in the *E-DCH MAC-d Flows Information TDD* IE is set to "Scheduled" the DRNS shall assume that it may issue scheduled grants for the concerned E-DCH MAC-d flow.]
- [TDD If the RADIO LINK ADDITION REQUEST message includes the *MAC-es Guaranteed Bit Rate* IE in the *E-DCH Logical Channel Information* IE in the *E-DCH MAC-d Flows Information TDD* IE, then the DRNS shall use this information to optimise MAC-e scheduling decisions for the related queue.]
- [1.28Mcps TDD If the RADIO LINK ADDITION REQUEST message includes the MAC-es Maximum Bit Rate LCR IE in the E-DCH Logical Channel Information IE in the E-DCH MAC-d Flows Information TDD IE, the DRNS shall use this information for the related resource allocation operation, and when applicable, for E-DCH scheduling.]
- [TDD If the RADIO LINK ADDITION REQUEST message includes the Maximum MAC-d PDU Size Extended IE for a E-DCH Logical Channel in the E-DCH MAC-d Flows Information TDD IE in the E-DCH Information IE, then the DRNS shall ignore the MAC-d PDU Size IE in the MAC-d PDU Size List IE and use Maximum MAC-d PDU Size Extended IE to optimise capacity allocation for the related E-DCH Logical Channel and use the indicated format in user plane frame structure for E-DCH channels TS 25.425 [32] and MAC TS 25.321 [41].]
- [3.84Mcps TDD If the RADIO LINK ADDITION REQUEST message includes the *E-DCH TDD Maximum Bitrate* IE in the *E-DCH TDD Information* IE for an E-DCH, the DRNS shall use this information for the related resource allocation operation, and when applicable, for E-DCH scheduling.]
- [1.28Mcps TDD If the RADIO LINK ADDITION REQUEST message includes the *E-DCH Physical Layer Category LCR* IE or *Extended E-DCH Physical Layer Category LCR* IE in the *E-DCH TDD Information LCR* IE for an E-DCH, the DRNS shall use this information for the related resource allocation operation, and when applicable, for E-DCH scheduling.]
- [7.68Mcps TDD If the RADIO LINK ADDITION REQUEST message includes the *E-DCH TDD Maximum Bitrate* 7.68*Mcps* IE in the *E-DCH TDD Information* 7.68*Mcps* IE for an E-DCH, the DRNS shall use this information for the related resource allocation operation, and when applicable, for E-DCH scheduling.]
- [3.84Mcps TDD If the RADIO LINK ADDITION REQUEST message includes the *E-DCH Processing Overload Level* IE in the *E-DCH TDD Information* IE, then if the DRNS could not decode the E-PUCH for the last consecutive number of TTIs, indicated in the *E-DCH Processing Overload Level* IE, because of a processing issue, the DRNS shall notify the SRNC by initiating the Radio Link Failure procedure.]
- [7.68Mcps TDD If the RADIO LINK ADDITION REQUEST message includes the *E-DCH Processing Overload Level* IE in the *E-DCH TDD Information* 7.68Mcps IE, then if the DRNS could not decode the E-PUCH for the last consecutive number of TTIs, indicated in the *E-DCH Processing Overload Level* IE, because of a processing issue, the DRNS shall notify the SRNC by initiating the Radio Link Failure procedure.]
- [1.28Mcps TDD If the RADIO LINK ADDITION REQUEST message includes the *E-DCH Processing Overload Level* IE in the *E-DCH TDD Information LCR* IE, then if the DRNS could not decode the E-PUCH for the last consecutive number of TTIs, indicated in the *E-DCH Processing Overload Level* IE, because of a processing issue, the DRNS shall notify the SRNC by initiating the Radio Link Failure procedure.]
- [TDD The DRNS may use the *Traffic Class* IE for a specific E-DCH MAC-d flow to determine the transport bearer characteristics to apply between DRNC and Node B.]
- [TDD If the RADIO LINK ADDITION REQUEST message includes the [3.84Mcps TDD *E-DCH TDD Information* IE][1.28Mcps TDD *E-DCH TDD Information LCR* IE] in the *E-DCH MAC-d Flows Information TDD* IE, then the DRNS shall use this value as a power offset for the transmission of scheduling information without any MAC-d PDUs.]
- [1.28Mcps TDD If the RADIO LINK ADDITION REQUEST message includes the *Maximum Number of Retransmission for Scheduling Info LCR* IE and the *E-DCH Retransmission timer for Scheduling Info LCR* IE in the *E-DCH TDD Information LCR* IE, then the DRNS shall use these parameters for the transmission of scheduling information without any MAC-d PDUs.]
- [3.84Mcps TDD The DRNS shall determine any non-scheduled resource to be granted for the radio link, and return this in the *E-DCH Non-scheduled Grant Information TDD* IE in the *E-DCH Information Response* IE in the RADIO LINK ADDITION RESPONSE message.]

- [3.84Mcps TDD The DRNS shall allocate an E-RNTI identifier and include the E-RNTI identifier and the E-AGCH(s) assigned in the *E-DCH Information Response* IE in the RADIO LINK ADDITION RESPONSE message.]
- [1.28Mcps TDD The DRNS shall determine any non-scheduled resource to be granted for the radio link, and return this in the *E-DCH Non-scheduled Grant Information LCR TDD* IE in the *E-DCH Information Response* 1.28Mcps IE in the RADIO LINK ADDITION RESPONSE message.]
- [1.28Mcps TDD The DRNS shall allocate an E-RNTI identifier and include the E-RNTI identifier, the E-AGCH(s) and E-HICH(s) assigned in the *E-DCH Information Response 1.28Mcps* IE in the RADIO LINK ADDITION RESPONSE message.]
- [7.684Mcps TDD The DRNS shall determine any non-scheduled resource to be granted for the radio link, and return this in the *E-DCH Non-scheduled Grant Information* 7.68Mcps *TDD* IE in the *E-DCH Information Response* 7.68Mcps IE in the RADIO LINK ADDITION RESPONSE message.]
- [7.68Mcps TDD The DRNS shall allocate an E-RNTI identifier and include the E-RNTI identifier and the E-AGCH(s) assigned in the *E-DCH Information Response* 7.68Mcps IE in the RADIO LINK ADDITION RESPONSE message.]

#### [3.84Mcps TDD – Intra-Node B Serving E-DCH Radio Link Change:]

[3.84Mcps TDD – If the RADIO LINK ADDITION REQUEST message includes the *E-DCH Serving RL* IE, this indicates the new Serving E-DCH Radio Link:]

- [3.84Mcps TDD – The DRNS shall allocate E-AGCH parameters corresponding to the E-DCH and include the *E-AGCH Specific Information Response* IE in the *E-DCH Information Response* IE in the RADIO LINK ADDITION RESPONSE message.]

#### [1.28Mcps TDD – Intra-Node B Serving E-DCH Radio Link Change:]

[1.28Mcps TDD – If the RADIO LINK ADDITION REQUEST message includes the *E-DCH Serving RL* IE, this indicates the new Serving E-DCH Radio Link:]

- [1.28Mcps TDD – The DRNS shall allocate E-AGCH parameters and E-HICH parameters corresponding to the E-DCH and include the *E-AGCH Specific Information Response* IE and the *E-HICH Specific Information Response* IE in the *E-DCH Information Response* 1.28Mcps IE in the RADIO LINK ADDITION RESPONSE message.]

#### [7.68Mcps TDD – Intra-Node B Serving E-DCH Radio Link Change:]

[7.68Mcps TDD – If the RADIO LINK ADDITION REQUEST message includes the *E-DCH Serving RL* IE, this indicates the new Serving E-DCH Radio Link:]

- [7.68Mcps TDD – The DRNS shall allocate E-AGCH parameters corresponding to the E-DCH and include the *E-AGCH Specific Information Response* 7.68Mcps TDD IE in the *E-DCH Information Response* 7.68Mcps IE in the RADIO LINK ADDITION RESPONSE message.]

#### [1.28 Mcps TDD – Continuous Packet Connectivity Handling:]

[1.28 Mcps TDD – If the RADIO LINK ADDITION REQUEST message includes the Continuous Packet *Connectivity DRX Information LCR* IE, then the DRNS shall take account into these parameters to decide the DRX operation related parameters and configure the concerned UE Context for DRX operation according to TS 25.213 [21] and include the parameter(s) in the *Continuous Packet Connectivity DRX Information Response LCR* IE in the RADIO LINK ADDITION RESPONSE message.]

[1.28 Mcps TDD - If the *Inactivity Threshold for UE DRX Cycle Ext* IE is included in the *Continuous Packet Connectivity DRX Information LCR* IE, then the DRNS may use this value to determine the Inactivity Threshold for UE DRX Cycle according to TS 25.224 [22].]

[1.28 Mcps TDD – If the RADIO LINK ADDITION REQUEST message includes the *HS-DSCH Semi-Persistent* scheduling Information LCR IE, then:]

- [1.28 Mcps TDD – The DRNS shall configure the Serving HS-DSCH Radio Link indicated by the *HS-PDSCH RL ID* IE for HS-DSCH Semi-Persistent scheduling operation according to TS 25.213 [21].]

- [1.28 Mcps TDD The DRNS shall allocate the HS-SICH information needed for HS-DSCH Semi-Persistent scheduling operation and include the *HS-DSCH Semi-Persistent scheduling Information Response LCR* IE in the RADIO LINK ADDITION RESPONSE message.]
- [1.28 Mcps TDD If the HS-DSCH Semi-Persistent Resource Reservation Indicator IE is included in the HS-DSCH Semi-Persistent scheduling Information LCR IE, then the DRNS shall include Allcoated HS-PDSCH Semi-persistent resource IE in the RADIO LINK ADDITON RESPONSE message.]
- [1.28 Mcps TDD The DRNS shall include the *Buffer Size for HS-DSCH Semi-Persistent scheduling* IE in the RADIO LINK ADDITION RESPONSE message.]
- [1.28 Mcps TDD The DRNS shall include the *Number of Processes for HS-DSCH Semi-Persistent scheduling* IE in the RADIO LINK ADDITION RESPONSE message.]
- [1.28 Mcps TDD If the HS-DSCH Semi-Persistent scheduling operation Indicator IE is included in the HS-DSCH Semi-Persistent scheduling Information LCR IE, then the DRNS shall apply this information for HS-DSCH Semi-Persistent scheduling operation.]

[1.28 Mcps TDD – If the RADIO LINK ADDITION REQUEST message includes the *E-DCH Semi-Persistent* scheduling Information LCR IE, then:]

- [1.28 Mcps TDD The DRNS shall configure the Serving E-DCH Radio Link indicated by the *E-DCH Serving RL* IE for E-DCH Semi-Persistent scheduling operation according to TS 25.213 [21].]
- [1.28 Mcps TDD If the *E-DCH Semi-Persistent Resource Reservation Indicator* IE is included in the *E-DCH Semi-Persistent scheduling Information LCR* IE, then the DRNS shall include *Allcoated E-DCH Semi-persistent resource* IE in the RADIO LINK ADDITON RESPONSE message.]
- [1.28 Mcps TDD If the *E-DCH Semi-Persistent scheduling Indicator* IE is included in the *E-DCH Semi-Persistent scheduling Information LCR* IE, then the DRNS shall apply this information for E-DCH Semi-Persistent scheduling operation.]

#### **Response message:**

If all requested RLs are successfully added, the DRNC shall respond with a RADIO LINK ADDITION RESPONSE message.

After sending the RADIO LINK ADDITION RESPONSE message the DRNS shall continuously attempt to obtain UL synchronisation on the Uu interface.

For each RL for which the *Delayed Activation* IE is not included in the RADIO LINK ADDITION REQUEST message the DRNS shall:

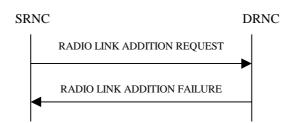
- [FDD -start transmission on the DL DPDCH(s) of the new RL as specified in ref. TS 25.427 [4].]
- [TDD start transmission on the new RL immediately as specified in ref. TS 25.427 [4].]

For each RL for which the *Delayed Activation* IE is included in the RADIO LINK ADDITION REQUEST message, the DRNS shall:

- if the Delayed Activation IE indicates "Separate Indication":
  - not start any DL transmission for the concerning RL on the Uu interface;
- if the Delayed Activation IE indicates "CFN":
  - [FDD start transmission on the DL DPDCH(s) of the new RL as specified in ref. TS 25.427 [4], however never before the CFN indicated in the *Activation CFN* IE.]
- [TDD start transmission on the new RL at the CFN indicated in the *Activation CFN* IE as specified in ref. TS 25.427 [4].]

[1.28 Mcps TDD – if the DRNS assigns one or more PLCCH sequence numbers to the radio link, then the PLCCH assignment(s) shall be sent to the SRNC in the RADIO LINK ADDITION RESPONSE message.]

## 8.3.2.3 Unsuccessful Operation



#### Figure 8: Radio Link Addition procedure: Unsuccessful Operation

If the establishment of at least one RL is unsuccessful, the DRNC shall respond with a RADIO LINK ADDITION FAILURE message. DRNC shall include in the RADIO LINK ADDITION FAILURE message a general *Cause* IE or a *Cause* IE for each failed radio link. The *Cause* IE indicates the reason for failure.

[FDD – If some RL(s) were established successfully, the DRNC shall indicate this in the RADIO LINK ADDITION FAILURE message in the same way as in the RADIO LINK ADDITION RESPONSE message.]

[FDD – If the requested Serving HS-DSCH Radio Link Change was successful, or if the addition of the requested serving HS-DSCH Radio Link was successful or existed already but the Serving HS-DSCH Radio Link change was unsuccessful, the DRNS shall indicate this in the *HS-DSCH Serving Cell Change Information Response* IE in the RADIO LINK ADDITION FAILURE message]

[FDD – If the requested secondary serving HS-DSCH Radio Link Change was successful, or if the addition of the requested secondary serving HS-DSCH Radio Link was successful or existed already but the secondary serving HS-DSCH Radio Link change was unsuccessful, the DRNS shall indicate this in the *HS-DSCH Secondary Serving Cell Change Information Response* IE in the *Additional HS Cell Information Response* IE in the RADIO LINK ADDITION FAILURE message.]

[FDD – If the requested Serving E-DCH Radio Link Change was successful, or if the addition of the requested serving E-DCH Radio Link was successful or existed already but the Serving E-DCH Radio Link change was unsuccessful, the DRNS shall indicate this in the *E-DCH Serving Cell Change Information Response* IE in the RADIO LINK ADDITION FAILURE message.]

[FDD – If the *MIMO Activation Indicator* IE is included and the *Power Offset For S-CPICH for MIMO Request Indicator* IE is not included in the *HS-DSCH FDD Information* IE in the *HS-DSCH Serving Cell Change Information* IE in the RADIO LINK ADDITION REQUEST message or the power offset for S-CPICH for MIMO Request indicator has not been configured in the UE Context but MIMO pilot configuration with Primary and Secondary CPICH is set up with a non-zero power offset on the cell where the Serving HS-DSCH Radio Link is established, the setup of the serving HS-DSCH Radio Link shall be reported as failed and the DRNC shall include in the RADIO LINK ADDITION FAILURE message the *Cause* IE.]

[FDD – If the requested additional serving E-DCH Radio Link Change was successful, or if the addition of the requested additional serving E-DCH Radio Link was successful or existed already but the additional serving E-DCH Radio Link change was unsuccessful, the DRNS shall indicate this in the *Additional E-DCH Secondary Serving Cell Change Information Response* IE in the *Additional E-DCH Cell Change Information Response* IE in the RADIO LINK ADDITION FAILURE message.]

Typical cause values are:

#### **Radio Network Layer Causes:**

DL Radio Resources not Available; UL Radio Resources not Available; Combining Resources not Available; Combining not Supported Cell not Available; [FDD – Requested Tx Diversity Mode not Supported;] Power Level not Supported; CM not Supported; Reconfiguration CFN not Elapsed; Number of DL Codes not Supported; Number of UL codes not Supported; [FDD – DPC mode change not Supported;] Cell reserved for operator use; Delayed Activation not supported; [FDD – F-DPCH not supported;] E-DCH not supported; [FDD – MIMO not supported;] [FDD – E-DCH TTI2ms not supported;] [FDD - Continuous Packet Connectivity DTX-DRX operation not available;] [FDD – Continuous Packet Connectivity UE DTX Cycle not available;] [FDD – MIMO not available;] [FDD – F-DPCH Slot Format operation not supported;] [FDD – E-DPCCH Power Boosting not supported;] [FDD – SixtyfourQAM DL and MIMO Combined not available;] [FDD – Multi Cell operation not available;] [FDD – Multi Cell operation not supported;] [1.28Mcps TDD – MIMO not supported;] [1.28Mcps TDD – MIMO not available;] [1.28Mcps TDD - SixtyfourQAM DL and MIMO Combined not available;] [FDD – TX diversity for MIMO UE on DL Control Channels not available;] [FDD – Single Stream MIMO not available;] [FDD – Multi Cell operation with MIMO not available;] [FDD – Multi Cell operation with MIMO not supported;] [FDD – Multi Cell E-DCH Operation not supported;] [FDD – Multi Cell E-DCH Operation not available;] [FDD – Multi Cell operation with Single Stream MIMO not available;] [FDD – Multi Cell operation with Single Stream MIMO not supported;] [FDD – Cell Specific Tx Diversity Handling For Multi Cell Operation Not Available;]

[FDD – Cell Specific Tx Diversity Handling For Multi Cell Operation Not Supported.]

#### **Transport Layer Causes:**

Transport Resource Unavailable.

#### **Miscellaneous Causes:**

Control Processing Overload; HW Failure; Not enough User Plane Processing Resources.

#### 8.3.2.4 Abnormal Conditions

If the RADIO LINK ADDITION REQUEST message includes a C-ID IE corresponding to a cell reserved for operator use and the Permanent NAS UE Identity is not available in the DRNC for the considered UE Context, the DRNC shall reject the procedure for this particular Radio Link and send the RADIO LINK ADDITION FAILURE message.

[FDD - If the RADIO LINK ADDITION REQUEST message includes the Transmission Gap Pattern Sequence Status IEs in the Active Pattern Sequence Information IE and it does not address exactly all ongoing compressed mode patterns the DRNS shall reject the Radio Link Addition procedure and shall respond with a RADIO LINK ADDITION FAILURE message with the *Cause* IE value "Invalid CM settings".]

[FDD - If the RADIO LINK ADDITION REQUEST message is used to establish a new RL without compressed mode when compressed mode is active for the existing RL(s) (as specified in subclause 8.3.2.2), and if at least one of the new RLs is to be established in a cell that has the same UARFCN (both UL and DL) as at least one cell with an already existing RL, the DRNS shall reject the Radio Link Addition procedure and shall respond with a RADIO LINK ADDITION FAILURE message with the cause value "Invalid CM settings".]

[FDD – If the power balancing is active with the Power Balancing Adjustment Type of the UE Context set to "Individual" in the existing RL(s) and if the DL Reference Power IEs are included in the RL Information IE but the DL Reference Power IE is not present for each RL in the RL Information IE, the DRNC shall reject the Radio Link Addition procedure and shall respond with a RADIO LINK ADDITION FAILURE message.]

[FDD – If the RADIO LINK ADDITION REQUEST message includes the *DL Reference Power* IEs in the *RL Information* IE but the power balancing is not active in the existing RL(s) or the power balancing is active with the Power Balancing Adjustment Type of the UE Context set to "Common" in the existing RL(s), the DRNC shall reject the Radio Link Addition procedure and shall respond with a RADIO LINK ADDITION FAILURE message with the cause value "Power Balancing status not compatible".]

[FDD – If the RADIO LINK ADDITION REQUEST message includes the *Enhanced Primary CPICH Ec/No* IE, but not the *Primary CPICH Ec/No* IE, then the DRNC shall reject the procedure using the RADIO LINK ADDITION FAILURE message.]

If the RADIO LINK ADDITION REQUEST message includes the *Transport Layer Address* IE and the *Binding ID* IE in the *RL Specific DCH Information* IE [FDD – or for an E-DCH MAC-d flow in *RL Specific E-DCH Information* IE] included in the *RL Information* IE for a specific RL and the *Diversity Control Field* IE is set to "Must" [FDD – or the RL is combined with existing E-DCH RL which transport bearer is not established in the DRNS], the DRNC shall reject the Radio Link Addition procedure and respond with the RADIO LINK ADDITION FAILURE message.

If ALCAP is not used, if the RADIO LINK ADDITION REQUEST message does not include the *Transport Layer* Address IE and the *Binding ID* IE in the *RL Specific DCH Information* IE nor *RL Specific E-DCH Information* IE in the *RL Information* IE for a specific RL and the *Diversity Control Field* IE is set to "May", the DRNC shall reject the Radio Link Addition procedure and respond with the RADIO LINK ADDITION FAILURE message.

If ALCAP is not used, if the RADIO LINK ADDITION REQUEST message does not include the *Transport Layer Address* IE and the *Binding ID* IE in the *RL Specific DCH Information* IE in the *RL Information* IE for a specific RL and the *Diversity Control Field* IE is set to "Must Not", the DRNC shall reject the Radio Link Addition procedure and respond with the RADIO LINK ADDITION FAILURE message.

If ALCAP is not used, if the RADIO LINK ADDITION REQUEST message does not include the *Transport Layer* Address IE and the *Binding ID* IE in [FDD – the *RL Specific E-DCH Information* IE in the *RL Information* IE for the first E-DCH RL][TDD – the *E-DCH MAC-d Flows Information TDD* IE], the DRNC shall reject the Radio Link Addition procedure and respond with the RADIO LINK ADDITION FAILURE message.

If ALCAP is not used, if the RADIO LINK ADDITION REQUEST message does not include the *Transport Layer Address* IE and the *Binding ID* IE for an HS-DSCH MAC-d Flow in the *HS-DSCH MAC-d Flows Information* IE, the DRNC shall reject the Radio Link Addition procedure and respond with the RADIO LINK ADDITION FAILURE message.

If the RADIO LINK ADDITION REQUEST message includes the *Transport Layer Address* IE or the *Binding ID* IE, and not both are present for a transport bearer intended to be established, the DRNC shall reject the Radio Link Addition procedure and respond with the RADIO LINK ADDITION FAILURE message.

[FDD – If the RADIO LINK ADDITION REQUEST message includes the *HS-DSCH Serving Cell Change Information* IE but not the *HS-DSCH FDD Information* IE and the UE Context is not configured for HS-DSCH, then the DRNS shall reject the procedure using the RADIO LINK ADDITION FAILURE message.]

[FDD – If the RADIO LINK ADDITION REQUEST message includes the *Serving Cell Change CFN* IE but neither the *Serving E-DCH RL* IE nor the *HS-DSCH Serving Cell Change Information* IE, then the DRNS shall reject the procedure using the RADIO LINK ADDITION FAILURE message.]

[FDD – If the RADIO LINK ADDITION REQUEST message includes the *Serving E-DCH RL* IE but the UE Context is not configured for E-DCH, then the DRNS shall reject the procedure using the RADIO LINK ADDITION FAILURE message.]

[FDD – If the *E-DCH FDD Information* IE is present in the RADIO LINK ADDITION REQUEST message, but the *E-DPCH Information* IE is not present, then the DRNS shall reject the procedure using the RADIO LINK ADDITION FAILURE message.]

[FDD – If the RADIO LINK ADDITION REQUEST message includes the *E-DCH RL Indication* IE set to "E-DCH", but no *E-DCH FDD Information* IE, and the UE Context is not configured for E-DCH, then the DRNC shall reject the procedure using the RADIO LINK ADDITION FAILURE message.]

[FDD – If the RADIO LINK ADDITION REQUEST message includes the *E-DCH FDD Information* IE but no *E-DCH RL Indication* IE set to "E-DCH", then the DRNC shall reject the procedure using the RADIO LINK ADDITION FAILURE message.]

[TDD – If the RADIO LINK ADDITION REQUEST message includes the *HS-PDSCH RL-ID* IE not equal to the *RL ID* IE, the DRNC shall reject the procedure using the RADIO LINK ADDITION FAILURE message.]

[TDD – If the RADIO LINK ADDITION REQUEST message includes the *E-DCH Serving RL* IE not equal to the *RL ID* IE, the DRNS shall reject the procedure using the RADIO LINK ADDITION FAILURE message.]

If the RADIO LINK ADDITION REQUEST message contains the *HS-PDSCH RL ID* IE [FDD – in the *HS-DSCH Serving Cell Change Information* IE] and/or *Serving E-DCH RL* IE and if both HS-DSCH and E-DCH are configured in the DRNS but the Serving HS-DSCH Radio Link and the Serving E-DCH Radio Link are not in the same cell then the DRNC shall reject the procedure using the RADIO LINK ADDITION FAILURE message.

[FDD – If the RADIO LINK ADDITION REQUEST message contains the *HS-DSCH Serving Cell Change Information* IE and the *E-DPCH Information* IE which includes the *HS-DSCH Configured Indicator* IE set as "HS-DSCH not configured" then the DRNC shall reject the procedure using the RADIO LINK ADDITION FAILURE message.]

If the RADIO LINK ADDITION REQUEST message includes the *Maximum MAC-d PDU Size Extended* IE for a Priority Queue in the *HS-DSCH MAC-d Flows Information* IE in the *HS-DSCH Information* IE [FDD – in the *HS-DSCH Serving Cell Change Information*] and the *HS-DSCH MAC-d PDU Size Format* IE in the *HS-DSCH Information* IE [FDD – in the *HS-DSCH Serving Cell Change Information*] has the value "Indexed MAC-d PDU Size", the DRNC shall reject the procedure using the RADIO LINK ADDITION FAILURE message.

If the RADIO LINK ADDITION REQUEST message does not include the *Maximum MAC-d PDU Size Extended* IE for a Priority Queue in the *HS-DSCH MAC-d Flows Information* IE in the *HS-DSCH Information* IE [FDD – in the *HS-DSCH Serving Cell Change Information*] and the *HS-DSCH MAC-d PDU Size Format* IE in the *HS-DSCH Information* IE [FDD – in the *HS-DSCH Serving Cell Change Information*] has the value "Flexible MAC-d PDU Size", the DRNC shall reject the procedure using the RADIO LINK ADDITION FAILURE message.

[FDD – If the RADIO LINK ADDITION REQUEST message contains, for at least one logical channel, the *Maximum MAC-d PDU Size Extended* IE in the *E-DCH MAC-d Flows Information* IE in the *E-DCH FDD Information* IE and there exist a logical channel for which the *Maximum MAC-d PDU Size Extended* IE in the *E-DCH MAC-d Flows Information* IE in the *E-DCH FDD Information* IE is not present, the DRNC shall reject the procedure using the RADIO LINK ADDITION FAILURE message.]

[TDD – If the RADIO LINK ADDITION REQUEST message contains, for at least one logical channel, the *Maximum MAC-d PDU Size Extended* IE in the *E-DCH MAC-d Flows Information TDD* IE in the *E-DCH Information* IE, and there exist a logical channel for which the *Maximum MAC-d PDU Size Extended* IE in the *E-DCH MAC-d Flows Information TDD* IE in the *E-DCH Information* IE is not present, the DRNC shall reject the procedure using the RADIO LINK ADDITION FAILURE message.]

[FDD – If the RADIO LINK ADDITION REQUEST message contains the *Transport Bearer Not Requested Indicator* IE for a DCH but the DCH is configured to be included as a part of the downlink CCTrCH, the DRNC shall reject the procedure using the RADIO LINK ADDITION FAILURE message.]

[FDD – If the RADIO LINK ADDITION REQUEST message contains the *MIMO Activation Indicator* IE, *Sixtyfour QAM Usage Allowed Indicator* IE set to "Allowed", the *Additional HS Cell Information RL Addition* IE and/or the *Single Stream MIMO Activation Indicator* IE, but does not contain the *HS-DSCH MAC-d PDU Size Format* IE set to "Flexible MAC-d PDU Size", then the DRNC shall reject the procedure using the RADIO LINK ADDITION FAILURE message.]

[FDD – If the RADIO LINK ADDITION REQUEST message contains the *Serving E-DCH RL ID* IE but contains the *Transport Bearer Not Requested Indicator* IE in the RL Specific E-DCH Information for the new Serving E-DCH RL or there is at least one E-DCH MAC-d flow which transport bearer was not configured in the existing E-DCH RL to be combined with the Serving E-DCH RL, the DRNC shall reject the procedure using the RADIO LINK ADDITION FAILURE message.]

[FDD – If the RADIO LINK ADDITION REQUEST message includes the *Transport Bearer Not Requested Indicator* IE for a DCH or an E-DCH MAC-d Flow for a specific RL and the specific RL is combined with the existing RL which the transport bearer is established for the DCH or the E-DCH MAC-d Flow in DRNS, the DRNC shall reject the procedure using the RADIO LINK ADDITION FAILURE message.]

[FDD – If the RADIO LINK ADDITION REQUEST message contains the *Additional HS Cell Information RL Addition* IE indicating a secondry serving cell that is not in the same Node B as the new serving HS-DSCH cell, then the DRNC shall reject the procedure using the RADIO LINK ADDITION FAILURE message]

[FDD – If the RADIO LINK ADDITION REQUEST message contains the *Additional HS Cell Information RL Addition* IE and if the HS-DSCH is not configured in the DRNS Communication Context and the *HS-DSCH Information* IE is not present, then the DRNS shall reject the procedure using the RADIO LINK SETUP FAILURE message.]

If the RADIO LINK ADDITION REQUEST message includes *DL RLC PDU Size Format* IE for a Priority Queue in the *HS-DSCH MAC-d Flows Information* IE in the *HS-DSCH Information* IE [FDD – in the *HS-DSCH Serving Cell Change Information* IE] set to "Flexible RLC PDU Size", *HS-DSCH MAC-d PDU Size Format* IE in the *HS-DSCH Information* IE [FDD – in the *HS-DSCH Serving Cell Change Information* IE] has the value "Indexed MAC-d PDU Size", the DRNC shall reject the procedure using the RADIO LINK ADDITION FAILURE message.

If the RADIO LINK ADDITION REQUEST message does not include the *Maximum MAC-d PDU Size Extended* IE for a Priority Queue in the *HS-DSCH MAC-d Flows Information* IE in the *HS-DSCH Information* IE [FDD – in the *HS-DSCH Serving Cell Change Information* IE] and the *DL RLC PDU Size Format* IE in the *HS-DSCH Information* IE [FDD – in the *HS-DSCH Serving Cell Change Information* IE] has the value "Flexible RLC PDU Size", the DRNC shall reject the procedure using the RADIO LINK ADDITION FAILURE message.

[FDD – If the RADIO LINK ADDITION REQUEST message contains a *MIMO Activation Indicator* IE and a *Single Stream MIMO Activation Indicator* IE in the *HS-DSCH FDD Information* IE in the *HS-DSCH Serving Cell Change Information* IE or in the *HS-DSCH FDD Secondary Serving Information* IE in the *Additional HS Cell Information RL Addition* IE, then the DRNC shall reject the procedure using the RADIO LINK ADDITION FAILURE message.]

[FDD – If the RADIO LINK ADDITION REQUEST message contains the *Additional E-DCH Cell Information RL Setup Req* IE and if the *E-DPCH Information* IE is not present or the E-DPCH Information was not configured in the UE Context, then the DRNS shall reject the procedure using the RADIO LINK ADDITION FAILURE message.]

[FDD – If the RADIO LINK ADDITION REQUEST message contains the *Additional E-DCH Cell Information RL Add Req* IE and there exist a logical channel for which the *Maximum MAC-d PDU Size Extended* IE in the *E-DCH MAC-d Flows Information* IE in the *E-DCH FDD Information* IE is not present, the DRNS shall reject the procedure using the RADIO LINK ADDITION FAILURE message.]

[FDD – If the RADIO LINK ADDITION REQUEST message contains the *Additional E-DCH Cell Information RL Add Req* IE and the *C-ID* IE is not included in the *Additional E-DCH RL Specific Information To Setup* IE in the *Additional E-DCH FDD Setup Information* IE in the *Additional E-DCH Cell Information Setup* IE, but the Radio Link indicated by *the E-DCH Additional RL ID* IE is not configured in the current UE context as a Secondary Serving HS-DSCH radio link without any configured Additional E-DCH, the DRNS shall reject the procedure using the RADIO LINK ADDITION FAILURE message.]

[FDD – If the RADIO LINK ADDITION REQUEST message contains the *Diversity Mode* IE in the *HS-DSCH FDD Secondary Serving Information* IE in the *Additional HS Cell Information RL Addition* IE and the secondary serving HS-DSCH is already configured in the UE Context, then the DRNS shall reject the procedure using the RADIO LINK ADDITION FAILURE message.]

[FDD – If the secondary serving HS-DSCH is not configured in the UE Context and if the RADIO LINK ADDITION REQUEST message contains in the *HS-DSCH FDD Secondary Serving Information* IE in the *Additional HS Cell Information RL Addition* IE the *Diversity Mode* IE not set to "None" but not the *Transmit Diversity Indicator* or contains the *Transmit Diversity Indicator* but not the *Diversity Mode* IE not set to "None", then the DRNS shall reject the procedure using the RADIO LINK SETUP FAILURE message.]

# 8.3.3 Radio Link Deletion

## 8.3.3.1 General

The Radio Link Deletion procedure is used to release the resources in a DRNS for one or more established radio links towards a UE.

This procedure shall use the signalling bearer connection for the relevant UE Context.

The Radio Link Deletion procedure may be initiated by the SRNC at any time after establishing a Radio Link.

## 8.3.3.2 Successful Operation

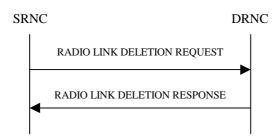


Figure 9: Radio Link Deletion procedure, Successful Operation

The procedure is initiated with a RADIO LINK DELETION REQUEST message sent from the SRNC to the DRNC.

Upon receipt of this message, the DRNS shall delete the radio link(s) identified by the *RL ID* IE(s) in the message, shall release all associated resources and shall respond to the SRNC with a RADIO LINK DELETION RESPONSE message.

If the radio link(s) to be deleted represent the last radio link(s) for the UE in the DRNS and if the UE is not using any common resources in the DRNS, then the DRNC shall release the UE Context.

[FDD – After deletion of the RL(s), the UL out-of-sync algorithm defined in ref. TS 25.214 [10] shall for each of the remaining RL Set(s) use the maximum value of the parameters N\_OUTSYNC\_IND and T\_RLFAILURE that are configured in the cells supporting the radio links of the RL Set. The UL in-sync algorithm defined in ref. TS 25.214 [10] shall for each of the remaining RL Set(s) use the minimum value of the parameters N\_INSYNC\_IND that are configured in the cells supporting the radio links of the RL Set.]

[FDD – If the RL indicated by the *RL ID* IE in the RADIO LINK DELETION REQUEST message is the serving HS-DSCH Radio link and a related secondary serving HS-DSCH Radio Link exists in the DRNS, the DRNC shall delete the secondary serving HS-DSCH Radio Link.]

[FDD – If the RL indicated by the *RL ID* IE in the RADIO LINK DELETION REQUEST message is the secondary serving HS-DSCH Radio link, the DRNC shall delete the secondary serving HS-DSCH Radio Link.]

## 8.3.3.3 Unsuccessful Operation

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## 8.3.3.4 Abnormal Conditions

If the RL indicated by the *RL ID* IE does not exist, the DRNC shall respond with the RADIO LINK DELETION RESPONSE message.

# 8.3.4 Synchronised Radio Link Reconfiguration Preparation

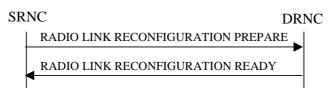
## 8.3.4.1 General

The Synchronised Radio Link Reconfiguration Preparation procedure is used to prepare a new configuration of Radio Link(s) related to one UE-UTRAN connection within a DRNS.

This procedure shall use the signalling bearer connection for the relevant UE Context.

The Synchronised Radio Link Reconfiguration Preparation procedure shall not be initiated if a Prepared Reconfiguration exists, as defined in subclause 3.1.

## 8.3.4.2 Successful Operation



## Figure 10: Synchronised Radio Link Reconfiguration Preparation procedure, Successful Operation

The Synchronised Radio Link Reconfiguration Preparation procedure is initiated by the SRNC by sending the RADIO LINK RECONFIGURATION PREPARE message to the DRNC.

Upon receipt, the DRNS shall reserve necessary resources for the new configuration of the Radio Link(s) according to the parameters given in the message. Unless specified below, the meaning of parameters is specified in other specifications.

If the RADIO LINK RECONFIGURATION PREPARE message includes the *Allowed Queuing Time* IE the DRNS may queue the request the time corresponding to the value of the *Allowed Queuing Time* IE before starting to execute the request.

The DRNS shall prioritise resource allocation for the RL(s) to be modified according to Annex A.

If the *UE Aggregate Maximum Bit Rate* IE is contained in the RADIO LINK RECONFIGURATION PREPARE message, the DRNS shall, if supported, store the received UE Aggregate Maximum Bit Rate parameters to control the aggregate data rate of non GBR traffic for this UE.

### **DCH Modification:**

If the RADIO LINK RECONFIGURATION PREPARE message includes any *DCHs To Modify* IEs, the DRNS shall treat them each as follows:

- If the *DCHs To Modify* IE includes multiple *DCH Specific Info* IEs then the DRNS shall treat the DCHs in the *DCHs To Modify* IE as a set of co-ordinated DCHs. The DRNS shall include these DCHs in the new configuration only if it can include all of them in the new configuration.
- If the *DCHs To Modify* IE includes the *UL FP Mode* IE for a DCH or a set of co-ordinated DCHs to be modified, the DRNS shall apply the new FP Mode in the Uplink of the user plane for the DCH or the set of co-ordinated DCHs in the new configuration.
- If the *DCHs To Modify* IE includes the *ToAWS* IE for a DCH or a set of co-ordinated DCHs to be modified, the DRNS shall apply the new ToAWS in the user plane for the DCH or the set of co-ordinated DCHs in the new configuration.
- If the *DCHs To Modify* IE includes the *ToAWE* IE for a DCH or a set of co-ordinated DCHs to be modified, the DRNS shall apply the new ToAWE in the user plane for the DCH or the set of co-ordinated DCHs in the new configuration.
- If the *DCHs To Modify* IE contains a *DCH Specific Info* IE which includes the *Frame Handling Priority* IE for a DCH to be modified, the DRNS should store this information for this DCH in the new configuration. The received Frame Handling Priority should be used when prioritising between different frames in the downlink on the radio interface in congestion situations within the DRNS once the new configuration has been activated.
- If the *DCHs To Modify* IE contains a *DCH Specific Info* IE which includes the *Traffic Class* IE for a DCH to be modified, the DRNS should store this information for this DCH in the new configuration. The *Traffic Class* IE may be used to determine the transport bearer characteristics to apply between DRNC and Node B for the related DCH or set of co-ordinated DCHs. The DRNC should ignore the *Traffic Class* IE if the *TrCH Source Statistics Descriptor* IE for this DCH indicates the value "RRC".
- [FDD If the *DCHs to Modify* IE contains a *DCH Specific Info* IE which includes the *Unidirectional DCH indicator* IE set to "Uplink DCH only", the DRNS shall ignore the *Transport Format Set* IE for the downlink for this DCH. As a consequence this DCH is not included as a part of the downlink CCTrCH.]

- [FDD If the *DCHs to Modify* IE contains a *DCH Specific Info* IE which includes the *Unidirectional DCH indicator* IE set to "Downlink DCH only", the DRNS shall ignore the *Transport Format Set* IE for the uplink for this DCH. As a consequence this DCH is not included as a part of the uplink CCTrCH.]
- If the *DCHs To Modify* IE contains a *DCH Specific Info* IE which includes the *Transport Format Set* IE for the UL of a DCH to be modified, the DRNS shall apply the new Transport Format Set in the Uplink of this DCH in the new configuration.
- If the *DCHs to Modify* IE includes the *TNL QoS* IE for a DCH or a set of co-ordinated DCHs to be modified and if ALCAP is not used, the DRNS may store this information for this DCH in the new configuration. The *TNL QoS* IE may be used to determine the transport bearer characteristics to apply in the uplink for the related DCH or set of co-ordinated DCHs.
- If the *DCHs To Modify* IE contains a *DCH Specific Info* IE which includes the *Transport Format Set* IE for the DL of a DCH to be modified, the DRNS shall apply the new Transport Format Set in the Downlink of this DCH in the new configuration.
- If the *DCHs To Modify* IE contains a *DCH Specific Info* IE which includes the *Allocation/Retention Priority* IE, the DRNS shall apply the new Allocation/Retention Priority to this DCH in the new configuration according to Annex A.
- [TDD If the *DCHs To Modify* IE includes the *CCTrCH ID* IE for the UL, the DRNS shall map the DCH onto the referenced UL CCTrCH in the new configuration.]
- [TDD If the *DCHs To Modify* IE includes the *CCTrCH ID* IE for the DL, the DRNS shall map the DCH onto the referenced DL CCTrCH in the new configuration.]
- If the *DCHs To Modify* IE contains a *DCH Specific Info* IE which includes the *Guaranteed Rate Information* IE, the DRNS shall treat the included IEs according to the following:
  - If the *Guaranteed Rate Information* IE includes the *Guaranteed UL Rate* IE, the DRNS shall apply the new Guaranteed Rate in the uplink of this DCH in the new configuration. The DRNS may decide to request the SRNC to limit the user rate in the uplink of the DCH at any point in time after activating the new configuration. The DRNS may request the SRNC to reduce the user rate of the uplink of the DCH below the guaranteed bit rate, however, whenever possible the DRNS should request the SRNC to reduce the user rate between the maximum bit rate and the guaranteed bit rate.
  - If the *Guaranteed Rate Information* IE includes the *Guaranteed DL Rate* IE, the DRNS shall apply the new Guaranteed Rate in the downlink of this DCH in the new configuration. The DRNS may decide to request the SRNC to limit the user rate in the downlink of the DCH at any point in time after activating the new configuration. The DRNS may request the SRNC to reduce the user rate of the downlink of the DCH below the guaranteed bit rate, however, whenever possible the DRNS should request the SRNC to reduce the user rate between the maximum bit rate and the guaranteed bit rate.

#### **DCH Addition:**

If the RADIO LINK RECONFIGURATION PREPARE message includes any *DCHs To Add* IEs, the DRNS shall treat them each as follows:

- The DRNS shall reserve necessary resources for the new configuration of the Radio Link(s) according to the parameters given in the message and include these DCH in the new configuration.
- If the *DCH Information* IE includes a *DCHs To Add* IE with multiple *DCH Specific Info* IEs, the DRNS shall treat the DCHs in the *DCHs To Add* IE as a set of co-ordinated DCHs. The DRNS shall include these DCHs in the new configuration only if it can include all of them in the new configuration.
- If the *DCH Specific Info* IE includes the *Unidirectional DCH Indicator* IE set to "Uplink DCH only", the DRNS shall ignore the *Transport Format Set* IE for the downlink for this DCH. As a consequence this DCH is not included as a part of the downlink CCTrCH.
- If the *DCH Specific Info* IE includes the *Unidirectional DCH Indicator* IE set to "Downlink DCH only", the DRNS shall ignore the *Transport Format Set* IE for the uplink for this DCH. As a consequence this DCH is not included as a part of the uplink CCTrCH.

- [FDD For each DCH which do not belong to a set of co-ordinated DCHs and which includes a *QE-Selector* IE set to "selected", the DRNS shall use the Transport channel BER from that DCH for the QE in the UL data frames. If no Transport channel BER is available for the selected DCH, the DRNS shall use the Physical channel BER for the QE, ref. TS 25.427 [4]. If the *QE-Selector* IE is set to "non-selected", the DRNS shall use the Physical channel BER for the QE in the UL data frames, ref. TS 25.427 [4].
- For a set of co-ordinated DCHs, the DRNS shall use the Transport channel BER from the DCH with the *QE-Selector* IE set to "selected" for the QE in the UL data frames, ref. TS 25.427 [4]. [FDD If no Transport channel BER is available for the selected DCH, the DRNS shall use the Physical channel BER for the QE, ref. TS 25.427 [4]. If all DCHs have the *QE-Selector* IE set to "non-selected", the DRNS shall use the Physical channel BER for the QE, ref. TS 25.427 [4]. If all DCHs have the *QE-Selector* IE set to "non-selected", the DRNS shall use the Physical channel BER for the QE, ref. TS 25.427 [4].] [TDD If no Transport channel BER is available for the selected DCH, the DRNS shall use 0 for the QE, ref. TS 25.427 [4].]
- The DRNS should store the *Frame Handling Priority* IE received for a DCH to be added in the new configuration. The received Frame Handling Priority should be used when prioritising between different frames in the downlink on the Uu interface in congestion situations within the DRNS once the new configuration has been activated.
- If the *TNL QoS* IE is included for a DCH or a set of co-ordinated DCHs and if ALCAP is not used, the DRNS may use this information to determine the transport bearer characteristics to apply for the uplink for the related DCH or set of co-ordinated DCHs.
- The DRNS should store the *Traffic Class* IE received for a DCH to be added in the new configuration. The *Traffic Class* IE may be used to determine the transport bearer characteristics to apply between DRNC and Node B for the related DCH or set of co-ordinated DCHs. The DRNC should ignore the *Traffic Class* IE if the *TrCH Source Statistics Descriptor* IE indicates the value "RRC".
- The DRNS shall use the included *UL FP Mode* IE for a DCH or a set of co-ordinated DCHs to be added as the new FP Mode in the Uplink of the user plane for the DCH or the set of co-ordinated DCHs in the new configuration.
- The DRNS shall use the included *ToAWS* IE for a DCH or a set of co-ordinated DCHs to be added as the new Time of Arrival Window Startpoint in the user plane for the DCH or the set of co-ordinated DCHs in the new configuration.
- The DRNS shall use the included *ToAWE* IE for a DCH or a set of co-ordinated DCHs to be added as the new Time of Arrival Window Endpoint in the user plane for the DCH or the set of co-ordinated DCHs in the new configuration.
- [3.84Mcps TDD The DRNC shall include the *Secondary CCPCH Info TDD* IE in the RADIO LINK RECONFIGURATION READY message if at least one DSCH or USCH exists in the new configuration.]
- [1.28Mcps TDD The DRNC shall include the *Secondary CCPCH Info TDD LCR* IE in the RADIO LINK RECONFIGURATION READY message if at least one DSCH or USCH exists in the new configuration.]
- [7.68Mcps TDD The DRNC shall include the *Secondary CCPCH Info TDD* 7.68Mcps IE in the RADIO LINK RECONFIGURATION READY message if at least one DSCH or USCH exists in the new configuration.]
- If the *DCHs To Add* IE contains a *DCH Specific Info* IE which includes the *Guaranteed Rate Information* IE, the DRNS shall treat the included IEs according to the following:
  - If the *Guaranteed Rate Information* IE includes the *Guaranteed UL Rate* IE, the DRNS shall apply the new Guaranteed Rate in the uplink of this DCH in the new configuration. The DRNS may decide to request the SRNC to limit the user rate of the uplink of the DCH at any point in time after activating the new configuration. The DRNS may request the SRNC to reduce the user rate of the uplink of the DCH below the guaranteed bit rate, however, whenever possible the DRNS should request the SRNC to reduce the user rate between the maximum bit rate and the guaranteed bit rate. If the *DCH Specific Info* IE in the *DCHs To Add* IE does not include the *Guaranteed UL Rate* IE, the DRNS shall not limit the user rate of the uplink of the DCH.
  - If the *Guaranteed Rate Information* IE includes the *Guaranteed DL Rate* IE, the DRNS shall apply the new Guaranteed Rate in the downlink of this DCH in the new configuration. The DRNS may decide to request the SRNC to limit the user rate of the downlink of the DCH at any point in time after activating the new configuration. The DRNS may request the SRNC to reduce the user rate of the downlink of the DCH below

the guaranteed bit rate, however, whenever possible the DRNS should request the SRNC to reduce the user rate between the maximum bit rate and the guaranteed bit rate. If the *DCH Specific Info* IE in the *DCHs To Add* IE does not include the *Guaranteed DL Rate* IE, the DRNS shall not limit the user rate of the downlink of the DCH.

- [TDD The DRNS shall apply the *CCTrCH ID* IE (for the DL) in the Downlink of this DCH in the new configuration.]
- [TDD The DRNS shall apply the *CCTrCH ID* IE (for the UL) in the Uplink of this DCH in the new configuration.]

#### **DCH Deletion:**

If the RADIO LINK RECONFIGURATION PREPARE message includes any *DCH To Delete*, the DRNS shall not include the referenced DCHs in the new configuration.

If all of the DCHs belonging to a set of co-ordinated DCHs are requested to be deleted, the DRNS shall not include this set of co-ordinated DCHs in the new configuration.

#### **Physical Channel Modification:**

[FDD – If the RADIO LINK RECONFIGURATION PREPARE message includes an *UL DPCH Information* IE, the DRNS shall apply the parameters to the new configuration as follows:]

- [FDD If the *UL DPCH Information* IE includes the *Uplink Scrambling Code* IE, the DRNS shall apply this Uplink Scrambling Code to the new configuration.]
- [FDD If the *UL DPCH Information* IE includes the *Min UL Channelisation Code Length* IE, the DRNS shall apply the new Min UL Channelisation Code Length in the new configuration. The DRNS shall apply the contents of the *Max Number of UL DPDCHs* IE (if it is included) in the new configuration.]
- [FDD If the *UL DPCH Information* IE includes the *TFCS* IE, the DRNS shall use the *TFCS* IE for the UL when reserving resources for the uplink of the new configuration. The DRNS shall apply the new TFCS in the uplink of the new configuration.]
- [FDD If the *UL DPCH Information* IE includes the *UL DPCCH Slot Format* IE, the DRNS shall apply the new Uplink DPCCH *Slot Format* to the new configuration.]
- [FDD If the *UL DPCH Information* IE includes the *UL SIR Target* IE, the DRNS shall use the value for the UL inner loop power control when the new configuration is being used.]
- [FDD If the *UL DPCH Information* IE includes the *Puncture Limit* IE, the DRNS shall apply the value in the uplink of the new configuration.]
- [FDD If the *UL DPCH Information* IE includes the *Diversity Mode* IE, the DRNS shall apply diversity according to the given value.]
- [FDD If the *UL DPCH Information* IE includes the *UL DPDCH Indicator For E-DCH Operation* IE and it is set to "UL DPDCH not present", the UL DPDCH resources shall be removed from the configuration.]

[FDD – If the RADIO LINK RECONFIGURATION PREPARE message includes a *DL DPCH Information* IE and the concerned UE Context is configured to use F-DPCH in the downlink in the old configuration, the DRNS shall configure the concerned UE Context to use DPCH in the downlink in the new configuration. In this case, if at least one Transmission Gap Pattern Sequence is configured with an SF/2 downlink compressed mode method in the new configuration, the DRNC shall include the *Transmission Gap Pattern Sequence Scrambling Code Information* IE in the RADIO LINK RECONFIGURATION READY message indicating for each Channelisation Code whether the alternative scrambling code shall be used or not.]

- [FDD – If the RADIO LINK RECONFIGURATION PREPARE message includes the *DL DPCH Power Information* IE, the DRNS shall use the information contained in it for the power settings of the DL DPCH. In particular, if the received *Inner Loop DL PC Status* IE is set to "Active", the DRNS shall activate the inner loop DL power control for all RLs. If *Inner Loop DL PC Status* IE is set to "Inactive", the DRNS shall deactivate the inner loop DL power control for all RLs according to ref. TS 25.214 [10]. Furthermore, the DRNC shall include the *DL Code Information* IE in the RADIO LINK RECONFIGURATION READY.] [FDD – If the RADIO LINK RECONFIGURATION PREPARE message includes a *DL DPCH Information* IE, the DRNS shall apply the parameters to the new configuration as follows:]

- [FDD If the *DL DPCH Information* IE includes the *Number of DL Channelisation Codes* IE, the DRNS shall allocate given number of Downlink Channelisation Codes per Radio Link and apply the new Downlink Channelisation Code(s) to the new configuration. Each Downlink Channelisation Code allocated for the new configuration shall be included in the RADIO LINK RECONFIGURATION READY message within the *DL Code Information* IE as a *FDD DL Channelisation Code Number* IE when sent to the SRNC. If some Transmission Gap Pattern sequences using "SF/2" method are already initialised in the DRNS, DRNC shall include the *Transmission Gap Pattern Sequence Scrambling Code Information* IE in the RADIO LINK RECONFIGURATION READY message in case the DRNS selects to change the Scrambling code change method for one or more DL Channelisation Code.]
- [FDD When more than one DL DPDCH are assigned per RL, the segmented physical channel shall be mapped on to DL DPDCHs according to TS 25.211 [8]. When *p* number of DL DPDCHs are assigned to each RL, the first pair of DL Scrambling Code and FDD DL Channelisation Code Number corresponds to "*PhCH number 1*", the second to "*PhCH number 2*", and so on until the *p*th to "*PhCH number p*".]
- [FDD If the *DL DPCH Information* IE includes the *TFCS* IE, the DRNS shall use the *TFCS* IE for the DL when reserving resources for the downlink of the new configuration. The DRNS shall apply the new TFCS in the Downlink of the new configuration.]
- [FDD If the *DL DPCH Information* IE includes the *DL DPCH Slot Format* IE, the DRNS shall apply the new slot format used in DPCH in DL.]
- [FDD If the *DL DPCH Information* IE includes the *TFCI Signalling Mode* IE, the DRNS shall apply the new signalling mode of the TFCI.]
- [FDD If the *DL DPCH Information* IE includes the *Multiplexing Position* IE, the DRNS shall apply the new parameter to define whether fixed or flexible positions of transport channels shall be used in the physical channel.]
- [FDD If the *DL DPCH Information* IE includes the *Limited Power Increase* IE set to "Used", the DRNS shall, if supported, use Limited Power Increase according to ref. TS 25.214 [10] subclause 5.2.1 for the inner loop DL power control in the new configuration.]
- [FDD If the *DL DPCH Information* IE includes the *Limited Power Increase* IE set to "Not Used", the DRNS shall not use Limited Power Increase for the inner loop DL power control in the new configuration.]

[FDD – If the RADIO LINK RECONFIGURATION PREPARE message includes the *F-DPCH Information* IE, then:]

- [FDD The DRNS shall configure the concerned UE Context to use F-DPCH in the downlink in the new configuration.]
- [FDD If the *F-DPCH Information* IE includes the *F-DPCH Slot Format Support Request* IE, then the DRNS shall configure the concerned UE Context for F-DPCH Slot Format operation according to TS 25.211 [8] and include the *F-DPCH Slot Format* IE in the RADIO LINK RECONFIGURATION READY message. If the *F-DPCH Information* IE includes the *F-DPCH Slot Format* IE, the DRNC may use the *F-DPCH Slot Format* IE to determine the F-DPCH slot format.]

[FDD – If the RADIO LINK RECONFIGURATION PREPARE message includes the *Transmission Gap Pattern Sequence Information* IE, the DRNS shall store the new information about the Transmission Gap Pattern Sequences to be used in the new Compressed Mode Configuration. Any Transmission Gap Pattern Sequences already existing in the previous Compressed Mode Configuration are replaced by the new sequences once the new Compressed Mode Configuration has been activated or once the previous Compressed Mode Configuration has been deactivated. This new Compressed Mode Configuration shall be valid in the DRNS until the next Compressed Mode Configuration is configured in the DRNS or until the last Radio Link is deleted.]

[FDD – If the RADIO LINK RECONFIGURATION PREPARE message includes the *Transmission Gap Pattern Sequence Information* IE and the *Downlink Compressed Mode Method* IE in one or more Transmission Gap Pattern Sequence within the *Transmission Gap Pattern Sequence Information* IE is set to "SF/2" and the UE Context is configured to use DPCH in the downlink in the new configuration, the DRNC shall include the *Transmission Gap Pattern Sequence Scrambling Code Information* IE in the RADIO LINK RECONFIGURATION READY message indicating for each Channelisation Code whether the alternative scrambling code shall be used or not.] [FDD – If the RADIO LINK RECONFIGURATION PREPARE message includes an *E-DPCH Information* IE, the DRNS shall apply the parameters to the new configuration as follows:]

- [FDD If the *E-DPCH Information* IE includes the *Maximum Set of E-DPDCHs* IE, the DRNS shall apply the contents of the Maximum Set in the new configuration.]
- [FDD If the *E-DPCH Information* IE includes the *Puncture Limit* IE, the DRNS shall apply the value in the uplink of the new configuration]
- [FDD If the *E-DPCH Information* IE includes the *E-TFCS Information* IE, the DRNS shall use the *E-TFCS Information* IE for the E-DCH when reserving resources for the uplink of the new configuration. The DRNS shall apply the new TFCS in the uplink of the new configuration. If the *E-TFCS Information* IE contains the *E-DCH Minimum Set E-TFCI Validity Indicator* IE the DRNS shall ignore the value in *E-DCH Minimum Set E-TFCI validity indicator* IE is absent DRNS shall use the value for the related resource allocation operation.]
- [FDD If the *E-TFCS Information* IE in the *E-DPCH Information* IE contains the *E-DPDCH Power Interpolation* IE, the DRNS shall use the value to determine the applicable E-DPDCH power formula defined in TS 25.214 [10]. If the *E-DPDCH Power Interpolation* IE is not present, the DRNS shall use the E-DPDCH power extrapolation formula defined in TS 25.214 [10] if the *E-DCH FDD Information* IE is included in the RADIO LINK RECONFIGURATION PREPARE message.]
- [FDD If the *E-TFCS Information* IE in the *E-DPCH Information* IE contains the *E-TFCI Boost Information* IE, the DRNS shall use the information according to TS 25.214 [10]. If the *E-TFCI Boost Information* IE is not present, the DRNS shall use the value "127" in the algorithm defined in TS 25.214 [10] if the *E-DCH FDD Information* IE is included in the RADIO LINK RECONFIGURATION PREPARE message.]
- [FDD If the *E-DPCH Information* IE includes the *E-TTI* IE, the DRNS shall use the value when the new configuration is being used.]
- [FDD If the *E-DPCH Information* IE includes the *E-DPCCH Power Offset* IE, the DRNS shall use the value when the new configuration is being used.]
- [FDD If the *E-DPCH Information* IE includes the *E-RGCH 2-Index-Step* IE, the DRNS shall use the value when the new configuration is being used.]
- [FDD If the *E-DPCH Information* IE includes the *E-RGCH 3-Index-Step* IE, the DRNS shall use the value when the new configuration is being used.]
- [FDD If the *E-DPCH Information* IE includes the *E-DCH HARQ Info* IE, the DRNS shall use the value when the new configuration is being used.]
- [FDD If the *E-DPCH Information* IE includes the *HS-DSCH Configured Indicator* IE, the DRNS shall use the value when the new configuration is being used.]
- [FDD If the *E-DPCH Information* IE includes the *Minimum Reduced E-DPDCH Gain Factor* IE, then the DRNS shall use the value to determine the applicable minimum gain factor (β<sub>ed,k,reduced,min</sub>) defined in TS 25.214 [10]. For the case the *Minimum Reduced E-DPDCH Gain Factor* IE is not available for the UE Context, the DRNS may use the default value defined in TS 25.331 [16]. ]

[FDD – If the RADIO LINK RECONFIGURATION PREPAR message includes the *Continuous Packet Connectivity DTX-DRX Information* IE, then:]

- [FDD The DRNS shall configure the concerned UE Context for Continuous Packet Connectivity DTX operation according to TS 25.214 [10].]
- [FDD If *DRX Information* IE is included in the *Continuous Packet Connectivity DTX-DRX Information* IE, then the DRNS shall configure the concerned UE Context for Continuous Packet Connectivity DRX operation according to TS 25.214 [10].]

[FDD – If the RADIO LINK RECONFIGURATION PREPARE message includes the *Continuous Packet Connectivity* DTX-DRX Information To Modify IE, then:]

- [FDD If the UE DTX DRX Offset IE is included in the Continuous Packet Connectivity DTX-DRX Information To Modify IE, then the DRNS shall apply the indicated Offset in UE DTX DRX Cycle IE in the new configuration.]
- [FDD If the *Enabling Delay* IE is included in the *Continuous Packet Connectivity DTX-DRX Information To Modify* IE, then the DRNS shall use this value to determine the beginning of uplink transmission in the new configuration according to TS 25.214 [10].]
- [FDD If the *DTX Information To Modify* IE is included in the *Continuous Packet Connectivity DTX-DRX Information To Modify* IE, then the DRNS shall use this information to modify the indicated DTX Information parameter in the new configuration. If the choice of *DTX Information To Modify* IE is "Deactivate", then DRX should be deactived together with DTX.]
- [FDD If the *DRX Information To Modify* IE is included in the *Continuous Packet Connectivity DTX-DRX Information To Modify* IE, then the DRNS shall use this information to modify the indicated DRX Information in the new configuration.]

[FDD – If the RADIO LINK RECONFIGURATION PREPARE message includes the *Continuous Packet Connectivity HS-SCCH less Information* IE, then:]

- [FDD The DRNS shall configure the Serving HS-DSCH Radio Link indicated by the *HS-PDSCH RL ID* IE for Continuous Packet Connectivity HS-SCCH less operation according to TS 25.214 [10].]
- [FDD The DRNS shall allocate the HS-PDSCH codes needed for HS-SCCH less operation and include the *Continuous Packet Connectivity HS-SCCH less Information Response* IE in the RADIO LINK RECONFIGURATION READY message.]
- [FDD If at least one of *HS-PDSCH Second Code Support* IE is set to "True", then the DRNC shall include *HS-PDSCH Second Code Index* IE in the RADIO LINK RECONFIGURATION READY message.]

[FDD- If the RADIO LINK RECONFIGURATION PREPARE message includes the *Continuous Packet Connectivity HS-SCCH less Deactivate Indicator* IE, then the DRNS shall deactive the Continuous Packet Connectivity HS-SCCH less operation for the HS-DSCH Radio Link.]

[1.28 Mcps TDD – If the RADIO LINK RECONFIGURATION PREPARE message includes the *Continuous Packet Connectivity DRX Information LCR* IE, then the DRNS shall take account into these parameters to decide the DRX operation related parameters and configure the concerned UE Context for DRX operation according to TS 25.213 [21] and include the parameter(s) in the *Continuous Packet Connectivity DRX Information Response LCR* IE in the RADIO LINK RECONFIGURATION READY message.]

[1.28 Mcps TDD - If the *Inactivity Threshold for UE DRX Cycle Ext* IE is included in the *Continuous Packet Connectivity DRX Information LCR* IE, then the DRNS may use this value to determine the Inactivity Threshold for UE DRX Cycle according to TS 25.224 [22].]

[1.28 Mcps TDD – If the RADIO LINK RECONFIGURATION PREPARE message includes the *Continuous Packet Connectivity DRX Information To Modify LCR* IE, then:]

- [1.28 Mcps TDD If the UE DTX DRX Offset IE is included in the Continuous Packet Connectivity DRX Information To Modify LCR IE, then the DRNS shall apply the indicated Offset in UE DTX DRX Cycle IE in the new configuration.]
- [1.28 Mcps TDD If the *Enabling Delay* IE is included in the *Continuous Packet Connectivity DRX Information To Modify LCR* IE, then the DRNS shall use this value to determine the beginning of uplink transmission in the new configuration according to TS 25.213 [21].]
- [1.28 Mcps TDD If the *DRX Information To Modify* IE is included in the *Continuous Packet Connectivity DRX Information To Modify LCR* IE, then the DRNS shall use this information to modify the indicated DRX Information in the new configuration.]

[1.28 Mcps TDD – If the RADIO LINK RECONFIGURATION PREPARE message includes the HS-DSCH Semi-Persistent scheduling Information LCR IE, then:]

- [1.28 Mcps TDD – The DRNS shall configure the Serving HS-DSCH Radio Link indicated by the *HS-PDSCH RL ID* IE for HS-DSCH Semi-Persistent scheduling operation according to TS 25.213 [21].]

- [1.28 Mcps TDD The DRNS shall allocate the HS-SICH information needed for HS-DSCH Semi-Persistent scheduling operation and include the *HS-DSCH Semi-Persistent scheduling Information Response LCR* IE in the RADIO LINK RECONFIGURATION READY message.]
- [1.28 Mcps TDD If the HS-DSCH Semi-Persistent Resource Reservation Indicator IE is included in the HS-DSCH Semi-Persistent scheduling Information LCR IE, then the DRNS shall include Allcoated HS-PDSCH Semi-persistent resource IE in the RADIO LINK RECONFIGURATION READY message.]

[1.28 Mcps TDD – If the RADIO LINK RECONFIGURATION PREPARE message includes the *E-DCH Semi-Persistent scheduling Information LCR* IE, then:]

- [1.28 Mcps TDD The DRNS shall configure the Serving E-DCH Radio Link indicated by the *E-DCH Serving RL* IE for E-DCH Semi-Persistent scheduling operation according to TS 25.213 [21].]
- [1.28 Mcps TDD If the *E-DCH Semi-Persistent Resource Reservation Indicator* IE is included in the *E-DCH Semi-Persistent scheduling Information LCR* IE, then the DRNS shall include *Allocated E-DCH Semi-persistent resource* IE in the RADIO LINK RECONFIGURATION READY message.]

[1.28 Mcps TDD – If the RADIO LINK RECONFIGURATION PREPARE message includes the HS-DSCH Semi-Persistent scheduling Information to modify LCR IE, then:]

- [1.28 Mcps TDD If the *Transport Block Size List* IE or/and *Repetition Period list* IE is/are included in the *HS*-DSCH Semi-Persistent scheduling Information to modify LCR IE, the DRNS shall modify the configuration of Serving HS-DSCH Radio Link indicated by the *HS-PDSCH RL ID* IE for HS-DSCH Semi-Persistent scheduling operation according to TS 25.213 [21].
- [1.28 Mcps TDD The DRNS shall allocate the HS-SICH information needed for HS-DSCH Semi-Persistent scheduling operation and include the *HS-DSCH Semi-Persistent scheduling Information Response LCR* IE in the RADIO LINK RECONFIGURATION READY message.]
- [1.28 Mcps TDD If the HS-DSCH Semi-Persistent Resource Reservation Indicator IE is included in the HS-DSCH Semi-Persistent scheduling Information to modify LCR IE, then the DRNS shall include Allcoated HS-PDSCH Semi-persistent resource IE in the RADIO LINK RECONFIGURATION READY message.]
- [1.28 Mcps TDD If the HS-DSCH Semi-Persistent scheduling operation Indicator IE is included in the HS-DSCH Semi-Persistent scheduling Information to modify LCR IE, then the DRNS shall apply this information for HS-DSCH Semi-Persistent scheduling operation.]
- [1.28 Mcps TDD If the buffer size for HS-DSCH Semi-Persistent scheduling needs to be modified, then the DRNS shall include the *Buffer Size for HS-DSCH Semi-Persistent scheduling* IE in the RADIO LINK RECONFIGURATION READY message.]
- [1.28 Mcps TDD If the number of processes for HS-DSCH Semi-Persistent scheduling needs to be modified, then the DRNS shall include the *Number of Processes for HS-DSCH Semi-Persistent scheduling* IE in the RADIO LINK RECONFIGURATION READY message.]

[1.28 Mcps TDD – If the RADIO LINK RECONFIGURATION PREPARE message includes the *E-DCH Semi-Persistent scheduling Information to modify LCR* IE, then:]

- [1.28 Mcps TDD If the *Repetition Period list* IE is included in the *E-DCH Semi-Persistent scheduling Information to modify LCR* IE, the DRNS shall modify the configuration of Serving E-DCH Radio Link indicated by the *E-DCH Serving RL* IE for E-DCH Semi-Persistent scheduling operation according to TS 25.213 [21].
- [1.28 Mcps TDD If the *E-DCH Semi-Persistent scheduling Indicator* IE is included in the *E-DCH Semi-Persistent scheduling Information to modify LCR* IE, then the DRNS shall apply this information for E-DCH Semi-Persistent scheduling operation.]
- [1.28 Mcps TDD If the *E-DCH Semi-Persistent Resource Reservation Indicator* IE is included in the *E-DCH Semi-Persistent scheduling Information to modify LCR* IE, then the DRNS shall include *Allocated E-DCH Semi-persistent resource* IE in the RADIO LINK RECONFIGURATION READY message.]

[1.28 Mcps TDD – If the RADIO LINK RECONFIGURATION PREPARE message includes the *HS-DSCH Semi-Persistent scheduling Deactivate Indicator LCR* IE, then the DRNS shall deactivate the HS-DSCH Semi-Persistent scheduling operation for the HS-DSCH Radio Link.] 120

[1.28 Mcps TDD – If the RADIO LINK RECONFIGURATION PREPARE message includes the *E-DCH Semi-Persistent scheduling Deactivate Indicator LCR* IE, then the DRNS shall deactivate the E-DCH Semi-Persistent scheduling operation for the E-DCH Radio Link.]

## [TDD – UL/DL CCTrCH Modification]

[TDD – If the RADIO LINK RECONFIGURATION PREPARE message includes any *UL CCTrCH To Modify* IEs or *DL CCTrCH To Modify* IEs, then the DRNS shall treat them each as follows:]

- [TDD If any of the *UL CCTrCH To Modify* IEs or *DL CCTrCH To Modify* IEs includes any of the *TFCS* IE, *TFCI coding* IE, *Puncture limit* IE, or *TPC CCTrCH ID* IEs the DRNS shall apply these as the new values, otherwise the previous values specified for this CCTrCH are still applicable.]
- [TDD If any of the following listed DPCH information IEs are modified in the new prepared configuration, the DRNC shall include in the RADIO LINK RECONFIGURATION READY message the IEs indicating the new values: *Repetition Period* IE, *Repetition Length* IE, *TDD DPCH Offset* IE, [3.84Mcps TDD *UL Timeslot Information* IE,] [1.28Mcps TDD *UL Timeslot Information LCR* IE,] [7.68 Mcps TDD *DL Timeslot Information T.68 Mcps* IE,] [3.84Mcps TDD *DL Timeslot Information T.68 Mcps* IE,] [3.84Mcps TDD *DL Timeslot Information T.68 Mcps* IE,] [7.68 Mcps TDD *DL Timeslot Information T.68 Mcps* IE,] [1.28Mcps TDD *DL Timeslot Information 7.68 Mcps* IE,] [1.28Mcps TDD *DL Timeslot Information 7.68 Mcps* IE,] [1.28Mcps TDD *Midamble Shift LCR* IE,] [7.68 Mcps TDD *Midamble Shift And Burst Type* IE,] [1.28Mcps TDD *Midamble Shift LCR* IE,] [7.68 Mcps TDD *Midamble Shift And Burst Type* 7.68 *Mcps* IE,] *TFCI Presence* IE, [3.84Mcps TDD *TDD Channelisation Code* IE,] [1.28Mcps TDD and/or *TDD Channelisation Code LCR* IE,] [7.68 Mcps TDD *TDD Channelisation Code 7.68 Mcps* IE,] [1.28Mcps TDD *TDD UL DPCH Time Slot Format LCR* IE or *TDD DL DPCH Time Slot Format LCR* IE].]
- [1.28Mcps TDD If the *UL CCTrCH To Modify* IE includes the *UL SIR Target* IE, the DRNS shall use the value for the UL inner loop power control according TS 25.221 [12] and TS 25.224 [22] in the new configuration.]
- [TDD If any of the *DL CCTrCH To Modify* IEs includes any *TPC CCTrCH ID* IEs, the DRNS shall apply these as the new values, otherwise the previous values specified for this CCTrCH are still applicable.]
- [1.28Mcps TDD If the *UL CCTrCH to Modify* IE includes the *TDD TPC Uplink Step Size* IE, the DRNS shall apply this value to the uplink TPC step size in the new configuration.]
- [TDD If the *DL CCTrCH to Modify* IE includes the *TDD TPC Downlink Step Size* IE, the DRNS shall apply this value to the downlink TPC step size in the new configuration.]
- [1.28 Mcps TDD if the DRNS modifies, deletes or grants a new PLCCH assignment(s) to the UL CCTrCH, then the resulting PLCCH assignment(s) shall be sent to the SRNC in the RADIO LINK RECONFIGURATION READY message.]

## [TDD – UL/DL CCTrCH Addition]

[TDD – If the RADIO LINK RECONFIGURATION PREPARE message includes any *UL CCTrCH To Add* IEs or *DL CCTrCH To Add* IEs, the DRNS shall include this CCTrCH in the new configuration.]

[TDD – If the RADIO LINK RECONFIGURATION PREPARE message includes any *DCHs to Add* IEs, the DRNC shall include in the RADIO LINK RECONFIGURATION READY message the DPCH information in [3.84Mcps TDD – *UL DPCH to be Added* IE/*DL DPCH to be Added* IEs] [1.28Mcps TDD – *UL DPCH to be Added LCR* IE/*DL DPCH to be Added IS*] [3.84Mcps TDD – *UL DPCH to be Added 7.68 Mcps* IE/*DL DPCH to be Added 7.68 Mcps* IEs]. [3.84Mcps TDD – *IL DPCH is active before a reconfiguration which adds an UL DPCH, and if a valid Rx Timing Deviation 3.84 Mcps Extended* IE if the cell containing the radio link is configured for extended timing advance) in the RADIO LINK RECONFIGURATION READY message]. [7.68 Mcps TDD – If no UL DPCH, and if a valid Rx Timing Deviation which adds an UL DPCH, and if a valid RX Timing Deviation 3.84 Mcps Extended IE if the cell containing the radio link is configured for extended timing advance) in the RADIO LINK RECONFIGURATION READY message]. [7.68 Mcps TDD – If no UL DPCH is active before a reconfiguration measurement is known in DRNC, then the DRNC shall include the *Rx Timing Deviation 3.84 Mcps Extended* IE if the cell containing the radio link is configured for extended timing advance) in the RADIO LINK RECONFIGURATION READY message]. [7.68 Mcps TDD – If no UL DPCH is active before a reconfiguration which adds an UL DPCH, and if a valid RX Timing Deviation measurement is known in DRNC, then the DRNC shall include the *Rx Timing Deviation 7.68 Mcps* IE in the RADIO LINK RECONFIGURATION READY message].]

[TDD – If the RADIO LINK RECONFIGURATION PREPARE message includes the *TDD TPC Downlink Step Size* IE within a *DL CCTrCH To Add* IE, the DRNS shall set the TPC step size of that CCTrCH to that value, otherwise the DRNS shall use the same value as the lowest numbered DL CCTrCH in the current configuration.]

[1.28Mcps TDD – The DRNS shall use the *UL SIR Target* IE in the *UL CCTrCH To Add* IE as the UL SIR value for the inner loop power control for this CCTrCH according TS 25.221 [12] and TS 25.224 [22] in the new configuration.]

[TDD – If any of the *DL CCTrCH To Add* IEs includes any *TPC CCTrCH ID* IEs, the DRNS shall configure the identified UL CCTrCHs with TPC according to the parameters given in the message.]

[1.28Mcps TDD – If the *UL CCTrCH To Add* IE includes *TDD TPC Uplink Step Size* IE, the DRNS shall apply the uplink TPC step size in the new configuration.]

[1.28 Mcps TDD – if the DRNS grants a PLCCH assignment(s) to the UL CCTrCH, then the resulting PLCCH assignment(s) shall be sent to the SRNC in the RADIO LINK RECONFIGURATION READY message.]

## [TDD – UL/DL CCTrCH Deletion]

[TDD – If the RADIO LINK RECONFIGURATION PREPARE message includes any *UL CCTrCH To Delete* IEs or *DL CCTrCH To Delete* IEs, the DRNS shall remove this CCTrCH in the new configuration, and the DRNC shall include in the RADIO LINK RECONFIGURATION READY message corresponding *UL DPCH to be Deleted* IEs and *DL DPCH to be Deleted* IEs.]

## **DL Power Control:**

[FDD – If the *RL Information* IE includes the *DL Reference Power* IEs and power balancing is active, DRNS shall update the reference power of the power balancing in the indicated RL(s), if updating of power balancing parameters by the RADIO LINK RECONFIGURATION PREPARE message is supported, when the new configuration has been activated, according to subclause 8.3.15, using the *DL Reference Power* IE. If the CFN modulo the value of the *Adjustment Period* IE is not equal to 0, the power balancing continues with the old reference power until the end of the current adjustment period, and the updated reference power shall be used from the next adjustment period.]

[FDD – If updating of power balancing parameters by the RADIO LINK RECONFIGURATION PREPARE message is supported by the DRNS, the DRNC shall include the *DL Power Balancing Updated Indicator* IE in the *RL Information Response* IE for each affected RL in the RADIO LINK RECONFIGURATION READY message.]

## [TDD – DSCH Addition/Modification/Deletion:]

[TDD – If the RADIO LINK RECONFIGURATION PREPARE message includes any *DSCH To Add*, *DSCH To Modify* or *DSCH To Delete* IEs, then the DRNS shall use this information to add/modify/delete the indicated DSCH channels to/from the radio link, in the same way as the DCH info is used to add/modify/release DCHs.]

[TDD – If the RADIO LINK RECONFIGURATION PREPARE message includes any *DSCH To Add* IE, then the DRNS shall use the *Allocation/Retention Priority* IE, *Scheduling Priority Indicator* IE and *TrCH Source Statistics Descriptor* IE to define a set of DSCH Priority classes each of which is associated with a set of supported MAC-c/sh SDU lengths.]

[TDD – The DRNC shall include in the RADIO LINK RECONFIGURATION READY message both the *Transport Layer Address* IE and the *Binding ID* IE for the transport bearer to be established for each added DSCH.]

[TDD – If the RADIO LINK RECONFIGURATION PREPARE message includes any *DSCH To Add* IE, then the DRNS may use the *Traffic Class* IE to determine the transport bearer characteristics to apply between DRNC and Node B for the related DSCHs.]

[TDD – If the RADIO LINK RECONFIGURATION PREPARE message includes the *TNL QoS* IE in the *DSCH TDD Information* IE and if ALCAP is not used, the DRNS may use the *TNL QoS* IE to determine the transport bearer characteristics to apply in the uplink for the related DSCH.]

[TDD – If the RADIO LINK RECONFIGURATION PREPARE message includes any *DSCH To Modify* IE, then the DRNS shall treat them each as follows:]

- [TDD The DRNC shall include in the RADIO LINK RECONFIGURATION READY message both the *Transport Layer Address* IE and the *Binding ID* IE for any new transport bearer to be established for each modified DSCH.]
- [TDD If the *DSCHs To Modify* IE includes the *CCTrCH ID* IE, then the DRNS shall map the DSCH onto the referenced DL CCTrCH.]
- [TDD If the *DSCHs To Modify* IE includes any of the *Allocation/Retention Priority* IE, *Scheduling Priority Indicator* IE or *TrCH Source Statistics Descriptor* IE, the DNRS shall use them to update the set of DSCH Priority classes each of which is associated with a set of supported MAC-c/sh SDU lengths.]

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- [TDD If the *DSCHs To Modify* IE includes any of the *Transport Format Set* IE or *BLER* IE, the DRNS shall apply the parameters to the new configuration.]
- [TDD If the *DSCHs To Modify* IE includes the *Traffic Class* IE, the DRNS may use this information to determine the transport bearer characteristics to apply between DRNC and Node B for the related DSCHs.]
- [TDD If the *DSCHs To Modify* IE includes the *TNL QoS* IE and if ALCAP is not used, the DRNS may use the *TNL QoS* IE to determine the transport bearer characteristics to apply in the uplink for the related DSCH.]

[3.84 Mcps TDD – The DRNC shall include the *Secondary CCPCH Info TDD* IE in the RADIO LINK RECONFIGURATION READY message if a DSCH is added and at least one DCH exists in the new configuration. The DRNC shall also include the *Secondary CCPCH Info TDD* IE in the RADIO LINK RECONFIGURATION READY message if the SHCCH messages for this radio link will be transmitted over a different secondary CCPCH than selected by the UE from system information.]

[1.28 Mcps TDD – The DRNC shall include the *Secondary CCPCH Info TDD LCR* IE in the RADIO LINK RECONFIGURATION READY message if a DSCH is added and at least one DCH exists in the new configuration. The DRNC shall also include the *Secondary CCPCH Info TDD LCR* IE in the RADIO LINK RECONFIGURATION READY message if the SHCCH messages for this radio link will be transmitted over a different secondary CCPCH than selected by the UE from system information.]

[7.68 Mcps TDD – The DRNC shall include the *Secondary CCPCH Info* 7.68 Mcps TDD IE in the RADIO LINK RECONFIGURATION READY message if a DSCH is added and at least one DCH exists in the new configuration. The DRNC shall also include the *Secondary CCPCH Info* 7.68 Mcps TDD IE in the RADIO LINK RECONFIGURATION READY message if the SHCCH messages for this radio link will be transmitted over a different secondary CCPCH than selected by the UE from system information.]

[TDD – The DRNC shall include the *DSCH Initial Window Size* IE in the RADIO LINK RECONFIGURATION READY message for each DSCH, if the DRNS allows the SRNC to start transmission of MAC-c/sh SDUs before the DRNS has allocated capacity on user plane as described in TS 25.425 [32].]

#### [TDD USCH Addition/Modification/Deletion]

[TDD – If the RADIO LINK RECONFIGURATION PREPARE message includes any USCH To Modify, USCH To Add or USCH To Delete IEs, then the DRNS shall use this information to add/modify/delete the indicated USCH channels to/from the radio link, in the same way as the DCH info is used to add/modify/release DCHs.]

[TDD – If the RADIO LINK RECONFIGURATION PREPARE message includes any USCH To Add IE, then, the DRNS shall use the Allocation/Retention Priority IE, Scheduling Priority Indicator IE and TrCH Source Statistics Descriptor IE to define a set of USCH Priority classes each of which is associated with a set of supported MAC-c/sh SDU lengths.]

[TDD – If the RADIO LINK RECONFIGURATION PREPARE message includes any *USCH To Add* IE, then the DRNS may use the *Traffic Class* IE to determine the transport bearer characteristics to apply between DRNC and Node B for the related USCHs.]

[TDD – If the RADIO LINK RECONFIGURATION PREPARE message includes any USCH To Add IE, if the TNL QoS IE is included and if ALCAP is not used, the DRNS may use the TNL QoS IE to determine the transport bearer characteristics to apply for the related USCHs.]

[TDD – The DRNC shall include in the RADIO LINK RECONFIGURATION READY message both the *Transport Layer Address* IE and the *Binding ID* IE for the transport bearer to be established for each added USCH.]

[TDD – If the RADIO LINK RECONFIGURATION PREPARE message includes any USCH To Modify IE, then the DRNS shall treat them each as follows:]

- [TDD If the USCH To Modify IE includes any of the Allocation/Retention Priority IE, Scheduling Priority Indicator IE or TrCH Source Statistics Descriptor IE, the DNRS shall use them to update the set of USCH Priority classes.]
- [TDD If the USCH To Modify IE includes any of the CCTrCH ID IE, Transport Format Set IE, BLER IE or RB Info IE, the DRNS shall apply the parameters to the new configuration.]
- [TDD If the USCHs To Modify IE includes the *Traffic Class* IE, the DRNS may use this information to determine the transport bearer characteristics to apply between DRNC and Node B for the related USCHs.]

- [3.84Mcps TDD The DRNC shall include the *Secondary CCPCH Info TDD* IE in the RADIO LINK RECONFIGURATION READY message if a USCH is added and at least one DCH exists in the new configuration. The DRNC shall also include the *Secondary CCPCH Info TDD* IE in the RADIO LINK RECONFIGURATION READY message if the SHCCH messages for this radio link will be transmitted over a different secondary CCPCH than selected by the UE from system information.]
- [1.28Mcps TDD The DRNC shall include the *Secondary CCPCH Info TDD LCR* IE in the RADIO LINK RECONFIGURATION READY message if a USCH is added and at least one DCH exists in the new configuration. The DRNC shall also include the *Secondary CCPCH Info TDD LCR* IE in the RADIO LINK RECONFIGURATION READY message if the SHCCH messages for this radio link will be transmitted over a different secondary CCPCH than selected by the UE from system information.]
- [7.68Mcps TDD The DRNC shall include the *Secondary CCPCH Info* 7.68Mcps TDD IE in the RADIO LINK RECONFIGURATION READY message if a USCH is added and at least one DCH exists in the new configuration. The DRNC shall also include the *Secondary CCPCH Info* 7.68Mcps TDD IE in the RADIO LINK RECONFIGURATION READY message if the SHCCH messages for this radio link will be transmitted over a different secondary CCPCH than selected by the UE from system information.]
- [TDD if the *TNL QoS* IE is included and if ALCAP is not used, the DRNS may use the *TNL QoS* IE to determine the transport bearer characteristics to apply for the related USCHs.]
- [TDD The DRNC shall include in the RADIO LINK RECONFIGURATION READY message both the *Transport Layer Address* IE and the *Binding ID* IE for any new transport bearer to be established for each modified USCH.]

#### **RL Information:**

[FDD – If the *RL Information* IE includes the *DL DPCH Timing Adjustment* IE, the DRNS shall adjust the timing of the radio link accordingly in the new configuration. If the UE Context is configured to use F-DPCH in the downlink in the new configuration, the DRNC may include the *DL Code Information* IE in the RADIO LINK RECONFIGURATION READY message.]

### **HS-DSCH Setup:**

If the HS-DSCH Information IE is present in the RADIO LINK RECONFIGURATION PREPARE message, then:

- The DRNS shall setup the requested HS-PDSCH resources on the Serving HS-DSCH Radio Link indicated by the *HS-PDSCH RL ID* IE.
- The DRNC shall include the HARQ Memory Partitioning IE in the [FDD HS-DSCH FDD Information Response IE] [TDD – HS-DSCH TDD Information Response IE] in the RADIO LINK RECONFIGURATION READY message. [FDD – The HARQ Memory Partitioning IE shall either contain the HARQ Memory Partitioning Information Extension For MIMO IE or the Number of Processes IE set to a value higher than "8", if the MIMO Activation Indicator IE is included in the HS-DSCH Information IE.] [1.28Mcps TDD– The HARQ Memory Partitioning IE shall either contain the HARQ Memory Partitioning Information Extension For MIMO IE or the Number of Processes IE set to a value higher than "8", if the MIMO Activation Indicator IE is included in the HS-DSCH Information IE.]
- The DRNC shall allocate an HS-DSCH-RNTI to the UE Context and include the *HS-DSCH-RNTI* IE in the RADIO LINK RECONFIGURATION READY message.
- The DRNS may use the *Traffic Class* IE for a specific HS-DSCH MAC-d flow to determine the transport bearer characteristics to apply between DRNC and Node B. If *TrCH Source Statistics Descriptor* IE is present with the value "RRC" in the *HS-DSCH MAC-d Flows Information* IE, then the DRNC should ignore the *Traffic Class* IE.
- If the *TNL QoS* IE is included for a MAC-d flow and if ALCAP is not used, the *TNL QoS* IE may be used by the DRNS to determine the transport bearer characteristics to apply in the uplink between the DRNS and the SRNC for the related MAC-d flow.
- If fields are to be included in the User Plane by the SRNC to handle TNL Congestion Control for HSDPA in the DRNS, then the DRNC shall include the *User Plane Congestion Fields Inclusion* IE in the *HS-DSCH Information Response* IE.

- If the RADIO LINK RECONFIGURATION PREPARE message includes the *MAC-hs Guaranteed Bit Rate* IE for a Priority Queue in the *HS-DSCH MAC-d Flows Information* IE in the *HS-DSCH Information* IE, then the DRNS shall use this information to optimise MAC-hs scheduling decisions for the related HSDPA Priority Queue.
- If the RADIO LINK RECONFIGURATION PREPARE message includes the *Discard Timer* IE for a Priority Queue in the *HS-DSCH MAC-d Flows Information* IE in the *HS-DSCH Information* IE, then the DRNS shall use this information to discard out-of-date MAC-hs SDUs from the related HSDPA Priority Queue.
- If the RADIO LINK RECONFIGURATION PREPARE message includes the *Maximum MAC-d PDU Size Extended* IE for a Priority Queue in the *HS-DSCH MAC-d Flows Information* IE in the *HS-DSCH Information* IE, then the DRNS shall ignore the *SID* IE and *MAC-d PDU Size* IE in the *MAC-d PDU Size Index* IE and use *Maximum MAC-d PDU Size Extended* IE to optimise capacity allocation for the related HSDPA Priority Queue.
- The DRNC shall include the HS-DSCH Initial Capacity Allocation IE in the [FDD HS-DSCH FDD Information Response IE] [TDD – HS-DSCH TDD Information Response IE] in the RADIO LINK RECONFIGURATION READY message for every HS-DSCH MAC-d flow being established, if the DRNS allows the SRNC to start transmission of MAC-d PDUs before the DRNS has allocated capacity on user plane as described in TS 25.425 [32] If RADIO LINK RECONFIGURATION PREPARE message includes HS-DSCH MAC-d PDU Size Format IE in the HS-DSCH Information IE set to "Flexible MAC-d PDU Size", then DRNC shall only set in the HS-DSCH Initial Capacity Allocation IE the values for the peer of Scheduling Priority Indicator IE and Maximum MAC-d PDU Size Extended IE to the values of the corresponding peer I in RADIO LINK RECONFIGURATION PREPARE in the HS-DSCH MAC-d Flows Information IE in the HS-DSCH Information IE for a Priority Queue including Scheduling Priority Indicator IE and Maximum MAC-d PDU Size Extended IE.
- [FDD If the RADIO LINK RECONFIGURATION PREPARE message includes the *HS-SCCH Power Offset* IE in the *HS-DSCH Information* IE, then the DRNS may use this value to determine the HS-SCCH power. The HS-SCCH Power Offset should be applied for any HS-SCCH transmission to this UE.]
- [FDD The DRNC shall include the *Measurement Power Offset* IE in the *HS-DSCH Information Response* IE in the RADIO LINK RECONFIGURATION READY message.]
- [FDD The DRNS shall allocate HS-SCCH codes corresponding to the HS-DSCH and the DRNC shall include the HS-SCCH Specific Information Response IE in the HS-DSCH FDD Information Response IE in the RADIO LINK RECONFIGURATION READY message.]
- [TDD The DRNS shall allocate HS-SCCH parameters corresponding to the HS-DSCH and the DRNC shall include the [3.84Mcps TDD HS-SCCH Specific Information Response IE] [1.28Mcps TDD HS-SCCH Specific Information Response LCR IE] [7.68 Mcps TDD HS-SCCH Specific Information Response 7.68 Mcps IE] in the HS-DSCH TDD Information Response IE in the RADIO LINK RECONFIGURATION READY message.]
- [FDD The DRNC shall include the *HS-PDSCH And HS-SCCH Scrambling Code* IE in the *HS-DSCH FDD* Information Response IE in the RADIO LINK RECONFIGURATION READY message.]
- [FDD If the RADIO LINK RECONFIGURATION PREPARE message includes the HARQ Preamble Mode IE in the HS-DSCH Information IE, then the DRNS shall use the indicated HARQ Preamble Mode as described in TS 25.214 [10], if HS-DPCCH ACK/NACK preamble and postamble is supported. Then, in this case, if the mode 1 is applied, the DRNC shall include the HARQ Preamble Mode Activation Indicator IE in the HS-DSCH Information Response IE in the RADIO LINK RECONFIGURATION READY message. If the HARQ Preamble Mode IE is not included or if the mode 0 is applied, then the DRNC shall not include the HARQ Preamble Mode Activation Indicator IE in the HS-DSCH Information Response IE in the RADIO LINK RECONFIGURATION READY message.]
- If the RADIO LINK RECONFIGURATION PREPARE message includes the *HS-DSCH MAC-d PDU Size Format* IE in the *HS-DSCH Information* IE, then the DRNS shall use the indicated format in user plane frame structure for HS-DSCH channels TS 25.425 [32] and MAC-hs TS 25.321 [41].
- [FDD If the MIMO Activation Indicator IE is included in the HS-DSCH FDD Information IE, then:]
  - [FDD The DRNS shall activate the MIMO mode for the HS-DSCH Radio Link.]

- [FDD The DRNS shall decide the pilot configuration and the UE reporting configuration (N/M ratio) according to TS 25.214 [10] for MIMO and include the *MIMO Information Response* IE in the *HS-DSCH FDD Information Response* IE in the RADIO LINK RECONFIGURATION READY message.]
- [FDD If the Power Offset For S-CPICH for MIMO Request Indicator IE is included, the DRNC shall, if supported and MIMO pilot configuration with Primary and Secondary CPICH is set up on the cell with a non-zero power offset where the Serving HS-DSCH Radio Link is established, include the Power Offset For S-CPICH for MIMO IE in the HS-DSCH FDD Information Response IE in the RADIO LINK RECONFIGURATION READY message. If zero power offset the DRNC may include the Power Offset For S-CPICH for MIMO IE.]
- [1.28 Mcps TDD If the MIMO Activation Indicator IE is included in the HS-DSCH TDD Information IE, then:]
  - [1.28 Mcps TDD The DRNS shall activate the MIMO mode for the HS-DSCH Radio Link.]
  - [1.28 Mcps TDD The DRNS shall decide the SF mode for HS-PDSCH dual stream and include the MIMO SF Mode for HS-PDSCH dual stream IE in the HS-DSCH TDD Information Response IE in the RADIO LINK RECONFIGURATION READY message.]
- [FDD If the Sixtyfour QAM Usage Allowed Indicator IE is included in the HS-DSCH FDD Information IE, then the DRNS may if the value is set to "allowed" use 64 QAM for the HS-DSCH Radio Link, and the DRNS shall include the SixtyfourQAM DL Usage Indicator IE in the HS-DSCH FDD Information Response IE in the RADIO LINK RECONFIGURATION READY message.]
- [FDD If the *Sixtyfour QAM Usage Allowed Indicator* IE is included in the *HS-DSCH FDD Information* IE with value set to "not allowed", then the DRNS shall not use 64 QAM for the HS-DSCH Radio Link.]
- [FDD If the RADIO LINK RECONFIGURATION PREPARE message includes the HS-DSCH MAC-d PDU Size Format IE set to "Flexible MAC-d PDU Size" and if Sixtyfour QAM will not be used, the DRNS shall include the HS-DSCH TB Size Table Indicator IE in the HS-DSCH FDD Information Response IE in the RADIO LINK RECONFIGURATION READY message if it decides to use the octet aligned table defined in TS 25.321 [41] for HS-DSCH Transport Block Size signalling.]
- [FDD If the *UE with enhanced HS-SCCH support indicator* IE is included in the *HS-DSCH FDD Information* IE, then the DRNS may use:]
  - [FDD a different HS-SCCH in consecutive TTIs for this UE]
  - [FDD HS-SCCH orders for the case of HS-SCCH-less operation to this UE]
- [FDD If the UE Support Indicator Extension IE is included in the HS-DSCH FDD Information IE the DRNS may use the supported HSDPA functions for this UE.]
- [FDD If the UE Support Indicator Extension IE is included in the HS-DSCH FDD Information IE with the bit UE DTXDRX related HS-SCCH orders uniform behavior indicator set to 0, then the DRNS shall, if supported, include the Support of dynamic DTXDRX related HS-SCCH order IE in the HS-DSCH FDD Information Response IE in the RADIO LINK RECONFIGURATION READY message.]
- [FDD If secondary serving HS-DSCH is applied also in the new configuration, then any changes related to parameters that are common for both the serving and the secondary serving HS-DSCH should be applied also for the secondary serving HS-DSCH.]
- If the RADIO LINK RECONFIGURATION PREPARE message includes *DL RLC PDU Size Format* IE for a Priority Queue in the *HS-DSCH MAC-d Flows Information* IE in the *HS-DSCH Information* IE, the *DL RLC PDU Size Format* IE may be used by the DRNS to determine the allocated capacity on user plane as described in TS 25.425 [32].
- [FDD If the RADIO LINK RECONFIGURATION PREPARE message includes the *UE Aggregate Maximum Bit Rate Enforcement Indicator* IE in the *Priority Queue Information* IE in the *HS-DSCH MAC-d Flows Information* IE in the *HS-DSCH Information* IE, the DRNS shall, if supported, consider the data of the related HSDPA Priority Queue for UE Aggregate Maximum Bit Rate Enforcement.]
- [FDD If the *Single Stream MIMO Activation Indicator* IE is included in the *HS-DSCH FDD Information* IE, then the DRNS shall activate the Single Stream MIMO for the HS-DSCH Radio Link.]

 [1.28 Mcps TDD – If the UE TSO Capability LCR IE is included in the HS-DSCH TDD Information IE, then the DRNC may include the TSO HS-PDSCH Indication LCR IE in the RADIO LINK RECONFIGURATION READY message if HS-PDSCH resources could be allocated on TSO for the UE]

#### [FDD – Secondary Serving HS-DSCH Setup:]

[FDD – If the *C-ID* IE is present in the *Additional HS Cell Information RL Reconf Prep* IE in the RADIO LINK RECONFIGURATION PREPARE message, then:]

- [FDD The DRNS shall setup the requested HS-PDSCH resources on the secondary serving HS-DSCH Radio Link indicated by the *HS-PDSCH RL ID* IE. Non cell specific secondary serving Radio Link and non cell specific secondary serving HS-DSCH parameters take the same values as for the serving HS-DSCH cell.]
- [FDD The DRNC shall allocate an HS-DSCH-RNTI to the UE Context and include the HS-DSCH-RNTI IE in the Additional HS Cell Information Response IE in the RADIO LINK RECONFIGURATION READY message.]
- [FDD If the RADIO LINK RECONFIGURATION PREPARE message includes the *HS-SCCH Power Offset* IE in the *HS-DSCH FDD Secondary Serving Information* IE, then the DRNS may use this value to determine the HS-SCCH power. The HS-SCCH Power Offset should be applied for any secondary serving HS-SCCH transmission to this UE.]
- [FDD The DRNC shall include the *Measurement Power Offset* IE in the *HS-DSCH FDD Secondary Serving Information Response* IE in the *Additional HS Cell Information Response* IE in the RADIO LINK RECONFIGURATION READY message.]
- [FDD The DRNS shall allocate HS-SCCH codes corresponding to the secondary serving HS-DSCH and the DRNC shall include the HS-SCCH Specific Secondary Serving Information Response IE in the HS-DSCH FDD Secondary Serving Information Response IE in the Additional HS Cell Information Response IE in the RADIO LINK RECONFIGURATION READY message.]
- [FDD If the *MIMO Activation Indicator* IE is included in the *HS-DSCH FDD Secondary Serving Information* IE, then the DRNS shall activate the MIMO mode for the secondary serving HS-DSCH Radio Link and the DRNS shall decide the pilot configuration and the UE reporting configuration (N/M ratio) according to TS 25.214 [10] for MIMO and include the *MIMO Information Response* IE in the *HS-DSCH FDD Secondary Serving Information Response* IE in the *Additional HS Cell Information Response* IE in the RADIO LINK RECONFIGURATION READY message.]
- [FDD If the *Power Offset For S-CPICH for MIMO Request Indicator* IE is included, the DRNC shall, if supported and MIMO pilot configuration with Primary and Secondary CPICH is set up on the cell with a non-zero power offset where the Secondary Serving HS-DSCH Radio Link is established, include the *Power Offset For S-CPICH for MIMO* IE in the *HS-DSCH FDD Secondary Serving Information Response* IE in the RADIO LINK RECONFIGURATION READY message. If zero power offset the DRNC may include the *Power Offset For S-CPICH for MIMO* IE.]
- [FDD If the *Single Stream MIMO Activation Indicator* IE is included in the *HS-DSCH FDD Secondary Serving Information* IE, then the DRNS shall activate the Single Stream MIMO mode for the secondary serving HS-DSCH Radio Link.]
- [FDD The DRNC shall include the *HS-PDSCH And HS-SCCH Scrambling Code* IE in the *HS-DSCH FDD* Secondary Serving Information Response IE in the Additional HS Cell Information Response IE in the RADIO LINK RECONFIGURATION READY message.]
- [FDD If the Sixtyfour QAM Usage Allowed Indicator IE is included in the HS-DSCH FDD Secondary Serving Information IE, then the DRNS may if the value is set to "allowed" use 64 QAM for the secondary serving HS-DSCH Radio Link, and the DRNS shall include the SixtyfourQAM DL Usage Indicator IE in the HS-DSCH FDD Secondary Serving Information Response IE in the Additional HS Cell Information Response IE in the RADIO LINK RECONFIGURATION READY message.]
- [FDD If the *Sixtyfour QAM Usage Allowed Indicator* IE is included in the *HS-DSCH FDD Secondary Serving Information* IE with value set to "not allowed", then the DRNS shall not use 64 QAM for the secondary serving HS-DSCH Radio Link.]
- [FDD If, in the new configuration, the UE context is configured not to use Sixtyfour QAM for the secondaery serving HS-DSCH, then the DRNC shall include the *HS-DSCH TB Size Table Indicator* IE in the *HS-DSCH*

*FDD Secondary Serving Information Response* IE in the *Additional HS Cell Information Response* IE in the RADIO LINK RECONFIGURATION READY message if it decides to use the octet aligned table defined in TS 25.321 [41] for secondary serving HS-DSCH Transport Block Size signalling.]

- [FDD – If the *Diversity Mode* IE is included in the *HS-DSCH FDD Secondary Serving Information* IE, the DRNS shall apply cell specific transmit diversity configuration and if the *Diversity Mode* IE is not set to "None" the DRNS shall activate/deactivate the Transmit Diversity for the secondary serving HS-DSCH Radio Link in accordance with the *Transmit Diversity Indicator* IE in the *HS-DSCH FDD Secondary Serving Information* IE.]

### Intra-DRNS Serving HS-DSCH Radio Link Change:

If the RADIO LINK RECONFIGURATION PREPARE message includes the *HS-PDSCH RL ID* IE, this indicates the new Serving HS-DSCH Radio Link:

The DRNS shall release the HS-PDSCH resources on the old Serving HS-DSCH Radio Link and setup the HS-PDSCH resources on the new Serving HS-DSCH Radio Link.

The DRNC may include the HARQ Memory Partitioning IE in the [FDD – HS-DSCH FDD Information Response IE] [TDD – HS-DSCH TDD Information Response IE] in the RADIO LINK RECONFIGURATION READY message. [FDD – The HARQ Memory Partitioning IE may contain the HARQ Memory Partitioning Information Extension For MIMO IE.] [1.28Mcps TDD – The HARQ Memory Partitioning IE may contain the HARQ Memory Partitioning Information Extension For MIMO IE.]

- If fields are to be included in the User Plane by the SRNC to handle TNL Congestion Control for HSDPA in the DRNS, then the DRNC shall include the *User Plane Congestion Fields Inclusion* IE in the *HS-DSCH Information Response* IE.

The DRNC shall allocate a new HS-DSCH-RNTI to the UE Context and include the *HS-DSCH-RNTI* IE in the RADIO LINK RECONFIGURATION READY message.

If a reset of the MAC-hs is not required the DRNS shall include the *MAC-hs Reset Indicator* IE in the RADIO LINK RECONFIGURATION READY message.

[FDD – The DRNC shall include the *Measurement Power Offset* IE in the *HS-DSCH Information Response* IE in the RADIO LINK RECONFIGURATION READY message.]

[FDD – The DRNS shall allocate HS-SCCH codes corresponding to the HS-DSCH and the DRNC shall include the *HS-SCCH Specific Information Response* IE in the *HS-DSCH FDD Information Response* IE in the RADIO LINK RECONFIGURATION READY message.]

[TDD – The DRNS shall allocate HS-SCCH parameters corresponding to the HS-DSCH and the DRNC shall include the [3.84Mcps TDD – *HS-SCCH Specific Information Response* IE] [1.28Mcps TDD – *HS-SCCH Specific Information Response LCR* IE] [7.68 Mcps TDD – *HS-SCCH Specific Information Response 7.68 Mcps* IE] in the *HS-DSCH TDD Information Response* IE in the RADIO LINK RECONFIGURATION READY message.]

[TDD – The DRNC shall include the [3.84 Mcps TDD – *HS-PDSCH Timeslot Specific Information* IE] [1.28 Mcps TDD – *HS-PDSCH Timeslot Specific Information LCR* IE] [7.68 Mcps TDD – *HS-PDSCH Timeslot Specific Information 7.68 Mcps* IE] in the *HS-DSCH Information Response* IE in the RADIO LINK RECONFIGURATION READY message.]

[FDD – The DRNC shall include the *HS-PDSCH And HS-SCCH Scrambling Code* IE in the *HS-DSCH FDD Information Response* IE in the RADIO LINK RECONFIGURATION READY message.]

- The DRNC may include the *Transport Layer Address* IE and the *Binding ID* IE for HS-DSCH MAC-d flow in the [FDD HS-DSCH FDD Information Response IE] [TDD HS-DSCH TDD Information Response IE] in the RADIO LINK RECONFIGURATION READY message.
- If the *TNL QoS* IE is included for a MAC-d flow and if ALCAP is not used, the *TNL QoS* IE may be used by the DRNS to determine the transport bearer characteristics to apply in the uplink between the DRNS and the SRNC for the related MAC-d flow.
- [FDD If the Sixtyfour QAM Usage Allowed Indicator IE is included in the HS-DSCH Information To Modify IE and the value is set to "allowed" or if HS-DSCH Information To Modify IE is not included and the UE Context is configured with Sixtyfour QAM allowed for the serving HS-DSCH Radio Link and not used in the current

configuration and then if the DRNS decides to use 64 QAM in the new configuration, then it shall include the *SixtyfourQAM DL Usage Indicator* IE in the *HS-DSCH FDD Information Response* IE in the RADIO LINK RECONFIGURATION READY message.]

- [FDD If MAC-ehs is applied in the new configuration, and if Sixtyfour QAM will not be used, the DRNS shall include the *HS-DSCH TB Size Table Indicator* IE in the *HS-DSCH FDD Information Response* IE in the RADIO LINK RECONFIGURATION READY message if it decides to use the octet aligned table defined in TS 25.321 [41] for HS-DSCH Transport Block Size signalling.]
- [FDD If the power offset for S-CPICH for MIMO Request indicator and MIMO activation indicator have been configured in the new configuration and MIMO pilot configuration with Primary and Secondary CPICH is set up with a non-zero power offset on the cell where the Serving HS-DSCH Radio Link is established, the DRNC shall include the *Power Offset For S-CPICH for MIMO* IE in the *HS-DSCH FDD Information Response* IE in the RADIO LINK RECONFIGURATION READY message. If zero power offset the DRNC may include the *Power Offset For S-CPICH for MIMO* IE.]

### [FDD – Intra-DRNS Secondary Serving HS-DSCH Radio Link Change:]

[FDD – If the RADIO LINK RECONFIGURATION PREPARE message includes the *C-ID* IE in the *Additional HS Cell Information RL Reconf Prep* IE and the secondary serving HS-DSCH Radio Link has been configured in the DRNS, the *HS-PDSCH RL ID* IE indicates the new Serving HS-DSCH Radio Link:]

- [FDD The DRNS shall release the HS-PDSCH resources on the old secondary serving HS-DSCH Radio Link and setup the HS-PDSCH resources on the new secondary serving HS-DSCH Radio Link. The DRNS shall remove the old secondary serving HS-PDSCH Radio Link if no E-DCH resources are allocated to the RL. Non cell specific secondary serving Radio Link and non cell specific secondary serving HS-DSCH parameters take the same values as for the serving HS-DSCH cell.]
- [FDD The DRNC shall allocate an HS-DSCH-RNTI to the UE Context and include the HS-DSCH-RNTI IE in the Additional HS Cell Information Response IE in the RADIO LINK RECONFIGURATION READY message.]
- [FDD The DRNC shall include the *Measurement Power Offset* IE in the *HS-DSCH FDD Secondary Serving Information Response* IE in the *Additional HS Cell Information Response* IE in the RADIO LINK RECONFIGURATION READY message.]
- [FDD The DRNS shall allocate HS-SCCH codes corresponding to the secondary serving HS-DSCH and the DRNC shall include the HS-SCCH Specific Secondary Serving Information Response IE in the HS-DSCH FDD Secondary Serving Information Response IE in the Additional HS Cell Information Response IE in the RADIO LINK RECONFIGURATION READY message.]
- [FDD The DRNC shall include the *HS-PDSCH And HS-SCCH Scrambling Code* IE in the *HS-DSCH FDD* Secondary Serving Information Response IE in the Additional HS Cell Information Response IE in the RADIO LINK RECONFIGURATION READY message.]
- [FDD If the Sixtyfour QAM Usage Allowed Indicator IE is included in the HS-DSCH FDD Secondary Serving Information To Modify IE and the value is set to "allowed" or if HS-DSCH FDD Secondary Serving Information To Modify IE is not included and the UE Context is configured with Sixtyfour QAM allowed for the secondary serving HS-DSCH Radio Link and not used in the current configuration and then if the DRNS decides to use 64 QAM for the new secondary serving HS-DSCH Radio Link, then it shall include the SixtyfourQAM DL Usage Indicator IE in the Additional HS Cell Information Response IE in the RADIO LINK RECONFIGURATION READY message.]
- [FDD If, in the new configuration, the UE context is configured not to use Sixtyfour QAM for the secondary serving HS-DSCH, the DRNS shall include the HS-DSCH TB Size Table Indicator IE in the HS-DSCH FDD Secondary Serving Information Response IE in the Additional HS Cell Information Response IE in the RADIO LINK RECONFIGURATION READY message if it decides to use the octet aligned table defined in TS 25.321 [41] for secondary serving HS-DSCH Transport Block Size signalling.]
- [FDD If the power offset for S-CPICH for MIMO Request indicator and MIMO activation indicator have been configured for the secondary serving HS-DSCH radio link in the new configuration and MIMO pilot configuration with Primary and Secondary CPICH is set up with a non zero power offset on the cell where the Secondary Serving HS-DSCH Radio Link is established, the DRNC shall include the *Power Offset For S-CPICH for MIMO* IE in the *HS-DSCH FDD Secondary Serving Information Response* IE in the *Additional HS*

*Cell Information Response* IE in the RADIO LINK RECONFIGURATION READY message. If zero power offset the DRNC may include the *Power Offset For S-CPICH for MIMO* IE.]

#### [FDD – Additional Serving E-DCH Radio Link Change to an existing additional non serving E-DCH RL:]

[FDD – If the RADIO LINK RECONFIGURATION PREPARE message includes the *C-ID* IE in the *Additional HS Cell Information RL Reconf Prep* IE and an additional non serving E-DCH RL exists in the cell indicated by the *C-ID* IE, the *HS-PDSCH RL ID* IE in the *Additional HS Cell Information RL Reconf Prep* IE indicates the new Additional Serving E-DCH Radio Link.]

- [FDD If the old Additional Serving E-DCH RL is within this DRNS, the DRNS shall de-allocate the E-AGCH resources of the old Serving Additional E-DCH Radio Link at the activation of the new configuration.]
- [FDD The DRNS shall allocate a primary E-RNTI identifier or a secondary E-RNTI identifier or both for the new Additional Serving E-DCH Radio Link and include these E-RNTI identifiers along with the channelisation code of the corresponding E-AGCH in the *E-DCH FDD DL Control Channel Information* IE in the *Additional Modified E-DCH FDD Information Response* IE in the *Additional E-DCH Cell Information Response RLReconf* IE in the RADIO LINK RECONFIGURATION READY message]
- [FDD The DRNS may include the Serving Grant Value IE and Primary/Secondary Grant Selector IE in the E-DCH FDD DL Control Channel Information IE in the Additional Modified E-DCH FDD Information Response IE in the Additional E-DCH Cell Information Response RLReconf IE in the RADIO LINK RECONFIGURATION READY message for the initial grant for the Additional serving E-DCH RL and may include the Default Serving Grant in DTX Cycle 2 IE.]
- [FDD If the E-DCH HARQ process allocation for 2ms TTI for scheduled transmission shall be changed, the DRNS shall allocate resources according to the new/changed configuration and include the new/changed configuration in the HARQ Process Allocation For 2ms Scheduled Transmission Grant IE in the Additional Modified E-DCH FDD Information Response IE in the Additional E-DCH Cell Information Response RLReconf IE in the RADIO LINK RECONFIGURATION READY message.]
- [FDD The DRNS may include the *E-RGCH/E-HICH Channelisation Code* IE and/or the *E-HICH Signature Sequence* IE and/or the *E-RGCH Signature Sequence* IE or may alternatively include the *E-RGCH Release Indicator* IE in the *E-DCH FDD DL Control Channel Information* IE in the Additional Modified *E-DCH FDD Information Response* IE in the Additional *E-DCH Cell Information Response RLReconf* IE in the RADIO LINK RECONFIGURATION READY message for every E-DCH Radio Link on secondary UL frequency in the DRNS. If the DRNS has no valid data for the *E-RGCH/E-HICH Channelisation Code* IE in the *E-DCH FDD DL Control Channel Information* IE then it shall insert the *E-RGCH and E-HICH Channelisation Code* Validity Indicator IE in the *E-DCH FDD DL Control Channel Information* IE, to indicate that the *E-RGCH/E-HICH Channelisation Code* IE contains invalid data.]

## [FDD – Additional Serving E-DCH Radio Link Change to a new RL:]

[FDD – If the RADIO LINK RECONFIGURATION PREPARE message includes the *Additional E-DCH RL* Specific Information To Add IE in the Additional E-DCH Configuration Change Information IE in the Additional E-DCH Cell Information RL Reconf Prep IE and the C-ID IE in the Additional HS Cell Information RL Reconf Prep IE and there is no radio links in the cell indicated by the C-ID IE for the UE context, the HS-PDSCH RL ID IE indicates the new Additional Serving E-DCH Radio Link on secondary UL frequency.]

- [FDD If the old Additional Serving E-DCH RL is within this DRNS, the DRNS shall de-allocate the E-AGCH resources of the old Additional Serving E-DCH Radio Link at the activation of the new configuration.]
- [FDD In the new configuration the DRNS shall allocate the E-DCH resources for the new additional serving E-DCH Radio Link on the secondary UL frequency. Non cell specific E-DCH parameters shall take the same values as for the corresponding cell of the Primary uplink frequency.]
- [FDD The DRNS shall allocate a primary E-RNTI identifier or a secondary E-RNTI identifier or both for the new Additional Serving E-DCH Radio Link and include these E-RNTI identifiers along with the channelisation code of the corresponding E-AGCH in the *E-DCH FDD DL Control Channel Information* IE in the *Additional E-DCH FDD Information Response* IE in the *Additional E-DCH Cell Information Response RLReconf* IE in the RADIO LINK RECONFIGURATION READY message.]

- [FDD The DRNS may include in the *E-DCH FDD DL Control Channel Information* IE in the *Additional E-DCH FDD Information Response* IE in the *Additional E-DCH Cell Information Response RLReconf* IE in the RADIO LINK RECONFIGURATION READY message the *Serving Grant Value* IE and *Primary/Secondary Grant Selector* IE for the initial grant for the additional serving E-DCH RL and may include the *Default Serving Grant in DTX Cycle 2* IE]
- [FDD If the E-DCH HARQ process allocation for 2ms TTI for scheduled transmission shall be changed, the DRNS shall allocate resources according to the new/changed configuration and include the new/changed configuration in the HARQ Process Allocation For 2ms Scheduled Transmission Grant IE in the Additional E-DCH FDD Information Response IE in the Additional E-DCH Cell Information Response RLReconf IE in the RADIO LINK RECONFIGURATION READY message.]

### **HS-DSCH Modification:**

If the RADIO LINK RECONFIGURATION PREPARE message includes the *HS-DSCH Information To Modify* IE, then:

- The DRNC shall include the *HS-DSCH Initial Capacity Allocation* IE for each HS-DSCH MAC-d flow being modified for which the establishment of one or several new Priority Queues was requested, if the DRNS allows the SRNC to start the transmission of MAC-d PDUs for the Priority Queue(s) being established before the DRNS has allocated capacity on user plane as described in TS 25.425 [32]. If RADIO LINK RECONFIGURATION PREPARE message includes *HS-DSCH MAC-d PDU Size Format* IE in the *HS-DSCH Information To Modify* IE set to "Flexible MAC-d PDU Size", then DRNC shall only set in the *HS-DSCH Initial Capacity Allocation* IE the values for the peer of *Scheduling Priority Indicator* IE and *Maximum MAC-d PDU Size Extended* IE to the values of the corresponding peer I in RADIO LINK RECONFIGURATION PREPARE in the *HS-DSCH Information To Modify* IE for a Priority Queue including *Scheduling Priority Indicator* IE and *Maximum MAC-d PDU Size Extended* IE.
- If the RADIO LINK RECONFIGURATION PREPARE message includes the *Traffic Class* IE in the *HS-DSCH Information To Modify* IE for a specific HS-DSCH MAC-d flow, the DRNS may use this information to determine the transport bearer characteristics to apply between DRNC and Node B. The DRNC should ignore the *Traffic Class* IE if the *TrCH Source Statistics Descriptor* IE for this specific HS-DSCH MAC-d flow indicates the value "RRC".
- If the *TNL QoS* IE is included for a MAC-d flow and if ALCAP is not used, the *TNL QoS* IE may be used by the DRNS to determine the transport bearer characteristics to apply in the uplink between the DRNS and the SRNC for the related MAC-d flow.
- If the RADIO LINK RECONFIGURATION PREPARE message includes the *MAC-hs Guaranteed Bit Rate* IE in the *HS-DSCH Information To Modify* IE, the DRNS shall use this information to optimise MAC-hs scheduling decisions for the related HSDPA Priority Queue.
- If the RADIO LINK RECONFIGURATION PREPARE message includes the *Discard Timer* IE for a Priority Queue in the *HS-DSCH Information To Modify* IE, then the DRNS shall use this information to discard out-of-date MAC-hs SDUs from the related HSDPA Priority Queue.
- If the RADIO LINK RECONFIGURATION PREPARE message includes the *Maximum MAC-d PDU Size Extended* IE in the *HS-DSCH Information To Modify* IE, then the DRNS shall ignore the *SID* IE and *MAC-d PDU Size* IE in the *MAC-d PDU Size Index* IE and use *Maximum MAC-d PDU Size Extended* IE to optimise capacity allocation for the related HSDPA Priority Queue.
- If the RADIO LINK RECONFIGURATION PREPARE message includes the *MAC-hs Window Size* IE or *T1* IE in the *HS-DSCH Information To Modify* IE, then the DRNS shall use the indicated values in the new configuration for the related HSDPA Priority Queue.
- If the RADIO LINK RECONFIGURATION PREPARE message includes the *MAC-d PDU Size Index* IE in the *Modify Priority Queue* choice, the DRNS shall delete the previous list of MAC-d PDU Size Index values for the related HSDPA Priority Queue and use the MAC-d PDU Size Index values indicated in the *MAC-d PDU Size Index* IE in the new configuration.
- [FDD If the RADIO LINK RECONFIGURATION PREPARE message includes the *CQI Feedback Cycle k* IE, the *CQI Repetition Factor* IE, the *ACK-NACK Repetition Factor* IE, the *ACK Power Offset* IE, the *NACK Power Offset* IE or the *CQI Power Offset* IE in the *HS-DSCH Information To Modify* IE, then the DRNS shall

use the indicated CQI Feedback Cycle k value, the CQI Repetition Factor or the ACK-NACK Repetition Factor, ACK Power Offset, the NACK Power Offset or the CQI Power Offset in the new configuration.]

- [FDD If the *HS-SCCH Power Offset* IE is included in the *HS-DSCH Information To Modify* IE, the DRNS may use this value to determine the HS-SCCH power. The HS-SCCH Power Offset should be applied for any HS-SCCH transmission to this UE.]
- [TDD If the RADIO LINK RECONFIGURATION PREPARE message includes the *TDD ACK NACK Power Offset* IE in the *HS-DSCH Information To Modify* IE, the DRNS shall use the indicated power offset in the new configuration.]
- [FDD If the HS-DSCH Information To Modify IE includes the HS-SCCH Code Change Grant IE, then the DRNS may modify the HS-SCCH codes corresponding to the HS-DSCH. The DRNC shall then report the codes which are used in the new configuration specified in the HS-SCCH Specific Information Response IE in the RADIO LINK RECONFIGURATION READY message.]
- [FDD If the HS-DSCH Information To Modify IE includes the HS-PDSCH Code Change Grant IE, then the
  DRNS may modify the HS-PDSCH codes corresponding to the HS-DSCH. The DRNC shall then report the
  codes which are used in the new configuration specified in the Continuous Packet Connectivity HS-SCCH less
  Information Response IE in the RADIO LINK RECONFIGURATION READY message. If the concerned
  DRNS is not in Continuous Packet Connectivity HS-SCCH less mode, the SRNC shall not include the HSPDSCH Code Change Grant IE in the HS-DSCH Information To Modify IE.]
- [TDD If the HS-DSCH Information To Modify IE includes the HS-SCCH Code Change Grant IE, then the DRNS may modify the HS-SCCH parameters corresponding to the HS-DSCH. The DRNC shall then report the values for the parameters which are used in the new configuration specified in the [3.84Mcps TDD HS-SCCH Specific Information Response IE] [1.28Mcps TDD HS-SCCH Specific Information Response IE] [1.28Mcps TDD HS-SCCH Specific Information Response LCR IE] [7.68 Mcps TDD HS-SCCH Specific Information Response 7.68 Mcps IE] in the RADIO LINK RECONFIGURATION READY message.]
- [FDD If the RADIO LINK RECONFIGURATION PREPARE message includes the HARQ Preamble Mode IE in the HS-DSCH Information To Modify IE, then the DRNS shall use the indicated HARQ Preamble Mode in the new configuration as described in TS 25.214 [10], if HS-DPCCH ACK/NACK preamble and postamble is supported. Then, in this case, if the mode 1 is applied, the DRNC shall include the HARQ Preamble Mode Activation Indicator IE in the HS-DSCH Information Response IE in the RADIO LINK RECONFIGURATION READY message. If the HARQ Preamble Mode IE is not included or if the mode 0 is applied, then the DRNC shall not include the HARQ Preamble Mode Activation Indicator IE in the HS-DSCH Information Response IE in the RADIO LINK RECONFIGURATION READY message.]
- If the RADIO LINK RECONFIGURATION PREPARE message includes the *HS-DSCH MAC-d PDU Size Format* IE in the *HS-DSCH Information To Modify* IE, then the DRNS shall use, in the new configuration, the indicated format in user plane frame structure for HS-DSCH channels TS 25.425 [32] and MAC-hs TS 25.321 [41].
- [FDD If the RADIO LINK RECONFIGURATION PREPARE message includes the *HS-DSCH Physical Layer Category* IE in the *HS-DSCH Information To Modify* IE, the DRNS shall use this information in the new configuration.]
- [FDD If the MIMO Mode Indicator IE is included in the HS-DSCH Information To Modify IE, then:]
  - [FDD The DRNS shall activate/deactivate the MIMO mode for the HS-DSCH Radio Link in the new configuration in accordance with the *MIMO Mode Indicator* IE.]
  - [FDD If the *MIMO Mode Indicator* IE is set to "Activate", then the DRNS shall decide the pilot configuration and the UE reporting configuration (N/M ratio) according to TS 25.214 [10] for MIMO and include the *MIMO Information Response* IE in the *HS-DSCH FDD Information Response* IE in the RADIO LINK RECONFIGURATION READY message.]
  - [FDD If the MIMO Mode Indicator IE is set to "Activate" and Power Offset For S-CPICH for MIMO Request Indicator IE is included, the DRNC shall, if supported and MIMO pilot configuration with Primary and Secondary CPICH is set up with a non-zero power offset on the cell where the Serving HS-DSCH Radio Link is established, include the Power Offset For S-CPICH for MIMO IE in the HS-DSCH FDD Information Response IE. If zero power offset the DRNC may include the Power Offset For S-CPICH for MIMO IE.]

- [FDD The DRNC may include the *HARQ Memory Partitioning* IE in the RADIO LINK RECONFIGURATION READY message. The *HARQ Memory Partitioning* IE may contain the *HARQ Memory Partitioning Information Extension For MIMO* IE.]
- [FDD If the *Sixtyfour QAM Usage Allowed Indicator* IE is included in the *HS-DSCH Information To Modify* IE, then the DRNS may if the value is set to "allowed" use 64 QAM for the HS-DSCH Radio Link, and the DRNS shall include the *SixtyfourQAM DL Usage Indicator* IE in the *HS-DSCH FDD Information Response* IE in the RADIO LINK RECONFIGURATION READY message.]
- [FDD If the *Sixtyfour QAM Usage Allowed Indicator* IE is included in the *HS-DSCH Information To Modify* IE with value set to "not allowed", then the DRNS shall not use 64 QAM for the HS-DSCH Radio Link.]
- [FDD If MAC-ehs is applied in the new configuration, and if Sixtyfour QAM will not be used, the DRNS shall include the *HS-DSCH TB Size Table Indicator* IE in the *HS-DSCH FDD Information Response* IE in the RADIO LINK RECONFIGURATION READY message if it decides to use the octet aligned table defined in TS 25.321 [41] for HS-DSCH Transport Block Size signalling.]
- [1.28Mcps TDD If the *MIMO Mode Indicator* IE is included in the *HS-DSCH Information To Modify* IE, then:]
  - [1.28Mcps TDD The DRNS shall activate/deactivate the MIMO mode for the HS-DSCH Radio Link in the new configuration in accordance with the *MIMO Mode Indicator* IE.]
  - [1.28 Mcps TDD If the MIMO Mode Indicator IE is set to "Activate", then the DRNS shall decide the SF mode for HS-PDSCH dual stream and include the MIMO SF Mode for HS-PDSCH dual stream IE in the HS-DSCH TDD Information Response IE in the RADIO LINK RECONFIGURATION READY message.]
- [1.28Mcps TDD The DRNC may include the *HARQ Memory Partitioning* IE in the RADIO LINK RECONFIGURATION READY message. The *HARQ Memory Partitioning* IE may contain the *HARQ Memory Partitioning Information Extension For MIMO* IE.]
- [FDD Any secondary serving HS-DSCH that was applied in the old configuration shall remain in the new configuration unless it is explicitly removed.]
- [FDD If secondary serving HS-DSCH is applied also in the new configuration, then any changes related to parameters that are common for both the serving and the secondary serving HS-DSCH should be applied also for the secondary serving HS-DSCH.]
- If the RADIO LINK RECONFIGURATION PREPARE message includes *DL RLC PDU Size Format* IE for a Priority Queue in the *HS-DSCH Information To Modify* IE, the *DL RLC PDU Size Format* IE may be used by the DRNS to determine the allocated capacity on user plane as described in TS 25.425 [32].
- [FDD If the *UE Support Indicator Extension* IE is included in the *HS-DSCH Information To Modify* IE the DRNS may use the supported HSDPA functions for this UE.]
- [FDD If the UE Support Indicator Extension IE is included in the HS-DSCH Information To Modify IE with the bit UE DTXDRX related HS-SCCH orders uniform behavior indicator set to 0, then the DRNS shall, if supported, include the Support of dynamic DTXDRX related HS-SCCH order IE in the HS-DSCH FDD Information Response IE in the RADIO LINK RECONFIGURATION READY message.]
- [FDD If the *Single Stream MIMO Mode Indicator* IE is included in the *HS-DSCH Information To Modify* IE, then the DRNS shall activate/deactivate the Single Stream MIMO for the HS-DSCH Radio Link in accordance with the *Single Stream MIMO Mode Indicator* IE.]

## [FDD – Secondary Serving HS-DSCH Modification:]

[FDD – If the RADIO LINK RECONFIGURATION PREPARE message includes the HS-DSCH FDD Secondary Serving Information To Modify IE, then:]

- [FDD – If the *HS-SCCH Power Offset* IE is included in the *HS-DSCH FDD Secondary Serving Information To Modify* IE, the DRNS may use this value to determine the HS-SCCH power. The HS-SCCH Power Offset should be applied for any secondary serving HS-SCCH transmission to this UE.]

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- [FDD If the HS-DSCH FDD Secondary Serving Information To Modify IE includes the HS-SCCH Code Change Grant IE, then the DRNS may modify the HS-SCCH codes corresponding to the secondary serving HS-DSCH. The DRNC shall then report the codes which are used in the new configuration specified in the HS-SCCH Specific Secondary Serving Information Response IE in the HS-DSCH FDD Secondary Serving Information Response IE in the Additional HS Cell Information Response IE in the RADIO LINK RECONFIGURATION READY message.]
- [FDD If the *MIMO Mode Indicator* IE is included in the *HS-DSCH FDD Secondary Serving Information To Modify* IE, then the DRNS shall activate/deactivate the MIMO mode for the secondary serving HS-DSCH Radio Link in accordance with the *MIMO Mode Indicator* IE.]
- [FDD If the *MIMO Mode Indicator* IE is set to "Activate", then the DRNS shall decide the pilot configuration and the UE reporting configuration (N/M ratio) according to TS 25.214 [10] for MIMO and include the *MIMO Information Response* IE in the *HS-DSCH FDD Secondary Serving Information Response* IE in the *Additional HS Cell Information Response* IE in the RADIO LINK RECONFIGURATION READY message.]
- [FDD If the *MIMO Mode Indicator* IE is set to "Activate" and *Power Offset For S-CPICH for MIMO Request Indicator* IE is included, the DRNC shall, if supported and MIMO pilot configuration with Primary and Secondary CPICH is set up with a non-zero power offset on the cell where the Secondary Serving HS-DSCH Radio Link is established, include the *Power Offset For S-CPICH for MIMO* IE in the *HS-DSCH FDD Secondary Serving Information Response* IE in the *Additional HS Cell Information Response* IE in the RADIO LINK RECONFIGURATION READY message. If zero power offset the DRNC may include the *Power Offset For S-CPICH for MIMO* IE.]
- [FDD If the *Single Stream MIMO Mode Indicator* IE is included in the *HS-DSCH FDD Secondary Serving Information To Modify* IE, then the DRNS shall activate/deactivate the Single Stream MIMO mode for the secondary serving HS-DSCH Radio Link in accordance with the *Single Stream MIMO Mode Indicator* IE.]
- [FDD If the Sixtyfour QAM Usage Allowed Indicator IE is included in the HS-DSCH FDD Secondary Serving Information To Modify IE, then the DRNS may if the value is set to "allowed" use 64 QAM for the secondary serving HS-DSCH Radio Link, and the DRNS shall include the SixtyfourQAM DL Usage Indicator IE in the HS-DSCH FDD Secondary Serving Information Response IE in the Additional HS Cell Information Response IE in the RADIO LINK RECONFIGURATION READY message.]
- [FDD If the *Sixtyfour QAM Usage Allowed Indicator* IE is included in the *HS-DSCH FDD Secondary Serving Information To Modify* IE with value set to "not allowed", then the DRNS shall not use 64 QAM for the secondary serving HS-DSCH Radio Link.]
- [FDD If, in the new configuration, the UE context is configured not to use Sixtyfour QAM for the secondaery serving HS-DSCH, then the DRNC shall include the *HS-DSCH TB Size Table Indicator* IE in the *HS-DSCH FDD Secondary Serving Information Response* IE in the Additional HS Cell Information Response IE in the RADIO LINK RECONFIGURATION READY message if it decides to use the octet aligned table defined in TS 25.321 [41] for secondary serving HS-DSCH Transport Block Size signalling.]
- [FDD If the *Diversity Mode* IE is included, then:]
  - [FDD- the DRNS shall apply cell specific transmit diversity configuration for the secondary serving HS-DSCH radio link according to *Diversity Mode* IE and *Transmit Diversity Indicator* IE in the *HS-DSCH FDD Secondary Serving Information To Modify* IE,]
  - [FDD If the *Diversity Mode* IE is not set to "None", the DRNS shall apply diversity for the secondary serving HS-DSCH radio link according to the value given in the *Transmit Diversity Indicator* IE in the *HS-DSCH FDD Secondary Serving Information To Modify* IE.]
- [FDD If the *Non Cell Specific Tx Diversity* IE equals "Tx Diversity" is included, the DRNS shall apply non cell specific transmit diversity configuration and reconfigure the transmit diversity setting for the secondary serving HS-DSCH radio link to the same value as defined for the serving HS-DSCH radio link in the new configuration.]

#### [FDD – Secondary Serving HS-DSCH Removal:]

[FDD – If the RADIO LINK RECONFIGURATION PREPARE message includes the *HS-DSCH Secondary Serving Remove* IE in the *Additional HS Cell Information RL Reconf Prep* IE, then the indicated secondary serving HS-DSCH Radio Link shall be removed.]

#### HS-DSCH MAC-d Flow Addition/Deletion:

If the RADIO LINK RECONFIGURATION PREPARE message includes any *HS-DSCH MAC-d Flows To Add* or *HS-DSCH MAC-d Flows To Delete* IEs, then the DRNS shall use this information to add/delete the indicated HS-DSCH MAC-d flows on the Serving HS-DSCH Radio Link. When an HS-DSCH MAC-d flow is deleted, all its associated Priority Queues shall also be removed.

If the RADIO LINK RECONFIGURATION PREPARE message includes an *HS-DSCH MAC-d Flows To Delete* IE requesting the deletion of all remaining HS-DSCH MAC-d flows for the UE Context, then the DRNC shall delete the HS-DSCH configuration from the UE Context and release the HS-PDSCH resources.

If the RADIO LINK RECONFIGURATION PREPARE message includes the *HS-DSCH MAC-d Flows To Add* IE, then:

- The DRNS may use the Traffic Class IE for a specific HS-DSCH MAC-d flow to determine the transport bearer characteristics to apply between DRNC and Node B. If TrCH Source Statistics Descriptor IE is present with the value "RRC" in the HS-DSCH MAC-d Flows Information IE, then the DRNC should ignore the Traffic Class IE.
- If the TNL QoS IE is included for a MAC-d flow and if ALCAP is not used, the TNL QoS IE may be used by the DRNS to determine the transport bearer characteristics to apply in the uplink between the DRNS and the SRNC for the related MAC-d flow.
- The DRNC shall include the HS-DSH Initial Capacity Allocation IE in the RADIO LINK RECONFIGURATION READY message for every HS-DSCH MAC-d flow being added, if the DRNS allows the SRNC to start transmission of MAC-d PDUs before the DRNS has allocated capacity on user plane as described in TS 25.425 [32]. If the UE context is configured to use the "Flexible MAC-d PDU Size" format for the HS-DSCH, then DRNC shall only set in the HS-DSCH Initial Capacity Allocation IE the values for the peer of Scheduling Priority Indicator IE and Maximum MAC-d PDU Size Extended IE to the values of the corresponding peer I in RADIO LINK RECONFIGURATION PREPARE message in the HS-DSCH MAC-d Flows To Add IE for a Priority Queue including Scheduling Priority Indicator IE and Maximum MAC-d PDU Size Extended IE.
- If the RADIO LINK RECONFIGURATION PREPARE message includes the MAC-hs Guaranteed Bit Rate IE in the HS-DSCH MAC-d Flows To Add IE, the DRNS shall use this information to optimise MAC-hs scheduling decisions for the related HSDPA Priority Queue.
- If the RADIO LINK RECONFIGURATION PREPARE message includes the Discard Timer IE for a Priority Queue in the HS-DSCH MAC-d Flows To Add IE, then the DRNS shall use this information to discard out-of-date MAC-hs SDUs from the related HSDPA Priority Queue.
- If the RADIO LINK RECONFIGURATION PREPARE message includes the Maximum MAC-d PDU Size Extended IE for a Priority Queue in the HS-DSCH MAC-d Flows To Add IE, then the DRNC shall ignore the SID IE and MAC-d PDU Size IE in the MAC-d PDU Size Index IE and use Maximum MAC-d PDU Size Extended IE to optimise capacity allocation for the related HSDPA Priority Queue.
- The DRNC may include the HARQ Memory Partitioning IE in the RADIO LINK RECONFIGURATION READY message. [FDD – The HARQ Memory Partitioning IE may contain the HARQ Memory Partitioning Information Extension For MIMO IE.]
- If the RADIO LINK RECONFIGURATION PREPARE message includes DL RLC PDU Size Format IE for a Priority Queue in the HS-DSCH MAC-d Flows To Add IE, the DL RLC PDU Size Format IE may be used by the DRNS to determine the allocated capacity on user plane as described in TS 25.425 [32].
- [FDD If the RADIO LINK RECONFIGURATION PREPARE message includes the *UE Aggregate Maximum Bit Rate Enforcement Indicator* IE for a Priority Queue in the *HS-DSCH MAC-d Flows To Add* IE, the DRNS shall, if supported, consider the data of the related HSDPA Priority Queue for UE Aggregate Maximum Bit Rate Enforcement.]

### [FDD – HS-DSCH Preconfiguration for Enhanced HS Serving Cell Change]

[FDD – If the RADIO LINK RECONFIGURATION PREPARE message includes the *HS-DSCH Preconfiguration Setup* IE in the *RL Information* IE the DRNS shall, if supported, preconfigure the indicated cells for Enhanced HS Serving Cell Change according to TS 25.308 [63]:]

- [FDD The DRNS shall preconfigure sets of HS-SCCH codes on the cells preconfigured for HS-DSCH, primary serving HS-DSCH cell, as well as on the secondary serving HS-DSCH cells. The primary serving HS-DSCH cell is designated through the *C-ID* IE part of the *RL Information* IE in the RADIO LINK RECONFIGURATION PREPARE message. The list of secondary serving HS-DSCH cells is designated by the list of *Secondary C-ID* IEsin the *HS-DSCH Preconfiguration Setup* IE part of the *RL Information* IE in the RADIO LINK RECONFIGURATION PREPARE message.]
- [FDD The number of HS-SCCH codes to preconfigure for each cell may be optionally specified: ]
  - [FDD by the *Num Primary HS-SCCH Codes* IE in the *HS-DSCH Preconfiguration Setup* IE, for the primary serving HS-DSCH cell.]
  - [FDD by the *Num Secondary HS-SCCH Codes* IE in *the Secondary Cells* IE in the *HS-DSCH Preconfiguration Setup* IE for each of the secondary serving HS-DSCH cells.]
- [FDD If *Num Primary HS-SCCH Codes* IE or *Num Secondary HS-SCCH Codes* IE is not included in the message the number and distribution of codes on primary and any secondary cells shall be preconfigured to satisfy any limitations in TS 25.214 [10].
- [FDD The DRNS shall return these codes in the *Sets of HS-SCCH Codes* IE along with the corresponding percell *HS-DSCH-RNTI* IE in the *HS-DSCH Preconfiguration Info* IE in the *RL Information Response* IE of the RADIO LINK RECONFIGURATION READY.]
- [FDD The DRNS shall use the first in the numbered list the primary serving HS-DSCH cell's of HS-SCCH codes in the HS-SCCH Preconfigured Codes IE sent to the SRNC to signal the Target Cell HS-SCCH Order defined in ITU-T Rec. X.680 [18].]
- [FDD The DRNS shall include, in the *HS-DSCH Preconfiguration Info* IE in the *RL Information Response* IE in the RADIO LINK RECONFIGURATION READY message, IEs according to the rules defined for HS-DSCH Setup at Serving HS-DSCH Radio Link Change and:]
  - [FDD if *HARQ Preamble Mode* IE is included in the *HS-DSCH Preconfiguration Setup* IE the HARQ Preamble Mode Activation Indicator IE.]
  - [FDD if *MIMO Activation Indicator* IE is included in the *HS-DSCH Preconfiguration Setup* IE the *MIMO N/M Ratio* IE.]
  - [FDD if *HS-DSCH MAC-d PDU Size Format* IE is included in the *HS-DSCH Preconfiguration Setup* IE and set to "Flexible MAC-d PDU Size" and if Sixtyfour QAM will not be used for the cell in the preconfiguration the *HS-DSCH TB Size Table Indicator* IE for each preconfigured cell.]
  - [FDD if Sixtyfour QAM Usage Allowed Indicator IE is included in the Secondary Cells IE in the HS-DSCH Preconfiguration Setup IE or in the HS-DSCH Preconfiguration Setup IE the SixtyfourQAM DL Usage Indicator IE for each preconfigured cell.]
  - [FDD if Continuous Packet Connectivity HS-SCCH less Information IE is included in the HS-DSCH Preconfiguration Setup IE the Continuous Packet Connectivity HS-SCCH less Information Response IE.]
  - [FDD if the *UE with enhanced HS-SCCH support indicator* IE is included in the *HS-DSCH Preconfiguration Setup* IE, then the DRNS shall store this information in the preconfigured configuration.]
  - [FDD the SixtyfourQAM DL Support Indicator IE may be included.]
  - [FDD If the *UE Support Indicator Extension* IE is included in the *HS-DSCH Preconfiguration Setup* IE, then the DRNS may store this information in the preconfigured configuration.]
  - [FDD If the UE Support Indicator Extension IE is included in the HS-DSCH Preconfiguration Setup IE with the bit UE DTXDRX related HS-SCCH orders uniform behavior indicator set to 0, then the DRNS shall, if supported, include the Support of dynamic DTXDRX related HS-SCCH order IE in the HS-DSCH Preconfiguration Info IE in the RADIO LINK RECONFIGURATION READY message.]

- [FDD the DRNS shall, if supported, include in the Sets of HS-SCCH Codes IE the Measurement Power Offset IE for each preconfigured cell.]
- [FDD The DRNS shall include in the HS-DSCH Preconfiguration Info IE in the RL Information Response IE in the RADIO LINK RECONFIGURATION READY message the E-DCH FDD DL Control Channel Information containing the preconfigured configuration of the E-DCH serving cell according to the rules defined for Serving E-DCH Radio Link Change as follows:]
  - [FDD The DRNS shall allocate for the preconfigured configuration a primary E-RNTI identifier or a secondary E-RNTI identifier or both for the new Serving E-DCH Radio Link and include these E-RNTI identifiers along with the channelisation code of the corresponding E-AGCH in the *E-DCH FDD DL Control Channel Information* IE.]
  - [FDD The DRNS may preconfigure the *Serving Grant Value* IE and *Primary/Secondary Grant Selector* IE for the initial grant for the serving E-DCH RL and include these values in the *E-DCH FDD DL Control Channel Information* IE.]
- [FDD If the Power Offset For S-CPICH for MIMO Request Indicator IE is included in the HS-DSCH
  Preconfiguration Setup IE or in the Secondary Cells IE in the HS-DSCH Preconfiguration Setup IE, the DRNC
  shall, if supported and MIMO pilot configuration with Primary and Secondary CPICH is set up on the cell with a
  non-zero power offset where HS-DSCH / secondary HS-DSCH is preconfigured, include the Power Offset For
  S-CPICH for MIMO IE in the HS-DSCH Preconfiguration Info IE or in the Sets of HS-SCCH Codes IE in the
  HS-DSCH Preconfiguration Info IE for each preconfigured cell in the RADIO LINK RECONFIGURATION
  READY message. If zero power offset the DRNC may include the Power Offset For S-CPICH for MIMO IE.]

[FDD – If the RADIO LINK RECONFIGURATION PREPARE message includes the *Non-Serving RL Preconfiguration Setup* IE in the *RL Information* IE and:]

- [FDD if the choice of *new Serving RL* is "New Serving RL in the DRNS", the DRNC may include the *New non-serving RL E-DCH FDD DL Control Channel Information A* IE and/or *New non-serving RL E-DCH FDD DL Control Channel Information B* IE in the *Non-Serving RL Preconfiguration Info* IE for the RL in the RADIO LINK RECONFIGURATION READY message.]
- [FDD if the choice of *new Serving RL* is "New Serving RL Not in the DRNS", the DRNC may include the *New non-serving RL E-DCH FDD DL Control Channel Information C* IE in the *Non-Serving RL Preconfiguration Info* IE for the RL in the RADIO LINK RECONFIGURATION READY message.]
- [FDD if the choice of *new Serving RL* is "New Serving RL in the DRNS or New Serving RL Not in the DRNS", the DRNC may include the *New non-serving RL E-DCH FDD DL Control Channel Information A* IE, the *New non-serving RL E-DCH FDD DL Control Channel Information B* IE and/or the *New non-serving RL E-DCH FDD DL Control Channel Information C* for the RL in the *Non-Serving RL Preconfiguration Info* IE in the RADIO LINK RECONFIGURATION READY message.]
- [FDD if the Additional E-DCH Non-Serving RL Preconfiguration Setup IE is included, the DRNC may include the New non-serving RL E-DCH FDD DL Control Channel Information A IE, the New non-serving RL E-DCH FDD DL Control Channel Information B IE and/or the New non-serving RL E-DCH FDD DL Control Channel Information C IE according to the choice of new Serving RL in Additional E-DCH New non-serving RL E-DCH FDD DL Control Channel Information IE for the additional non serving E-DCH RL in the Non-Serving RL Preconfiguration Info IE in the RADIO LINK RECONFIGURATION READY message.]

#### [FDD – Enhanced HS Serving Cell Change:]

[FDD ---Upon receipt of the RADIO LINK RECONFIGURATION PREPARE message, if the Enhanced HS Serving Cell Change is preconfigured in the DRNS for the UE context, the DRNS may execute the Enhanced HS Serving Cell Change procedure according to [63.]

[FDD – If the RADIO LINK RECONFIGURATION PREPARE message includes the *Enhanced HS Serving CC Abort* IE in the *HS-DSCH Information To Modify* IE or the *HS-DSCH FDD Information* IE then the DRNS shall not execute the synchronized Enhanced HS Serving Cell Change procedure when performing the Serving HS-DSCH Radio Link Change or the HS-DSCH Setup.]

[FDD - If the RADIO LINK RECONFIGURATION PREPARE message includes the *Non-Serving RL Preconfiguration Removal* IE, the DRNS shall remove the corresponding preconfigured E-DCH DL Control Channel Information according to the information.]

### [FDD – E-DCH Setup:]

[FDD – If the *E-DCH FDD Information* IE is present in the RADIO LINK RECONFIGURATION PREPARE message then:]

- [FDD If the RADIO LINK RECONFIGURATION PREPARE message includes the *MAC-es Guaranteed Bit Rate* IE in the *E-DCH Logical Channel Information* IE in the *E-DCH FDD Information* IE, then the DRNS shall use this information to optimise MAC-e scheduling decisions.]
- [FDD If the RADIO LINK RECONFIGURATION PREPARE message includes UE Aggregate Maximum Bit Rate Enforcement Indicator IE in the E-DCH Logical Channel Information IE in the E-DCH FDD Information IE, then the DRNS shall, if supported, consider the data of the related E-DCH Logical Channel for UE Aggregate Maximum Bit Rate Enforcement.]
- [FDD If the RADIO LINK RECONFIGURATION PREPARE message includes the Maximum MAC-d PDU Size Extended IE for a E-DCH Logical Channel in the E-DCH MAC-d Flows Information IE in the E-DCH FDD Information IE, then the DRNS shall ignore the MAC-d PDU Size IE in the MAC-d PDU Size List IE and use Maximum MAC-d PDU Size Extended IE to optimise capacity allocation for the related E-DCH Logical Channel and use the indicated format in user plane frame structure for E-DCH channels TS 25.425 [32] and MAC TS 25.321 [41].]
- [FDD If the RADIO LINK RECONFIGURATION PREPARE message includes the E-DCH MAC-d Flow Multiplexing List IE for an E-DCH MAC-d flow the DRNS shall use this information for the related resource allocation operation.]
- [FDD If the RADIO LINK RECONFIGURATION PREPARE message includes the *HARQ Process Allocation For 2ms Scheduled Transmission Grant* IE, the DRNS shall use this information for the related resource allocation operation.]
- [FDD If in the RADIO LINK RECONFIGURATION PREPARE message the E-DCH Grant Type is indicated as being "E-DCH Non-Scheduled Transmission Grant" for an E-DCH MAC-d flow the DRNS shall assume non-scheduled grants being configured for that E-DCH MAC-d flow and shall use the information within the HARQ Process Allocation For 2ms Non-Scheduled Transmission Grant IE, if included, for the related resource allocation operation.]
- [FDD If in the RADIO LINK RECONFIGURATION PREPARE message the E-DCH Grant Type is indicated as being "E-DCH Scheduled Transmission Grant" for an E-DCH MAC-d flow the DRNS shall assume scheduled grants being configured for that E-DCH MAC-d flow.]
- [FDD The DRNS may use the *Traffic Class* IE for a specific E-DCH MAC-d flow to determine the transport bearer characteristics to apply between DRNC and Node B. If *TrCH Source Statistics Descriptor* IE is present with the value "RRC" in the *E-DCH MAC-d Flows Information* IE, then the DRNC should ignore the *Traffic Class* IE.]
- [FDD If the *TNL QoS* IE is included for an E-DCH MAC-d flow and if ALCAP is not used, the *TNL QoS* IE may be used by the DRNS to determine the transport bearer characteristics to apply in the uplink for the related MAC-d flow.]
- [FDD If the RADIO LINK RECONFIGURATION PREPARE message includes the *Bundling Mode Indicator* IE for a E-DCH MAC-d flow in the *E-DCH MAC-d Flow Specific Information* IE in the *E-DCH FDD Information* IE and the *Bundling Mode Indicator* IE is set to "Bundling" and the *E-TTI* IE is set to "2ms", then the DRNS shall use the bundling mode for the E-DCH UL data frames for the related MAC-d flow, otherwise the DRNS shall use the non-bundling mode for the E-DCH UL data frames for the related MAC-d flow.]
- [FDD If the RADIO LINK RECONFIGURATION PREPARE message includes the *E-DCH Maximum Bitrate* IE for an E-DCH, the DRNS shall use this information for the related resource allocation operation, and when applicable, for E-DCH scheduling.]
- [FDD If the RADIO LINK RECONFIGURATION PREPARE message includes the *E-DCH Processing Overload Level* IE, then if the DRNS could not decode the E-DPCCH/E-DPDCH for the last consecutive number of TTIs, indicated in the *E-DCH Processing Overload Level* IE, because of processing issue, the DRNS shall notify the SRNC by initiating the Radio Link Failure procedure.]

- [FDD If the RADIO LINK RECONFIGURATION PREPARE message includes the *E-DCH ReferencePower Offset* IE, then the DRNS may use this value as a default HARQ power offset if it is not able to decode the MAC-e PDU and to determine the value of the actual HARQ power offset.]
- [FDD If the RADIO LINK RECONFIGURATION PREPARE message includes the *E-DCH Power Offset for Scheduling Info* IE, then the DRNS shall use this value as a power offset for the transmission of scheduling information without any MAC-d PDUs.]
- [FDD If the RADIO LINK RECONFIGURATION PREPARE message includes the *E-AGCH Power Offset* IE in the *RL Specific E-DCH Information* IE, then the DRNS may use this value to determine the E-AGCH power. The E-AGCH Power Offset should be applied for any E-AGCH transmission to this UE.]
- [FDD If the RADIO LINK RECONFIGURATION PREPARE message includes the *E-RGCH Power Offset* IE in the *RL Specific E-DCH Information* IE, then the DRNS may use this value to determine the E-RGCH power for the RL. The E-RGCH Power Offset should be applied for any E-RGCH transmission to this UE.]
- [FDD If the RADIO LINK RECONFIGURATION PREPARE message includes the *E-HICH Power Offset* IE in the *RL Specific E-DCH Information* IE, then the DRNS may use this value to determine the E-HICH power for the RL. The E-HICH Power Offset should be applied for any E-HICH transmission to this UE.]
- [FDD If the RADIO LINK RECONFIGURATION PREPARE message includes the *SixteenQAM UL Operation Indicator* IE, the DRNS shall activate/deactivate SixteenQAM UL Operation for the RL in accordance with the *SixteenQAM UL Operation Indicator* IE.]
  - [FDD If SixteenQAM UL Operation is activated, then the DRNS shall base the handling of the Relative Grant signalling on Scheduling Grant Table 2 according to TS 25.321 [41]. If SixteenQAM UL Operation is deactivated, then the DRNS shall base the handling of the Relative Grant signalling on Scheduling Grant Table 1 according to TS 25.321 [41].]

### [FDD – E-DCH Radio Link Handling:]

[FDD – If the RADIO LINK RECONFIGURATION PREPARE message includes the *E-DCH RL Indication* IE in the *RL Information* IE:]

- [FDD The DRNC shall setup the E-DCH resources, as requested or as configured in the UE context, on the Radio Links indicated by the *E-DCH RL Indication* IE, set to "E-DCH", in the *RL Information* IE.]
- [FDD The DRNC may include the *E-AGCH And E-RGCH/E-HICH FDD Scrambling Code* IE and shall include the *E-RGCH/E-HICH Channelisation Code* IE and the corresponding *E-HICH Signature Sequence* IE and the DRNC may include the corresponding *E-RGCH Signature Sequence* IE in the *E-DCH FDD DL Control Channel Information* IE in the RADIO LINK RECONFIGURATION READY message for every RL indicated by the *E-DCH RL Indication* IE, set to "E-DCH", in the *RL Information* IE.]
- [FDD The DRNC shall remove the E-DCH resources, if any, on the Radio Links, that are indicated by the *E*-DCH *RL Indication* IE set to "Non E-DCH", in the *RL Information* IE.]
- [FDD For each RL for which the *E-DCH RL Indication* IE is set to "E-DCH", and which has or can have a common generation of E-RGCH information with another RL (current or future) when the DRNS would contain the E-DCH serving RL, the DRNS shall include the *E-DCH RL Set ID* IE in the RADIO LINK RECONFIGURATION READY message. The value of the *E-DCH RL Set ID* IE shall allow the SRNC to identify the E-DCH RLs that have or can have a common generation of E-RGCH information.]

### [FDD – Serving E-DCH Radio Link Change:]

[FDD – If the RADIO LINK RECONFIGURATION PREPARE message includes the *Serving E-DCH RL ID* IE, this indicates the new Serving E-DCH Radio Link:]

- [FDD If the old Serving E-DCH RL is within this DRNS, the DRNS shall de-allocate the E-AGCH resources of the old Serving E-DCH Radio Link at the activation of the new configuration.]
- [FDD If the new Serving E-DCH RL is within this DRNS:]
  - [FDD the DRNS shall allocate a primary E-RNTI identifier or a secondary E-RNTI identifier or both for the new Serving E-DCH Radio Link and include these E-RNTI identifiers along with the channelisation code of the corresponding E-AGCH in the *E-DCH FDD DL Control Channel Information* IE in the *RL*

*Information Response* IE for the indicated RL in the RADIO LINK RECONFIGURATION READY message.]

- [FDD The DRNS may include the *Serving Grant Value* IE and *Primary/Secondary Grant Selector* IE in the RADIO LINK RECONFIGURATION READY message for the initial grant for the new serving E-DCH RL.]
- [FDD If the E-DCH HARQ process allocation for 2ms TTI for scheduled and/or non-scheduled transmission shall be changed, the DRNS shall allocate resources according to the new/changed configuration and include the new/changed configuration in the *E-DCH FDD Information Response* IE in the RADIO LINK RECONFIGURATION READY message.]
- [FDD If a serving cell change is performed the RADIO LINK RECONFIGURATION READY message may contain invalid data (see 9.2.2.4C).]
- [FDD The DRNS may include the *Default Serving Grant in DTX Cycle 2* IE in the RADIO LINK RECONFIGURATION READY message for the new serving E-DCH RL.]
- [FDD The DRNS may include the E-RGCH/E-HICH Channelisation Code IE and/or the E-HICH Signature Sequence IE and/or the E-RGCH Signature Sequence IE or may alternatively include the E-RGCH Release Indicator IE in the E-DCH FDD DL Control Channel Information IE in the RADIO LINK RECONFIGURATION READY message for every E-DCH Radio Links in the DRNS.]
- [FDD If the DRNS has no valid data for the *E-RGCH/E-HICH Channelisation Code* IE in the *E-DCH FDD DL Control Channel Information* IE in the RADIO LINK RECONFIGURATION READY message, then it shall insert the *E-RGCH and E-HICH Channelisation Code Validity Indicator* IE in the *E-DCH FDD DL Control Channel Information* IE, to indicate that the *E-RGCH/E-HICH Channelisation Code* IE contains invalid data.]

## [FDD – E-DCH Modification:]

[FDD – If the RADIO LINK RECONFIGURATION PREPARE message includes the *E-DCH FDD Information To Modify* IE, then:]

- [FDD If the *E-DCH FDD Information To Modify* IE contains a *E-DCH MAC-d Flow Specific Information* IE which includes the *Allocation/Retention Priority* IE, the DRNS shall apply the new Allocation/Retention Priority to this E-DCH in the new configuration according to Annex A.]
- [FDD If the RADIO LINK RECONFIGURATION PREPARE message includes the *E-DCH MAC-d PDU Size Format* IE in the *E-DCH FDD Information To Modify* IE, then the DRNS shall use the indicated format in user plane frame structure for E-DCH channels TS 25.425 [32] and MAC TS 25.321 [41].]
- [FDD If the *TNL QoS* IE is included for an E-DCH MAC-d flow and if ALCAP is not used, the *TNL QoS* IE may be used by the DRNS to determine the transport bearer characteristics to apply in the uplink for the related MAC-d flow.]
- [FDD –If the *Traffic Class* IE is included for an E-DCH MAC-d flow then the DRNS may use the *Traffic Class* IE for a specific E-DCH MAC-d flow to determine the transport bearer characteristics to apply between DRNC and Node B. The DRNC should ignore the *Traffic Class* IE if the *TrCH Source Statistics Descriptor* IE for this specific E-DCH MAC-d flow indicates the value "RRC".]
- [FDD If the RADIO LINK RECONFIGURATION PREPARE message includes the *Data Description Indicator* IE, the DRNC shall use the DDI values indicated in the *Data Description Indicator* IE in the new configuration.]
- [FDD If the RADIO LINK RECONFIGURATION PREPARE message includes the *MAC-es Guaranteed Bit Rate* IE in the *E-DCH FDD Information To Modify* IE, the DRNS shall use this information to optimise MAC-e scheduling decisions.]
- [FDD If the RADIO LINK RECONFIGURATION PREPARE message includes the *Maximum MAC-d PDU Size Extended* IE for a E-DCH Logical Channel in the *E-DCH MAC-d Flows Information* IE in the *E-DCH FDD Information To Modify* IE, then the DRNS shall ignore the *MAC-d PDU Size* IE in the *MAC-d PDU Size List* IE and use *Maximum MAC-d PDU Size Extended* IE to optimise capacity allocation for the related E-DCH Logical Channel.]

- [FDD If the RADIO LINK RECONFIGURATION PREPARE message includes the *Maximum Number of Retransmissions for E-DCH* IE for an E-DCH MAC-d flow in the *E-DCH FDD Information To Modify* IE, then the DRNS shall use this information to report if the maximum number of retransmissions has been exceeded.]
- [FDD If the RADIO LINK RECONFIGURATION PREPARE message includes the *E-DCH HARQ Power Offset FDD* IE in the *E-DCH FDD Information To Modify* IE for an E-DCH MAC-d flow the DRNS shall use this information for calculating the unquantised gain factor for an E-TFC ( $\beta_{ed,j,uq}$ ) as defined in TS 25.214 [10].]
- [FDD If the RADIO LINK RECONFIGURATION PREPARE message includes the *E-DCH MAC-d Flow Multiplexing List* IE for an E-DCH MAC-d flow the DRNS shall use this information for the related resource allocation operation.]
- [FDD If the RADIO LINK RECONFIGURATION PREPARE message includes the E-DCH Grant Type and it is indicated as being "E-DCH Non-Scheduled Transmission Grant" for an E-DCH MAC-d flow the DRNS shall assume non-scheduled grants being configured for that E-DCH MAC-d flow and shall use the information within the HARQ Process Allocation For 2ms Non-Scheduled Transmission Grant IE, if included, for the related resource allocation operation.]
- [FDD If the RADIO LINK RECONFIGURATION PREPARE message includes the E-DCH Grant Type and it is indicated as being "E-DCH Scheduled Transmission Grant" for an E-DCH MAC-d flow the DRNS shall assume scheduled grants being configured for that E-DCH MAC-d flow.]
- [FDD If the RADIO LINK RECONFIGURATION PREPARE message includes the *E-DCH Logical Channel To Add* or *E-DCH Logical Channel To Delete* IEs, the DRNS shall use this information to add/delete the indicated logical channels. When an logical channel is deleted, all its associated configuration data shall also removed.]
- [FDD If the RADIO LINK RECONFIGURATION PREPARE message includes the *E-DCH Logical Channel To Modify* IE, the DRNS shall use this information to modify the indicated logical channels:]
  - [FDD If the *E-DCH Logical Channel To Modify* IE includes *Scheduling Priority Indicator* IE, the DRNS shall apply the values in the new configuration.]
  - [FDD If the *E-DCH Logical Channel To Modify* IE includes *Scheduling Information* IE, the DRNS shall apply the values in the new configuration.]
  - [FDD If the *E-DCH Logical Channel To Modify* IE includes the *Maximum MAC-d PDU Size Extended* IE, the DRNS shall apply the value in the new configuration.]
- [FDD If the RADIO LINK RECONFIGURATION PREPARE message includes the *Bundling Mode Indicator* IE for an E-DCH MAC-d flow in the *E-DCH MAC-d Flow Specific Information* IE in the *E-DCH FDD Information To Modify* IE and the *Bundling Mode Indicator* IE is set to "Bundling" and the *E-TTI* IE is set to "2ms", then the DRNS shall use the bundling mode for the E-DCH UL data frames for the related MAC-d flow, otherwise the DRNS shall use the non-bundling mode for the E-DCH UL data frames for the related MAC-d flow.]
- [FDD If the RADIO LINK RECONFIGURATION PREPARE message includes the *HARQ Process Allocation For 2ms Scheduled Transmission Grant* IE, the DRNS shall use this information for the related resource allocation operation.]
- [FDD If the E-DCH serving RL is in this DRNS, the DRNS may choose to change the E-DCH HARQ process allocation for 2ms TTI for scheduled and/or non-scheduled transmission. In this case the DRNS shall allocate resources according to the new/changed configuration and include the new/changed configuration in the *E-DCH FDD Information Response* IE in the RADIO LINK RECONFIGURATION READY message.]
- [FDD If the RADIO LINK RECONFIGURATION PREPARE message includes the *E-DCH Maximum Bitrate* IE for an E-DCH, the DRNS shall use this information for the related resource allocation operation, and when applicable, for E-DCH scheduling.]
- [FDD If the RADIO LINK RECONFIGURATION PREPARE message includes the *E-DCH Processing Overload Level* IE, then if the DRNS could not decode the E-DPCCH/E-DPDCH for the last consecutive number of TTIs, indicated in the *E-DCH Processing Overload Level* IE, because of processing issue, the DRNS shall notify the SRNC by initiating the Radio Link Failure procedure.]

- [FDD If the RADIO LINK RECONFIGURATION PREPARE message includes the *E-DCH ReferencePower Offset* IE, then the DRNS may use this value as a default HARQ power offset if it is not able to decode the MAC-e PDU and to determine the value of the actual HARQ power offset.]
- [FDD If the RADIO LINK RECONFIGURATION PREPARE message includes the *E-DCH Power Offset for Scheduling Info* IE, then the DRNS shall use this value as a power offset for the transmission of scheduling information without any MAC-d PDUs.]
- [FDD If the RADIO LINK RECONFIGURATION PREPARE message includes the *E-AGCH Power Offset* IE in the *RL Specific E-DCH Information* IE, then the DRNS may use this value to determine the E-AGCH power. The E-AGCH Power Offset should be applied for any E-AGCH transmission to this UE.]
- [FDD If the RADIO LINK RECONFIGURATION PREPARE message includes the *E-RGCH Power Offset* IE in the *RL Specific E-DCH Information* IE, then the DRNS may use this value to determine the E-RGCH power for the RL. The E-RGCH Power Offset should be applied for any E-RGCH transmission to this UE.]
- [FDD If the RADIO LINK RECONFIGURATION PREPARE message includes the *E-HICH Power Offset* IE in the *RL Specific E-DCH Information* IE, then the DRNS may use this value to determine the E-HICH power for the RL. The E-HICH Power Offset should be applied for any E-HICH transmission to this UE.]
- [FDD If the RADIO LINK RECONFIGURATION PREPARE message includes the *MAC-e Reset Indicator* IE in the *E-DCH FDD Information To Modify* IE, then the DRNS shall use this value to determine whether MAC-e(or MAC-i) Reset is performed in the UE for sending the HARQ Failure Indication.]
- [FDD If the RADIO LINK RECONFIGURATION PREPARE message includes the *SixteenQAM UL Operation Indicator* IE in the *E-DCH FDD Information To Modify* IE, the DRNS shall activate/deactivate SixteenQAM UL Operation for the RL in accordance with the *SixteenQAM UL Operation Indicator* IE]
  - [FDD If SixteenQAM UL Operation is activated, then the DRNS shall base the handling of the Relative Grant signalling on Scheduling Grant Table 2 according to TS 25.321 [41]. If SixteenQAM UL Operation is deactivated, then the DRNS shall base the handling of the Relative Grant signalling on Scheduling Grant Table 1 according to TS 25.321 [41].]
- [FDD If the RADIO LINK RECONFIGURATION PREPARE message includes the *E-DCH DL Control Channel Grant Information* IE in the *E-DCH FDD Information To Modify* IE, the DRNS may modify E-AGCH Channelisation Code, E-RGCH/E-HICH Channelisation Code, E-RGCH Signature Sequence and/or E-HICH Signature Sequence for the E-DCH RL indicated by the *E-DCH RL ID* IE. The DRNC shall then report the modified configuration which is used in the new configuration specified in the *E-DCH FDD DL Control Channel Information* IE for each E-DCH RL in the RADIO LINK RECONFIGURATION READY message.]

## [FDD – E-DCH MAC-d Flow Addition:]

[FDD – If the RADIO LINK RECONFIGURATION PREPARE message includes an *E-DCH MAC-d Flows To Add* IE, then the DRNS shall use this information to add the indicated E-DCH MAC-d flows.]

[FDD – If the RADIO LINK RECONFIGURATION PREPARE message includes the *Maximum MAC-d PDU Size Extended* IE for a E-DCH Logical Channel in the *E-DCH MAC-d Flows Information* IE in the *E-DCH MAC-d Flows To Add* IE, then the DRNS shall ignore the *MAC-d PDU Size* IE in the *MAC-d PDU Size List* IE and use *Maximum MAC-d PDU Size Extended* IE to optimise capacity allocation for the related E-DCH Logical Channel.]

[FDD – If the RADIO LINK RECONFIGURATION PREPARE message includes the *E-DCH MAC-d Flows To Add* IE, then:]

- [FDD The DRNS may use the *Traffic Class* IE for a specific E-DCH MAC-d flow to determine the transport bearer characteristics to apply between DRNC and Node B. If *TrCH Source Statistics Descriptor* IE is present with the value "RRC" in the *E-DCH MAC-d Flows Information* IE, then the DRNC should ignore the *Traffic Class* IE.]
- [FDD If the RADIO LINK RECONFIGURATION PREPARE message includes the *MAC-es Guaranteed Bit Rate* IE in the *E-DCH Logical Channel Information IE* in the *E-DCH MAC-d Flows To Add* IE, the DRNS shall use this information to optimise MAC-e scheduling decisions.]
- [FDD If the RADIO LINK RECONFIGURATION PREPARE message includes the UE Aggregate Maximum Bit Rate Enforcement Indicator IE in the E-DCH Logical Channel Information IE in the E-DCH MAC-d Flows

*To Add* IE, the DRNS shall, if supported, consider the data of the related E-DCH Logical Channel for UE Aggregate Maximum Bit Rate Enforcement.]

## [FDD – E-DCH MAC-d Flow Deletion:]

[FDD – If the RADIO LINK RECONFIGURATION PREPARE message includes an E-DCH *MAC-d Flows To Delete* IEs, then the DRNS shall use this information to delete the indicated E-DCH MAC-d flows. When an E-DCH MAC-d flow is deleted, all its associated configuration shall also be removed.]

[FDD – If the RADIO LINK RECONFIGURATION PREPARE message includes an *E-DCH MAC-d Flows To Delete* IE requesting the deletion of all remaining E-DCH MAC-d flows for the UE Context, then the DRNC shall delete the E-DCH configuration from the UE Context and release the E-DCH resources.]

## [FDD – Additional E-DCH Setup:]

[FDD – If the Additional E-DCH Cell Information RL Reconf Prep IE is present in the RADIO LINK RECONFIGURATION PREPARE message and the choice of Setup, Configuration Change or Removal of E-DCH On Secondary UL Frequency is "Setup", then the Additional E-DCH Cell Information Setup IE defines the new configuration and then:]

- [FDD If the *C-ID* IE is included in the *Additional E-DCH RL Specific Information To Setup* IE in the *Additional E-DCH FDD Setup Information* IE the *C-ID* IE indicates the cell in which the additional E-DCH shall be setup]
  - [FDD The DRNS shall setup the Additional E-DCH on the secondary uplink frequency and setup the requested Additional E-DCH resources on the Radio Links and in the cells indicated by the *E-DCH Additional RL ID* IE and the *C-ID* IE in the *Additional E-DCH RL Specific Information To Setup* IE in the *Additional E-DCH FDD Setup Information* IE.]
- [FDD If the *C-ID* IE is not included in the *Additional E-DCH RL Specific Information To Setup* IE in the *Additional E-DCH FDD Setup Information* IE the *E-DCH Additional RL ID* IE indicates the existing RL on which the Additional E-DCH shall be setup.]
  - [FDD The DRNS shall setup the additional E-DCH on the Radio Links indicated by the *E-DCH Additional RL ID* IE in the *Additional E-DCH RL Specific Information To Setup* IE in the *Additional E-DCH FDD Setup Information* IE]
- [FDD The DRNS shall use for the non cell specific Radio Link related parameters and non cell specific E-DPCH, UL DPCH, E-DCH and F-DPCH parameters the same values as for the corresponding cell of the Primary uplink frequency.]
- [FDD If the *UL SIR Target* IE in the *UL DPCH Information* IE in the *Additional E-DCH FDD Setup Information* IE in the *Additional E-DCH Cell Information Setup* IE and/or the *DL Power Balancing Information* IE and/or the *Minimum Reduced E-DPDCH Gain Factor* IE in the *Multicell E-DCH Information* IE in the *Additional E-DCH FDD Setup Information* IE are present, the DRNS shall use the information in the same same way as for the information used on Primary uplink frequency.]
- [FDD If the Secondary UL Frequency Activation State IE is present in the Multicell E-DCH Information IE in the Additional E-DCH FDD Setup Information IE, the DRNS shall use the information as initial activation state of the Radio Links on the secondary uplink frequency.]
- [FDD If the Initial DL Tx Power IE, the Primary CPICH Ec/No IE, the E-AGCH Power Offset IE, the E-RGCH Power Offset IE and/or the E-HICH Power Offset IE is included in the Additional E-DCH RL Specific Information To Setup IE in the Additional E-DCH FDD Setup Information IE in the Additional E-DCH Cell Information Setup IE, the DRNS shall use the information in the same way as for the information used on Primary uplink frequency.]
- [FDD If the *Enhanced Primary CPICH Ec/No* IE is included in the *Multicell E-DCH RL Specific Information* IE in the *Additional E-DCH Secondary RL Specific Information To Setup* IE in the *Additional E-DCH FDD Setup Information* IE in the *Additional E-DCH Cell Information Setup* IE, the DRNS shall use the information in the same way as for the information used on Primary uplink frequency.]
- [FDD If the F-DPCH Slot Format Support Request IE in the F-DPCH Information IE in the Additional E-DCH FDD Setup Information IE in the Additional E-DCH Cell Information Setup IE is included, the DRNS shall configure the concerned UE Context for F-DPCH Slot Format operation according to TS 25.211 [8] and

include the *F-DPCH Slot Format* IE in the *Additional E-DCH FDD Information Response* IE in the *Additional E-DCH Cell Information Response RL Reconf* IE in the RADIO RECONFIGURATION READY message. If the *Multicell E-DCH Information* IE in the *Additional E-DCH FDD Setup Information* IE includes the *F-DPCH Slot Format* IE, the DRNS may use the *F-DPCH Slot Format* IE to determine the F-DPCH slot format.]

- [FDD If the HARQ Process Allocation For 2ms Scheduled Transmission Grant IE, the E-DCH Maximum Bitrate IE, the E-DCH Minimum Set E-TFCI IE and/or the E-DCH Processing Overload Level IE are present in the Additional E-DCH FDD Information IE in the Additional E-DCH FDD Setup Information IE in the Additional E-DCH Cell Information Setup IE, the DRNS shall use the information in the same way as for the information used on Primary uplink frequency.]
- [FDD If activation of power balancing for the Additional E-DCH RL by the RADIO LINK RECONFIGURATION PREPARE message is supported by the DRNS, the DRNS shall include the *DL Power Balancing Activation Indicator* IE in the *Additional E-DCH FDD Information Response* IE in the *Additional E-DCH Cell Information Response RLReconf* IE in the RADIO LINK RECONFIGURATION READY message.]
- [FDD For each Additional E-DCH RL not having a common generation of the TPC commands in the DL with another Additional E-DCH RL, the DRNS shall set the *RL Set ID* IE included in the *Additional E-DCH FDD Information Response* IE in the RADIO LINK RECONFIGURATION READY message to a value that uniquely identifies the RL as a RL Set within the UE Context. The generation of E-HICH related information for Additional E-DCH RLs in different RL Sets shall not be common.]
- [FDD For all Additional E-DCH RLs having a common generation of the TPC commands in the DL with another Additional E-DCH RL, the DRNS shall assign to each Additional E-DCH RL the same value for the *RL Set ID* IE included in the *Additional E-DCH FDD Information Response* IE in the RADIO LINK RECONFIGURATION READY message. This value shall uniquely identify these Additional E-DCH RLs as members of the same RL Set within the UE Context. The generation of E-HICH information for all Additional E-DCH RLs in a RL Set shall be common.]
- [FDD For each Additional E-DCH RL which has or can have a common generation of E-RGCH information with another Additional E-DCH RL (current or future) when the DRNS would contain the Additional E-DCH serving RL, the DRNS shall set a same value to the *E-DCH RL Set ID* IE for the Additional E-DCH RL in the *Additional E-DCH FDD Information Response* IE in the *AdditionalE-DCH Cell Information Response RLReconf* IE in the RADIO LINK RECONFIGURATION READY message]
- [FDD For every additional E-DCH RL indicated in the *Additional E-DCH RL Specific Information To Setup* IE in the *Additional E-DCH FDD Setup Information* IE the DRNS may include the *E-AGCH And E-RGCH/E-HICH FDD Scrambling Code* IE and shall include the *E-RGCH/E-HICH Channelisation Code* IE and the corresponding *E-HICH Signature Sequence* IE and the DRNS may include the corresponding *E-RGCH Signature Sequence* IE for each Additional E-DCH RL in the *E-DCH FDD DL Control Channel Information* IE in the *Additional E-DCH FDD Information Response* IE in the *AdditionalE-DCH Cell Information Response RLReconf* IE in the RADIO LINK RECONFIGURATION READY message and if DRNS has no valid data for the *E-RGCH/E-HICH Channelisation Code* IE, then it shall insert the *E-RGCH and E-HICH Channelisation Code Validity Indicator* IE to indicate that the *E-RGCH/E-HICH Channelisation Code* IE contains invalid data.]
- [FDD If the Additional Serving E-DCH Radio Link is configured in the DRNS, then:]
  - [FDD The DRNS shall allocate a primary E-RNTI identifier or a secondary E-RNTI identifier or both for the corresponding RL and include these E-RNTI identifiers and the channelisation code of the corresponding E-AGCH in the *E-DCH FDD DL Control Channel Information* IE in the *Additional E-DCH FDD Information Response* IE in the *Additional E-DCH Cell Information Response RLReconf* IE in the RADIO LINK RECONFIGURATION READY message.]
  - [FDD The DRNS may include in the *E-DCH FDD DL Control Channel Information* IE in the *Additional E-DCH FDD Information Response* IE in the *Additional E-DCH Cell Information Response RLReconf* IE in the RADIO LINK RECONFIGURATION READY message the *Serving Grant Value* IE and *Primary/Secondary Grant Selector* IE for the initial grant for the Additional serving E-DCH RL and may include the *Default Serving Grant in DTX Cycle 2* IE.]
  - [FDD If the E-DCH HARQ process allocation for 2ms TTI for scheduled transmission shall be changed, the DRNS shall allocate resources according to the new/changed configuration and include the new/changed configuration in the HARQ Process Allocation For 2ms Scheduled Transmission Grant IE in the Additional E-DCH FDD Information Response IE in the Additional E-DCH Cell Information Response IE in the RADIO LINK RECONFIGURATION READY message.]

- [FDD If Primary CPICH is not to be used as a Phase Reference for this Radio Link on the secondary UL frequency, the DRNS shall include the *Primary CPICH Usage For Channel Estimation* IE set to the value "Primary CPICH shall not be used" in the *Additional E-DCH FDD Information Response* IE in the *Additional E-DCH Cell Information Response RLReconf* IE RADIO LINK RECONFIGURATION READY message.]
- [FDD If Secondary CPICH may be used as a Phase Reference for this Radio Link on the secondary UL frequency, the DRNS shall include the *Secondary CPICH Information* IE in the *Additional E-DCH FDD Information Response* IE in the *Additional E-DCH Cell Information Response RLReconf* IE in the RADIO LINK RECONFIGURATION READY message. If the DRNS doesn't include the *Secondary CPICH Information* IE, it shall not include the *Primary CPICH Usage For Channel Estimation* IE set to the value "Primary CPICH shall not be used".]

### [FDD – Additional E-DCH Configuration Change]

[FDD – If the Additional E-DCH Cell Information RL Reconf Prep IE is present in the RADIO LINK RECONFIGURATION PREPARE message and the choice of Setup, Configuration Change or Removal of E-DCH On Secondary UL Frequency is "Configuration Change", then the Additional E-DCH Cell Information Configuration Change IE defines the new configuration and then:]

- [FDD If the *UL Scrambling Code* IE and/or the *UL SIR Target* IE are present in the *UL DPCH Information* IE in the *Additional E-DCH Configuration Change Information* IE and/or id the *Minimum Reduced E-DPDCH Gain Factor* IE is present in the *Multicell E-DCH Information* IE in the *Additional E-DCH Configuration Change Information* IE, the DRNS shall use the information in the same way as for the information that is used on the Primary uplink frequency.]
- [FDD If the RADIO LINK RECONFIGURATION PREPARE message includes the *F-DPCH Information* IE in the *Additional E-DCH Configuration Change Information* IE, then:]
  - [FDD The DRNS shall configure the concerned UE Context to use F-DPCH in the downlink in the new configuration.]
  - [FDD If the *F-DPCH Information* IE includes the *F-DPCH Slot Format Support Request* IE, then the DRNS shall configure the concerned UE Context for F-DPCH Slot Format operation according to TS 25.211
     [8] and include the *F-DPCH Slot Format* IE in the *Additional E-DCH FDD Information Response* IE for new RLs on the secondary UL frequency or in the *Additional Modified E-DCH FDD Information Response* IE for modified RLs in the RADIO LINK RECONFIGURATION READY message. If the *Multicell E-DCH Information* IE in the *Additional E-DCH Configuration Change Information* IE includes the *F-DPCH Slot Format* IE to determine the F-DPCH slot format.]

#### [FDD – Additional E-DCH RL Addition:]

[FDD – If the Additional E-DCH RL Specific Information To Add IE is present in the Additional E-DCH Configuration Change Information IE, then:]

- [FDD The DRNS shall setup the E-DCH resources, as requested or as configured in the UE context, on the Radio Links indicated by the *E-DCH Additional RL ID* IE. Non cell specific Radio Link related parameters and non cell specific E-DPCH, UL DPCH, E-DCH and F-DPCH parameters shall take the same values as for the corresponding cell of the Primary uplink frequency.]
- [FDD If the E-AGCH Power Offset IE, the E-RGCH Power Offset IE, the E-HICH Power Offset IE is included, the DRNS shall use the information in the same way as for information is used on the Primary uplink frequency.]
- [FDD If the power balancing is active with the Power Balancing Adjustment Type of the UE Context set to "Individual" in the existing Additional E-DCH RL(s) and the RADIO LINK RECONFIGURATION PREPARE message includes the *DL Reference Power* IE in the *Multicell E-DCH RL Specific Information* IE, the DRNS shall activate the power balancing and use the *DL Reference Power* IE for the power balancing procedure in the new Additional RL(s), if activation of power balancing by the RADIO LINK RECONFIGURATION PREPARE message at RL addition on secondary UL frequency is supported, according to subclause 8.3.15. In this case, the DRNS shall include the *DL Power Balancing Activation Indicator* IE in the *Additional E-DCH FDD Information Response* IE in the *Additional E-DCH Cell Information Response RLReconf* IE in the RADIO LINK RECONFIGURATION READY message. If the DRNS starts the DL transmission and the activation of the power balancing at the same CFN, the initial power of the power balancing, i.e. *P<sub>init</sub>* shall be set

to the power level which is calculated based on the following IEs (if received): *Primary CPICH Ec/No* IE or the *Enhanced Primary CPICH Ec/No* IE in the *Multicell E-DCH RL Specific Information* IE or to the power level which is calculated based on the power relative to the Primary CPICH power used by the existing Additional RLs.]

- [FDD For each Additional E-DCH RL not having a common generation of the TPC commands in the DL with another Additional E-DCH RL, the DRNS shall set the *RL Set ID* IE included in the *Additional E-DCH FDD Information Response* IE in the RADIO LINK RECONFIGURATION READY message to a value that uniquely identifies the RL as a RL Set within the UE Context. The generation of E-HICH related information for Additional E-DCH RLs in different RL Sets shall not be common.]
- [FDD For all Additional E-DCH RLs having a common generation of the TPC commands in the DL with another Additional E-DCH RL, the DRNS shall assign to each Additional E-DCH RL the same value for the *RL Set ID* IE included in the *Additional E-DCH FDD Information Response* IE in the RADIO LINK RECONFIGURATION READY message. This value shall uniquely identify these Additional E-DCH RLs as members of the same RL Set within the UE Context. The generation of E-HICH information for all Additional E-DCH RLs in a RL Set shall be common.]
- [FDD For each Additional E-DCH RL which has or can have a common generation of E-RGCH information with another Additional E-DCH RL (current or future) when the DRNS would contain the Additional E-DCH serving RL, the DRNS shall set a same value to the *E-DCH RL Set ID* IE for the Additional E-DCH RL in the Additional E-DCH FDD Information Response IE in the Additional E-DCH Cell Information Response RLReconf IE in the RADIO LINK RECONFIGURATION READY message]
- [FDD For every additional E-DCH RL indicated in the Additional E-DCH RL Specific Information To Add IE, the DRNS may include the E-AGCH And E-RGCH/E-HICH FDD Scrambling Code IE and shall include the E-RGCH/E-HICH Channelisation Code IE and the corresponding E-HICH Signature Sequence IE and the DRNS may include the corresponding E-RGCH Signature Sequence IE in the E-DCH FDD DL Control Channel Information IE in the Additional E-DCH FDD Information Response IE in the Additional E-DCH Cell Information Response RLReconf IE in the RADIO LINK RECONFIGURATION READY message and if DRNS has no valid data for the E-RGCH/E-HICH Channelisation Code IE, then it shall insert the E-RGCH/E-HICH Channelisation Code Validity Indicator IE to indicate that the E-RGCH/E-HICH Channelisation Code IE contains invalid data.]
- [FDD If the *Primary CPICH Ec/No* IE or the *Primary CPICH Ec/No* IE and the *Enhanced Primary CPICH Ec/No* IE in the *Multicell E-DCH RL Specific Information* IE measured by the UE are included for a RL in the RADIO LINK RECONFIGURATION PREPARE message, the DRNS shall use this in the calculation of the Initial DL TX Power for this additional RL. If the *Primary CPICH Ec/No* IE is not present, the DRNS shall set the Initial DL TX Power based on the power relative to the Primary CPICH power used by the existing RLs.]

#### [FDD – Additional E-DCH RL Modification:]

[FDD – If the Additional E-DCH RL Specific Information To Modify IE is present in the Additional E-DCH Configuration Change Information IE, then the RL indicated by the E-DCH Additional RL ID IE indicates the RL on which E-DCH resources shall be modified:]

- [FDD If the E-AGCH Power Offset IE, the E-RGCH Power Offset IE, the E-HICH Power Offset IE, and/or the E-DCH DL Control Channel Grant IE in the Multicell E-DCH RL Specific Information IE is included, the DRNS shall use the information in the same way as for the information used on the Primary uplink frequency.]
- [FDD If the *DL Reference Power* IEs is included in the *Multicell E-DCH RL Specific Information* IE and power balancing is active, DRNS shall apply DL power Control in the same way as defined for the Primary uplink frequency.]
- [FDD If updating of power balancing parameters by the RADIO LINK RECONFIGURATION PREPARE message is supported by the DRNS, the DRNS shall include the *DL Power Balancing Updated Indicator* IE in the *Additional Modified E-DCH FDD Information Response* IE in the *Additional E-DCH Cell Information Response RLReconf* IE for each affected RL in the RADIO LINK RECONFIGURATION READY message.]

- [FDD If the Phase Reference Update Indicator IE is included in the Multicell E-DCH RL Specific Information IE, DRNS shall modify the channel estimation information according to TS 25.214 [10] subclause 4.3.2.1 and set the value(s) in Primary CPICH Usage For Channel Estimation IE and/or Secondary CPICH Information Change IE in the Additional Modified E-DCH FDD Information Response IE in the Additional E-DCH Cell Information Response RLReconf IE in the RADIO LINK RECONFIGURATION READY message accordingly.]
- [FDD If the RADIO LINK RECONFIGURATION READY message includes the *Primary CPICH Usage For Channel Estimation* IE and/or the *Secondary CPICH Information Change* IE in the *Additional Modified E-DCH FDD Information Response* IE in the *Additional E-DCH Cell Information Response RLReconf* IE, the DRNS shall avoid the new configuration in which neither the Primary CPICH nor the Secondary CPICH is used as a Phase Reference for this Radio Link.]

#### [FDD – Additional E-DCH Modification:]

[FDD – If the Additional E-DCH FDD Information To Modify IE is present in the Additional E-DCH Configuration Change Information IE, then:]

- [FDD If the HARQ Process Allocation For 2ms Scheduled Transmission Grant IE, the E-DCH Minimum Set E-TFCI IE and/or the E-DCH Maximum Bitrate IE is included, the DRNS shall use this information for the related resource allocation operation.]
- [FDD If the *E-DCH Processing Overload Level* IE is included, then if the DRNS could not decode the E-DPCCH/E-DPDCH for the last consecutive number of TTIs, indicated in the *E-DCH Processing Overload Level* IE, because of processing issue, the DRNS shall notify the RNC by initiating the Radio Link Failure procedure.]
- [FDD If the DL TX power upper or lower limit has been re-configured for the secondary UL frequency, the DRNS shall include the new value(s) in the *Maximum DL TX Power* IE and *Minimum DL TX Power* IE in the *Additional Modified E-DCH FDD Information Response* IE in the *Additional E-DCH Cell Information Response RLReconf* IE in the RADIO LINK RECONFIGURATION READY message.]
- [FDD The DRNS decides the maximum and minimum SIR for the uplink of the Radio Link(s), and the DRNS shall include in the RADIO LINK RECONFIGURATION READY message the *Maximum Uplink SIR* IE and *Minimum Uplink SIR* IE in the *Additional Modified E-DCH FDD Information Response* IE in the *Additional E-DCH Cell Information Response RLReconf* IE for each Radio Link when these values are changed.]
- [FDD If the Additional E-DCH serving RL is in this DRNS, the DRNS may choose to change the E-DCH HARQ process allocation for 2ms TTI for scheduled transmission. In this case the DRNS shall allocate resources according to the new/changed configuration and include the new/changed configuration in the HARQ Process Allocation For 2ms Scheduled Transmission Grant IE in the Additional Modified E-DCH FDD Information Response IE in the RADIO LINK RECONFIGURATION READY message.]

#### [FDD – Additional E-DCH Removal]

[FDD – If the *Additional E-DCH Cell Information RL Reconf Prep* IE is present in the RADIO LINK RECONFIGURATION PREPARE message and the choice of *Setup, Configuration Change or Removal of E-DCH On Secondary UL Frequency* is "Removal", then the additional E-DCH on the secondary uplink frequency shall be removed.]

#### [1.28Mcps TDD – Uplink Synchronisation Parameters LCR:]

[1.28Mcps TDD –If the *Uplink Synchronisation Parameters LCR* IE is present, the DRNC shall use the indicated values of *Uplink synchronisation stepsize* IE and *Uplink synchronisation frequency* IE when evaluating the timing of the UL synchronisation.]

## [1.28Mcps TDD – Shared physical channels Synchronisation Detection:]

[1.28Mcps TDD – If HS-PDSCH and E-PUCH are configured but no DPCH is configured for the UE, then the DRNS shall include the *Out-of-sync Detection Window* IE in the *HS-DSCH TDD Information Response* IE in the RADIO LINK RECONFIGURATION READY message.]

## [1.28Mcps TDD – Uplink Timing Advance Control LCR:]

[1.28Mcps TDD – The DRNC shall include the *Uplink Timing Advance Control LCR* IE in the RADIO LINK RECONFIGURATION READY message, if the Uplink Timing Advance Control parameters have been changed.]

## [1.28Mcps TDD – PowerControl GAP:]

[1.28Mcps TDD – If applied in the DRNS, the DRNC may include the *PowerControl GAP* IE in the RADIO LINK RECONFIGURATION READY message.]

## [1.28Mcps TDD – E-UTRAN Inter-RAT measurement:]

[1.28Mcps TDD – If the RADIO LINK RECONFIGURATION PREPARE message includes the *Need for Idle Interval* IE set to "TRUE", if supported, the DRNC shall include the *Idle Interval Information* IE in the RADIO LINK RECONFIGURATION READY message. If the *Need for Idle Interval* IE is set to "FALSE", the DRNC shall delete the configuration related to E-UTRAN Inter-RAT measurement ]

# [1.28Mcps TDD – RNTI Allocation Indicator:]

[1.28Mcps TDD – If the RADIO LINK RECONFIGURATION PREPARE message includes the *RNTI Allocation Indicator* IE, if supported, the DRNS may allocate an E-RNTI and/or an H-RNTI for UE to use in CELL\_FACH state.]

## [1.28Mcps TDD – Inter-frequency/ Inter-RAT measurement:]

[1.28Mcps TDD – If the RADIO LINK RECONFIGURATION PREPARE message includes the *DCH Measurement Type indicator* IE, if supported, the DRNS shall include the *Measurement purpose* IE and the *Measurement occasion pattern sequence parameters* IE in the *DCH Measurement Occasion Information* IE in the RADIO LINK RECONFIGURATION READY message to configure the measurement occasion pattern(s) indicated by the *DCH Measurement Type indicator* IE.]

## [TDD – DSCH RNTI Addition/Deletion:]

[TDD – If the RADIO LINK RECONFIGURATION PREPARE message includes the *PDSCH RL ID* IE, then the DRNS shall use it as the new RL identifier for PDSCH and PUSCH.]

- [TDD If the indicated PDSCH RL ID is in the DRNS and there was no DSCH-RNTI allocated to the UE Context, the DRNC shall allocate a DSCH-RNTI to the UE Context and include the *DSCH-RNTI* IE in the RADIO LINK RECONFIGURATION READY message.]
- [TDD If the indicated PDSCH RL ID is in the DRNS and there was a DSCH-RNTI allocated to the UE Context, the DRNC shall allocate a new DSCH-RNTI to the UE Context, release the old DSCH-RNTI and include the *DSCH-RNTI* IE in the RADIO LINK RECONFIGURATION READY message.]
- [TDD If the indicated PDSCH RL ID is not in the DRNS and there was a DSCH-RNTI allocated to the UE Context, the DRNC shall release this DSCH-RNTI.]

[TDD – If the RADIO LINK RECONFIGURATION PREPARE message includes a *DSCHs To Delete* IE and/or a *USCHs To Delete* IE which results in the deletion of all DSCH and USCH resources for the UE Context, then the DRNC shall release the DSCH-RNTI allocated to the UE Context, if there was one.]

#### [FDD – Phase Reference Handling:]

[FDD – If Primary CPICH usage for channel estimation information has been reconfigured, the DRNC shall include the *Primary CPICH Usage For Channel Estimation* IE in the RADIO LINK RECONFIGURATION READY message.]

[FDD – If Secondary CPICH information for channel estimation has been reconfigured, the DRNC shall include the *Secondary CPICH Information Change* IE in the RADIO LINK RECONFIGURATION READY message.]

[FDD – If the RADIO LINK RECONFIGURATION PREPARE message includes *Phase Reference Update Indicator* IE, DRNC shall modify the channel estimation information according to TS 25.214 [10] subclause 4.3.2.1 and set the value(s) in *Primary CPICH Usage For Channel Estimation* IE and/or *Secondary CPICH Information Change* IE in the RADIO LINK RECONFIGURATION READY message accordingly.]

[FDD – If the RADIO LINK RECONFIGURATION READY message includes the *Primary CPICH Usage For Channel Estimation* IE and/or the *Secondary CPICH Information Change* IE, the DRNC shall avoid the new

configuration in which neither the Primary CPICH nor the Secondary CPICH is used as a Phase Reference for this Radio Link.]

# [FDD – Fast Reconfiguration:]

[FDD – If the RADIO LINK RECONFIGURATION PREPARE message includes the *Fast Reconfiguration Mode* IE, the DRNS shall, if supported, and if it is possible to base the synchronization of the reconfiguration on the detection of the change in the uplink scrambling code for this reconfiguration, include the *Fast ReconfigurationPermission* IE in the RADIO LINK RECONFIGURATION READY message.]

# [TDD – Intra- DRNS Serving E-DCH Radio Link Change:]

TDD- If the RADIO LINK RECONFIGURATION PREPARE message includes the *E-DCH Serving RL* IE, this indicates the new Serving E-DCH Radio Link:]

- [TDD In the new configuration the DRNS shall de-allocate the E-DCH resources of the old Serving E-DCH Radio Link and allocate the E-DCH resources for the new Serving E-DCH Radio Link.]
- [3.84Mcps TDD The DRNS shall allocate E-AGCH parameters corresponding to the E-DCH and include the *E-AGCH Specific Information Response* IE in the *E-DCH TDD Information Response* IE in the RADIO LINK RECONFIGURATION READY message.]
- [1.28Mcps TDD The DRNS shall allocate E-AGCH parameters and E-HICH parameters corresponding to the E-DCH and include the *E-AGCH Specific Information Response* IE and the *E-HICH Specific Information Response* IE in the *E-DCH Information Response* 1.28Mcps IE in the RADIO LINK RECONFIGURATION READY message.]
- [7.68Mcps TDD The DRNS shall allocate E-AGCH parameters corresponding to the E-DCH and include the *E-AGCH Specific Information Response 7.68Mcps* IE in the *E-DCH TDD Information Response 7.68Mcps* IE in the RADIO LINK RECONFIGURATION READY message.]
- [TDD If the *TNL QoS* IE is included for a MAC-d flow and if ALCAP is not used, the *TNL QoS* IE may be used by the DRNS to determine the transport bearer characteristics to apply in the uplink for the related MAC-d flow.]

# [TDD – E-PUCH Handling:]

[3.84Mcps TDD and 7.68Mcps TDD – If the RADIO LINK RECONFIGURATION PREPARE message includes an *E-PUCH Information* IE, the DRNS shall apply the parameters to the new configuration.]

[1.28Mcps TDD – If the RADIO LINK RECONFIGURATION PREPARE message includes an *E-PUCH Information LCR* IE, the DRNS shall apply the parameters to the new configuration]

[TDD – If the RADIO LINK RECONFIGURATION PREPARE message includes an *E- TFCS Information* IE, the DRNS shall apply the beta parameters to the new configuration.]

# [3.84Mcps TDD – E-DCH Setup:]

[3.84Mcps TDD – the radio link may be reconfigured to support E-DCH by including the appropriate E-DCH information elements: *E-DCH Serving RL* IE, *E-PUCH Information* IE, *E-TFCS Information TDD* IE, *E-DCH MAC-d Flows to Add* IE and *E-DCH TDD Information* IE.]

# [1.28Mcps TDD – E-DCH Setup:]

[1.28cps TDD – the radio link may be reconfigured to support E-DCH by including the appropriate E-DCH informationelements: *E-DCH Serving RL* IE, *E-PUCH Information LCR* IE, *E-TFCS Information TDD* IE, *E-DCH MAC-d Flows to Add* IE and *E-DCH TDD Information LCR* IE.]

# [7.68Mcps TDD – E-DCH Setup:]

[7.68Mcps TDD – the radio link may be reconfigured to support E-DCH by including the appropriate E-DCH information elements: *E-DCH Serving RL* IE, *E-PUCH Information* IE, *E-TFCS Information TDD* IE, *E-DCH MAC-d Flows to Add* IE and *E-DCH TDD Information* 7.68Mcps IE.]

# [TDD- E-DCH MAC-d Flow Addition/Deletion:]

[TDD- If the RADIO LINK RECONFIGURATION PREPARE message includes any *E-DCH MAC-d Flows To Add* or E-DCH *MAC-d Flows To Delete* IEs, then the DRNS shall use this information to add/delete the indicated E-DCH MAC-d flows. When an E-DCH MAC-d flow is deleted, all its associated configuration data shall also be removed.]

[TDD – If the RADIO LINK RECONFIGURATION PREPARE message includes the *Maximum MAC-d PDU Size Extended* IE for a E-DCH Logical Channel in the *E-DCH MAC-d Flows Information TDD* IE in the *E-DCH MAC-d Flows To Add* IE, then the DRNS shall ignore the *MAC-d PDU Size* IE in the *MAC-d PDU Size List* IE and use *Maximum MAC-d PDU Size Extended* IE to optimise capacity allocation for the related E-DCH Logical Channel.]

[TDD- If the RADIO LINK RECONFIGURATION PREPARE message includes an *E-DCH MAC-d Flows To Delete* IE requesting the deletion of all remaining E-DCH MAC-d flows for the UE Context, then the DRNS shall delete the E-DCH configuration from the UE Context and release the E-DCH resources.]

[TDD- If the RADIO LINK RECONFIGURATION PREPARE message includes the *E-DCH MAC-d Flows To Add* IE, then:]

- [TDD- If the RADIO LINK RECONFIGURATION PREPARE message includes the MAC-es Guaranteed Bit Rate IE in the E-DCH MAC-d Flows To Add IE, the DRNS shall use this information to optimise MAC-e scheduling decisions.]
- [1.28Mcps TDD If the RADIO LINK RECONFIGURATION PREPARE message includes the MAC-es Maximum Bit Rate LCR IE in the E-DCH Logical Channel Information IE in the E-DCH MAC-d Flows To Add IE, the DRNS shall use this information for the related resource allocation operation, and when applicable, for E-DCH scheduling.]

## [3.84Mcps TDD – E-DCH Non-scheduled allocations:]

[3.84Mcps TDD – The DRNS shall determine any non-scheduled resource to be granted for the radio link, and return this in the *E-DCH Non-scheduled Grant Information TDD* IE in the *E-DCH Information Response* IE in the RADIO LINK RECONFIGURATION READY message.]

#### [1.28Mcps TDD – E-DCH Non-scheduled allocations:]

[1.28Mcps – The DRNS shall determine any non-scheduled resource to be granted for the radio link, and return this in the *E-DCH Non-scheduled Grant Information LCR TDD* IE in the *E-DCH Information Response 1.28Mcps* IE in the RADIO LINK RECONFIGURATION READY message.]

## [7.68Mcps TDD – E-DCH Non-scheduled allocations:]

[7.68Mcps TDD – The DRNS shall determine any non-scheduled resource to be granted for the radio link, and return this in the *E-DCH Non-scheduled Grant Information* 7.68Mcps *TDD* IE in the *E-DCH Information Response* 7.68Mcps IE in the RADIO LINK RECONFIGURATION READY message.]

## [TDD – E-DCH Modification:]

[TDD – If the RADIO LINK RECONFIGURATION PREPARE message includes the *Maximum MAC-d PDU Size Extended* IE for a E-DCH Logical Channel in the *E-DCH MAC-d Flows Information* IE in the *E-DCH TDD Information To Modify* IE, then the DRNS shall ignore the *MAC-d PDU Size* IE in the *MAC-d PDU Size List* IE and use *Maximum MAC-d PDU Size Extended* IE to optimise capacity allocation for the related E-DCH Logical Channel.]

[TDD – If the RADIO LINK RECONFIGURATION PREPARE message includes the *E-DCH MAC-d PDU Size Format* IE in the *E-DCH TDD Information To Modify* IE, then the DRNS shall use the indicated format in user plane frame structure for E-DCH channels TS 25.425 [32] and MAC TS 25.321 [41].]

#### [3.84Mcps TDD – E-DCH Modification:]

[3.84Mcps TDD – If the RADIO LINK RECONFIGURATION PREPARE message includes the *E-DCH TDD Information* IE, then:]

- [3.84Mcps TDD If the *E-DCH TDD Information* IE includes the *E-DCH TDD Maximum Bitrate* IE for an E-DCH, the DRNS shall use this information for the related resource allocation operation, and when applicable, for E-DCH scheduling.]
- [3.84Mcps TDD If the *E-DCH TDD Information* IE includes the *E-DCH Processing Overload Level* IE, then if the DRNS could not decode the E-PUCH for the last consecutive number of TTIs, indicated in the *E-DCH*

*Processing Overload Level* IE, because of a processing issue, the DRNS shall notify the SRNC by initiating the Radio Link Failure procedure.]

- [3.84Mcps TDD – If the *E-DCH TDD Information* IE includes the *E-DCH Power Offset for Scheduling Info* IE, then the DRNS shall use this value as a power offset for the transmission of scheduling information without any MAC-d PDUs.]

## [1.28Mcps TDD – E-DCH Modification:]

[1.28Mcps TDD – If the RADIO LINK RECONFIGURATION PREPARE message includes the *E-DCH TDD Information LCR* IE, then:]

- [1.28Mcps TDD If the *E-DCH TDD Information LCR* IE includes the *E-DCH Physical Layer Category LCR* IE or *Extended E-DCH Physical Layer Category LCR* IE for an E-DCH, the DRNS shall use this information for the related resource allocation operation, and when applicable, for E-DCH scheduling.]
- [1.28Mcps TDD If the *E-DCH TDD Information LCR* IE includes the *E-DCH Processing Overload Level* IE for an E-DCH, then if the DRNS could not decode the E-PUCH for the last consecutive number of TTIs, indicated in the *E-DCH Processing Overload Level* IE, because of a processing issue, the DRNS shall notify the SRNC by initiating the Radio Link Failure procedure.]
- [1.28Mcps TDD If the *E-DCH TDD Information LCR* IE includes the *E-DCH Power Offset for Scheduling Info* IE, then the DRNS shall use this value as a power offset for the transmission of scheduling information without any MAC-d PDUs.]
- [1.28Mcps TDD If the *E-DCH TDD Information LCR* IE includes the *Maximum Number of Retransmission for Scheduling Info LCR* IE and the *E-DCH Retransmission timer for Scheduling Info LCR* IE, then the DRNS shall use these parameters for the transmission of scheduling information without any MAC-d PDUs.]

# [7.68Mcps TDD – E-DCH Modification:]

[7.68Mcps TDD – If the RADIO LINK RECONFIGURATION PREPARE message includes the *E-DCH TDD Information 7.68Mcps* IE, then:]

- [7.68Mcps TDD If the *E-DCH TDD Information 7.68Mcps* IE includes the *E-DCH TDD Maximum Bitrate* 7.68Mcps IE for an E-DCH, the DRNS shall use this information for the related resource allocation operation, and when applicable, for E-DCH scheduling.]
- [7.68Mcps TDD If the *E-DCH TDD Information 7.68Mcps* IE includes the *E-DCH Processing Overload Level* IE, then if the DRNS could not decode the E-PUCH for the last consecutive number of TTIs, indicated in the *E-DCH Processing Overload Level* IE, because of a processing issue, the DRNS shall notify the SRNC by initiating the Radio Link Failure procedure.]
- [7.68Mcps TDD If the *E-DCH TDD Information 7.68Mcps* IE includes the *E-DCH Power Offset for Scheduling Info* IE, then the DRNS shall use this value as a power offset for the transmission of scheduling information without any MAC-d PDUs.]

[TDD- If the RADIO LINK RECONFIGURATION PREPARE message includes the *E-DCH TDD Information To Modify* IE, then:]

- [TDD- If the *E-DCH TDD Information To Modify* IE contains a *E-DCH MAC-d Flow Specific Information* IE which includes the *Allocation/Retention Priority* IE, the DRNS shall apply the new Allocation/Retention Priority to this E-DCH in the new configuration according to Annex A.]

[TDD- If the *E-DCH TDD Information To Modify* IE contains a *TNL QoS* IE for an E-DCH MAC-d flow and if ALCAP is not used, the *TNL QoS* IE may be used by the DRNS to determine the transport bearer characteristics to apply in the uplink for the related MAC-d flow.]

- [TDD- If the *E-DCH TDD Information To Modify* IE includes the *Maximum Number of Retransmissions for E-DCH* IE for an E-DCH MAC-d flow then the DRNS shall use this information to report if the maximum number of retransmissions has been exceeded.]
- [1.28Mcps TDD If the *E-DCH TDD Information To Modify* IE includes the *E-DCH MAC-d Flow Retransmission Timer* IE for an E-DCH MAC-d flow then the DRNS shall use this information to set the retransmission timer.]

- [TDD– If the *TNL QoS* IE is included in the *E-DCH TDD Information to Modify* IE for an E-DCH MAC-d flow and if ALCAP is not used, the *TNL QoS* IE may be used by the DRNS to determine the transport bearer characteristics to apply in the uplink for the related MAC-d flow.]
- [TDD- If the *E-DCH TDD Information To Modify* IE includes the *E-DCH HARQ Power Offset TDD* IE for an E-DCH MAC-d flow the DRNS shall use this new power offset value.]
- [TDD- If the *E-DCH TDD Information To Modify* IE includes the *E-DCH MAC-d Flow Multiplexing List* IE for an E-DCH MAC-d flow the DRNS shall use this information for the related resource allocation operation.]
- [TDD- If the *E-DCH TDD Information To Modify* IE contains the *E-DCH Grant Type* IE, the DRNS shall treat the E-DCH MAC-d flow as Scheduled or Non-scheduled accordingly.]
- [TDD- If the *E-DCH TDD Information To Modify* IE includes the *E-DCH Logical Channel To Add* or *E-DCH Logical Channel To Delete* IEs, the DRNS shall use this information to add/delete the indicated logical channels. When a logical channel is deleted, all its associated configuration data shall also removed.]
- [TDD- If the *E-DCH TDD Information To Modify* IE includes the *E-DCH Logical Channel To Modify* IE, the DRNS shall use this information to modify the indicated logical channels:]
  - [TDD If the *E-DCH Logical Channel To Modify* IE includes *Scheduling Priority Indicator* IE, the DRNS shall apply the values in the new configuration.]
  - [TDD If the *E-DCH Logical Channel To Modify* IE includes *Scheduling Information* IE, the DRNS shall apply the values in the new configuration.]
  - [TDD If the *E-DCH Logical Channel To Modify* IE includes *MAC-es Guaranteed Bit Rate* IE, the DRNS shall apply the values in the new configuration.]
  - [TDD If the *E-DCH Logical Channel To Modify* IE includes *E-DCH DDI Value* IE, the DRNS shall apply the values in the new configuration.]
  - [1.28Mcps TDD If the *E-DCH Logical Channel To Modify* IE includes *MAC-es Maximum Bit Rate LCR* IE, the DRNS shall use this information for the related resource allocation operation, and when applicable, for E-DCH scheduling.]
  - [TDD If the *E-DCH Logical Channel To Modify* IE includes the *Maximum MAC-d PDU Size Extended* IE, the DRNS shall apply the value in the new configuration.]
- [TDD- If the *E-DCH TDD Information To Modify* IE includes the *MAC-e Reset Indicator* IE, then the DRNS shall use this value to determine whether MAC-e (or MAC-i) Reset is performed in the UE for sending the HARQ Failure Indication.]

#### General

If the requested modifications are allowed by the DRNC and the DRNC has successfully reserved the required resources for the new configuration of the Radio Link(s), it shall respond to the SRNC with the RADIO LINK RECONFIGURATION READY message. When this procedure has been completed successfully there exists a Prepared Reconfiguration, as defined in subclause 3.1.

If the RADIO LINK RECONFIGURATION PREPARE message includes the *Transport Layer Address* IE and *Binding ID* IE in the [TDD – *DSCHs To Modify* IE, *DSCHs To Add* IE, *USCHs To Modify* IE, *USCHs To Add* IE], *HS-DSCH Information* IE, *HS-DSCH Information To Modify* IE, *HS-DSCH MAC-d Flows To Add* IE, [FDD – *RL Specific E-DCH Information* IE,] [TDD –*E-DCH MAC-d Flows to Add* IE,] [TDD – *E-DCH TDD Information to Modify* IE,] or in the *RL Specific DCH Information* IEs, the DRNC may use the transport layer address and the binding identifier received from the SRNC when establishing a transport bearer for any Transport Channel [FDD – for which the *Transport Bearer Not Requested Indicator* IE is not included], HS-DSCH MAC-d flow being added or E-DCH MAC-d flow [FDD – for which the *Transport Bearer Not Requested Indicator* IE is not included] being added, or any Transport Channel, HS-DSCH MAC-d flow or E-DCH MAC-d flow being modified for which a new transport bearer was requested with the *Transport Bearer Request Indicator* IE.

The DRNC shall include in the RADIO LINK RECONFIGURATION READY message the *Transport Layer Address* IE and the *Binding ID* IE for any Transport Channel [FDD – for which the *Transport Bearer Not Requested Indicator* IE is not included], HS-DSCH MAC-d flow being added or E-DCH MAC-d flow [FDD – for which the *Transport Bearer Not Requested Indicator* IE is not included] being added, or any Transport Channel [FDD – for which the

*Transport Bearer Not Requested Indicator* IE was not included], HS-DSCH MAC-d flow or E-DCH MAC-d flow [FDD – for which the *Transport Bearer Not Requested Indicator* IE was not included] being modified for which a new transport bearer was requested with the *Transport Bearer Request Indicator* IE. In the case of a set of co-ordinated DCHs requiring a new transport bearer on the Iur interface, the *Transport Layer Address* IE and the *Binding ID* IE in the *DCH Information Response* IE shall be included [FDD – if the *Transport Bearer Not Requested Indicator* IE is not included for the corresponding DCH,] for only one of the DCHs in the set of co-ordinated DCHs.

[FDD – If the RADIO LINK RECONDIGURATION PREPARE message includes the *Transport Bearer Not Requested Indicator* IE set to "Transport Bearer Shall not be Established" for a DCH or an E-DCH MAC-d flow, then the DRNC shall not establish a transport bearer for the concerned DCH or E-DCH MAC-d flow and shall include the *Transport Bearer Not Setup Indicator* IE for the corresponding DCH or E-DCH MAC-d flow in the RADIO LINK RECONFIGURATION READY message.]

[FDD – If the RADIO LINK RECONDIGURATION PREPARE message includes the *Transport Bearer Not Requested Indicator* IE set to "Transport Bearer may not be Established" for a DCH or an E-DCH MAC-d flow and:]

- [FDD if the DRNC establishes a transport bearer for the concerned DCH or E-DCH MAC-d flow, the DRNC shall include in the RADIO LINK RECONFIGURATION READY message the *Binding ID* IE and *Transport Layer Address* IE for establishment of a transport bearer for the DCH or E-DCH MAC-d flow being established.]
- [FDD if the DRNC does not establish a transport bearer for the concerned DCH or E-DCH MAC-d flow, the DRNC shall include the *Transport Bearer Not Setup Indicator* IE for the corresponding DCH or E-DCH MAC-d flow in the RADIO LINK RECONFIGURATION READY message.]

In the case of a Radio Link being combined with another Radio Link within the DRNS, the *Transport Layer Address* IE and the *Binding ID* IE in the *DCH Information Response* IE shall be included for only one of the combined Radio Links [FDD – if the *Transport Bearer Not Requested Indicator* IE is not included for this DCH of the Radio Link].

[FDD – In the case of an E-DCH RL being combined with another E-DCH RL within the DRNS, the *E-DCH FDD Information Response* IE shall be included only for one of the combined E-DCH RLs.]

[FDD – If the RADIO LINK RECONFIGURATION PREPARE message includes the *Additional E-DCH Cell Information RL Reconf Prep* IE, then:]

- [FDD if the *Multicell E-DCH Transport Bearer Mode* IE for an Additional E-DCH to be Setup is set to "Separate Iur Transport Bearer Mode" the DRNS shall use this mode in the new configuration and apply separate transport bearers for the MAC-d flows.]
- [FDD if the *Multicell E-DCH Transport Bearer Mode* IE for an Additional E-DCH to be Setup is set to "UL Flow Multiplexing Mode" the DRNS shall use this mode in the new configuration and multiplex MAC-d flows on the transport bearers.]
- [FDD if Separate Iur Transport Bearer Mode is used in the new configuration, then:]
  - [FDD the DRNS shall follow the rules defined in this procedure for single carrier mode of operation for establishment of the transport bearer for a MAC-d flow, use the *Transport Bearer Not Requested Indicator* IE in the *RL Specific E-DCH Information* IE in the *RL Information* IE and/or the *Transport Bearer Request Indicator* IE in the *E-DCH FDD Information To Modify* IE received for the corresponding Radio Link(s) of the Primary Uplink Frequency to determine the transport bearer configuration in the new configuration for the radio links of the Secondary Uplink Frequency.]
  - [FDD If the Transport Layer Address IE and Binding ID IE is included for an E-DCH MAC-d flow in the Additional E-DCH MAC-d Flows Specific Information IE in the Additional E-DCH RL Specific Information To Setup IE in the Additional E-DCH FDD Setup Information IE in the Additional E-DCH Cell Information Setup IE or in the Additional E-DCH RL Specific Information To Add IE and/or the Additional E-DCH RL Specific Information To Modify IE in the Additional E-DCH Configuration Change Information IE in the Additional E-DCH Cell Information Configuration Change IE, then the DRNS may use the transport layer address and the binding identifier received from the SRNC when establishing a transport bearer for the concerned E-DCH MAC-d flow. If the DRNS establishes a transport bearer for the concerned E-DCH MAC-d flow. If the DRNS establishes a transport bearer for the concerned E-DCH MAC-d flow. If the DRNS establishes a transport bearer for the concerned E-DCH MAC-d flow. If the DRNS establishes a transport bearer for the concerned E-DCH MAC-d flow. If the DRNS establishes a transport bearer for the concerned E-DCH MAC-d flow. If the DRNS establishes a transport bearer for the concerned E-DCH MAC-d flow. If the DRNS establishes a transport bearer for the concerned E-DCH MAC-d flow. If the DRNS establishes a transport bearer for the concerned E-DCH MAC-d flow. If the DRNS establishes a transport bearer for the concerned E-DCH MAC-d flow. If the DRNS establishes a transport bearer for the concerned E-DCH MAC-d flow. If the DRNS establishes a transport bearer for the concerned E-DCH MAC-d flow. If the DRNS establishes a transport bearer for the concerned E-DCH MAC-d flow. If the DRNS establishes a transport bearer for the concerned E-DCH MAC-d flow. If the DRNS establishes a transport bearer for the concerned E-DCH MAC-d flow. If the DRNS establishes a transport bearer for the concerned E-DCH MAC-d flow is the Binding ID IE and Transport Layer Address IE in the Additional E-DCH FDD Information Response IE for ne

the Additional E-DCH MAC-d Flow Specific Information Response IE in the Additional Modified E-DCH FDD Information Response IE for radio links on the Secondary UL frequency that has been modified.]

Any allowed rate for the uplink of a modified DCH provided for the old configuration will not be valid for the new configuration. If the DRNS needs to limit the user rate in the uplink of a DCH due to congestion caused by the UL UTRAN Dynamic Resources (see subclause 9.2.1.79) in the new configuration for a Radio Link, the DRNC shall include in the RADIO LINK RECONFIGURATION READY message the *Allowed UL Rate* IE in the *DCH Information Response* IE for this Radio Link.

Any allowed rate for the downlink of a modified DCH provided for the old configuration will not be valid for the new configuration. If the DRNS needs to limit the user rate in the downlink of a DCH due to congestion caused by the DL UTRAN Dynamic Resources (see subclause 9.2.1.79) in the new configuration for a Radio Link, the DRNC shall include in the RADIO LINK RECONFIGURATION READY message the *Allowed DL Rate* IE in the *DCH Information Response* IE for this Radio Link.

The DRNS decides the maximum and minimum SIR for the uplink of the Radio Link(s) and the DRNC shall include in the RADIO LINK RECONFIGURATION READY message the *Maximum Uplink SIR* IE and *Minimum Uplink SIR* IE for each Radio Link when these values are changed.

[FDD – If the DL TX power upper or lower limit has been re-configured, the DRNC shall include in the RADIO LINK RECONFIGURATION READY message the *Maximum DL TX Power* IE and *Minimum DL TX Power* IE respectively. The DRNS shall not transmit with a higher power than indicated by the *Maximum DL TX Power* IE or lower than indicated by the *Minimum DL TX Power* IE or lower than indicated by the *Minimum DL TX Power* IE on any DL DPCH or on the F-DPCH of the RL –except, if the UE Context is configured to use DPCH in the downlink, during compressed mode, when the  $\delta P_{curr}$ , as described in ref.TS 25.214 [10] subclause 5.2.1.3, shall be added to the maximum DL power for the associated compressed frame.]

[3.84 Mcps TDD and 7.68 Mcps TDD – If the DL TX power upper or lower limit has been re-configured, the DRNC shall include the new value(s) in the *Maximum DL TX Power* IE and *Minimum DL TX Power* IE in the RADIO LINK RECONFIGURATION READY message. If the maximum or minimum power needs to be different for particular DCH type CCTrCHs, the DRNC shall include the new value(s) for that CCTrCH in the *CCTrCH Maximum DL TX Power* IE and *CCTrCH Minimum DL TX Power*. The DRNS shall not transmit with a higher power than indicated by the appropriate *Maximum DL TX Power* IE/*CCTrCH Maximum DL TX Power* IE or lower than indicated by the appropriate *Minimum DL TX Power* IE/*CCTrCH Minimum DL TX Power* IE on any DL DPCH within each CCTrCH of the RL.]

[1.28 Mcps TDD – If the DL TX power upper or lower limit has been re-configured, the DRNC shall include the new value(s) in the *Maximum DL TX Power* IE and *Minimum DL TX Power* IE in the RADIO LINK RECONFIGURATION READY message. If the maximum or minimum power needs to be different for particular timeslots within a DCH type CCTrCH, the DRNC shall include the new value(s) for that timeslot in the *Maximum DL TX Power* IE and *Minimum DL TX Power* IE or lower than indicated by the appropriate *Maximum DL TX Power* IE or lower than indicated by the appropriate *Minimum DL TX Power* IE or any DL DPCH within each timeslot of the RL.]

[TDD – If the [3.84Mcps TDD and 7.68 Mcps TDD – *DL Time Slot ISCP Info* IE][1.28Mcps TDD – *DL Time Slot ISCP Info LCR* IE] is present, the DRNS should use the indicated values when deciding the Initial DL TX Power.]

[TDD – If the *Primary CCPCH RSCP Delta* IE is included, the DRNS shall assume that the reported value for Primary CCPCH RSCP is in the negative range as per TS 25.123 [24], and the value is equal to the *Primary CCPCH RSCP Delta* IE. If the *Primary CCPCH RSCP Delta* IE is not included and the *Primary CCPCH RSCP* IE is included, the DRNS shall assume that the reported value is in the non-negative range as per TS 25.123 [24], and the value is equal to the *Primary CCPCH RSCP* IE. The DRNS shall use the indicated values when deciding the Initial DL TX Power.]

# 8.3.4.3 Unsuccessful Operation

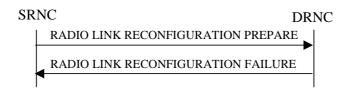


Figure 11: Synchronised Radio Link Reconfiguration Preparation procedure, Unsuccessful Operation

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If the DRNS cannot reserve the necessary resources for all the new DCHs of a set of co-ordinated DCHs requested to be added, it shall reject the Synchronised Radio Link Reconfiguration Preparation procedure as having failed.

If the requested Synchronised Radio Link Reconfiguration Preparation procedure fails for one or more RLs, the DRNC shall send the RADIO LINK RECONFIGURATION FAILURE message to the SRNC, indicating the reason for failure for each failed radio link in a *Cause* IE.

[FDD – If the *MIMO Activation Indicator* IE is included and the *Power Offset For S-CPICH for MIMO Request Indicator* IE is not included in the HS-DSCH FDD Information IE in the *HS-DSCH FDD Information* IE in the RADIO LINK RECONFIGURATION PREPARE message or MIMO is activated and the power offset for S-CPICH for MIMO Request indicator has not been configured in the new configuration but MIMO pilot configuration with Primary and Secondary CPICH is set up with a non-zero power offset on the cell where the Serving HS-DSCH Radio Link is established, the setup of the serving HS-DSCH Radio Link, and/or activation of MIMO, shall be reported as failed and the DRNC shall include in the RADIO LINK RECONFIGURATION FAILURE message the *Cause* IE.]

Typical cause values are:

#### **Radio Network Layer Causes:**

UL Scrambling Code Already in Use; DL Radio Resources not Available; UL Radio Resources not Available; Requested Configuration not Supported; Number of DL Codes not Supported; Number of UL Codes not Supported; Dedicated Transport Channel Type not Supported; DL Shared Channel Type not Supported; [TDD – UL Shared Channel Type not Supported;] [FDD – UL Spreading Factor not Supported;] [FDD - DL Spreading Factor not Supported;] CM not Supported; RL Timing Adjustment not Supported; E-DCH not supported; [FDD – F-DPCH not supported;] [FDD – Continuous Packet Connectivity DTX-DRX operation not Supported;] [FDD – Continuous Packet Connectivity HS-SCCH less operation not Supported;] [FDD – MIMO not supported;] [FDD – E-DCH TTI2ms not supported;] [FDD – Continuous Packet Connectivity DTX-DRX operation not available;] [FDD – Continuous Packet Connectivity UE DTX Cycle not available;] [FDD – MIMO not available;] [FDD - SixteenQAM UL not Supported;] HS-DSCH MAC-d PDU Size Format not supported; [FDD – F-DPCH Slot Format operation not supported;] E-DCH MAC-d PDU Size Format not available; [FDD – E-DPCCH Power Boosting not supported;] [FDD - SixtyfourQAM DL and MIMO Combined not available;] [FDD - Multi Cell operation not available;] [FDD – Multi Cell operation not supported;] [FDD - SixtyfourQAM DL and MIMO Combined not supported;] [1.28Mcps TDD- MIMO not supported;] [1.28Mcps TDD – MIMO not available;] [1.28Mcps TDD - SixtyfourQAM DL and MIMO Combined not available;] [FDD - TX diversity for MIMO UE on DL Control Channels not available;] [FDD – Single Stream MIMO not supported;] [FDD - Single Stream MIMO not available;] [FDD – Multi Cell operation with MIMO not available;] [FDD – Multi Cell operation with MIMO not supported;] [FDD – Multi Cell E-DCH Operation not supported;] [FDD – Multi Cell E-DCH Operation not available;] [FDD – Multi Cell operation with Single Stream MIMO not available;] [FDD – Multi Cell operation with Single Stream MIMO not supported;] [FDD – Cell Specific Tx Diversity Handling For Multi Cell Operation Not Available;] 155

[FDD – Cell Specific Tx Diversity Handling For Multi Cell Operation Not Supported.]

#### **Miscellaneous Causes:**

Control Processing Overload; Not enough User Plane Processing Resources.

# 8.3.4.4 Abnormal Conditions

If only a subset of all the DCHs belonging to a set of co-ordinated DCHs is requested to be deleted, the DRNS shall reject the Synchronised Radio Link Reconfiguration Preparation procedure as having failed and shall send the RADIO LINK RECONFIGURATION FAILURE message to the SRNC.

If more than one DCH of a set of co-ordinated DCHs has the *QE-Selector* IE set to "selected" [TDD – or no DCH of a set of co-ordinated DCHs has the *QE-Selector* IE set to "selected"] the DRNS shall reject the Synchronised Radio Link Reconfiguration Preparation procedure and the DRNC shall respond with a RADIO LINK RECONFIGURATION FAILURE message.

If the RADIO LINK RECONFIGURATION PREPARE message includes a *DCHs To Modify* IE or *DCHs To Add* IE with multiple *DCH Specific Info* IEs, and if the DCHs in the *DCHs To Modify* IE or *DCHs To Add* IE do not have the same *Transmission Time Interval* IE in the *Semi-static Transport Format Information* IE, then the DRNC shall reject the procedure using the RADIO LINK RECONFIGURATION FAILURE message.

[FDD – If the *RL Information* IE includes the *DL Reference Power* IE, but the power balancing is not active in the indicated RL(s), the DRNS shall reject the Synchronised Radio Link Reconfiguration Preparation procedure as having failed and the DRNC shall respond with the RADIO LINK RECONFIGURATION FAILURE message with the cause value "Power Balancing status not compatible".]

[FDD – If the power balancing is active with the Power Balancing Adjustment Type of the UE Context set to "Common" in the existing RL(s) but the RADIO LINK RECONFIGURATION PREPARE message includes more than one *DL Reference Power* IE, the DRNS shall reject the Synchronised Radio Link Reconfiguration Preparation procedure as having failed and the DRNC shall respond with the RADIO LINK RECONFIGURATION FAILURE message with the cause value "Power Balancing status not compatible".]

If the RADIO LINK RECONFIGURATION PREPARE message contains the *Transport Layer Address* IE or the *Binding ID* IE when establishing a transport bearer for any Transport Channel or HS-DSCH MAC-d flow being added, or any Transport Channel or HS-DSCH MAC-d flow being modified for which a new transport bearer was requested with the *Transport Bearer Request Indicator* IE., and not both are present for a transport bearer intended to be established, the DRNC shall reject the Synchronised Radio Link Reconfiguration Preparation procedure and the DRNC shall respond with a RADIO LINK RECONFIGURATION FAILURE message.

If the RADIO LINK RECONFIGURATION PREPARE message contains any of the *HS-DSCH Information To Modify* IE, *HS-DSCH MAC-d Flows To Add* IE or *HS-DSCH MAC-d Flows To Delete* IE in addition to the *HS-DSCH Information* IE, the DRNC shall reject the procedure using the RADIO LINK RECONFIGURATION FAILURE message.

If the RADIO LINK RECONFIGURATION PREPARE message contains any of the *HS-DSCH Information To Modify* IE, *HS-DSCH MAC-d Flows To Add* IE, *HS-DSCH MAC-d Flows To Delete* IE or *HS-PDSCH RL ID* IE and the Serving HS-DSCH Radio Link is not in the DRNS, the DRNC shall reject the procedure using the RADIO LINK RECONFIGURATION FAILURE message.

If the RADIO LINK RECONFIGURATION PREPARE message includes the *HS-DSCH Information* IE and does not include the *HS-PDSCH RL-ID* IE, the DRNC shall reject the procedure using the RADIO LINK RECONFIGURATION FAILURE message.

If the RADIO LINK RECONFIGURATION PREPARE message includes the *HS-DSCH Information To Modify* IE deleting the last remaining Priority Queue of an HS-DSCH MAC-d Flow, the DRNC shall reject the procedure using the RADIO LINK RECONFIGURATION FAILURE message.

If the RADIO LINK RECONFIGURATION PREPARE message includes the *HS-PDSCH RL-ID* IE indicating a Radio Link not existing in the UE Context, the DRNC shall reject the procedure using the RADIO LINK RECONFIGURATION FAILURE message.

If the RADIO LINK RECONFIGURATION PREPARE message contains any of the *HS-DSCH Information* IE, *HS-DSCH Information To Modify* IE, or *HS-DSCH MAC-d Flows To Add* IE and if in the new configuration the Priority Queues associated with the same *HS-DSCH MAC-d Flow ID* IE have the same *Scheduling Priority Indicator* IE value, the DRNC shall reject the procedure using the RADIO LINK RECONFIGURATION FAILURE message.

If, in the new configuration, the concerned UE Context is configured to use "Indexed MAC-d PDU Size" for an HS-DSCH but there exist a priority queue of the MAC-d flows of the HS-DSCH that is configured to use Maximum MACd PDU Size Extended, the DRNC shall reject the procedure using the RADIO LINK RECONFIGURATION FAILURE message.

If, in the new configuration, the concerned UE Context is configured to use "Flexible MAC-d PDU Size" for an HS-DSCH but there exist a priority queue of the MAC-d flows of the HS-DSCH that is configured to use MAC-d PDU Size Index, the DRNC shall reject the procedure using the RADIO LINK RECONFIGURATION FAILURE message.

If, in the new configuration, the concerned UE Context is configured to use "Fixed MAC-d PDU Size" for an E-DCH and there exist a Logical Channel of the MAC-d flows of the E-DCH that is configured to use Maximum MAC-d PDU Size Extended, the DRNC shall reject the procedure using the RADIO LINK RECONFIGURATION FAILURE message.

If, in the new configuration, the concerned UE Context is configured to use "Flexible MAC-d PDU Size" for an E-DCH and there exist a Logical Channel of the MAC-d flows of the E-DCH that is configured to use *MAC-d PDU Size List*, the DRNC shall reject the procedure using the RADIO LINK RECONFIGURATION FAILURE message.

[FDD – If the RADIO LINK RECONFIGURATION PREPARE message includes the *F-DPCH Information* IE and the *DL DPCH Information* IE, then the DRNS shall reject the procedure using the RADIO LINK RECONFIGURATION FAILURE message.]

If the RADIO LINK RECONFIGURATION PREPARE message includes *HS-DSCH Information* IE and the HS-DSCH is already configured in the UE Context, the DRNC shall reject the procedure using the RADIO LINK RECONFIGURATION FAILURE message.

[FDD – If the concerned UE Context is configured to use DPCH in the downlink in the old configuration and if the RADIO LINK RECONFIGURATION PREPARE message includes the *DL DPCH Power Information* IE, then the DRNS shall reject the procedure using the RADIO LINK RECONFIGURATION FAILURE message.]

[FDD – If the concerned UE Context is configured to use F-DPCH in the downlink in the old configuration and the RADIO LINK RECONFIGURATION PREPARE message includes at least one but not all of the *TFCS* IE, *DL DPCH Slot Format* IE, *TFCI Signalling Mode* IE, *Multiplexing Position* IE, *Limited Power Increase* IE and *DL DPCH Power Information* IE in the *DL DPCH Information* IE, then the DRNS shall reject the procedure using the RADIO LINK RECONFIGURATION FAILURE message.]

[FDD – If the *E-DCH FDD Information* IE is present in the RADIO LINK RECONFIGURATION PREPARE message, but the *E-DPCH Information* IE is not present or if any of the *Maximum Set of E-DPDCHs* IE, *Puncture Limit* IE, *E-TFCS Information* IE, *E-TTI* IE, *E-DPCCH Power Offset* IE, *E-RGCH 2-Index-Step Threshold* IE, *E-RGCH 3-Index-Step Threshold* IE, *HARQ Info for E-DCH* IE or *HS-DSCH Configured Indicator* IE are not present in the *E-DPCH Information* IE, then the DRNS shall reject the procedure using the RADIO LINK RECONFIGURATION FAILURE message.]

[FDD – If the RADIO LINK RECONFIGURATION PREPARE message includes the *E-DCH RL Indication* IE set to "E-DCH", but no *E-DCH FDD Information* IE, and the UE Context is not configured for E-DCH, then the DRNC shall reject the procedure using the RADIO LINK RECONFIGURATION FAILURE message.]

[FDD – If the RADIO LINK RECONFIGURATION PREPARE message includes the *E-DCH FDD Information* IE but no *E-DCH RL Indication* IE set to "E-DCH", then the DRNC shall reject the procedure using the RADIO LINK RECONFIGURATION FAILURE message.]

If the RADIO LINK RECONFIGURATION PREPARE message contains the *HS-PDSCH RL ID* IE and/or the *Serving E-DCH RL* IE and if both HS-DSCH and E-DCH are configured in the new configuration but the Serving HS-DSCH Radio Link and the Serving E-DCH Radio Link are not in the same cell then the DRNC shall reject the procedure using the RADIO LINK RECONFIGURATION FAILURE message.

[FDD – If the RADIO LINK RECONFIGURATION PREPARE message contains the *HS-PDSCH RL ID* IE and the *E-DPCH Information* IE which includes the *HS-DSCH Configured Indicator* IE set as "HS-DSCH not configured" then the DRNC shall reject the procedure using the RADIO LINK RECONFIGURATION FAILURE message.]

[FDD – If the RADIO LINK RECONFIGURATION PREPARE message contains any of the *E-DCH FDD Information To Modify* IE, *E-DCH MAC-d Flows To Add* IE or *E-DCH MAC-d Flows To Delete* IE in addition to the *E-DCH FDD Information* IE, the DRNC shall reject the procedure using the RADIO LINK RECONFIGURATION FAILURE message.]

[FDD – If the RADIO LINK RECONFIGURATION PREPARE message contains any of the *E-DCH FDD Information To Modify* IE, *E-DCH MAC-d Flows To Add* IE, *E-DCH MAC-d Flows To Delete* IE and the UE Context is not configured for E-DCH, the DRNC shall reject the procedure using the RADIO LINK RECONFIGURATION FAILURE message.]

[FDD – If the RADIO LINK RECONFIGURATION PREPARE message includes the *E-DCH FDD Information To Modify* IE deleting the last remaining E-DCH Logical Channel of an E-DCH MAC-d Flow, the DRNC shall reject the procedure using the RADIO LINK RECONFIGURATION FAILURE message.]

[FDD – If the RADIO LINK RECONFIGURATION PREPARE message includes *E-DCH FDD Information* IE and the E-DCH is already configured in the UE Context, the DRNC shall reject the procedure using the RADIO LINK RECONFIGURATION FAILURE message.]

[FDD – If the *Fast Reconfiguration* IE is included in the RADIO LINK RECONFIGURATION PREPARE message and the *UL Scrambling Code* IE does not indicate an uplink scrambling code different from the currently used uplink scrambling code the DRNC shall reject the procedure using the RADIO LINK RECONFIGURATION FAILURE message.]

[FDD – If the RADIO LINK RECONFIGURATION PREPARE message includes the *Continuous Packet Connectivity* DTX-DRX Information To Modify IE in addition to the *Continuous Packet Connectivity* DTX-DRX Information IE, then the DRNC shall reject the procedure using the RADIO LINK RECONFIGURATION FAILURE message.]

[FDD – If the RADIO LINK RECONFIGURATION PREPARE message includes the *Continuous Packet Connectivity HS-SCCH less Deactivate Indicator* IE in addition to the *Continuous Packet Connectivity HS-SCCH less Information* IE, the DRNC shall reject the procedure using the RADIO LINK RECONFIGURATION FAILURE message.]

[FDD – If the RADIO LINK RECONFIGURATION PREPARE message includes the *Continuous Packet Connectivity HS-SCCH less Deactivate Indicator* IE while the Continuous Packet Connectivity HS-SCCH less configuration isn't configured in the DRNC, the DRNC shall reject the procedure using the RADIO LINK RECONFIGURATION FAILURE message.]

[FDD – If the RADIO LINK RECONFIGURATION PREPARE message includes the *Continuous Packet Connectivity DTX-DRX Information To Modify* IE while the Continuous Packet Connectivity *DTX-DRX* configuration isn't configured in the DRNC, the DRNC shall reject the procedure using the RADIO LINK RECONFIGURATION FAILURE message.]

[FDD – If the RADIO LINK RECONFIGURATION PREPARE message includes the *DRX Information To Modify* IE in *Continuous Packet Connectivity DTX-DRX Information To Modify* IE while the Continuous Packet Connectivity DRX configuration is not configured in the DRNC, the DRNC shall reject the procedure using the RADIO LINK RECONFIGURATION FAILURE message.]

If the *DCHs to Modify* IE contains a *DCH Specific Info* IE which includes the *Unidirectional DCH Indicator* IE set to "Uplink DCH only" but no *Transport Format Set* IE for the uplink for this DCH and the DRNC had ignored the configuration of Transport Format Set for uplink, the DRNC shall reject the procedure using the RADIO LINK RECONFIGURATION FAILURE message.

If the *DCHs to Modify* IE contains a *DCH Specific Info* IE which includes the *Unidirectional DCH Indicator* IE set to "Downlink DCH only" but no *Transport Format Set* IE for the downlink for this DCH and the DRNC had ignored the configuration of Transport Format Set for downlink, the DRNC shall reject the procedure using the RADIO LINK RECONFIGURATION FAILURE message.

[FDD – If the RADIO LINK RECONFIGURATION PREPARE message contains the *Transport Bearer Not Requested Indicator* IE for a DCH or an E-DCH MAC-d flow but does not contain the corresponding DCH ID IE and the *Unidirectional DCH indicator* IE set to "Uplink DCH only" for the DCH in DCH Information To Add IE or does not contain the corresponding E-DCH MAC-d Flow ID IE in E-DCH MAC-d Flows Information IE, the DRNC shall reject the procedure using the RADIO LINK RECONFIGURATION FAILURE message.]

[FDD – If the concerned UE Context is configured to apply UL DPCCH Slot Format 4 but is not configured to use F-DPCH, then the DRNC shall reject the procedure using the RADIO LINK RECONFIGURATION FAILURE message.]

[FDD – If the concerned UE Context is configured to apply UL DPCCH Slot Format 0 or 2 and execute Continuous Packet Connectivity DTX-DRX operation, then the DRNC shall reject the procedure using the RADIO LINK RECONFIGURATION FAILURE message.]

[FDD – If the concerned UE Context is configured to apply the "Closed loop mode 1" and if the concerned UE Context is not configured to apply UL DPCCH Slot Format 2 or 3, then the DRNC shall reject the procedure using the RADIO LINK RECONFIGURATION FAILURE message.]

[FDD – If the concerned UE Context is configured to apply MIMO, allowed to apply 64QAM, establish the secondary serving HS-DSCH Radio Link or apply Single Stream MIMO in the new configuration but is not configured to use flexible MAC-d PDU Size, then the DRNC shall reject the procedure using the RADIO LINK RECONFIGURATION FAILURE message.]

[FDD – If the RADIO LINK RECONFIGURATION PREPARE message includes the *Transport Bearer Not Requested Indicator* IE for a DCH in the *RL Specific DCH Information* IE but does not include the *DCH ID* IE for the DCH in the *DCHs to Add* IE, the DRNC shall reject the procedure using the RADIO LINK RECONFIGURATION FAILURE message.]

[FDD – If the RADIO LINK RECONFIGURATION PREPARE message includes the *Transport Bearer Not Requested Indicator* IE for an E-DCH MAC-d flow in the *RL Specific E-DCH Information* IE but does not include the *E-DCH MAC-d flow ID* IE for the E-DCH MAC-d flow in the *E-DCH MAC-d flows Information* IE, the DRNC shall reject the procedure using the RADIO LINK RECONFIGURATION FAILURE message.]

[FDD – If the RADIO LINK RECONFIGURATION PREPARE message contains the *Continuous Packet Connectivity DTX-DRX Information* IE but does not contain the *F-DPCH Information* IE and the concerned UE Context is not previously configured to use F-DPCH, then the DRNC shall reject the procedure using the RADIO LINK RECONFIGURATION FAILURE message]

[FDD – If the concerned UE Context is configured to have the Serving E-DCH Radio Link but there is at least one E-DCH MAC-d flow which the transport bearer is not configured for the Serving E-DCH Radio Link in DRNS, the DRNC shall reject the procedure using the RADIO LINK RECONFIGURATION FAILURE message.]

[FDD – If the RADIO LINK RECONFIGURATION PREPARE message includes the *Transport Bearer Not Requested Indicator* IE for a DCH or an E-DCH MAC-d Flow for a specific RL and the specific RL is combined with existing RL which the transport bearer is established for the DCH or the E-DCH MAC-d Flow in the DRNS, the DRNC shall reject the procedure using the RADIO LINK RECONFIGURATION FAILURE message.]

[FDD – If the RADIO LINK RECONFIGURATION PREPARE message contains the *Additional HS Cell Information RL Reconf Prep* IE indicating a new secondry serving cell that is not in the same Node B as the serving HS-DSCH cell (or new serving in case of simultaneous serving HS-DSCH cell change), then the DRNC shall reject the procedure using the RADIO LINK RECONFIGURATION FAILURE message]

If ALCAP is not used, if the concerned UE Context is configured to establish a DCH, an E-DCH MAC-d flow and/or an HS-DSCH MAC-d flow but the RADIO LINK RECONFIGURATION PREPARE message does not include the *Transport Layer Address* IE and the *Binding ID* IE for the DCH, the E-DCH MAC-d flow and/or the HS-DSCH MAC-d flow, the DRNC shall reject the procedure using the RADIO LINK RECONFIGURATION FAILURE message.

[TDD – If ALCAP is not used, if the concerned UE Context is configured to establish a DSCH and/or a USCH but the RADIO LINK RECONFIGURATION PREPARE message does not include the *Transport Layer Address* IE and the *Binding ID* IE for the DSCH and/or the USCH, the DRNC shall reject the procedure using the RADIO LINK RECONFIGURATION FAILURE message.]

If, in the new configuration, there exist a priority queue of the MAC-d flows of the HS-DSCH that is configured to use "Flexible RLC PDU Size" for an HS-DSCH but is not configured to use Maximum MAC-d PDU Size Extended, the DRNC shall reject the procedure using the RADIO LINK RECONFIGURATION FAILURE message.

If, in the new configuration, the concerned UE Context is configured to use MAC-d PDU Size Index for an HS-DSCH but there exist a priority queue of the MAC-d flows of the HS-DSCH that is configured to use "Flexible RLC PDU Size", the DRNC shall reject the procedure using the RADIO LINK RECONFIGURATION FAILURE message.

[FDD – If the RADIO LINK RECONFIGURATION PREPARE message contains a *MIMO Activation Indicator* IE and a *Single Stream MIMO Activation Indicator* IE in the *HS-DSCH FDD Information* IE or in the *HS-DSCH FDD Secondary Serving Information* IE in the *Additional HS Cell Information RL Reconf Prep* IE, then the DRNC shall reject the procedure using the RADIO LINK RECONFIGURATION FAILURE message.]

[FDD – If the concerned UE Context is configured to apply MIMO and Single Stream MIMO for the HS-DSCH Radio Link or the Secondary Serving Radio link, the DRNC shall reject the procedure using the RADIO LINK RECONFIGURATION FAILURE message.]

[FDD – If the RADIO LINK RECONFIGURATION PREPARE message contains the *Additional E-DCH Cell Information RL Reconf Prep* IE and if the *E-DPCH Information* IE is not present or the E-DPCH Information was not configured in the UE Context, then the DRNS shall reject the procedure using the RADIO LINK RECONFIGURATION FAILURE message.]

[FDD – If the RADIO LINK RECONFIGURATION PREPARE message contains the Additional E-DCH Cell Information RL Reconf Prep IE and there exist a logical channel for which the Maximum MAC-d PDU Size Extended IE in the E-DCH MAC-d Flows Information IE in the E-DCH FDD Information IE is not present, the DRNS shall reject the procedure using the RADIO LINK RECONFIGURATION FAILURE message.]

[FDD – If the RADIO LINK RECONFIGURATION PREPARE message contains the Additional E-DCH RL Specific Information To Setup IE in the Additional E-DCH FDD Setup Information IE in the Additional E-DCH Cell Information Setup IE in the Additional E-DCH Cell Information RL Reconf Prep IE and the C-ID IE is not included but the RL indicated by the E-DCH Additional RL ID IE is not configured in the current UE context as a Secondary Serving HS-DSCH radio link without any configured Additional E-DCH, the DRNS shall reject the procedure using the RADIO LINK RECONFIGURATION FAILURE message.]

[FDD – If the RADIO LINK RECONFIGURATION PREPARE message contains the *Diversity Mode* IE in the *HS-DSCH FDD Secondary Serving Information* IE in the *Additional HS Cell Information RL Reconf Prep* IE and the secondary serving HS-DSCH is already configured in the UE Context, then the DRNS shall reject the procedure using the RADIO LINK RECONFIGURATION FAILURE message.]

[FDD – If the secondary serving HS-DSCH is not configured in the UE Context and if the RADIO LINK RECONFIGURATION PREPARE message contains in the *HS-DSCH FDD Secondary Serving Information* IE in the *Additional HS Cell Information RL Reconf Prep* IE the *Diversity Mode* IE not set to "None" but not the *Transmit Diversity Indicator* or contains the *Transmit Diversity Indicator* but not the *Diversity Mode* IE not set to "None", then the DRNS shall reject the procedure using the RADIO LINK RECONFIGURATION FAILURE message.]

[FDD – If the RADIO LINK RECONFIGURATION PREPARE message contains the *Diversity Mode* IE in the *Secondary Serving Information To Modify* IE in the *Additional HS Cell Information RL Reconf Prep* IE and the *Non Cell Specific Tx Diversity* IE, the DRNS shall reject the procedure using the RADIO LINK RECONFIGURATION FAILURE message.]

# 8.3.5 Synchronised Radio Link Reconfiguration Commit

# 8.3.5.1 General

This procedure is used to order the DRNS to switch to the new configuration for the Radio Link(s) within the DRNS, previously prepared by the Synchronised Radio Link Reconfiguration Preparation procedure.

This procedure shall use the signalling bearer connection for the relevant UE Context.

# 8.3.5.2 Successful Operation



# Figure 12: Synchronised Radio Link Reconfiguration Commit procedure, Successful Operation

The DRNS shall switch to the new configuration previously prepared by the Synchronised Radio Link Reconfiguration Preparation procedure at the "configuration switching point" occurring:

 [TDD – at the next coming CFN with a value equal to the value requested by the SRNC in the CFN IE (see ref.TS 25.402 [17] subclause 9.4) when receiving the RADIO LINK RECONFIGURATION COMMIT message from the SRNC.]

- [FDD if the *Fast Reconfiguration* IE is not included in the RADIO LINK RECONFIGURATION COMMIT message at the next coming CFN with a value equal to the value requested by the SRNC in the *CFN* IE (see ref.TS 25.402 [17] subclause 9.4) when receiving the RADIO LINK RECONFIGURATION COMMIT message from the SRNC.]
- [FDD if the *Fast Reconfiguration* IE is included in the RADIO LINK RECONFIGURATION COMMIT message as soon as the DRNS detects that the UE uses the new configuration in the uplink (e.g. the NodeB indicates that the UE uses the new scrambling code used for the uplink by sending the RADIO LINK RESTORATION message). In order to limit the period for the detection in the DRNS the CFN in the RADIO LINK RECONFIGURATION COMMIT message indicates the earliest possible time instant at which the UE might use the new configuration.]

[FDD – If the Active Pattern Sequence Information IE is included in the RADIO LINK RECONFIGURATION COMMIT message, the CM Configuration Change CFN IE in the Active Pattern Sequence Information IE shall be ignored by the DRNS.]

[FDD – If the *Active Pattern Sequence Information* IE is not included in the RADIO LINK RECONFIGURATION COMMIT message and a new Compressed Mode Configuration exists in the prepared configuration, the DRNS shall behave as if an *Active Pattern Sequence Information* IE with an empty *Transmission Gap Pattern Sequence Status* IE was included.]

When this procedure has been completed the Prepared Reconfiguration does not exist any more, see subclause 3.1.

In the case of a Transport Channel or MAC-d flow modification for which a new transport bearer was requested and established, the switch to the new transport bearer shall also take place at the configuration switching point (defined above) indicated CFN.

The detailed frame protocol handling during transport bearer replacement is described in TS 25.427 [4], subclause 5.10.1, and in TS 25.425 [32], subclauses 5.3.1 and 5.3.2.

[FDD – If the RADIO LINK RECONFIGURATION COMMIT includes the *Active Pattern Sequence Information* IE, the DRNS shall deactivate all the ongoing Transmission Gap Pattern Sequences at the configuration switching point (defined above). From that moment on all Transmission Gap Pattern Sequences included in *Transmission Gap Pattern Sequence Status* IE repetitions shall be started when the indicated *TGCFN* IE elapses. The *CFN* IE and *TGCFN* IE for each sequence refer to the next coming CFN with that value. If the values of the *CFN* IE and the *TGCFN* IE are equal, the concerned Transmission Gap Pattern Sequence shall be started immediately at the CFN with a value equal to the value received in the *CFN* IE.]

[FDD – If the RADIO LINK RECONFIGURATION COMMIT message includes the *Active Pattern Sequence Information* IE and the concerned UE Context is configured to use F-DPCH in the downlink, the DRNS shall ignore, when activating the Transmission Gap Pattern Sequence(s), the downlink compressed mode method information, if existing, for the concerned Transmission Gap Pattern Sequence(s) in the Compressed Mode Configuration]

# 8.3.5.3 Abnormal Conditions

If a new transport bearer is required for the new configuration and it is not available at the requested configuration switching point (defined in sub-clause 8.3.3.2), the DRNS shall initiate the Radio Link Failure procedure.

[FDD – If the *Fast Reconfiguration* IE is included in the RADIO LINK RECONFIGURATION COMMIT message and the DRNC did not include the *Fast ReconfigurationPermission* IE in the RADIO LINK RECONFIGURATION READY message, the DRNC shall initiate the Radio Link Failure procedure.]

# 8.3.6 Synchronised Radio Link Reconfiguration Cancellation

# 8.3.6.1 General

This procedure is used to order the DRNS to release the new configuration for the Radio Link(s) within the DRNS, previously prepared by the Synchronised Radio Link Reconfiguration Preparation procedure.

This procedure shall use the signalling bearer connection for the relevant UE Context.

# 8.3.6.2 Successful Operation



# Figure 13: Synchronised Radio Link Reconfiguration Cancellation procedure, Successful Operation

Upon receipt of the RADIO LINK RECONFIGURATION CANCEL message from the SRNC, the DRNS shall release the new configuration ([FDD – including the new Transmission Gap Pattern Sequence parameters (if existing)]) previously prepared by the Synchronised RL Reconfiguration Preparation procedure and continue using the old configuration. When this procedure has been completed the Prepared Reconfiguration does not exist any more, see subclause 3.1.

# 8.3.6.3 Abnormal Conditions

# 8.3.7 Unsynchronised Radio Link Reconfiguration

# 8.3.7.1 General

The Unsynchronised Radio Link Reconfiguration procedure is used to reconfigure Radio Link(s) related to one UE-UTRAN connection within a DRNS.

The procedure is used when there is no need to synchronise the time of the switching from the old to the new radio link configuration in the cells used by the UE-UTRAN connection within the DRNS.

This procedure shall use the signalling bearer connection for the relevant UE Context.

The Unsynchronised Radio Link Reconfiguration procedure shall not be initiated if a Prepared Reconfiguration exists, as defined in subclause 3.1.

# 8.3.7.2 Successful Operation

SRNC		NC
	RADIO LINK RECONFIGURATION REQUEST	
	RADIO LINK RECONFIGURATION RESPONSE	

# Figure 14: Unsynchronised Radio Link Reconfiguration procedure, Successful Operation

The Unsynchronised Radio Link Reconfiguration procedure is initiated by the SRNC by sending the RADIO LINK RECONFIGURATION REQUEST message to the DRNC.

Upon receipt, the DRNS shall modify the configuration of the Radio Link(s) according to the parameters given in the message. Unless specified below, the meaning of parameters is specified in other specifications.

If the RADIO LINK RECONFIGURATION REQUEST message includes the *Allowed Queuing Time* IE the DRNS may queue the request the time corresponding to the value of the *Allowed Queuing Time* IE before starting to execute the request.

The DRNS shall prioritise resource allocation for the RL to be modified according to Annex A.

If the *UE Aggregate Maximum Bit Rate* IE is contained in the RADIO LINK RECONFIGURATION REQUEST message, the DRNS shall, if supported, store the received UE Aggregate Maximum Bit Rate parameters to control the aggregate data rate of non GBR traffic for this UE.

#### **DCH Modification:**

If the RADIO LINK RECONFIGURATION REQUEST message includes any *DCHs To Modify* IEs, then the DRNS shall treat them as follows:

- If the *DCHs To Modify* IE includes multiple *DCH Specific Info* IEs, then the DRNS shall treat the DCHs as a set of co-ordinated DCHs. The DRNS shall include these DCHs in the new configuration only if it can include all of them in the new configuration.
- If the *DCHs To Modify* IE includes the *UL FP Mode* IE for a DCH or a set of co-ordinated DCHs to be modified, the DRNS shall apply the new FP Mode in the Uplink of the user plane for the DCH or the set of co-ordinated DCHs in the new configuration.
- If the *DCHs To Modify* IE includes the *ToAWS* IE for a DCH or a set of co-ordinated DCHs to be modified, the DRNS shall apply the new ToAWS in the user plane for the DCH or the set of co-ordinated DCHs in the new configuration.
- If the *DCHs To Modify* IE includes the *ToAWE* IE for a DCH or a set of co-ordinated DCHs to be modified, the DRNS shall apply the new ToAWE in the user plane for the DCH or the set of co-ordinated DCHs in the new configuration.
- If the *DCHs To Modify* IE contains a *DCH Specific Info* IE which includes a *Transport Format Set* IE for the UL of a DCH to be modified, the DRNS shall apply the new Transport Format Set in the Uplink of this DCH in the new configuration.
- If the *DCHs To Modify* IE contains a *DCH Specific Info* IE which includes a *Transport Format Set* IE for the DL of a DCH to be modified, the DRNS shall apply the new Transport Format Set in the Downlink of this DCH in the new configuration.
- If the *DCHs To Modify* IE contains a *DCH Specific Info* IE which includes the *Frame Handling Priority* IE, the DRNS should store this information for this DCH in the new configuration. The received Frame Handling Priority should be used when prioritising between different frames in the downlink on the radio interface in congestion situations within the DRNS once the new configuration has been activated.
- If the *DCH Specific Info* IE includes the *Traffic Class* IE, the DRNC may use this information to determine the transport bearer characteristics to apply between DRNC and Node B for the related DCH or set of co-ordinated DCHs. The DRNC should ignore the *Traffic Class* IE if the *TrCH Source Statistics Descriptor* IE for this DCH indicates the value "RRC".
- [FDD If the *DCHs to Modify* IE contains a *DCH Specific Info* IE which includes the *Unidirectional DCH indicator* IE set to "Uplink DCH only", the DRNS shall ignore the *Transport Format Set* IE for the downlink for this DCH. As a consequence this DCH is not included as a part of the downlink CCTrCH.]
- [FDD If the *DCHs to Modify* IE contains a *DCH Specific Info* IE which includes the *Unidirectional DCH indicator* IE set to "Downlink DCH only", the DRNS shall ignore the *Transport Format Set* IE for the uplink for this DCH. As a consequence this DCH is not included as a part of the uplink CCTrCH.]
- If the *TNL QoS* IE is included for a DCH or a set of co-ordinated DCHs and if ALCAP is not used, the DRNS may use this information to determine the transport bearer characteristics to apply for the uplink for the related DCH or set of co-ordinated DCHs.
- If the *DCHs To Modify* IE contains a *DCH Specific Info* IE which includes the *Allocation/Retention Priority* IE, the DRNS shall apply the new Allocation/Retention Priority to this DCH in the new configuration according to Annex A.
- [TDD If the *DCHs To Modify* IE contains a *DCH Specific Info* IE which includes the *CCTrCH ID* IE for the UL, the DRNS shall map the DCH onto the referenced UL CCTrCH in the new configuration.]
- [TDD If the *DCHs To Modify* IE contains a *DCH Specific Info* IE which includes the *CCTrCH ID* IE for the DL, the DRNS shall map the DCH onto the referenced DL CCTrCH in the new configuration.]
- If the *DCHs To Modify* IE contains a *DCH Specific Info* IE which includes the *Guaranteed Rate Information* IE, the DRNS shall treat the included IEs according to the following:

- If the *Guaranteed Rate Information* IE includes the *Guaranteed UL Rate* IE, the DRNS shall apply the new Guaranteed Rate in the uplink of this DCH in the new configuration. The DRNS may decide to request the SRNC to limit the user rate in the uplink of the DCH at any point in time after activating the new configuration. The DRNS may request the SRNC to reduce the user rate of the uplink of the DCH below the guaranteed bit rate, however, whenever possible the DRNS should request the SRNC to reduce the user rate between the maximum bit rate and the guaranteed bit rate.
- If the *Guaranteed Rate Information* IE includes the *Guaranteed DL Rate* IE, the DRNS shall apply the new Guaranteed Rate in the downlink of this DCH in the new configuration. The DRNS may decide to request the SRNC to limit the user in the downlink of the DCH at any point in time after activating the new configuration. The DRNS may request the SRNC to reduce the user rate of the downlink of the DCH below the guaranteed bit rate, however, whenever possible the DRNS should request the SRNC to reduce the user rate between the maximum bit rate and the guaranteed bit rate.

#### **DCH Addition:**

If the RADIO LINK RECONFIGURATION REQUEST message includes any *DCHs To Add* IEs, then the DRNS shall treat them each as follows:

- The DRNS shall reserve necessary resources for the new configuration of the Radio Link(s) according to the parameters given in the message and include these DCH in the new configuration.
- If the *DCHs To Add* IE includes multiple *DCH Specific Info* IEs then the DRNS shall treat the DCHs in the *DCHs To Add* IE as a set of co-ordinated DCHs. The DRNS shall include these DCHs in the new configuration only if all of them can be in the new configuration.
- If the *DCH Specific Info* IE includes the *Unidirectional DCH Indicator* IE set to "Uplink DCH only", the DRNS shall ignore the *Transport Format Set* IE for the downlink for this DCH. As a consequence this DCH is not included as a part of the downlink CCTrCH.
- If the *DCH Specific Info* IE includes the *Unidirectional DCH Indicator* IE set to "Downlink DCH only", the DRNS shall ignore the *Transport Format Set* IE for the uplink for this DCH. As a consequence this DCH is not included as a part of the uplink CCTrCH.
- [FDD For each DCH which does not belong to a set of co-ordinated DCHs, and which includes a *QE-Selector* IE set to "selected", the DRNS shall use the Transport channel BER from that DCH for the QE in the UL data frames. If no Transport channel BER is available for the selected DCH, the DRNS shall use the Physical channel BER for the QE, ref. TS 25.427 [4]. If the *QE-Selector* IE is set to "non-selected", the DRNS shall use the Physical channel BER for the QE in the UL data frames, ref. TS 25.427 [4].
- For a set of co-ordinated DCHs, the DRNS shall use the Transport channel BER from the DCH with the *QE-Selector* IE set to "selected" for the QE in the UL data frames, ref. TS 25.427 [4]. [FDD If no Transport channel BER is available for the selected DCH, the DRNS shall use the Physical channel BER for the QE, ref. TS 25.427 [4]. If all DCHs have the *QE-Selector* IE set to "non-selected", the DRNS shall use the Physical channel BER for the QE, ref. TS 25.427 [4].] [TDD If no Transport channel BER for the QE, ref. TS 25.427 [4].] [TDD If no Transport channel BER is available for the selected DCH, the DRNS shall use the Physical channel BER for the QE, ref. TS 25.427 [4].] [TDD If no Transport channel BER is available for the selected DCH, the DRNS shall use 0 for the QE, ref. TS 25.427 [4].]
- The DRNS should store the *Frame Handling Priority* IE received for a DCH to be added in the new configuration. The received Frame Handling Priority should be used when prioritising between different frames in the downlink on the Uu interface in congestion situations within the DRNS once the new configuration has been activated.
- The *Traffic Class* IE may be used to determine the transport bearer characteristics to apply between DRNC and Node B for the related DCH or set of co-ordinated DCHs. The DRNC should ignore the *Traffic Class* IE if the *TrCH Source Statistics Descriptor* IE indicates the value "RRC".
- If the *TNL QoS* IE is included for a DCH or a set of co-ordinated DCHs and if ALCAP is not used, the DRNS may use this information to determine the transport bearer characteristics to apply for the uplink for the related DCH or set of co-ordinated DCHs.
- The DRNS shall use the included *UL FP Mode* IE for a DCH or a set of co-ordinated DCHs to be added as the new FP Mode in the Uplink of the user plane for the DCH or the set of co-ordinated DCHs in the new configuration.

- The DRNS shall use the included *ToAWS* IE for a DCH or a set of co-ordinated DCHs to be added as the new Time of Arrival Window Startpoint in the user plane for the DCH or the set of co-ordinated DCHs in the new configuration.
- The DRNS shall use the included *ToAWE* IE for a DCH or a set of co-ordinated DCHs to be added as the new Time of Arrival Window Endpoint in the user plane for the DCH or the set of co-ordinated DCHs in the new configuration.
- If the *DCH Specific Info* IE includes the *Guaranteed Rate Information* IE, the DRNS shall treat the included IEs according to the following:
  - If the *Guaranteed Rate Information* IE includes the *Guaranteed UL Rate* IE, the DRNS shall apply the new Guaranteed Rate in the uplink of this DCH in the new configuration. The DRNS may decide to request the SRNC to limit the user rate of the uplink of the DCH at any point in time after activating the new configuration. The DRNS may request the SRNC to reduce the user rate of the uplink of the DCH below the guaranteed bit rate, however, whenever possible the DRNS should request the SRNC to reduce the user rate between the maximum bit rate and the guaranteed bit rate. If the *DCH Specific Info* IE in the *DCH Information* IE does not include the *Guaranteed UL Rate* IE, the DRNS shall not limit the user rate of the uplink of the DCH.
  - If the *Guaranteed Rate Information* IE includes the *Guaranteed DL Rate* IE, the DRNS shall apply the new Guaranteed Rate in the downlink of this DCH in the new configuration. The DRNS may decide to request the SRNC to limit the user rate of the downlink of the DCH at any point in time after activating the new configuration. The DRNS may request the SRNC to reduce the user rate of the downlink of the DCH below the guaranteed bit rate, however, whenever possible the DRNS should request the SRNC to reduce the user rate between the maximum bit rate and the guaranteed bit rate. If the *DCH Specific Info* IE in the *DCH Information* IE does not include the *Guaranteed DL Rate* IE, the DRNS shall not limit the user rate of the uplink of the DCH.

#### **DCH Deletion:**

If the RADIO LINK RECONFIGURATION REQUEST message includes any *DCHs To Delete* IEs, the DRNS shall not include the referenced DCHs in the new configuration.

If all of the DCHs belonging to a set of co-ordinated DCHs are requested to be deleted, the DRNS shall not include this set of co-ordinated DCHs in the new configuration.

#### [FDD – Physical Channel Modification:]

[FDD – If the RADIO LINK RECONFIGURATION REQUEST message includes an *UL DPCH Information* IE, then the DRNS shall apply the parameters to the new configuration as follows: ]

- [FDD If the *UL DPCH Information* IE includes the *TFCS* IE for the UL, the DRNS shall apply the new TFCS in the Uplink of the new configuration.]
- [FDD If the *UL DPCH Information* IE includes the *UL DPDCH Indicator For E-DCH Operation* IE set to "UL DPDCH not present", the UL DPDCH resources shall be removed from the configuration.]

[FDD – If the RADIO LINK RECONFIGURATION REQUEST message includes a *DL DPCH Information* IE, then the DRNS shall apply the parameters to the new configuration as follows:]

- [FDD If the *DL DPCH Information* IE includes the *TFCS* IE for the DL, the DRNS shall apply the new TFCS in the Downlink of the new configuration.]
- [FDD If the *DL DPCH Information* IE includes the *TFCI Signalling Mode* IE for the DL, the DRNS shall apply the new TFCI Signalling Mode in the Downlink of the new configuration.]
- [FDD If the *DL DPCH Information* IE includes the *Limited Power Increase* IE and the IE is set to "Used", the DRNS shall, if supported, use Limited Power Increase according to ref. TS 25.214 [10] subclause 5.2.1 for the inner loop DL power control in the new configuration.]
- [FDD If the *DL DPCH Information* IE includes the *Limited Power Increase* IE and the IE is set to "Not Used", the DRNS shall not use Limited Power Increase for the inner loop DL power control in the new configuration.]

[FDD – If the RADIO LINK RECONFIGURATION REQUEST message includes the *Transmission Gap Pattern Sequence Information* IE, the DRNS shall store the new information about the Transmission Gap Pattern Sequences to be used in the new Compressed Mode configuration. Any Transmission Gap Pattern Sequences already existing in the previous Compressed Mode Configuration are replaced by the new sequences once the new Compressed Mode Configuration has been activated. This new Compressed Mode Configuration shall be valid in the DRNS until the next Compressed Mode Configuration is configured in the DRNS or last Radio Link is deleted.]

[FDD – If the RADIO LINK RECONFIGURATION REQUEST message includes the *Transmission Gap Pattern* Sequence Information IE, and if the Downlink Compressed Mode Method in one or more Transmission Gap Pattern Sequence within the *Transmission Gap Pattern Sequence Information* IE is set to "SF/2", the DRNC shall include the DL Code Information IE in the RADIO LINK RECONFIGURATION RESPONSE message, without changing any of the DL Channelisation Codes or DL Scrambling Codes, indicating for each DL Channelisation Code whether the alternative scrambling code shall be used or not.]

[FDD – If the RADIO LINK RECONFIGURATION REQUEST message includes an *E-DPCH Information* IE which contains the *E-TFCS Information* IE, the DRNS shall use the *E-TFCS Information* IE for the E-DCH when reserving resources for the uplink of the new configuration. The DRNS shall apply the new TFCS in the uplink of the new configuration. If the *E-TFCS Information* IE contains the *E-DCH Minimum Set E-TFCI Validity Indicator* IE the DRNS shall ignore the value in *E-DCH Minimum Set E-TFCI* IE. If the *E-DCH Minimum Set E-TFCI Validity indicator* IE is absent DRNS shall use the value for the related resource allocation operation.]

[FDD – If the *E-TFCS Information* IE in the *E-DPCH Information* IE contains the *E-DPDCH Power Interpolation* IE, the DRNS shall use the value to determine the applicable E-DPDCH power formula defined in TS 25.214 [10]. If the *E-DPDCH Power Interpolation* IE is not present, the DRNS shall use the E-DPDCH power extrapolation formula defined in TS 25.214 [10] if the *E-DCH FDD Information* IE is included in the RADIO LINK RECONFIGURATION REQUEST message.]

FDD – If the *E-TFCS Information* IE in the *E-DPCH Information* IE contains the *E-TFCI Boost Information* IE, the DRNS shall use the information according to TS 25.214 [10]. If the *E-TFCI Boost Information* IE is not present, the DRNS shall use the value "127" in the algorithm defined in TS 25.214 [10] if the *E-DCH FDD Information* IE is included in the RADIO LINK RECONFIGURATION REQUEST message.]

[FDD – If the RADIO LINK RECONFIGURATION REQUEST includes an *E-DPCH Information* IE which contains the *E-DPCCH Power Offset* IE, the DRNS shall use the value when the new configuration is being used.]

[FDD – If the RADIO LINK RECONFIGURATION REQUEST includes an *E-DPCH Information* IE which contains the *E-RGCH 2-Index-Step* IE, the DRNS shall use the value when the new configuration is being used.]

[FDD – If the RADIO LINK RECONFIGURATION REQUEST includes an *E-DPCH Information* IE which contains the *E-RGCH 3-Index-Step* IE, the DRNS shall use the value when the new configuration is being used.]

[FDD – If the RADIO LINK RECONFIGURATION REQUEST includes an *E-DPCH Information* IE which contains the *HARQ Info for E-DCH* IE, the DRNS shall use the value when the new configuration is being used.]

[FDD – If the RADIO LINK RECONFIGURATION REQUEST includes an *E-DPCH Information* IE which contains the *Minimum Reduced E-DPDCH Gain Factor* IE, then the DRNS shall use the value to determine the applicable minimum gain factor ( $\beta_{ed,k,reduced,min}$ ) defined in TS 25.214 [10]. For the case the *Minimum Reduced E-DPDCH Gain Factor* IE is not available for the UE Context, the DRNS may use the default value defined in TS 25.331 [16].

[FDD – If the RADIO LINK RECONFIGURATION REQUEST message includes the *Continuous Packet Connectivity DTX-DRX Information* IE, then:]

- [FDD The DRNS shall configure the concerned UE Context for Continuous Packet Connectivity DTX operation according to TS 25.214 [10].]
- [FDD If *DRX Information* IE is included in the *Continuous Packet Connectivity DTX-DRX Information* IE, then the DRNS shall configure the concerned UE Context for Continuous Packet Connectivity DRX operation according to TS 25.214 [10].]

[FDD – If the RADIO LINK RECONFIGURATION REQUEST message includes the *Continuous Packet Connectivity* DTX-DRX Information To Modify IE, then:]

- [FDD – If the UE DTX DRX Offset IE is included in the Continuous Packet Connectivity DTX-DRX Information To Modify IE, then the DRNS shall apply the indicated Offset in UE DTX DRX Cycle IE in the new configuration.]

- [FDD If the *Enabling Delay* IE is included in the *Continuous Packet Connectivity DTX-DRX Information To Modify* IE, then the DRNS shall use this value to determine the beginning of uplink transmission in the new configuration according to TS 25.214 [10] .]
- [FDD If the *DTX Information To Modify* IE is included in the *Continuous Packet Connectivity DTX-DRX Information To Modify* IE, then the DRNS shall use this information to modify the indicated DTX Information parameter in the new configuration. If the choice of *DTX Information To Modify* IE is "Deactivate", then DRX should be deactived together with DTX.]
- [FDD If the DRX Information To Modify IE is included in the Continuous Packet Connectivity DTX-DRX Information To Modify IE, then the DRNS shall use this information to modify the indicated DRX Information in the new configuration.]

[FDD – If the RADIO LINK RECONFIGURATION REQUEST message includes the *Continuous Packet Connectivity HS-SCCH less Information* IE, then:]

- [FDD The DRNS shall configure the Serving HS-DSCH Radio Link indicated by the *HS-PDSCH RL ID* IE for Continuous Packet Connectiviy HS-SCCH less operation according to TS 25.214 [10].]
- [FDD The DRNS shall allocate the HS-PDSCH codes needed for HS-SCCH less operation and include the *Continuous Packet Connectivity HS-SCCH less Information Response* IE in the RADIO LINK RECONFIGURATION RESPONSE message.]
- [FDD If at least one of *HS-PDSCH Second Code Support* IE is set to "True", then the DRNC shall include *HS-PDSCH Second Code Index* IE in the RADIO LINK RECONFIGURATION RESPONSE message.]

[FDD- If the RADIO LINK RECONFIGURATION REQUEST message includes the *Continuous Packet Connectivity HS-SCCH less Deactivate Indicator* IE, then the DRNS shall deactive the Continuous Packet Connectivity HS-SCCH less operation for the HS-DSCH Radio Link.]

[1.28 Mcps TDD – If the RADIO LINK RECONFIGURATION REQUEST message includes the *Continuous Packet Connectivity DRX Information LCR* IE, then the DRNS shall take account into these parameters to decide the DRX operation related parameters and configure the concerned UE Context for DRX operation according to TS 25.213 [21] and include the parameter(s) in the *Continuous Packet Connectivity DRX Information Response LCR* IE in the RADIO LINK RECONFIGURATION RESPONSE message.]

[1.28 Mcps TDD - If the *Inactivity Threshold for UE DRX Cycle Ext* IE is included in the *Continuous Packet Connectivity DRX Information LCR* IE, then the DRNS may use this value to determine the Inactivity Threshold for UE DRX Cycle according to TS 25.224 [22].]

[1.28 Mcps TDD – If the RADIO LINK RECONFIGURATION REQUEST message includes the *Continuous Packet Connectivity DRX Information To Modify LCR* IE, then:]

- [1.28 Mcps TDD If the UE DTX DRX Offset IE is included in the Continuous Packet Connectivity DRX Information To Modify LCR IE, then the DRNS shall apply the indicated Offset in UE DTX DRX Cycle IE in the new configuration.]
- [1.28 Mcps TDD If the *Enabling Delay* IE is included in the *Continuous Packet Connectivity DRX Information To Modify LCR* IE, then the DRNS shall use this value to determine the beginning of uplink transmission in the new configuration according to TS 25.213 [21].]
- [1.28 Mcps TDD If the *DRX Information To Modify* IE is included in the *Continuous Packet Connectivity DRX Information To Modify LCR* IE, then the DRNS shall use this information to modify the indicated DRX Information in the new configuration.]

[1.28 Mcps TDD – If the RADIO LINK RECONFIGURATION REQUEST message includes the HS-DSCH Semi-Persistent scheduling Information LCR IE, then:]

- [1.28 Mcps TDD The DRNS shall configure the Serving HS-DSCH Radio Link indicated by the *HS-PDSCH RL ID* IE for HS-DSCH Semi-Persistent scheduling operation according to TS 25.213 [21].]
- [1.28 Mcps TDD The DRNS shall allocate the HS-SICH information needed for HS-DSCH Semi-Persistent scheduling operation and include the *HS-DSCH Semi-Persistent scheduling Information Response LCR* IE in the RADIO LINK RECONFIGURATION RESPONSE message.]

 [1.28 Mcps TDD – If the HS-DSCH Semi-Persistent Resource Reservation Indicator IE is included in the HS-DSCH Semi-Persistent scheduling Information LCR IE, then the DRNS shall include Allcoated HS-PDSCH Semi-persistent resource IE in the RADIO LINK RECONFIGURATION RESPONSE message.]

[1.28 Mcps TDD – If the RADIO LINK RECONFIGURATION REQUEST message includes the *E-DCH Semi-Persistent scheduling Information LCR* IE, then:]

- [1.28 Mcps TDD The DRNS shall configure the Serving E-DCH Radio Link indicated by the *E-DCH Serving RL* IE for E-DCH Semi-Persistent scheduling operation according to TS 25.213 [21].]
- [1.28 Mcps TDD If the *E-DCH Semi-Persistent Resource Reservation Indicator* IE is included in the *E-DCH Semi-Persistent scheduling Information LCR* IE, then the DRNS shall include *Allocated E-DCH Semi-persistent resource* IE in the RADIO LINK RECONFIGURATION RESPONSE message.]

[1.28 Mcps TDD – If the RADIO LINK RECONFIGURATION REQUEST message includes the HS-DSCH Semi-Persistent scheduling Information to modify LCR IE, then:]

- [1.28 Mcps TDD If the *Transport Block Size List* IE or/and *Repetition Period list* IE is/are included in the *HS*-DSCH Semi-Persistent scheduling Information to modify LCR IE, the DRNS shall modify the configuration of Serving HS-DSCH Radio Link indicated by the *HS*-PDSCH RL ID IE for HS-DSCH Semi-Persistent scheduling operation according to TS 25.213 [21].
- [1.28 Mcps TDD The DRNS shall allocate the HS-SICH information needed for HS-DSCH Semi-Persistent scheduling operation and include the *HS-DSCH Semi-Persistent scheduling Information Response LCR* IE in the RADIO LINK RECONFIGURATION RESPONSE message.]
- [1.28 Mcps TDD If the HS-DSCH Semi-Persistent Resource Reservation Indicator IE is included in the HS-DSCH Semi-Persistent scheduling Information to modify LCR IE, then the DRNS shall include Allcoated HS-PDSCH Semi-persistent resource IE in the RADIO LINK RECONFIGURATION RESPONSE message.]
- [1.28 Mcps TDD If the HS-DSCH Semi-Persistent scheduling operation Indicator IE is included in the HS-DSCH Semi-Persistent scheduling Information to modify LCR IE, then the DRNS shall apply this information for HS-DSCH Semi-Persistent scheduling operation.]
- [1.28 Mcps TDD If the buffer size for HS-DSCH Semi-Persistent scheduling needs to be modified, then the DRNS shall include the *Buffer Size for HS-DSCH Semi-Persistent scheduling* IE in the RADIO LINK RECONFIGURATION RESPONSE message.]
- [1.28 Mcps TDD If the number of processes for HS-DSCH Semi-Persistent scheduling needs to be modified, then the DRNS shall include the *Number of Processes for HS-DSCH Semi-Persistent scheduling* IE in the RADIO LINK RECONFIGURATION RESPONSE message.]

[1.28 Mcps TDD – If the RADIO LINK RECONFIGURATION RQUEST message includes the *E-DCH Semi-Persistent scheduling Information to modify LCR* IE, then:]

- [1.28 Mcps TDD If the *Repetition Period list* IE is included in the *E-DCH Semi-Persistent scheduling Information to modify LCR* IE, the DRNS shall modify the configuration of Serving HS-DSCH Radio Link indicated by the *E-DCH Serving RL* IE for E-DCH Semi-Persistent scheduling operation according to TS 25.213 [21].
- [1.28 Mcps TDD If the *E-DCH Semi-Persistent scheduling Indicator* IE is included in the *E-DCH Semi-Persistent scheduling Information to modify LCR* IE, then the DRNS shall apply this information for E-DCH Semi-Persistent scheduling operation.]
- [1.28 Mcps TDD If the *E-DCH Semi-Persistent Resource Reservation Indicator* IE is included in the *E-DCH Semi-Persistent scheduling Information to modify LCR* IE, then the DRNS shall include *Allocated E-DCH Semi-persistent resource* IE in the RADIO LINK RECONFIGURATION RESPONSE message.]

[1.28 Mcps TDD – If the RADIO LINK RECONFIGURATION REQUEST message includes the *HS-DSCH Semi-Persistent scheduling Deactivate Indicator LCR* IE, then the DRNS shall deactivate the HS-DSCH Semi-Persistent scheduling operation for the HS-DSCH Radio Link.]

[1.28 Mcps TDD – If the RADIO LINK RECONFIGURATION REQUEST message includes the *E-DCH Semi-Persistent scheduling Deactivate Indicator LCR* IE, then the DRNS shall deactivate the E-DCH Semi-Persistent scheduling operation for the E-DCH Radio Link.]

# [TDD – UL/DL CCTrCH Modification]

[TDD – If the RADIO LINK RECONFIGURATION REQUEST message includes any *UL CCTrCH To Modify* IE or *DL CCTrCH To Modify* IE, the DRNS shall reserve necessary resources for the new configuration of the Radio Link(s) according to the parameters given in the message.]

[TDD – If the RADIO LINK RECONFIGURATION REQUEST message includes any *UL CCTrCH Information To Modify* IEs or *DL CCTrCH Information To Modify* IEs which contain a *TFCS* IE, the DRNS shall apply the included *TFCS* IE as the new value(s) to the referenced CCTrCH. Otherwise the DRNS shall continue to apply the previous value(s) specified for this CCTrCH.]

[1.28Mcps TDD – If the *UL CCTrCH To Modify* IE includes *UL SIR Target* IE, the DRNS shall apply this value as the new configuration and use it for the UL inner loop power control according TS 25.221 [12] and TS 25.224 [22].]

# [TDD – UL/DL CCTrCH Deletion]

[TDD – If the RADIO LINK RECONFIGURATION REQUEST message includes any *UL CCTrCH Information To Delete* IEs or *DL CCTrCH Information To Delete* IEs, the DRNS shall not include the referenced CCTrCH in the new configuration.]

# **DL Power Control:**

[FDD – If the RADIO LINK RECONFIGURATION REQUEST message includes the *DL Reference Power Information* IE and the power balancing is active, the DRNS shall update the reference power of the power balancing in the indicated RL(s), if updating of power balancing parameters by the RADIO LINK RECONFIGURATION REQUEST message is supported, using the *DL Reference Power Information* IE in the RADIO LINK RECONFIGURATION REQUEST message. The updated reference power shall be used from the next adjustment period.]

[FDD – If updating of power balancing parameters by the RADIO LINK RECONFIGURATION REQUEST message is supported by the DRNS, the DRNC shall include the *DL Power Balancing Updated Indicator* IE in the *RL Information Response* IE for each affected RL in the RADIO LINK RECONFIGURATION RESPONSE message.]

# [1.28Mcps TDD – Uplink Synchronisation Parameters LCR:]

[1.28Mcps TDD – If the *Uplink Synchronisation Parameters LCR* IE is present, the DRNC shall use the indicated values of *Uplink synchronisation stepsize* IE and *Uplink synchronisation frequency* IE when evaluating the timing of the UL synchronisation.]

# [1.28Mcps TDD – Shared physical channels Synchronisation Detection:]

[1.28Mcps TDD – If HS-PDSCH and E-PUCH are configured but no DPCH is configured for the UE, then the DRNS shall include the *Out-of-sync Detection Window* IE in the *HS-DSCH TDD Information Response* IE in the RADIO LINK RECONFIGURATION RESPONSE message.]

# [1.28Mcps TDD – Uplink Timing Advance Control LCR:]

[1.28Mcps TDD – The DRNC shall include the *Uplink Timing Advance Control LCR* IE in the RADIO LINK RECONFIGURATION RESPONSE message, if the Uplink Timing Advance Control parameters have been changed.]

# [1.28Mcps TDD – PowerControl GAP:]

[1.28Mcps TDD – If applied in the DRNS, the DRNC may include the *PowerControl GAP* IE in the RADIO LINK RECONFIGURATION RESPONSE message.]

# [1.28Mcps TDD – E-UTRAN Inter-RAT measurement:]

[1.28Mcps TDD – If the RADIO LINK RECONFIGURATION REQUEST message includes the *Need for Idle Interval* IE set to "TRUE", if supported, the DRNC shall include the *Idle Interval Information* IE in the RADIO LINK RECONFIGURATION RESPONSE message. If the *Need for Idle Interval* IE is set to "FALSE", the DRNC shall delete the configuration related to E-UTRAN Inter-RAT measurement ]

# [1.28Mcps TDD – Inter-frequency/ Inter-RAT measurement:]

[1.28Mcps TDD – If the RADIO LINK RECONFIGURATION REQUESTmessage includes the *DCH Measurement Type indicator* IE, if supported, the DRNS shall include the *Measurement purpose* IE and the *Measurement occasion* 

*pattern sequence parameters* IE in the *DCH Measurement Occasion Information* IE in the RADIO LINK RECONFIGURATION RESPONSE message to configure the measurement occasion pattern(s) indicated by the *DCH Measurement Type indicator* IE.]

## [1.28Mcps TDD – RNTI Allocation Indicator:]

[1.28Mcps TDD – If the RADIO LINK RECONFIGURATION REQUEST message includes the *RNTI Allocation Indicator* IE, if supported, the DRNS may allocate an E-RNTI and/or an H-RNTI for UE to use in CELL\_FACH state.]

## **RL Information:**

[FDD. If the UE Context is configured for F-DPCH Slot Format operation, the DRNS shall include the *F-DPCH Slot Format* IE in the RADIO LINK RECONFIGURATION RESPONSE message.]

## **HS-DSCH Setup:**

If the HS-DSCH Information IE is present in the RADIO LINK RECONFIGURATION REQUEST message, then:

- The DRNS shall setup the requested HS-PDSCH resources on the Serving HS-DSCH Radio Link indicated by the *HS-PDSCH RL ID* IE.
- The DRNC shall include the HARQ Memory Partitioning IE in the [FDD HS-DSCH FDD Information Response IE] [TDD – HS-DSCH TDD Information Response IE] in the RADIO LINK RECONFIGURATION RESPONSE message. [FDD – The HARQ Memory Partitioning IE shall either contain the HARQ Memory Partitioning Information Extension For MIMO IE or the Number of Processes IE set to a value higher than "8", if the MIMO Activation Indicator IE is included in the HS-DSCH Information IE.] [1.28Mcps TDD– The HARQ Memory Partitioning IE shall either contain the HARQ Memory Partitioning Information Extension For MIMO IE or the Number of Processes IE set to a value higher than "8", if the MIMO Activation Indicator IE is included in the HS-DSCH Information IE.]
- The DRNC shall allocate an HS-DSCH-RNTI to the UE Context and include the *HS-DSCH-RNTI* IE in the RADIO LINK RECONFIGURATION RESPONSE message.
- The DRNS may use the *Traffic Class* IE for a specific HS-DSCH MAC-d flow to determine the transport bearer characteristics to apply between DRNC and Node B. If *TrCH Source Statistics Descriptor* IE is present with the value "RRC" in the *HS-DSCH MAC-d Flows Information* IE, then the DRNC should ignore the *Traffic Class* IE.
- If the *TNL QoS* IE is included for a MAC-d flow and if ALCAP is not used, the *TNL QoS* IE may be used by the DRNS to determine the transport bearer characteristics to apply in the uplink between the DRNS and the SRNC for the related MAC-d flow.
- If fields are to be included in the User Plane by the SRNC to handle TNL Congestion Control for HSDPA in the DRNS, then the DRNC shall include the *User Plane Congestion Fields Inclusion* IE in the *HS-DSCH Information Response* IE.
- If the RADIO LINK RECONFIGURATION REQUEST message includes the *MAC-hs Guaranteed Bit Rate* IE for a Priority Queue in the *HS-DSCH MAC-d Flows Information* IE in the *HS-DSCH Information* IE, then the DRNS shall use this information to optimise MAC-hs scheduling decisions for the related HSDPA Priority Queue.
- If the RADIO LINK RECONFIGURATION REQUEST message includes the *Discard Timer* IE for a Priority Queue in the *HS-DSCH MAC-d Flows Information* IE in the *HS-DSCH Information* IE, then the DRNS shall use this information to discard out-of-date MAC-hs SDUs from the related HSDPA Priority Queue.
- If the RADIO LINK RECONFIGURATION REQUEST message includes the *Maximum MAC-d PDU Size Extended* IE for a Priority Queue in the *HS-DSCH MAC-d Flows Information* IE in the *HS-DSCH Information* IE, then the DRNS shall ignore the *SID* IE and *MAC-d PDU Size* IE in the *MAC-d PDU Size Index* IE and use *Maximum MAC-d PDU Size Extended* IE to optimise capacity allocation for the related HSDPA Priority Queue.
- The DRNC shall include the HS-DSCH Initial Capacity Allocation IE in the [FDD HS-DSCH FDD Information Response IE] [TDD – HS-DSCH TDD Information Response IE] in the RADIO LINK RECONFIGURATION RESPONSE message for every HS-DSCH MAC-d flow being established, if the DRNS allows the SRNC to start transmission of MAC-d PDUs before the DRNS has allocated capacity on user plane as described in TS 25.425 [32]. If RADIO LINK RECONFIGURATION REQUEST message includes HS-

DSCH MAC-d PDU Size Format IE in the HS-DSCH Information IE set to "Flexible MAC-d PDU Size", then DRNC shall only set in the HS-DSCH Initial Capacity Allocation IE the values for the peer of Scheduling Priority Indicator IE and Maximum MAC-d PDU Size Extended IE to the values of the corresponding peer I in RADIO LINK RECONFIGURATION REQUEST in the HS-DSCH MAC-d Flows Information IE in the HS-DSCH Information IE for a Priority Queue including Scheduling Priority Indicator IE and Maximum MAC-d PDU Size Extended IE.

- [FDD If the RADIO LINK RECONFIGURATION REQUEST message includes the HS-SCCH Power Offset IE in the HS-DSCH Information IE, then the DRNS may use this value to determine the HS-SCCH power. The HS-SCCH Power Offset should be applied for any HS-SCCH transmission to this UE.]
- [FDD The DRNS shall allocate HS-SCCH codes corresponding to the HS-DSCH and the DRNC shall include the *HS-SCCH Specific Information Response* IE in the *HS-DSCH FDD Information Response* IE in the RADIO LINK RECONFIGURATION RESPONSE message.]
- [TDD The DRNS shall allocate HS-SCCH parameters corresponding to the HS-DSCH and the DRNC shall include the [3.84Mcps TDD HS-SCCH Specific Information Response IE] [1.28Mcps TDD HS-SCCH Specific Information Response LCR IE] [7.68Mcps TDD HS-SCCH Specific Information Response 7.68Mcps IE] in the HS-DSCH TDD Information Response IE in the RADIO LINK RECONFIGURATION RESPONSE message.]
- [FDD The DRNC shall include the *HS-PDSCH And HS-SCCH Scrambling Code* IE in the *HS-DSCH FDD* Information Response IE in the RADIO LINK RECONFIGURATION RESPONSE message.]
- [FDD If the RADIO LINK RECONFIGURATION REQUEST message includes the HARQ Preamble Mode IE in the HS-DSCH Information IE, then the DRNS shall use the indicated HARQ Preamble Mode as described in TS 25.214 [10], if HS-DPCCH ACK/NACK preamble and postamble is supported. Then, in this case, if the mode 1 is applied, the DRNC shall include the HARQ Preamble Mode Activation Indicator IE in the HS-DSCH Information Response IE in the RADIO LINK RECONFIGURATION RESPONSE message. If the HARQ Preamble Mode IE is not included or if the mode 0 is applied, then the DRNC shall not include the HARQ Preamble Mode Activation Indicator IE in the HS-DSCH Information Response IE in the RADIO LINK RECONFIGURATION RESPONSE message.]
- If the RADIO LINK RECONFIGURATION REQUEST message includes the *HS-DSCH MAC-d PDU Size Format* IE in the *HS-DSCH Information* IE, then the DRNS shall use the indicated format in user plane frame structure for HS-DSCH channels TS 25.425 [32] and MAC-hs TS 25.321 [41].
- [FDD The DRNC shall include the *Measurement Power Offset* IE in the *HS-DSCH Information Response* IE in the RADIO LINK RECONFIGURATION RESPONSE message.]
- [FDD If the MIMO Activation Indicator IE is included in the HS-DSCH FDD Information IE, then]
  - [FDD The DRNS shall activate the MIMO mode for the HS-DSCH Radio Link.]
  - [FDD The DRNS shall decide the pilot configuration and the UE reporting configuration (N/M ratio) according to TS 25.214 [10] for MIMO and include the *MIMO Information Response* IE in the *HS-DSCH FDD Information Response* IE in the RADIO LINK RECONFIGURATION RESPONSE message.]
  - [FDD If the Power Offset For S-CPICH for MIMO Request Indicator IE is included, the DRNC shall, if supported and MIMO pilot configuration with Primary and Secondary CPICH is set up with a non-zero power offset on the cell where the Serving HS-DSCH Radio Link is established, include the Power Offset For S-CPICH for MIMO IE in the HS-DSCH FDD Information Response IE in the RADIO LINK RECONFIGURATION RESPONSE message. If zero power offset the DRNC may include the Power Offset For S-CPICH for MIMO IE.]
- [1.28 Mcps TDD If the MIMO Activation Indicator IE is included in the HS-DSCH TDD Information IE, then]
  - [1.28 Mcps TDD The DRNS shall activate the MIMO mode for the HS-DSCH Radio Link.]
  - [1.28 Mcps TDD The DRNS shall decide the SF mode for HS-PDSCH dual stream and include the MIMO SF Mode for HS-PDSCH dual stream IE in the HS-DSCH TDD Information Response IE in the RADIO LINK RECONFIGURATION RESPONSE message.]
- [FDD If the *Sixtyfour QAM Usage Allowed Indicator* IE is included in the *HS-DSCH FDD Information* IE, then the DRNS may if the value is set to "allowed" use 64 QAM for the HS-DSCH Radio Link, and the DRNS

shall include the *SixtyfourQAM DL Usage Indicator* IE in the *HS-DSCH FDD Information Response* IE in the RADIO LINK RECONFIGURATION RESPONSE message.]

- [FDD If the *Sixtyfour QAM Usage Allowed Indicator* IE is included in the *HS-DSCH FDD Information* IE with value set to "not allowed", then the DRNS shall not use 64 QAM for the HS-DSCH Radio Link.]
- [FDD If the RADIO LINK RECONFIGURATION REQUEST message includes the HS-DSCH MAC-d PDU Size Format IE set to "Flexible MAC-d PDU Size" and if Sixtyfour QAM will not be used, the DRNS shall include the HS-DSCH TB Size Table Indicator IE in the HS-DSCH FDD Information Response IE in the RADIO LINK RECONFIGURATION RESPONSE message if it decides to use the octet aligned table defined in TS 25.321 [41] for HS-DSCH Transport Block Size signalling.]
- [FDD If the *UE with enhanced HS-SCCH support indicator* IE is included in the *HS-DSCH FDD Information* IE, then the DRNS may use:]
  - [FDD a different HS-SCCH in consecutive TTIs for this UE]
  - [FDD HS-SCCH orders for the case of HS-SCCH-less operation to this UE]
- [FDD If the UE Support Indicator Extension IE is included in the HS-DSCH FDD Information IE the DRNS may use the supported HSDPA functions for this UE.]
- [FDD If the UE Support Indicator Extension IE is included in the HS-DSCH FDD Information IE with the bit UE DTXDRX related HS-SCCH orders uniform behavior indicator set to 0, then the DRNS shall, if supported, include the Support of dynamic DTXDRX related HS-SCCH order IE in the HS-DSCH FDD Information Response IE in the RADIO LINK RECONFIGURATION RESPONSE message.]
- [FDD If secondary serving HS-DSCH is applied also in the new configuration, then any changes related to parameters that are common for both the serving and the secondary serving HS-DSCH should be applied also for the secondary serving HS-DSCH.]
- If the RADIO LINK RECONFIGURATION REQUEST message includes *DL RLC PDU Size Format* IE for a Priority Queue in the *HS-DSCH MAC-d Flows Information* IE in the *HS-DSCH Information* IE, the *DL RLC PDU Size Format* IE may be used by the DRNS to determine the allocated capacity on user plane as described in TS 25.425 [32].
- [FDD If the RADIO LINK RECONFIGURATION REQUEST message includes the *UE Aggregate Maximum Bit Rate Enforcement Indicator* IE in the *Priority Queue Information* IE in the *HS-DSCH MAC-d Flows Information* IE in the *HS-DSCH Information* IE, the DRNS shall, if supported, consider the data of the related HSDPA Priority Queue for UE Aggregate Maximum Bit Rate Enforcement.]
- [FDD If the *Single Stream MIMO Activation Indicator* IE is included in the *HS-DSCH FDD Information* IE, then the DRNS shall activate the Single Stream MIMO for the HS-DSCH Radio Link.]
- [1.28 Mcps TDD If the *UE TSO Capability LCR* IE is included in the *HS-DSCH TDD Information* IE, then the DRNC may include the *TSO HS-PDSCH Indication LCR* IE in the RADIO LINK RECONFIGURATION RESPONSE message if HS-PDSCH resources could be allocated on TS0 for the UE.]

# [FDD – Secondary Serving HS-DSCH Setup:]

[FDD – If the C-ID IE is present in the RADIO LINK RECONFIGURATION REQUEST message, then:]

- [FDD The DRNS shall setup the requested HS-PDSCH resources on the secondary serving HS-DSCH Radio Link indicated by the *HS-PDSCH RL ID* IE. Non cell specific secondary serving Radio Link and non cell specific secondary serving HS-DSCH parameters take the same values as for the serving HS-DSCH cell.]
- [FDD The DRNC shall allocate an HS-DSCH-RNTI to the UE Context and include the HS-DSCH-RNTI IE in the Additional HS Cell Information Response IE in the RADIO LINK RECONFIGURATION RESPONSE message.]
- [FDD If the RADIO LINK RECONFIGURATION REQUEST message includes the *HS-SCCH Power Offset* IE in the *HS-DSCH FDD Secondary Serving Information* IE, then the DRNS may use this value to determine the HS-SCCH power. The HS-SCCH Power Offset should be applied for any secondary serving HS-SCCH transmission to this UE.]

- [FDD The DRNS shall allocate HS-SCCH codes corresponding to the secondary serving HS-DSCH and the DRNC shall include the HS-SCCH Specific Secondary Serving Information Response IE in the HS-DSCH FDD Secondary Serving Information Response IE in the Additional HS Cell Information Response IE in the RADIO LINK RECONFIGURATION RESPONSE message.]
- [FDD The DRNC shall include the *HS-PDSCH And HS-SCCH Scrambling Code* IE in the HS-*DSCH FDD* Secondary Serving Information Response IE in the Additional HS Cell Information Response IE in the RADIO LINK RECONFIGURATION RESPONSE message.]
- [FDD The DRNC shall include the *Measurement Power Offset* IE in the *HS-DSCH FDD Secondary Serving Information Response* IE in the *Additional HS Cell Information Response* IE in the RADIO LINK RECONFIGURATION RESPONSE message.]
- [FDD If the *MIMO Activation Indicator* IE is included in the *HS-DSCH FDD Secondary Serving Information* IE, then the DRNS shall activate the MIMO mode for the secondary serving HS-DSCH Radio Link and the DRNS shall decide the pilot configuration and the UE reporting configuration (N/M ratio) according to TS 25.214 [10] for MIMO and include the *MIMO Information Response* IE in the *HS-DSCH FDD Secondary Serving Information Response* IE in the *Additional HS Cell Information Response* IE in the RADIO LINK RECONFIGURATION RESPONSE message.]
- [FDD If the Power Offset For S-CPICH for MIMO Request Indicator IE is included, the DRNC shall, if supported and MIMO pilot configuration with Primary and Secondary CPICH is set up with a non-zero power offset on the cell where the Secondary Serving HS-DSCH Radio Link is established, include the Power Offset For S-CPICH for MIMO IE in the HS-DSCH FDD Secondary Serving Information Response IE in the RADIO LINK RECONFIGURATION RESPONSE message. If zero power offset the DRNC may include the Power Offset For S-CPICH for MIMO IE.]
- [FDD If the *Single Stream MIMO Activation Indicator* IE is included in the *HS-DSCH FDD Secondary Serving Information* IE, then the DRNS shall activate the Single Stream MIMO mode for the secondary serving HS-DSCH Radio Link.]
- [FDD If the Sixtyfour QAM Usage Allowed Indicator IE is included in the HS-DSCH FDD Secondary Serving Information IE, then the DRNS may if the value is set to "allowed" use 64 QAM for the secondary serving HS-DSCH Radio Link, and the DRNS shall include the SixtyfourQAM DL Usage Indicator IE in the HS-DSCH FDD Secondary Serving Information Response IE in the Additional HS Cell Information Response IE in the RADIO LINK RECONFIGURATION RESPONSE message.]
- [FDD If the *Sixtyfour QAM Usage Allowed Indicator* IE is included in the *HS-DSCH FDD Secondary Serving Information* IE with value set to "not allowed", then the DRNS shall not use 64 QAM for the secondary serving HS-DSCH Radio Link.]
- [FDD If, in the new configuration, the UE context is configured not to use Sixtyfour QAM for the secondary serving HS-DSCH, the DRNS shall include the *HS-DSCH TB Size Table Indicator* IE in the *HS-DSCH FDD Secondary Serving Information Response* IE in the *Additional HS Cell Information Response* IE in the RADIO LINK RECONFIGURATION RESPONSE message if it decides to use the octet aligned table defined in TS 25.321 [41] for secondary serving HS-DSCH Transport Block Size signalling.]

### Intra-DRNS Serving HS-DSCH Radio Link Change:

If the RADIO LINK RECONFIGURATION REQUEST message includes the *HS-PDSCH RL ID* IE, this indicates the new Serving HS-DSCH Radio Link:

- The DRNS shall release the HS-PDSCH resources on the old Serving HS-DSCH Radio Link and setup the HS-PDSCH resources on the new Serving HS-DSCH Radio Link.
- If fields are to be included in the User Plane by the SRNC to handle TNL Congestion Control for HSDPA in the DRNS, then the DRNC shall include the *User Plane Congestion Fields Inclusion* IE in the *HS-DSCH Information Response* IE.
- The DRNC may include the *HARQ Memory Partitioning* IE in the [FDD *HS-DSCH FDD Information Response* IE] [TDD – *HS-DSCH TDD Information Response* IE] in the RADIO LINK RECONFIGURATION RESPONSE message. [FDD – The *HARQ Memory Partitioning* IE may contain the *HARQ Memory Partitioning Information Extension For MIMO* IE.] [1.28Mcps TDD– The *HARQ Memory Partitioning* IE may contain the *HARQ Memory Partitioning Information Extension For MIMO* IE.]

- The DRNC shall allocate a new HS-DSCH-RNTI to the UE Context and include the *HS-DSCH-RNTI* IE in the RADIO LINK RECONFIGURATION RESPONSE message.
- If a reset of the MAC-hs is not required the DRNS shall include the *MAC-hs Reset Indicator* IE in the RADIO LINK RECONFIGURATION RESPONSE message.
- [FDD The DRNC shall include the *Measurement Power Offset* IE in the *HS-DSCH Information Response* IE in the RADIO LINK RECONFIGURATION RESPONSE message.]
- [FDD The DRNS shall allocate HS-SCCH codes corresponding to the HS-DSCH and the DRNC shall include the *HS-SCCH Specific Information Response* IE in the *HS-DSCH FDD Information Response* IE in the RADIO LINK RECONFIGURATION RESPONSE message.]
- [TDD The DRNS shall allocate HS-SCCH parameters corresponding to the HS-DSCH and the DRNC shall include the [3.84Mcps TDD HS-SCCH Specific Information Response IE] [1.28Mcps TDD HS-SCCH Specific Information Response LCR IE] [7.68 Mcps TDD HS-SCCH Specific Information Response 7.68 Mcps IE] in the HS-DSCH TDD Information Response IE in the RADIO LINK RECONFIGURATION RESPONSE message.]
- [TDD The DRNC shall include the [3.84 Mcps TDD HS-PDSCH Timeslot Specific Information IE] [1.28 Mcps TDD HS-PDSCH Timeslot Specific Information LCR IE] [7.68 Mcps TDD HS-PDSCH Timeslot Specific Information 7.68 Mcps IE] in the HS-DSCH Information Response IE in the RADIO LINK RECONFIGURATION RESPONSE message.]
- [FDD The DRNC shall include the *HS-PDSCH And HS-SCCH Scrambling Code* IE in the *HS-DSCH FDD* Information Response IE in the RADIO LINK RECONFIGURATION RESPONSE message.]
- The DRNC may include the *Transport Layer Address* IE and the *Binding ID* IE for HS-DSCH MAC-d flow in the [FDD HS-DSCH FDD Information Response IE] [TDD HS-DSCH TDD Information Response IE] in the RADIO LINK RECONFIGURATION RESPONSE message.
- If the *TNL QoS* IE is included for a MAC-d flow and if ALCAP is not used, the *TNL QoS* IE may be used by the DRNS to determine the transport bearer characteristics to apply in the uplink between the DRNS and the SRNC for the related MAC-d flow.
- [FDD If the *Sixtyfour QAM Usage Allowed Indicator* IE is included in the *HS-DSCH Information To Modify Unsynchronised* IE and the value is set to "allowed" or if *HS-DSCH Information To Modify Unsynchronized* IE is not included and the UE Context is configured with Sixtyfour QAM allowed for the serving HS-DSCH Radio Link and not used in the current configuration and then if the DRNS decides to use 64 QAM in the new configuration, then it shall include the *SixtyfourQAM DL Usage Indicator* IE in the *HS-DSCH FDD Information Response* IE in the RADIO LINK RECONFIGURATION RESPONSE message.]
- [FDD If MAC-ehs is applied in the new configuration, and if Sixtyfour QAM will not be used, the DRNS shall
  include the *HS-DSCH TB Size Table Indicator* IE in the *HS-DSCH FDD Information Response* IE in the RADIO
  LINK RECONFIGURATION RESPONSE message if it decides to use the octet aligned table defined in TS
  25.321 [41] for HS-DSCH Transport Block Size signalling.]
- [FDD If the power offset for S-CPICH for MIMO Request indicator and MIMO activation indicator have been configured in the new configuration and MIMO pilot configuration with Primary and Secondary CPICH is set up with a non-zero power offset on the cell where the Serving HS-DSCH Radio Link is established, the DRNC shall include the *Power Offset For S-CPICH for MIMO* IE in the *HS-DSCH FDD Information Response* IE in the RADIO LINK RECONFIGURATION RESPONSE message. If zero power offset the DRNC may include the *Power Offset For S-CPICH for MIMO* IE.]

# [FDD – Intra-DRNS Secondary Serving HS-DSCH Radio Link Change:]

[FDD – If the RADIO LINK RECONFIGURATION REQUEST message includes the *C-ID* IE in the *Additional HS Cell Information RL Reconf Req* IE and the secondary serving HS-DSCH Radio Link has been configured in the DRNS, the *HS-PDSCH RL ID* IE indicates the new Serving HS-DSCH Radio Link:]

- [FDD – The DRNS shall release the HS-PDSCH resources on the old secondary serving HS-DSCH Radio Link and setup the HS-PDSCH resources on the new secondary serving HS-DSCH Radio Link. The DRNS shall remove the old secondary serving HS-PDSCH Radio Link if no E-DCH resources are allocated to the RL. Non cell specific secondary serving Radio Link and non cell specific secondary serving HS-DSCH parameters take the same values as for the serving HS-DSCH cell.]

- [FDD The DRNC shall allocate a new HS-DSCH-RNTI to the UE Context and include the HS-DSCH-RNTI IE in the Additional HS Cell Information Response IE in the RADIO LINK RECONFIGURATION RESPONSE message.]
- [FDD The DRNC shall include the *Measurement Power Offset* IE in the *HS-DSCH FDD Secondary Serving Information Response* IE in the *Additional HS Cell Information Response* IE in the RADIO LINK RECONFIGURATION RESPONSE message.]
- [FDD The DRNS shall allocate HS-SCCH codes corresponding to the secondary serving HS-DSCH and the DRNC shall include the HS-SCCH Specific Secondary Serving Information Response IE in the HS-DSCH FDD Secondary Serving Information Response IE in the Additional HS Cell Information Response IE in the RADIO LINK RECONFIGURATION RESPONSE message.]
- [FDD The DRNC shall include the *HS-PDSCH And HS-SCCH Scrambling Code* IE in the *HS-DSCH FDD* Secondary Serving Information Response IE in the Additional HS Cell Information Response IE in the RADIO LINK RECONFIGURATION RESPONSE message.]
- [FDD If the Sixtyfour QAM Usage Allowed Indicator IE is included in the HS-DSCH FDD Secondary Serving Information To Modify Unsynchronised IE and the value is set to "allowed" or if HS-DSCH FDD Secondary Serving Information To Modify Unsynchronised IE is not included and the UE context is configured with Sixtyfour QAM allowed for the secondary serving HS-DSCH Radio Link and not used in the current configuration and then if the DRNS decides to use 64 QAM for the new secondary serving HS-DSCH Radio Link, then it shall include the SixtyfourQAM DL Usage Indicator IE in the Additional HS Cell Information Response IE in the RADIO LINK RECONFIGURATION RESPONSE message.]
- [FDD If, in the new configuration, the UE context is configured not to use Sixtyfour QAM for the secondary serving HS-DSCH, the DRNS shall include the *HS-DSCH TB Size Table Indicator* IE in the *HS-DSCH FDD Secondary Serving Information Response* IE in the *Additional HS Cell Information Response* IE in the RADIO LINK RECONFIGURATION RESPONSE message if it decides to use the octet aligned table defined in TS 25.321 [41] for secondary serving HS-DSCH Transport Block Size signalling.]
- [FDD If the power offset for S-CPICH for MIMO Request indicator and MIMO activation indicator have been configured in the new configuration and MIMO pilot configuration with Primary and Secondary CPICH is set up with a non-zero power offset on the cell where the Secondary Serving HS-DSCH Radio Link is established, the DRNC shall include the *Power Offset For S-CPICH for MIMO* IE in the *HS-DSCH FDD Secondary Serving Information Response* IE in the RADIO LINK RECONFIGURATION RESPONSE message. If zero power offset the DRNC may include the *Power Offset For S-CPICH for MIMO* IE.]

#### [FDD – Additional Serving E-DCH Radio Link Change to an existing additional non serving E-DCH RL:]

[FDD – If the RADIO LINK RECONFIGURATION REQUEST message includes the *C-ID* IE in the *Additional HS Cell Information RL Reconf Req* IE and an additional non serving E-DCH RL exists in the cell indicated by the *C-ID* IE, the *HS-PDSCH RL ID* IE in the *HS Cell Information RL Reconf Req* IE indicates the new Additional Serving E-DCH Radio Link.]

- [FDD If the old Additional Serving E-DCH RL is within this DRNS, the DRNS shall de-allocate the E-AGCH resources of the old Additional Serving E-DCH Radio Link at the activation of the new configuration.]
- [FDD The DRNS shall allocate a primary E-RNTI identifier or a secondary E-RNTI identifier or both for the new Additional Serving E-DCH Radio Link and include these E-RNTI identifiers along with the channelisation code of the corresponding E-AGCH in the *E-DCH FDD DL Control Channel Information* IE in the *Additional Modified E-DCH FDD Information Response* IE in the *Additional E-DCH Cell Information Response RLReconf* IE in the RADIO LINK RECONFIGURATION RESPONSE message]
- [FDD The DRNS may include the Serving Grant Value IE and Primary/Secondary Grant Selector IE in the E-DCH FDD DL Control Channel Information IE in the Additional Modified E-DCH FDD Information Response IE in the Additional E-DCH Cell Information Response RLReconf IE in the RADIO LINK RECONFIGURATION READY message for the initial grant for the Additional serving E-DCH RL and may include the Default Serving Grant in DTX Cycle 2 IE.]
- [FDD If the E-DCH HARQ process allocation for 2ms TTI for scheduled transmission shall be changed, the DRNS shall allocate resources according to the new/changed configuration and include the new/changed configuration in the *HARQ Process Allocation For 2ms Scheduled Transmission Grant* IE in the *Additional*

*Modified E-DCH FDD Information Response* IE in the *Additional E-DCH Cell Information Response RLReconf* IE in the RADIO LINK RECONFIGURATION READY message.]

- [FDD – The DRNS may include the *E-RGCH/E-HICH Channelisation Code* IE and/or the *E-HICH Signature Sequence* IE and/or the *E-RGCH Signature Sequence* IE or may alternatively include the *E-RGCH Release Indicator* IE in the *E-DCH FDD DL Control Channel Information* IE in the *Additional Modified E-DCH FDD Information Response* IE in the Additional *E-DCH Cell Information Response RLReconf* IE in the RADIO LINK RECONFIGURATION RESPONSE message for every E-DCH Radio Link on secondary UL frequency in the DRNS. If the DRNS has no valid data for the *E-RGCH/E-HICH Channelisation Code* IE in the *E-DCH FDD DL Control Channel Information* IE then it shall insert the *E-RGCH and E-HICH Channelisation Code Validity Indicator* IE in the *E-DCH FDD DL Control Channel Information* IE, to indicate that the *E-RGCH/E-HICH Channelisation Code* IE contains invalid data.]

## [FDD – Additional Serving E-DCH Radio Link Change to a new RL:]

[FDD – If the RADIO LINK RECONFIGURATION REQUEST message includes the Additional E-DCH RL Specific Information To Add IE in the Additional E-DCH Configuration Change Information IE in the Additional E-DCH Cell Information RL Reconf Req IE and the C-ID IE in the Additional HS Cell Information RL Reconf Req IE and there is no radio links in the cell indicated by the C-ID IE for the UE context, the HS-PDSCH RL ID IE indicates the new Additional Serving E-DCH Radio Link on secondary UL frequency.]

- [FDD If the old Additional Serving E-DCH RL is within this DRNS, the DRNS shall de-allocate the E-AGCH resources of the old Additional Serving E-DCH Radio Link at the activation of the new configuration.]
- [FDD In the new configuration the DRNS shall allocate the E-DCH resources for the new additional serving E-DCH Radio Link on the secondary UL frequency. Non cell specific E-DCH parameters shall take the same values as for the corresponding cell of the Primary uplink frequency.]
- [FDD The DRNS shall allocate a primary E-RNTI identifier or a secondary E-RNTI identifier or both for the new Additional Serving E-DCH Radio Link and include these E-RNTI identifiers along with the channelisation code of the corresponding E-AGCH in the *E-DCH FDD DL Control Channel Information* IE in the *Additional E-DCH FDD Information Response* IE in the *Additional E-DCH Cell Information Response RLReconf* IE in the RADIO LINK RECONFIGURATION RESPONSE message.]
- [FDD The DRNS may include in the *E-DCH FDD DL Control Channel Information* IE in the *Additional E-DCH FDD Information Response* IE in the *Additional E-DCH Cell Information Response RLReconf* IE in the RADIO LINK RECONFIGURATION RESPONSE message the *Serving Grant Value* IE and *Primary/Secondary Grant Selector* IE for the initial grant for the additional serving E-DCH RL and may include the *Default Serving Grant in DTX Cycle 2* IE]
- [FDD If the E-DCH HARQ process allocation for 2ms TTI for scheduled transmission shall be changed, the DRNS shall allocate resources according to the new/changed configuration and include the new/changed configuration in the HARQ Process Allocation For 2ms Scheduled Transmission Grant IE in the Additional E-DCH FDD Information Response IE in the Additional E-DCH Cell Information Response RLReconf IE in the RADIO LINK RECONFIGURATION RESPONSE message. ]

### **HS-DSCH Modification:**

If the RADIO LINK RECONFIGURATION REQUEST message includes the *HS-DSCH Information To Modify Unsynchronised* IE, then:

- The DRNC shall include the *HS-DSCH Initial Capacity Allocation* IE for each HS-DSCH MAC-d flow being modified for which the establishment of one or several new Priority Queues was requested, if the DRNS allows the SRNC to start the transmission of MAC-d PDUs for the Priority Queue(s) being established before the DRNS has allocated capacity on user plane as described in TS 25.425 [32]. If UE context is configured to use "Flexible MAC-d PDU Size", then DRNC shall only set in the *HS-DSCH Initial Capacity Allocation* IE the values for the peer of *Scheduling Priority Indicator* IE and *Maximum MAC-d PDU Size Extended* IE to the values of the corresponding peer for the Priority Queue of UE context.
- If the RADIO LINK RECONFIGURATION REQUEST message includes the *Traffic Class* IE in the *HS-DSCH Information To Modify Unsynchronised* IE for a specific HS-DSCH MAC-d flow, the DRNS may use this information to determine the transport bearer characteristics to apply between DRNC and Node B. The DRNC

should ignore the *Traffic Class* IE if the *TrCH Source Statistics Descriptor* IE for this specific HS-DSCH MAC-d flow indicates the value "RRC".

- If the *TNL QoS* IE is included for a MAC-d flow and if ALCAP is not used, the *TNL QoS* IE may be used by the DRNS to determine the transport bearer characteristics to apply in the uplink between the DRNS and the SRNC for the related MAC-d flow.
- If the RADIO LINK RECONFIGURATION REQUEST message includes the *MAC-hs Guaranteed Bit Rate* IE in the *HS-DSCH Information To Modify Unsynchronised* IE, the DRNS shall use this information to optimise MAC-hs scheduling decisions for the related HSDPA Priority Queue.
- If the RADIO LINK RECONFIGURATION REQUEST message includes the *Discard Timer* IE for a Priority Queue in the *HS-DSCH Information To Modify Unsynchronised* IE, then the DRNS shall use this information to discard out-of-date MAC-hs SDUs from the related HSDPA Priority Queue.
- [FDD If the RADIO LINK RECONFIGURATION REQUEST message includes the ACK Power Offset IE, the NACK Power Offset IE or the CQI Power Offset IE in the HS-DSCH Information To Modify Unsynchronised IE, then the DRNS shall use the indicated ACK Power Offset, the NACK Power Offset or the CQI Power Offset in the new configuration.]
- [FDD If the *HS-SCCH Power Offset* IE is included in the *HS-DSCH Information To Modify Unsynchronised* IE, the DRNS may use this value to determine the HS-SCCH power. The HS-SCCH Power Offset should be applied for any HS-SCCH transmission to this UE.]
- [TDD If the RADIO LINK RECONFIGURATION REQUEST message includes the *TDD ACK NACK Power Offset* IE in the *HS-DSCH Information To Modify Unsynchronised* IE, the DRNS shall use the indicated power offset in the new configuration.]
- [FDD If the RADIO LINK RECONFIGURATION REQUEST message includes the HARQ Preamble Mode IE in the HS-DSCH Information To ModifyUnsynchronised IE, then the DRNS shall use the indicated HARQ Preamble Mode in the new configuration as described in TS 25.214 [10], if HS-DPCCH ACK/NACK preamble and postamble is supported. Then, in this case, if the mode 1 is applied, the DRNC shall include the HARQ Preamble Mode Activation Indicator IE in the HS-DSCH Information Response IE in the RADIO LINK RECONFIGURATION RESPONSE message. If the HARQ Preamble Mode IE is not included or if the mode 0 is applied, then the DRNC shall not include the HARQ Preamble Mode Activation Indicator IE in the RS-DSCH Information Response IE in the RADIO LINK RECONFIGURATION RESPONSE message.]
- [FDD If the *MIMO Mode Indicator To Modify* IE is included in the *HS-DSCH Information To Modify Unsynchronised* IE, then]
  - [FDD The DRNS shall activate/deactivate the MIMO mode for the HS-DSCH Radio Link in the new configuration in accordance with the *MIMO Mode Indicator* IE.]
  - [FDD If the *MIMO Mode Indicator* IE is set to "Activate", then the DRNS shall decide the pilot configuration and the UE reporting configuration (N/M ratio) according to TS 25.214 [10] for MIMO and include the *MIMO Information Response* IE in the *HS-DSCH FDD Information Response* IE in the RADIO LINK RECONFIGURATION RESPONSE message.]
  - [FDD If the MIMO Mode Indicator IE is set to "Activate" and Power Offset For S-CPICH for MIMO Request Indicator IE is included, the DRNC shall, if supported and MIMO pilot configuration with Primary and Secondary CPICH is set up with a non-zero power offset on the cell where the Serving HS-DSCH Radio Link is established, include the Power Offset For S-CPICH for MIMO IE in the HS-DSCH FDD Information Response IE. If zero power offset the DRNC may include the Power Offset For S-CPICH for MIMO IE.]
- [FDD The DRNC may include the *HARQ Memory Partitioning* IE in the RADIO LINK RECONFIGURATION RESPONSE message. The *HARQ Memory Partitioning* IE may contain the *HARQ Memory Partitioning* Information Extension For MIMO IE.]
- [FDD If the Sixtyfour QAM Usage Allowed Indicator IE is included in the HS-DSCH Information To Modify Unsynchronised IE, then the DRNS may if the value is set to "allowed" use 64 QAM for the HS-DSCH Radio Link, and the DRNS shall include the SixtyfourQAM DL Usage Indicator IE in the HS-DSCH FDD Information Response IE in the RADIO LINK RECONFIGURATION RESPONSE message.]

- [FDD If the Sixtyfour QAM Usage Allowed Indicator IE is included in the HS-DSCH Information To Modify Unsynchronised IE with value set to "not allowed", then the DRNS shall not use 64 QAM for the HS-DSCH Radio Link.]
- [FDD If MAC-ehs is applied in the new configuration, and if Sixtyfour QAM will not be used, the DRNS shall
  include the *HS-DSCH TB Size Table Indicator* IE in the *HS-DSCH FDD Information Response* IE in the RADIO
  LINK RECONFIGURATION RESPONSE message if it decides to use the octet aligned table defined in TS
  25.321 [41] for HS-DSCH Transport Block Size signalling.]
- [1.28Mcps TDD- If the *MIMO Mode Indicator To Modify* IE is included in the *HS-DSCH Information To Modify Unsynchronised* IE, then]
  - [1.28Mcps TDD- The DRNS shall activate/deactivate the MIMO mode for the HS-DSCH Radio Link in the new configuration in accordance with the *MIMO Mode Indicator* IE.]
  - [1.28 Mcps TDD If the MIMO Mode Indicator IE is set to "Activate", then the DRNS shall decide the SF mode for HS-PDSCH dual stream and include the MIMO SF Mode for HS-PDSCH dual stream IE in the HS-DSCH TDD Information Response IE in the RADIO LINK RECONFIGURATION RESPONSE message.]
- [FDD Any secondary serving HS-DSCH that was applied in the old configuration shall remain in the new configuration unless it is explicitly removed.]
- [FDD If secondary serving HS-DSCH is applied also in the new configuration, then any changes related to parameters that are common for both the serving and the secondary serving HS-DSCH should be applied also for the secondary serving HS-DSCH.]
- [FDD If the UE Support Indicator Extension IE is included in the HS-DSCH Information To Modify Unsynchronised IE the DRNS may use the supported HSDPA functions for this UE.]
- [FDD If the UE Support Indicator Extension IE is included in the HS-DSCH Information To Modify IE with the bit UE DTXDRX related HS-SCCH orders uniform behavior indicator set to 0, then the DRNS shall, if supported, include the Support of dynamic DTXDRX related HS-SCCH order IE in the HS-DSCH FDD Response IE in the RADIO LINK RECONFIGURATION RESPONSE message.]
- [FDD If the *Single Stream MIMO Mode Indicator* IE is included in the *HS-DSCH Information To Modify Unsynchronised* IE, then the DRNS shall activate/deactivate the Single Stream MIMO for the HS-DSCH Radio Link in accordance with the *Single Stream MIMO Mode Indicator* IE.]

## [FDD – Secondary Serving HS-DSCH Modification:]

[FDD – If the RADIO LINK RECONFIGURATION REQUEST message includes the HS-DSCH FDD Secondary Serving Information To Modify Unsynchronised IE in the Additional HS Cell Information RL Reconf Req IE, then:]

- [FDD If the HS-SCCH Power Offset IE is included in the HS-DSCH FDD Secondary Serving Information To Modify Unsynchronised IE, the DRNS may use this value to determine the HS-SCCH power. The HS-SCCH Power Offset should be applied for any secondary serving HS-SCCH transmission to this UE.]
- [FDD If the *MIMO Mode Indicator* IE is included in the *HS-DSCH FDD Secondary Serving Information To Modify Unsynchronised* IE, then the DRNS shall activate/deactivate the MIMO mode for the secondary serving HS-DSCH Radio Link in accordance with the *MIMO Mode Indicator* IE.]
- [FDD If the *MIMO Mode Indicator* IE is set to "Activate", then the DRNS shall decide the pilot configuration and the UE reporting configuration (N/M ratio) according to TS 25.214 [10] for MIMO and include the *MIMO Information Response* IE in the *HS-DSCH FDD Secondary Serving Information Response* IE in the *Additional HS Cell Information Response* IE in the RADIO LINK RECONFIGURATION RESPONSE message.]
- [FDD If the MIMO Mode Indicator IE is set to "Activate" and Power Offset For S-CPICH for MIMO Request Indicator IE is included, the DRNC shall, if supported and MIMO pilot configuration with Primary and Secondary CPICH is set up with a non-zero power offset on the cell where the Secondary Serving HS-DSCH Radio Link is established, include the Power Offset For S-CPICH for MIMO IE in the HS-DSCH FDD Secondary Serving Information Response IE in the RADIO LINK RECONFIGURATION RESPONSE message. If zero power offset the DRNC may include the Power Offset For S-CPICH for MIMO IE.]
- [FDD If the *Single Stream MIMO Mode Indicator* IE is included in the *HS-DSCH FDD Secondary Serving Information To Modify Unsynchronised* IE, then the Node B shall activate/deactivate the Single Stream MIMO

mode for the secondary serving HS-DSCH Radio Link in accordance with the *Single Stream MIMO Mode Indicator* IE.]

- [FDD If the Sixtyfour QAM Usage Allowed Indicator IE is included in the HS-DSCH FDD Secondary Serving Information To Modify Unsynchronised IE, then the DRNS may if the value is set to "allowed" use 64 QAM for the secondary serving HS-DSCH Radio Link, and the DRNS shall include the SixtyfourQAM DL Usage Indicator IE in the HS-DSCH FDD Secondary Serving Information Response IE in the Additional HS Cell Information Response IE in the RADIO LINK RECONFIGURATION RESPONSE message.]
- [FDD If the *Sixtyfour QAM Usage Allowed Indicator* IE is included in the *HS-DSCH FDD Secondary Serving Information To Modify Unsynchronised* IE with value set to "not allowed", then the DRNS shall not use 64 QAM for the secondary serving HS-DSCH Radio Link.]
- [FDD If, in the new configuration, the UE context is configured to use the "Flexible MAC-d PDU Size" format and if Sixtyfour QAM will not be used for the secondaery serving HS-DSCH, then the DRNS shall include the HS-DSCH TB Size Table Indicator IE in the HS-DSCH FDD Secondary Serving Information Response IE in the Additional HS Cell Information Response IE in the RADIO LINK RECONFIGURATION RESPONSE message if it decides to use the octet aligned table defined in TS 25.321 [41] for secondary serving HS-DSCH Transport Block Size signalling.]

#### [FDD – Secondary Serving HS-DSCH Removal:]

[FDD – If the RADIO LINK RECONFIGURATION REQUEST message includes the *HS-DSCH Secondary Serving Remove* IE in the *Additional HS Cell Information RL Reconf Req* IE, then the indicated secondary serving HS-DSCH Radio Link shall be removed.]

# HS-DSCH MAC-d Flow Addition/Deletion:

If the RADIO LINK RECONFIGURATION REQUEST message includes any *HS-DSCH MAC-d Flows To Add* or *HS-DSCH MAC-d Flows To Delete* IEs, then the DRNS shall use this information to add/delete the indicated HS-DSCH MAC-d flows on the Serving HS-DSCH Radio Link. When an HS-DSCH MAC-d flow is deleted, all its associated Priority Queues shall also be removed.

If the RADIO LINK RECONFIGURATION REQUEST message includes an *HS-DSCH MAC-d Flows To Delete* IE requesting the deletion of all remaining HS-DSCH MAC-d flows for the UE Context, then the DRNC shall delete the HS-DSCH configuration from the UE Context and release the HS-PDSCH resources.

If the RADIO LINK RECONFIGURATION REQUEST message includes the *HS-DSCH MAC-d Flows To Add* IE, then:

- The DRNS may use the Traffic Class IE for a specific HS-DSCH MAC-d flow to determine the transport bearer characteristics to apply between DRNC and Node B. If TrCH Source Statistics Descriptor IE is present with the value "RRC" in the HS-DSCH MAC-d Flows Information IE, then the DRNC should ignore the Traffic Class IE.
- If the TNL QoS IE is included for a MAC-d flow and if ALCAP is not used, the TNL QoS IE may be used by the DRNS to determine the transport bearer characteristics to apply in the uplink between the DRNS and the SRNC for the related MAC-d flow.
- The DRNC shall include the HS-DSCH Initial Capacity Allocation IE in the RADIO LINK RECONFIGURATION RESPONSE message for every HS-DSCH MAC-d flow being added, if the DRNS allows the SRNC to start transmission of MAC-d PDUs before the DRNS has allocated capacity on user plane as described in TS 25.425 [32]. If the UE context is configured to use the "Flexible MAC-d PDU Size" format for the HS-DSCH, then DRNC shall only set in the HS-DSCH Initial Capacity Allocation IE the values for the peer of Scheduling Priority Indicator IE and Maximum MAC-d PDU Size Extended IE to the values of the corresponding peer I in RADIO LINK RECONFIGURATION REQUEST message in the HS-DSCH MAC-d Flows To Add IE for a Priority Queue including Scheduling Priority Indicator IE and Maximum MAC-d PDU Size Extended IE
- If the RADIO LINK RECONFIGURATION REQUEST message includes the MAC-hs Guaranteed Bit Rate IE in the HS-DSCH MAC-d Flows To Add IE, the DRNS shall use this information to optimise MAC-hs scheduling decisions for the related HSDPA Priority Queue.
- If the RADIO LINK RECONFIGURATION REQUEST message includes the Maximum MAC-d PDU Size Extended IE for a Priority Queue in the HS-DSCH MAC-d Flows To Add IE, then the DRNC shall ignore the

SID IE and MAC-d PDU Size IE in the MAC-d PDU Size Index IE and use Maximum MAC-d PDU Size Extended IE to optimise capacity allocation for the related HSDPA Priority Queue.

- If the RADIO LINK RECONFIGURATION REQUEST message includes DL RLC PDU Size Format IE for a Priority Queue in the HS-DSCH MAC-d Flows To Add IE, the DL RLC PDU Size Format IE may be used by the DRNS to determine the allocated capacity on user plane as described in TS 25.425 [32].
- [FDD FDD If the RADIO LINK RECONFIGURATION REQUEST message includes the *UE Aggregate Maximum Bit Rate Enforcement Indicator* IE for a Priority Queue in the *HS-DSCH MAC-d Flows To Add* IE, the DRNS shall, if supported, consider the data of the related HSDPA Priority Queue for UE Aggregate Maximum Bit Rate Enforcement.]

If the RADIO LINK RECONFIGURATION REQUEST message includes the *Discard Timer* IE for a Priority Queue in the *HS-DSCH MAC-d Flows To Add* IE, then the DRNS shall use this information to discard out-of-date MAC-hs SDUs from the related HSDPA Priority Queue.

## [FDD – HS-DSCH Preconfiguration for Enhanced HS Serving Cell Change]

[FDD – If the RADIO LINK RECONFIGURATION REQUEST message includes the *HS-DSCH Preconfiguration Setup* IE in the *RL Information* IE the DRNS shall, if supported, preconfigure the indicated cells for Enhanced HS Serving Cell Change according to TS 25.308 [63]:]

- [FDD The DRNS shall preconfigure sets of HS-SCCH codes on the cells preconfigured for HS-DSCH, primary serving HS-DSCH cell, as well as on the secondary serving HS-DSCH cells. The primary serving HS-DSCH cell is designated through the *C-ID* IE part of the *RL Information* IE in the RADIO LINK RECONFIGURATION REQUEST message. The list of secondary serving HS-DSCH cells is designated by the list of *Secondary C-ID* IEsin the *HS-DSCH Preconfiguration Setup* IE part of the *RL Information* IE in the RADIO LINK RECONFIGURATION REQUEST message.]
- [FDD The number of HS-SCCH codes to preconfigure for each cell may be optionally specified: ]
  - [FDD by the *Num Primary HS-SCCH Codes* IE in the *HS-DSCH Preconfiguration Setup* IE, for the primary serving HS-DSCH cell.]
  - [FDD by the *Num Secondary HS-SCCH Codes* IE in *the Secondary Cells* IE in the *HS-DSCH Preconfiguration Setup* IE for each of the secondary serving HS-DSCH cells.]
- [FDD If Num Primary HS-SCCH Codes IE or Num Secondary HS-SCCH Codes IE is not included in the message the number and distribution of codes on primary and any secondary cells shall be preconfigured to satisfy any limitations in TS 25.214 [10].
- [FDD The DRNS shall return these codes in the *Sets of HS-SCCH Codes* IE along with the corresponding percell *HS-DSCH-RNTI* IE in the *HS-DSCH Preconfiguration Info* IE in the *RL Information Response* IE of the RADIO LINK RECONFIGURATION RESPONSE.]
- [FDD The DRNS shall use the first in the numbered list the primary serving HS-DSCH cell's of HS-SCCH codes in the HS-SCCH Preconfigured Codes IE sent to the SRNC to signal the Target Cell HS-SCCH Order defined in ITU-T Rec. X.680 [18].]
- [FDD The DRNS shall include, in the *HS-DSCH Preconfiguration Info* IE in the *RL Information Response* IE in the RADIO LINK RECONFIGURATION RESPONSE message, IEs according to the rules defined for HS-DSCH Setup at Serving HS-DSCH Radio Link Change and:]
  - [FDD if *HARQ Preamble Mode* IE is included in the *HS-DSCH Preconfiguration Setup* IE the HARQ Preamble Mode Activation Indicator IE.]
  - [FDD if *MIMO Activation Indicator* IE is included in the *HS-DSCH Preconfiguration Setup* IE the *MIMO N/M Ratio* IE.]
  - [FDD if *HS-DSCH MAC-d PDU Size Format* IE is included in the *HS-DSCH Preconfiguration Setup* IE and set to "Flexible MAC-d PDU Size" and if Sixtyfour QAM will not be used for the cell in the preconfiguration the *HS-DSCH TB Size Table Indicator* IE for each preconfigured cell.]

- [FDD if Sixtyfour QAM Usage Allowed Indicator IE is included in the Secondary Cells IE in the HS-DSCH Preconfiguration Setup IE or in the HS-DSCH Preconfiguration Setup IE the SixtyfourQAM DL Usage Indicator IE for each preconfigured cell.]
- [FDD if Continuous Packet Connectivity HS-SCCH less Information IE is included in the HS-DSCH Preconfiguration Setup IE the Continuous Packet Connectivity HS-SCCH less Information Response IE.]
- [FDD if the *UE with enhanced HS-SCCH support indicator* IE is included in the *HS-DSCH Preconfiguration Setup* IE, then the DRNS shall store this information in the preconfigured configuration.]
- [FDD the *SixtyfourQAM DL Support Indicator* IE may be included.]
- [FDD If the *UE Support Indicator Extension* IE is included in the *HS-DSCH Preconfiguration Setup* IE, then the DRNS may store this information in the preconfigured configuration.]
- [FDD If the UE Support Indicator Extension IE is included in the HS-DSCH Preconfiguration Setup IE with the bit UE DTXDRX related HS-SCCH orders uniform behavior indicator set to 0, then the DRNS shall, if supported, include the Support of dynamic DTXDRX related HS-SCCH order IE in the Preconfiguration Info IE in the RADIO LINK RECONFIGURATION RESPONSE message.]
- [FDD the DRNS shall, if supported, include in the Sets of HS-SCCH Codes IE the Measurement Power Offset IE for each preconfigured cell.]
- [FDD The DRNS shall include in the *HS-DSCH Preconfiguration Info* IE in the *RL Information Response* IE in the RADIO LINK RECONFIGURATION RESPONSE message the *E-DCH FDD DL Control Channel Information* containing the preconfigured configuration of the E-DCH serving cell according to the rules defined for Serving E-DCH Radio Link Change as follows:]
  - [FDD The DRNS shall allocate for the preconfigured configuration a primary E-RNTI identifier or a secondary E-RNTI identifier or both for the new Serving E-DCH Radio Link and include these E-RNTI identifiers along with the channelisation code of the corresponding E-AGCH in the *E-DCH FDD DL Control Channel Information* IE.]
  - [FDD The DRNS may preconfigure the *Serving Grant Value* IE and *Primary/Secondary Grant Selector* IE for the initial grant for the serving E-DCH RL and include these values in the *E-DCH FDD DL Control Channel Information* IE.]
- [FDD If the Power Offset For S-CPICH for MIMO Request Indicator IE is included in the HS-DSCH Preconfiguration Setup IE or in the Secondary Cells IE in the HS-DSCH Preconfiguration Setup IE, the DRNC shall, if supported and MIMO pilot configuration with Primary and Secondary CPICH is set up on the cell with a non-zero power offset where HS-DSCH / secondary HS-DSCH is preconfigured, include the Power Offset For S-CPICH for MIMO IE in the HS-DSCH Preconfiguration Info IE or in the Sets of HS-SCCH Codes IE in the HS-DSCH Preconfiguration Info IE for each preconfigured cell in the RADIO LINK RECONFIGURATION RESPONSE message. If zero power offset the DRNC may include the Power Offset For S-CPICH for MIMO IE.]

[FDD – If the RADIO LINK RECONFIGURATION REQUEST message includes the *Non-Serving RL Preconfiguration Setup* IE in the *RL Information* IE and:]

- [FDD if the choice of *new Serving RL* is "New Serving RL in the DRNS", the DRNC may include the *New non-serving RL E-DCH FDD DL Control Channel Information A* IE and/or *New non-serving RL E-DCH FDD DL Control Channel Information B* IE in the *Non-Serving RL Preconfiguration Info* IE for the RL in the RADIO LINK RECONFIGURATION RESPONSE message.]
- [FDD if the choice of *new Serving RL* is "New Serving RL Not in the DRNS", the DRNC may include the *New non-serving RL E-DCH FDD DL Control Channel Information C* IE in the *Non-Serving RL Preconfiguration Info* IE for the RL in the RADIO LINK RECONFIGURATION RESPONSE message.]
- [FDD if the choice of *new Serving RL* is "New Serving RL in the DRNS or New Serving RL Not in the DRNS", the DRNC may include the *New non-serving RL E-DCH FDD DL Control Channel Information A* IE, the *New non-serving RL E-DCH FDD DL Control Channel Information B* IE and/or the *New non-serving RL E-DCH FDD DL Control Channel Information C* for the RL in the *Non-Serving RL Preconfiguration Info* IE in the RADIO LINK RECONFIGURATION RESPONSE message.]

- [FDD – if the Additional E-DCH Non-Serving RL Preconfiguration Setup IE is included, the DRNC may include the New non-serving RL E-DCH FDD DL Control Channel Information A IE, the New non-serving RL E-DCH FDD DL Control Channel Information B IE and/or the New non-serving RL E-DCH FDD DL Control Channel Information C IE according to the choice of new Serving RL in Additional E-DCH New non-serving RL E-DCH FDD DL Control Channel Information IE for the additional non serving E-DCH RL in the Non-Serving RL Preconfiguration Info IE in the RADIO LINK RECONFIGURATION RESPONSE message.]

#### [FDD – Enhanced HS Serving Cell Change:]

[FDD ---Upon receipt of the RADIO LINK RECONFIGURATION REQUEST message, if the Enhanced HS Serving Cell Change is preconfigured in the DRNS for the UE context, the DRNS may execute the Enhanced HS Serving Cell Change procedure according to TS 25.308 [63]

[FDD – If the RADIO LINK RECONFIGURATION REQUEST message includes the *Enhanced HS Serving CC Abort* IE in the *HS-DSCH Information To Modify Unsynchronised* IE or the *HS-DSCH FDD Information* IE then the DRNS shall not execute the unsynchronized Enhanced HS Serving Cell Change procedure when performing the Serving HS-DSCH Radio Link Change or the HS-DSCH Setup.]

[FDD – If the RADIO LINK RECONFIGURATION REQUEST message includes the *No of Target Cell HS-SCCH Order* IE then the DRNS shall repeat the Target Cell HS-SCCH Order on the HS-SCCH the number of times defined in the IE.]

[FDD - If the RADIO LINK RECONFIGURATION REQUEST message includes the *Non-Serving RL Preconfiguration Removal* IE, the DRNC shall remove the corresponding preconfigured E-DCH DL Control Channel Information according to the information.]

### [FDD – E-DCH Setup:]

[FDD – If the *E-DCH FDD Information* IE is present in the RADIO LINK RECONFIGURATION REQUEST message then:]

- [FDD If the RADIO LINK RECONFIGURATION REQUEST message includes the *MAC-es Guaranteed Bit Rate* IE in the *E-DCH Logical Channel information* IE in the *E-DCH FDD Information* IE, then the DRNS shall use this information to optimise MAC-e scheduling decisions.]
- [FDD If the RADIO LINK RECONFIGURATION REQUEST message includes *UE Aggregate Maximum Bit Rate Enforcement Indicator* IE in the *E-DCH Logical Channel Information* IE in the *E-DCH FDD Information* IE, the DRNS shall, if supported, consider the data of the related E-DCH Logical Channel for UE Aggregate Maximum Bit Rate Enforcement.]
- [FDD If the RADIO LINK RECONFIGURATION REQUEST message includes the Maximum MAC-d PDU Size Extended IE for a E-DCH Logical Channel in the E-DCH MAC-d Flows Information IE in the E-DCH Information IE, then the DRNS shall ignore the MAC-d PDU Size IE in the MAC-d PDU Size List IE and use Maximum MAC-d PDU Size Extended IE to optimise capacity allocation for the related E-DCH Logical Channel and use the indicated format in user plane frame structure for E-DCH channels TS 25.425 [32] and MAC TS 25.321 [41].]
- [FDD If the RADIO LINK RECONFIGURATION REQUEST message includes the *E-DCH MAC-d Flow Multiplexing List* IE for an E-DCH MAC-d flow the DRNS shall use this information for the related resource allocation operation.]
- [FDD If the RADIO LINK RECONFIGURATION REQUEST message includes the *HARQ Process Allocation For 2ms Scheduled Transmission Grant* IE, the DRNS shall use this information for the related resource allocation operation.]
- [FDD If in the RADIO LINK RECONFIGURATION REQUEST message the E-DCH Grant Type is indicated as being "E-DCH Non-Scheduled Transmission Grant" for an E-DCH MAC-d flow the DRNS shall assume non-scheduled grants being configured for that E-DCH MAC-d flow and shall use the information within the HARQ Process Allocation For 2ms Non-Scheduled Transmission Grant IE, if included, for the related resource allocation operation.]
- [FDD If in the RADIO LINK RECONFIGURATION REQUEST message the E-DCH Grant Type is indicated as being "E-DCH Scheduled Transmission Grant" for an E-DCH MAC-d flow the DRNS shall assume scheduled grants being configured for that E-DCH MAC-d flow.]

- [FDD The DRNS may use the *Traffic Class* IE for a specific E-DCH MAC-d flow to determine the transport bearer characteristics to apply between DRNC and Node B. If *TrCH Source Statistics Descriptor* IE is present with the value "RRC" in the *E-DCH MAC-d Flows Information* IE, then the DRNC should ignore the *Traffic Class* IE.]
- [FDD If the *TNL QoS* IE is included for an E-DCH MAC-d flow and if ALCAP is not used, the *TNL QoS* IE may be used by the DRNS to determine the transport bearer characteristics to apply in the uplink for the related MAC-d flow.]
- [FDD If the RADIO LINK RECONFIGURATION REQUEST message includes the *Bundling Mode Indicator* IE for a E-DCH MAC-d flow in the *E-DCH MAC-d Flow Specific Information* IE in the *E-DCH FDD Information* IE and the *Bundling Mode Indicator* IE is set to "Bundling" and the *E-TTI* IE is set to "2ms", then the DRNS shall use the bundling mode for the E-DCH UL data frames for the related Mac-d flow, otherwise the DRNS shall use the non-bundling mode for the E-DCH UL data frames for the related Mac-d flow.]
- [FDD If the RADIO LINK RECONFIGURATION REQUEST message includes the *E-DCH Maximum Bitrate* IE for an E-DCH, the DRNS shall use this information for the related resource allocation operation, and when applicable, for E-DCH scheduling.]
- [FDD If the RADIO LINK RECONFIGURATION REQUEST message includes the *E-DCH Processing Overload Level* IE, then if the DRNS could not decode the E-DPCCH/E-DPDCH for the last consecutive number of TTIs, indicated in the *E-DCH Processing Overload Level* IE, because of processing issue, the DRNS shall notify the SRNC by initiating the Radio Link Failure procedure.]
- [FDD If the RADIO LINK RECONFIGURATION REQUEST message includes the *E-DCH ReferencePower Offset* IE, then the DRNS may use this value as a default HARQ power offset if it is not able to decode the MAC-e PDU and to determine the value of the actual HARQ power offset.]
- [FDD If the RADIO LINK RECONFIGURATION REQUEST message includes the *E-DCH Power Offset for Scheduling Info* IE, then the DRNS shall use this value as a power offset for the transmission of scheduling information without any MAC-d PDUs.]
- [FDD If the RADIO LINK RECONFIGURATION REQUEST message includes the *E-AGCH Power Offset* IE in the *RL Specific E-DCH Information* IE, then the DRNS may use this value to determine the E-AGCH power. The E-AGCH Power Offset should be applied for any E-AGCH transmission to this UE.]
- [FDD If the RADIO LINK RECONFIGURATION REQUEST message includes the *E-RGCH Power Offset* IE in the *RL Specific E-DCH Information* IE, then the DRNS may use this value to determine the E-RGCH power for the RL. The E-RGCH Power Offset should be applied for any E-RGCH transmission to this UE.]
- [FDD If the RADIO LINK RECONFIGURATION REQUEST message includes the *E-HICH Power Offset* IE in the *RL Specific E-DCH Information* IE, then the DRNS may use this value to determine the E-HICH power for the RL. The E-HICH Power Offset should be applied for any E-HICH transmission to this UE.]
- [FDD If the RADIO LINK RECONFIGURATION REQUEST message includes an *E-DPCH Information* IE which contains the *HS-DSCH Configured Indicator* IE and/or the *Maximum Set of E-DPDCHs* IE, and/or the *Puncture Limit* IE and/or the *E-TTI* IE, the DRNS shall use and apply the value(s) in the new configuration.]
- [FDD If the RADIO LINK RECONFIGURATION REQUEST message includes the *SixteenQAM UL Operation Indicator* IE, the DRNS shall activate/deactivate SixteenQAM UL Operation for the RL in accordance with the *SixteenQAM UL Operation Indicator* IE.]
  - [FDD If SixteenQAM UL Operation is activated, then the DRNS shall base the handling of the Relative Grant signalling on Scheduling Grant Table 2 according to TS 25.321 [41]. If SixteenQAM UL Operation is deactivated, then the DRNS shall base the handling of the Relative Grant signalling on Scheduling Grant Table 1 according to TS 25.321 [41].]

#### [FDD – E-DCH Radio Link Handling:]

[FDD – If the RADIO LINK RECONFIGURATION REQUEST message includes the *E-DCH RL Indication* IE in the *RL Information* IE:]

- [FDD – The DRNC shall setup the E-DCH resources, as requested or as configured in the UE context, on the Radio Links indicated by the *E-DCH RL Indication* IE, set to "E-DCH", in the *RL Information* IE.]

- [FDD The DRNC may include the *E-AGCH And E-RGCH/E-HICH FDD Scrambling Code* IE and shall include the *E-RGCH/E-HICH Channelisation Code* IE and the corresponding *E-HICH Signature Sequence* IE and the DRNC may include the corresponding *E-RGCH Signature Sequence* IE in the *E-DCH FDD DL Control Channel Information* IE in the RADIO LINK RECONFIGURATION RESPONSE message for every RL indicated by the *E-DCH RL Indication* IE, set to "E-DCH", in the *RL Information* IE.]
- [FDD The DRNC shall remove the E-DCH resources, if any, on the Radio Links, that are indicated by the *E*-DCH *RL Indication* set to "Non E-DCH".]
- [FDD For each RL for which the *E-DCH RL Indication* IE is set to "E-DCH", and which has or can have a common generation of E-RGCH information with another RL (current or future) when the DRNS would contain the E-DCH serving RL, the DRNS shall include the *E-DCH RL Set ID* IE in the RADIO LINK RECONFIGURATION RESPONSE message. The value of the *E-DCH RL Set ID* IE shall allow the SRNC to identify the E-DCH RLs that have or can have a common generation of E-RGCH information.]

#### [FDD – Serving E-DCH Radio Link Change:]

[FDD – If the RADIO LINK RECONFIGURATION REQUEST message includes the Serving E-DCH RL IE, this indicates the new Serving E-DCH Radio Link:]

- [FDD If the old Serving E-DCH RL is within this DRNS, the DRNS shall de-allocate the E-AGCH resources of the old Serving E-DCH Radio Link.]
- [FDD If the new Serving E-DCH RL is within this DRNS:]
  - [FDD The DRNS shall allocate a primary E-RNTI identifier or a secondary E-RNTI identifier or both for the new Serving E-DCH Radio Link and include these E-RNTI identifiers along with the channelisation code of the corresponding E-AGCH in the *E-DCH FDD DL Control Channel Information* IE in the *RL Information Response* IE for the indicated RL in the RADIO LINK RECONFIGURATION RESPONSE message.]
  - [FDD The DRNS may include the *Serving Grant Value* IE and *Primary/Secondary Grant Selector* IE in the RADIO LINK RECONFIGURATION RESPONSE message for the initial grant for the new serving E-DCH RL.]
  - [FDD If the E-DCH HARQ process allocation for 2ms TTI for scheduled and/or non-scheduled transmission shall be changed, the DRNS shall allocate resources according to the new/changed configuration and include the new/changed configuration in the *E-DCH FDD Information Response* IE in the RADIO LINK RECONFIGURATION RESPONSE message.]
  - [FDD If a serving cell change is performed the RADIO LINK RECONFIGURATION RESPONSE message may contain invalid data (see 9.2.2.4C).]
  - [FDD The DRNS may include the *Default Serving Grant in DTX Cycle 2* IE in the RADIO LINK RECONFIGURATION RESPONSE message for the new serving E-DCH RL.]
- [FDD The DRNS may include the *E-RGCH/E-HICH Channelisation Code* IE and/or the *E-HICH Signature Sequence* IE and/or the *E-RGCH Signature Sequence* IE or may alternatively include the *E-RGCH Release Indicator* IE in the *E-DCH FDD DL Control Channel Information* IE in the RADIO LINK RECONFIGURATION RESPONSE message for every E-DCH Radio Links in the DRNS.]
- [FDD If the DRNS has no valid data for the *E-RGCH/E-HICH Channelisation Code* IE in the *E-DCH FDD DL Control Channel Information* IE in the RADIO LINK RECONFIGURATION RESPONSE message, then it shall insert the *E-RGCH and E-HICH Channelisation Code Validity Indicator* IE in the *E-DCH FDD DL Control Channel Information* IE, to indicate that the *E-RGCH/E-HICH Channelisation Code* IE contains invalid data.]

### [FDD – E-DCH Modification:]

[FDD – If the RADIO LINK RECONFIGURATION REQUEST message includes the *E-DCH FDD Information To Modify* IE, then:]

- [FDD – If the *E-DCH FDD Information To Modify* IE contains a *E-DCH MAC-d Flow Specific Information* IE which includes the *Allocation/Retention Priority* IE, the DRNS shall apply the new Allocation/Retention Priority to this E-DCH in the new configuration according to Annex A.]

- [FDD If the *TNL QoS* IE is included for an E-DCH MAC-d flow and if ALCAP is not used, the *TNL QoS* IE may be used by the DRNS to determine the transport bearer characteristics to apply in the uplink for the related MAC-d flow.]
- [FDD If *Traffic Class* IE is included for an E-DCH MAC-d flow the DRNS may use the *Traffic Class* IE for a specific E-DCH MAC-d flow to determine the transport bearer characteristics to apply between DRNC and Node B. The DRNC should ignore the *Traffic Class* IE if the *TrCH Source Statistics Descriptor* IE for this specific E-DCH MAC-d flow indicates the value "RRC".]
- [FDD If the RADIO LINK RECONFIGURATION REQUEST message includes the *Data Description Indicator* IE, the DRNC shall use the DDI values indicated in the *Data Description Indicator* IE in the new configuration.]
- [FDD If the RADIO LINK RECONFIGURATION REQUEST message includes the *MAC-es Guaranteed Bit Rate* IE in the *E-DCH FDD Information To Modify* IE, the DRNS shall use this information to optimise MAC-e scheduling decisions.]
- [FDD If the RADIO LINK RECONFIGURATION REQUEST message includes the *Maximum Number of Retransmissions for E-DCH* IE for an E-DCH MAC-d flow in the *E-DCH FDD Information To Modify* IE, then the DRNS shall use this information to report if the maximum number of retransmissions has been exceeded.]
- [FDD If the RADIO LINK RECONFIGURATION REQUEST message includes the *E-DCH HARQ Power* Offset FDD IE in the *E-DCH FDD Information To Modify* IE for an E-DCH MAC-d flow the DRNS shall use this information for calculating the unquantised gain factor for an E-TFC ( $\beta_{ed,j,uq}$ ) as defined in TS 25.214 [10].]
- [FDD If the RADIO LINK RECONFIGURATION REQUEST message includes the *E-DCH MAC-d Flow Multiplexing List* IE for an E-DCH MAC-d flow the DRNS shall use this information for the related resource allocation operation.]
- [FDD If the RADIO LINK RECONFIGURATION REQUEST message includes the E-DCH Grant Type and it is indicated as being "E-DCH Non-Scheduled Transmission Grant" for an E-DCH MAC-d flow the DRNS shall assume non-scheduled grants being configured for that E-DCH MAC-d flow and shall use the information within the *HARQ Process Allocation For 2ms Non-Scheduled Transmission Grant* IE, if included, for the related resource allocation operation.]
- [FDD If the RADIO LINK RECONFIGURATION REQUEST message includes the E-DCH Grant Type and it is indicated as being "E-DCH Scheduled Transmission Grant" for an E-DCH MAC-d flow the DRNS shall assume scheduled grants being configured for that E-DCH MAC-d flow.]
- [FDD If the RADIO LINK RECONFIGURATION REQUEST message includes the *E-DCH Logical Channel To Add* or *E-DCH Logical Channel To Delete* IEs, the DRNS shall use this information to add/delete the indicated logical channels. When an logical channel is deleted, all its associated configuration data shall also removed.]
- [FDD If the RADIO LINK RECONFIGURATION REQUEST message includes the *E-DCH Logical Channel To Modify* IE, the DRNS shall use this information to modify the indicated logical channels.]
  - [FDD If the *E-DCH Logical Channel To Modify* IE includes *Scheduling Priority Indicator* IE, the DRNS shall apply the values in the new configuration.]
  - [FDD If the *E-DCH Logical Channel To Modify* IE includes *Scheduling Information* IE, the DRNS shall apply the values in the new configuration.]
  - [FDD If the *E-DCH Logical Channel To Modify* IE includes the *Maximum MAC-d PDU Size Extended* IE, the DRNC shall apply the value in the new configuration.]
- [FDD If the RADIO LINK RECONFIGURATION REQUEST message includes the *Bundling Mode Indicator* IE for an E-DCH MAC-d flow in the *E-DCH MAC-d Flow Specific Information* IE in the *E-DCH FDD Information To Modify* IE and the *Bundling Mode Indicator* IE is set to "Bundling" and the *E-TTI* IE is set to "2ms", then the DRNS shall use the bundling mode for the E-DCH UL data frames for the related MAC-d flow, otherwise the DRNS shall use the non-bundling mode for the E-DCH UL data frames for the related MAC-d flow.]

- [FDD If the RADIO LINK RECONFIGURATION REQUEST message includes the *HARQ Process Allocation For 2ms Scheduled Transmission Grant* IE, the DRNS shall use this information for the related resource allocation operation.]
- [FDD If the E-DCH serving RL is in this DRNS, the DRNS may choose to change the E-DCH HARQ process allocation for 2ms TTI for scheduled and/or non-scheduled transmission. In this case the DRNS shall allocate resources according to the new/changed configuration and include the new/changed configuration in the *E-DCH FDD Information Response* IE in the RADIO LINK RECONFIGURATION RESPONSE message.]
- [FDD If the RADIO LINK RECONFIGURATION REQUEST message includes the *E-DCH Maximum Bitrate* IE for an E-DCH, the DRNS shall use this information for the related resource allocation operation, and when applicable, for E-DCH scheduling.]
- [FDD If the RADIO LINK RECONFIGURATION REQUEST message includes the *E-DCH Processing Overload Level* IE, then if the DRNS could not decode the E-DPCCH/E-DPDCH for the last consecutive number of TTIs, indicated in the *E-DCH Processing Overload Level* IE, because of processing issue, the DRNS shall notify the SRNC by initiating the Radio Link Failure procedure.]
- [FDD If the RADIO LINK RECONFIGURATION REQUEST message includes the *E-DCH ReferencePower Offset* IE, then the DRNS may use this value as a default HARQ power offset if it is not able to decode the MAC-e PDU and to determine the value of the actual HARQ power offset.]
- [FDD If the RADIO LINK RECONFIGURATION REQUEST message includes the *E-AGCH Power Offset* IE in the *RL Specific E-DCH Information* IE, then the DRNS may use this value to determine the E-AGCH power. The E-AGCH Power Offset should be applied for any E-AGCH transmission to this UE.]
- [FDD If the RADIO LINK RECONFIGURATION REQUEST message includes the *E-RGCH Power Offset* IE in the *RL Specific E-DCH Information* IE, then the DRNS may use this value to determine the E-RGCH power for the RL. The E-RGCH Power Offset should be applied for any E-RGCH transmission to this UE.]
- [FDD If the RADIO LINK RECONFIGURATION REQUEST message includes the *E-HICH Power Offset* IE in the *RL Specific E-DCH Information* IE, then the DRNS may use this value to determine the E-HICH power for the RL. The E-HICH Power Offset should be applied for any E-HICH transmission to this UE.]
- [FDD If the RADIO LINK RECONFIGURATION REQUEST message includes the *E-DCH Power Offset for Scheduling Info* IE, then the DRNS shall use this value as a power offset for the transmission of scheduling information without any MAC-d PDUs.]
- [FDD If the RADIO LINK RECONFIGURATION REQUEST message includes the *SixteenQAM UL Operation Indicator* IE in the *E-DCH FDD Information To Modify* IE, the DRNS shall activate/deactivate SixteenQAM UL Operation for the RL in accordance with the *SixteenQAM UL Operation Indicator* IE.]
  - [FDD If SixteenQAM UL Operation is activated, then the DRNS shall base the handling of the Relative Grant signalling on Scheduling Grant Table 2 according to TS 25.321 [41]. If SixteenQAM UL Operation is deactivated, then the DRNS shall base the handling of the Relative Grant signalling on Scheduling Grant Table 1 according to TS 25.321 [41].]
- [FDD If the RADIO LINK RECONFIGURATION REQUEST message includes the *E-DCH DL Control Channel Grant Information* IE in the *E-DCH FDD Information To Modify* IE, the DRNS may modify E-AGCH Channelisation Code, E-RGCH/E-HICH Channelisation Code, E-RGCH Signature Sequence and/or E-HICH Signature Sequence for the E-DCH RL indicated by the *E-DCH RL ID* IE. The DRNC shall then report the modified configuration which is used in the new configuration specified in the *E-DCH FDD DL Control Channel Information* IE for each E-DCH RL in the RADIO LINK RECONFIGURATION RESPONSE message.]

#### [FDD – E-DCH MAC-d Flow Addition:]

[FDD – If the RADIO LINK RECONFIGURATION REQUEST message includes an *E-DCH MAC-d Flows To Add* IE, then the DRNS shall use this information to add the indicated E-DCH MAC-d flows.]

[FDD – If the RADIO LINK RECONFIGURATION REQUEST message includes the *Maximum MAC-d PDU Size Extended* IE for a E-DCH Logical Channel in the *E-DCH MAC-d Flows Information* IE in the *E-DCH MAC-d Flows To Add* IE, then the DRNS shall ignore the *MAC-d PDU Size* IE in the *MAC-d PDU Size List* IE and use *Maximum MAC-d PDU Size Extended* IE to optimise capacity allocation for the related E-DCH Logical Channel.]

[FDD – If the RADIO LINK RECONFIGURATION REQUEST message includes the *E-DCH MAC-d Flows To Add* IE, then:]

- [FDD The DRNS may use the *Traffic Class* IE for a specific E-DCH MAC-d flow to determine the transport bearer characteristics to apply between DRNC and Node B. If *TrCH Source Statistics Descriptor* IE is present with the value "RRC" in the *E-DCH MAC-d Flows Information* IE, then the DRNC should ignore the *Traffic Class* IE.]
- [FDD If the RADIO LINK RECONFIGURATION REQUEST message includes the *MAC-es Guaranteed Bit Rate* IE in the *E-DCH Logical Channel Information IE* in the *E-DCH MAC-d Flows To Add* IE, the DRNS shall use this information to optimise MAC-e scheduling decisions.]
- [FDD If the RADIO LINK RECONFIGURATION REQUEST message includes the *UE Aggregate Maximum Bit Rate Enforcement Indicator* IE in the *E-DCH Logical Channel Information IE* in the *E-DCH MAC-d Flows To Add* IE, the DRNS shall, if supported, consider the data of the related E-DCH Logical Channel for UE Aggregate Maximum Bit Rate Enforcement.]

#### [FDD – E-DCH MAC-d Flow Deletion:]

[FDD – If the RADIO LINK RECONFIGURATION REQUEST message includes an *E-DCH MAC-d Flows To Delete* IEs, then the DRNS shall use this information to delete the indicated E-DCH MAC-d flows. When an E-DCH MAC-d flow is deleted, all its associated configuration shall also be removed.]

[FDD – If the RADIO LINK RECONFIGURATION REQUEST message includes an *E-DCH MAC-d Flows To Delete* IE requesting the deletion of all remaining E-DCH MAC-d flows for the UE Context, then the DRNC shall delete the E-DCH configuration from the UE Context and release the E-DCH resources.]

#### [FDD – Additional E-DCH Setup:]

[FDD – If the Additional E-DCH Cell Information RL Reconf Req IE is present in the RADIO LINK RECONFIGURATION REQUEST message and the choice of Setup, Configuration Change or Removal of E-DCH On Secondary UL Frequency is "Setup", then the Additional E-DCH Cell Information Setup IE defines the new configuration and then:]

- [FDD If the *C-ID* IE is included in the *Additional E-DCH RL Specific Information To Setup* IE in the *Additional E-DCH FDD Setup Information* IE the *C-ID* IE indicates the cell in which the additional E-DCH shall be setup]
  - [FDD The DRNS shall setup the E-DCH on the secondary uplink frequency and setup the requested E-DCH resources on the Radio Links and in the cells indicated by the *E-DCH Additional RL ID* IE and the *C-ID* IE in the *Additional E-DCH RL Specific Information To Setup* IE in the *Additional E-DCH FDD Setup Information* IE.]
- [FDD If the *C-ID* IE is not included in the *Additional E-DCH RL Specific Information To Setup* IE in the *Additional E-DCH FDD Setup Information* IE the *E-DCH Additional RL ID* IE indicates the existing RL on which the additional E-DCH shall be setup.]
  - [FDD The DRNS shall setup the additional E-DCH on the Radio Links indicated by the *E-DCH Additional RL ID* IE in the *Additional E-DCH RL Specific Information To Setup* IE in the *Additional E-DCH FDD Setup Information* IE]
- [FDD The DRNS shall use for the non cell specific Radio Link related parameters and non cell specific E-DPCH, UL DPCH, E-DCH and F-DPCH parameters the same values as for the corresponding cell of the Primary uplink frequency.]
- [FDD If the *UL SIR Target* IE in the *UL DPCH Information* IE in the *Additional E-DCH FDD Setup Information* IE in the *Additional E-DCH Cell Information Setup* IE and/or the *DL Power Balancing Information* IE and/or the *Minimum Reduced E-DPDCH Gain Factor* IE in the *Multicell E-DCH Information* IE in the *Additional E-DCH FDD Setup Information* IE are present, the DRNS shall use the information in the same same way as for the information used on Primary uplink frequency.]
- [FDD If the Secondary UL Frequency Activation State IE is present in the Multicell E-DCH Information IE in the Additional E-DCH FDD Setup Information IE, the DRNS shall use the information as initial activation state of the Radio Links on the secondary uplink frequency.]

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- [FDD If the Initial DL Tx Power IE, the Primary CPICH Ec/No IE, the E-AGCH Power Offset IE, the E-RGCH Power Offset IE and/or the E-HICH Power Offset IE is included in the Additional E-DCH RL Specific Information To Setup IE in the Additional E-DCH FDD Setup Information IE in the Additional E-DCH Cell Information Setup IE, the DRNS shall use the information in the same way as for the information used on Primary uplink frequency.]
- [FDD If the *Enhanced Primary CPICH Ec/No* IE is included in the *Multicell E-DCH RL Specific Information* IE in the *Additional E-DCH Secondary RL Specific Information To Setup* IE in the *Additional E-DCH FDD Setup Information* IE in the *Additional E-DCH Cell Information Setup* IE, the DRNS shall use the information in the same way as for the information used on Primary uplink frequency.]
- [FDD If the F-DPCH Slot Format Support Request IE in the F-DPCH Information IE in the Additional E-DCH FDD Setup Information IE in the Additional E-DCH Cell Information Setup IE is included, the DRNS shall configure the concerned UE Context for F-DPCH Slot Format operation according to TS 25.211 [8] and include the F-DPCH Slot Format IE in the Additional E-DCH FDD Information Response IE in the Additional E-DCH Cell Information Response IE in the Additional E-DCH Cell Information Response RLReconfIE in the RADIO LINK RECONFIGURATION RESPONSE message. If the Multicell E-DCH Information IE in the Additional E-DCH FDD Setup Information IE includes the F-DPCH Slot Format IE, the DRNS may use the F-DPCH Slot Format IE to determine the F-DPCH slot format.]
- [FDD If the HARQ Process Allocation For 2ms Scheduled Transmission Grant IE, the E-DCH Maximum Bitrate IE, the E-DCH Minimum Set E-TFCI IE and/or the E-DCH Processing Overload Level IE are present in the Additional E-DCH FDD Information IE in the Additional E-DCH FDD Setup Information IE in the Additional E-DCH Cell Information Setup IE, the DRNS shall use the information in the same way as for the information used on Primary uplink frequency.]
- [FDD If activation of power balancing for the Additional E-DCH RL by the RADIO LINK RECONFIGURATION REQUEST message is supported by the DRNS, the DRNS shall include the *DL Power Balancing Activation Indicator* IE in the *Additional E-DCH FDD Information Response* IE in the *Additional E-DCH Cell Information Response RLReconf* IE in the RADIO LINK RECONFIGURATION RESPONSE message.]
- [FDD For each Additional E-DCH RL not having a common generation of the TPC commands in the DL with another Additional E-DCH RL, the DRNS shall set the *RL Set ID* IE included in the *Additional E-DCH FDD Information Response* IE in the RADIO LINK RECONFIGURATION RESPONSE message to a value that uniquely identifies the RL as a RL Set within the UE Context. The generation of E-HICH related information for Additional E-DCH RLs in different RL Sets shall not be common.]
- [FDD For all Additional E-DCH RLs having a common generation of the TPC commands in the DL with another Additional E-DCH RL, the DRNS shall assign to each Additional E-DCH RL the same value for the *RL Set ID* IE included in the *Additional E-DCH FDD Information Response* IE in the RADIO LINK RECONFIGURATION RESPONSE message. This value shall uniquely identify these Additional E-DCH RLs as members of the same RL Set within the UE Context. The generation of E-HICH information for all Additional E-DCH RLs in a RL Set shall be common.]
- [FDD For each Additional E-DCH RL which has or can have a common generation of E-RGCH information with another Additional E-DCH RL (current or future) when the DRNS would contain the Additional E-DCH serving RL, the DRNS shall set a same value to the *E-DCH RL Set ID* IE for the Additional E-DCH RL in the *Additional E-DCH FDD Information Response* IE in the *Additional E-DCH Cell Information Response* RLReconf IE in the RADIO LINK RECONFIGURATION RESPONSE message]
- [FDD For every additional E-DCH RL indicated in the *Additional E-DCH RL Specific Information To Setup* IE in the *Additional E-DCH FDD Setup Information* IE the DRNS may include the *E-AGCH And E-RGCH/E-HICH FDD Scrambling Code* IE and shall include the *E-RGCH/E-HICH Channelisation Code* IE and the corresponding *E-HICH Signature Sequence* IE and the DRNS may include the corresponding *E-RGCH Signature Sequence* IE for each Additional E-DCH RL in the *E-DCH FDD DL Control Channel Information* IE in the *Additional E-DCH FDD Information Response* IE in the *Additional E-DCH Cell Information Response RLReconf* IE in the RADIO LINK RECONFIGURATION RESPONSE message and if DRNS has no valid data for the *E-RGCH/E-HICH Channelisation Code* IE, then it shall insert the *E-RGCH and E-HICH Channelisation Code Validity Indicator* IE to indicate that the *E-RGCH/E-HICH Channelisation Code* IE contains invalid data.]
- [FDD If the Additional Serving E-DCH Radio Link is configured in the DRNS, then:]

- [FDD The DRNS shall allocate a primary E-RNTI identifier or a secondary E-RNTI identifier or both for the corresponding RL and include these E-RNTI identifiers and the channelisation code of the corresponding E-AGCH in the *E-DCH FDD DL Control Channel Information* IE in the *Additional E-DCH FDD Information Response* IE in the *Additional E-DCH Cell Information Response RLReconf* IE in the RADIO LINK RECONFIGURATION RESPONSE message.]
- [FDD The DRNS may include in the *E-DCH FDD DL Control Channel Information* IE in the *Additional E-DCH FDD Information Response* IE in the *Additional E-DCH Cell Information Response RLReconf* IE in the RADIO LINK RECONFIGURATION RESPONSE message the *Serving Grant Value* IE and *Primary/Secondary Grant Selector* IE for the initial grant for the Additional serving E-DCH RL and may include the *Default Serving Grant in DTX Cycle 2* IE.]
- [FDD If the E-DCH HARQ process allocation for 2ms TTI for scheduled transmission shall be changed, the DRNS shall allocate resources according to the new/changed configuration and include the new/changed configuration in the HARQ Process Allocation For 2ms Scheduled Transmission Grant IE in the Additional E-DCH FDD Information Response IE in the Additional E-DCH Cell Information Response IE in the RADIO LINK RECONFIGURATION RESPONSE message.]
- [FDD If Primary CPICH is not to be used as a Phase Reference for this Radio Link on the secondary UL frequency, the DRNS shall include the *Primary CPICH Usage For Channel Estimation* IE set to the value "Primary CPICH shall not be used" in the *Additional E-DCH FDD Information Response* IE in the *Additional E-DCH Cell Information Response RLReconf* IE RADIO LINK RECONFIGURATION RESPONSE message.]
- [FDD If Secondary CPICH may be used as a Phase Reference for this Radio Link on the secondary UL frequency, the DRNS shall include the *Secondary CPICH Information* IE in the *Additional E-DCH FDD Information Response* IE in the *Additional E-DCH Cell Information Response RLReconf* IE in the RADIO LINK RECONFIGURATION RESPONSE message. If the DRNS doesn't include the *Secondary CPICH Information* IE, it shall not include the *Primary CPICH Usage For Channel Estimation* IE set to the value "Primary CPICH shall not be used".]

### [FDD – Additional E-DCH Configuration Change]

[FDD – If the Additional E-DCH Cell Information RL Reconf Req IE is present in the RADIO LINK RECONFIGURATION REQUEST message and the choice of Setup, Configuration Change or Removal of E-DCH On Secondary UL Frequency is "Configuration Change", then the Additional E-DCH Cell Information Configuration Change IE defines the new configuration and then:]

- [FDD If the *Minimum Reduced E-DPDCH Gain Factor* IE and/or the *Common DL Reference Power* IE is present in the *Multicell E-DCH Information* IE in the *Additional E-DCH Configuration Change Information* IE IE the DRNS shall use the information in the same way as for the information that is used on the Primary uplink frequency.]
- [FDD. If the UE Context is configured for F-DPCH Slot Format operation, the DRNS shall include the *F-DPCH Slot Format* IE in the *Additional E-DCH FDD Information Response* IE for new RLs on the secondary UL frequency or in the *Additional Modified E-DCH FDD Information Response* IE for modified RLs in the RADIO LINK RECONFIGURATION RESPONSE message.]

#### [FDD – Additional E-DCH RL Addition:]

[FDD – If the Additional E-DCH RL Specific Information To Add IE is present in the Additional E-DCH Configuration Change Information IE in the Additional E-DCH Configuration Change Information IE, then:]

- [FDD The DRNS shall setup the E-DCH resources, as requested or as configured in the UE context, on the Radio Links indicated by the *E-DCH Additional RL ID* IE. Non cell specific Radio Link related parameters and non cell specific E-DPCH, UL DPCH, E-DCH and F-DPCH parameters shall take the same values as for the corresponding cell of the Primary uplink frequency.]
- [FDD If the *E*-AGCH Power Offset IE, the *E*-RGCH Power Offset IE, the *E*-HICH Power Offset IE is included, the DRNS shall use the information in the same way as for the information used on the Primary uplink frequency.]
- [FDD If the power balancing is active with the Power Balancing Adjustment Type of the UE Context set to "Individual" in the existing Additional E-DCH RL(s) and the RADIO LINK

RECONFIGURATION REQUEST message includes the *DL Reference Power* IE in the *Multicell E-DCH RL Specific Information* IE, the DRNS shall activate the power balancing and use the *DL Reference Power* IE for the power balancing procedure in the new Additional RL(s), if activation of power balancing by the RADIO LINK RECONFIGURATION REQUEST message at RL addition on secondary UL frequency is supported, according to subclause 8.3.15. In this case, the DRNS shall include the *DL Power Balancing Activation Indicator* IE in the *Additional E-DCH FDD Information Response* IE in the *Additional E-DCH Cell Information Response RLReconf* IE in the RADIO LINK RECONFIGURATION RESPONSE message. If the DRNS starts the DL transmission and the activation of the power balancing at the same CFN, the initial power of the power balancing, i.e. *P*<sub>init</sub> shall be set to the power level which is calculated based on the following IEs (if received): *Primary CPICH Ec/No* IE or the *Enhanced Primary CPICH Ec/No* IE in the *Multicell E-DCH RL Specific Information* IE or to the power level which is calculated based on the power relative to the Primary CPICH power used by the existing Additional RLs.]

- [FDD For each Additional E-DCH RL not having a common generation of the TPC commands in the DL with another Additional E-DCH RL, the DRNS shall set the *RL Set ID* IE included in the *Additional E-DCH FDD Information Response* IE in the RADIO LINK RECONFIGURATION RESPONSE message to a value that uniquely identifies the RL as a RL Set within the UE Context. The generation of E-HICH related information for Additional E-DCH RLs in different RL Sets shall not be common.]
- [FDD For all Additional E-DCH RLs having a common generation of the TPC commands in the DL with another Additional E-DCH RL, the DRNS shall assign to each Additional E-DCH RL the same value for the *RL Set ID* IE included in the *Additional E-DCH FDD Information Response* IE in the RADIO LINK RECONFIGURATION RESPONSE message. This value shall uniquely identify these Additional E-DCH RLs as members of the same RL Set within the UE Context. The generation of E-HICH information for all Additional E-DCH RLs in a RL Set shall be common.]
- [FDD For each Additional E-DCH RL which has or can have a common generation of E-RGCH information with another Additional E-DCH RL (current or future) when the DRNS would contain the Additional E-DCH serving RL, the DRNS shall set a same value to the *E-DCH RL Set ID* IE for the Additional E-DCH RL in the Additional E-DCH FDD Information Response IE in the Additional E-DCH Cell Information Response RLReconf IE in the RADIO LINK RECONFIGURATION RESPONSE message]
- [FDD For every additional E-DCH RL indicated in the Additional E-DCH RL Specific Information To Add IE, the DRNS may include the E-AGCH And E-RGCH/E-HICH FDD Scrambling Code IE and shall include the E-RGCH/E-HICH Channelisation Code IE and the corresponding E-HICH Signature Sequence IE and the DRNS may include the corresponding E-RGCH Signature Sequence IE in the E-DCH FDD DL Control Channel Information IE in the Additional E-DCH FDD Information Response IE in the Additional E-DCH Cell Information Response RLReconf IE in the RADIO LINK RECONFIGURATION RESPONSE message and if DRNS has no valid data for the E-RGCH/E-HICH Channelisation Code IE, then it shall insert the E-RGCH/E-HICH Channelisation Code Validity Indicator IE to indicate that the E-RGCH/E-HICH Channelisation Code IE contains invalid data.]
- [FDD If the *Primary CPICH Ec/No* IE or the *Primary CPICH Ec/No* IE and the *Enhanced Primary CPICH Ec/No* IE in the *Multicell E-DCH RL Specific Information* IE measured by the UE are included for a RL in the RADIO LINK RECONFIGURATION REQUEST message, the DRNS shall use this in the calculation of the Initial DL TX Power for this additional RL. If the *Primary CPICH Ec/No* IE is not present, the DRNS shall set the Initial DL TX Power based on the power relative to the Primary CPICH power used by the existing RLs.]

#### [FDD – Additional E-DCH RL Modification:]

[FDD – If the Additional E-DCH RL Specific Information To Modify IE is present in the Additional E-DCH Configuration Change Information IE, then the additional E-DCH RL indicated by the E-DCH Additional RL ID IE indicates the RL on which E-DCH resources shall be modified:]

[FDD – If the E-AGCH Power Offset IE, the E-RGCH Power Offset IE, the E-HICH Power Offset IE, and/or the E-DCH DL Control Channel Grant IE in the Multicell E-DCH RL Specific Information IE is included, the DRNS shall use the information in the same way as for the information used on the Primary uplink frequency.]

- [FDD If the *DL Reference Power* IEs is included in the *Multicell E-DCH RL Specific Information* IE and power balancing is active, DRNS shall apply DL power Control in the same way as defined for the Primary uplink frequency.]
- [FDD If updating of power balancing parameters by the RADIO LINK RECONFIGURATION REQUEST message is supported by the DRNS, the DRNS shall include the *DL Power Balancing Updated Indicator* IE in the *Additional Modified E-DCH FDD Information Response* IE in the *Additional E-DCH Cell Information Response RLReconf* IE for each affected RL in the RADIO LINK RECONFIGURATION RESPONSE message.]
- [FDD If the RADIO LINK RECONFIGURATION RESPONSE message includes the *Primary CPICH Usage For Channel Estimation* IE and/or the *Secondary CPICH Information Change* IE in the *Additional Modified E-DCH FDD Information Response* IE in the *Additional E-DCH Cell Information Response RLReconf* IE, the DRNS shall avoid the new configuration in which neither the Primary CPICH nor the Secondary CPICH is used as a Phase Reference for this Radio Link.]

### [FDD – Additional E-DCH Modification:]

[FDD – If the Additional E-DCH FDD Information To Modify IE is present in the Additional E-DCH Configuration Change Information IE, then:]

- [FDD If the HARQ Process Allocation For 2ms Scheduled Transmission Grant IE, the E-DCH Minimum Set E-TFCI IE and/or the E-DCH Maximum Bitrate IE is included, the DRNS shall use this information for the related resource allocation operation.]
- [FDD If the *E-DCH Processing Overload Level* IE is included, then if the DRNS could not decode the E-DPCCH/E-DPDCH for the last consecutive number of TTIs, indicated in the *E-DCH Processing Overload Level* IE, because of processing issue, the DRNS shall notify the RNC by initiating the Radio Link Failure procedure.]
- [FDD If the DL TX power upper or lower limit has been re-configured for the secondary UL frequency, the DRNS shall include the new value(s) in the *Maximum DL TX Power* IE and *Minimum DL TX Power* IE in the *Additional Modified E-DCH FDD Information Response* IE in the *Additional E-DCH Cell Information Response RLReconf* IE in the RADIO LINK RECONFIGURATION RESPONSE message.
- [FDD The DRNS decides the maximum and minimum SIR for the uplink of the Radio Link(s), and the DRNS shall include in the RADIO LINK RECONFIGURATION RESPONSE message the *Maximum Uplink SIR* IE and *Minimum Uplink SIR* IE in the *Additional Modified E-DCH FDD Information Response* IE in the *Additional E-DCH Cell Information Response RLReconf* IE for each Radio Link when these values are changed.]
- [FDD If the Additional E-DCH serving RL is in this DRNS, the DRNS may choose to change the E-DCH HARQ process allocation for 2ms TTI for scheduled transmission. In this case the DRNS shall allocate resources according to the new/changed configuration and include the new/changed configuration in the HARQ Process Allocation For 2ms Scheduled Transmission Grant IE in the Additional Modified E-DCH FDD Information Response IE in the RADIO LINK RECONFIGURATION RESPONSE message.]

### [FDD – Additional E-DCH Removal]

[FDD – If the Additional E-DCH Cell Information RL Reconf Req IE is present in the RADIO LINK RECONFIGURATION REQUEST message and the choice of Setup, Configuration Change or Removal of E-DCH On Secondary UL Frequency is "Removal", then the additional E-DCH on the secondary uplink frequency shall be removed.]

## [TDD – Intra- DRNS Serving E-DCH Radio Link Change:]

[TDD- If the RADIO LINK RECONFIGURATION REQUEST message includes the *E-DCH Serving RL* IE, this indicates the new Serving E-DCH Radio Link:]

- [TDD – In the new configuration the DRNS shall de-allocate the E-DCH resources of the old Serving E-DCH Radio Link and allocate the E-DCH resources for the new Serving E-DCH Radio Link.]

- [3.84Mcps TDD The DRNS shall allocate E-AGCH parameters corresponding to the E-DCH and include the *E-AGCH Specific Information Response* IE in the *E-DCH TDD Information Response* IE in the RADIO LINK RECONFIGURATION RESPONSE message.]
- [1.28Mcps TDD The DRNS shall allocate E-AGCH parameters and E-HICH parameters corresponding to the E-DCH and include the *E-AGCH Specific Information Response* IE and the *E-HICH Specific Information Response* IE in the *E-DCH Information Response* 1.28Mcps IE in the RADIO LINK RECONFIGURATION RESPONSE message.]
- [7.68Mcps TDD The DRNS shall allocate E-AGCH parameters corresponding to the E-DCH and include the *E-AGCH Specific Information Response* 7.68Mcps IE in the *E-DCH TDD Information Response* 7.68Mcps IE in the RADIO LINK RECONFIGURATION READY message.]
- [TDD If the *TNL QoS* IE is included for a MAC-d flow and if ALCAP is not used, the *TNL QoS* IE may be used by the DRNS to determine the transport bearer characteristics to apply in the uplink for the related MAC-d flow.]

#### [TDD – E-PUCH Handling:]

[3.84Mcps TDD and 7.68Mcps TDD – If the RADIO LINK RECONFIGURATION REQUEST message includes an *E-PUCH Information* IE, the DRNS shall apply the parameters to the new configuration.]

[1.28Mcps TDD – If the RADIO LINK RECONFIGURATION REQUEST message includes an *E-PUCH Information LCR* IE, the DRNS shall apply the parameters to the new configuration]

[TDD – If the RADIO LINK RECONFIGURATION REQUEST message includes an *E*- *TFCS Information* IE, the DRNS shall apply the beta parameters to the new configuration.]

#### [3.84Mcps TDD – E-DCH Setup:]

[3.84Mcps TDD – the radio link may be reconfigured to support E-DCH by including the appropriate E-DCH information elements: *E-DCH Serving RL* IE, *E-PUCH Information* IE, *E-TFCS Information TDD* IE, *E-DCH MAC-d Flows to Add* IE and *E-DCH TDD Information* IE.]

#### [1.28Mcps TDD – E-DCH Setup:]

[1.28cps TDD – the radio link may be reconfigured to support E-DCH by including the appropriate E-DCH information elements: *E-DCH Serving RL* IE, *E-PUCH Information LCR* IE, *E-TFCS Information TDD* IE, *E-DCH MAC-d Flows to Add* IE and *E-DCH TDD Information LCR* IE.]

#### [7.68Mcps TDD – E-DCH Setup:]

[7.68Mcps TDD – the radio link may be reconfigured to support E-DCH by including the appropriate E-DCH information elements: *E-DCH Serving RL* IE, *E-PUCH Information* IE, *E-TFCS Information TDD* IE, *E-DCH MAC-d Flows to Add* IE and *E-DCH TDD Information* 7.68Mcps IE.]

#### [TDD- E-DCH MAC-d Flow Addition/Deletion:]

[TDD- If the RADIO LINK RECONFIGURATION REQUEST message includes any *E-DCH MAC-d Flows To Add* or E-DCH *MAC-d Flows To Delete* IEs, then the DRNS shall use this information to add/delete the indicated E-DCH MAC-d flows. When an E-DCH MAC-d flow is deleted, all its associated configuration data shall also be removed.]

[TDD – If the RADIO LINK RECONFIGURATION REQUEST message includes the *Maximum MAC-d PDU Size Extended* IE for a E-DCH Logical Channel in the *E-DCH MAC-d Flows Information* IE in the *E-DCH TDD Information To Add* IE, then the DRNS shall ignore the *MAC-d PDU Size* IE in the *MAC-d PDU Size List* IE and use *Maximum MAC-d PDU Size Extended* IE to optimise capacity allocation for the related E-DCH Logical Channel.]

[TDD- If the RADIO LINK RECONFIGURATION REQUEST message includes an *E-DCH MAC-d Flows To Delete* IE requesting the deletion of all remaining E-DCH MAC-d flows for the UE Context, then the DRNS shall delete the E-DCH configuration from the UE Context and release the E-DCH resources.]

[TDD- If the RADIO LINK RECONFIGURATION REQUEST message includes the *E-DCH MAC-d Flows To Add* IE, then:]

- [TDD- If the RADIO LINK RECONFIGURATION REQUEST message includes the MAC-es Guaranteed Bit Rate IE in the E-DCH MAC-d Flows To Add IE, the DRNS shall use this information to optimise MAC-e scheduling decisions.]
- [1.28Mcps TDD If the RADIO LINK RECONFIGURATION REQUEST message includes the MAC-es Maximum Bit Rate LCR IE in the E-DCH Logical Channel Information IE in the E-DCH MAC-d Flows To Add IE, the DRNS shall use this information for the related resource allocation operation, and when applicable, for E-DCH scheduling.]

#### [3.84Mcps TDD – E-DCH Non-scheduled allocations:]

[3.84Mcps TDD – The DRNS shall determine any non-scheduled resource to be granted for the radio link, and return this in the *E-DCH Non-scheduled Grant Information TDD* IE in the *E-DCH Information Response* IE in the RADIO LINK RECONFIGURATION RESPONSE message.]

#### [1.28Mcps TDD – E-DCH Non-scheduled allocations:]

[1.28Mcps – The DRNS shall determine any non-scheduled resource to be granted for the radio link, and return this in the *E-DCH Non-scheduled Grant Information LCR TDD* IE in the *E-DCH Information Response 1.28Mcps* IE in the RADIO LINK RECONFIGURATION RESPONSE message.]

#### [7.68Mcps TDD – E-DCH Non-scheduled allocations:]

[7.68Mcps TDD – The DRNS shall determine any non-scheduled resource to be granted for the radio link, and return this in the *E-DCH Non-scheduled Grant Information* 7.68Mcps *TDD* IE in the *E-DCH Information Response* 7.68Mcps IE in the RADIO LINK RECONFIGURATION RESPONSE message.]

#### [3.84Mcps TDD – E-DCH Modification:]

[3.84Mcps TDD – If the RADIO LINK RECONFIGURATION REQUEST message includes the *E-DCH TDD Information* IE, then:]

- [3.84Mcps TDD If the *E-DCH TDD Information* IE includes the *E-DCH TDD Maximum Bitrate* IE for an E-DCH, the DRNS shall use this information for the related resource allocation operation, and when applicable, for E-DCH scheduling.]
- [3.84Mcps TDD If the *E-DCH TDD Information* IE includes the *E-DCH Processing Overload Level* IE, then if the DRNS could not decode the E-PUCH for the last consecutive number of TTIs, indicated in the *E-DCH Processing Overload Level* IE, because of a processing issue, the DRNS shall notify the SRNC by initiating the Radio Link Failure procedure.]
- [3.84Mcps TDD If the *E-DCH TDD Information* IE includes the *E-DCH Power Offset for Scheduling Info* IE, then the DRNS shall use this value as a power offset for the transmission of scheduling information without any MAC-d PDUs.]

#### [1.28Mcps TDD – E-DCH Modification:]

[1.28Mcps TDD – If the RADIO LINK RECONFIGURATION REQUEST message includes the *E-DCH TDD Information LCR* IE, then:]

- [1.28Mcps TDD If the *E-DCH TDD Information LCR* IE includes the *E-DCH Physical Layer Category LCR* IE or *Extended E-DCH Physical Layer Category LCR* IE for an E-DCH, the DRNS shall use this information for the related resource allocation operation, and when applicable, for E-DCH scheduling.]
- [1.28Mcps TDD If the *E-DCH TDD Information LCR* IE includes the *E-DCH Processing Overload Level* IE, then if the DRNS could not decode the E-PUCH for the last consecutive number of TTIs, indicated in the *E-DCH Processing Overload Level* IE, because of a processing issue, the DRNS shall notify the SRNC by initiating the Radio Link Failure procedure.]
- [1.28Mcps TDD If the *E-DCH TDD Information LCR* IE includes the *E-DCH Power Offset for Scheduling Info* IE, then the DRNS shall use this value as a power offset for the transmission of scheduling information without any MAC-d PDUs.]
- [1.28Mcps TDD If the *E-DCH TDD Information LCR* IE includes the *Maximum Number of Retransmission for Scheduling Info LCR* IE and the *E-DCH Retransmission timer for Scheduling Info LCR* IE, then the DRNS shall use these parameters for the transmission of scheduling information without any MAC-d PDUs.]

#### [7.68Mcps TDD – E-DCH Modification:]

[7.68Mcps TDD – If the RADIO LINK RECONFIGURATION REQUEST message includes the *E-DCH TDD Information* 7.68Mcps IE, then:]

- [7.68Mcps TDD If the *E-DCH TDD Information* 7.68Mcps IE includes the *E-DCH TDD Maximum Bitrate* 7.68Mcps IE for an E-DCH, the DRNS shall use this information for the related resource allocation operation, and when applicable, for E-DCH scheduling.]
- [7.68Mcps TDD If the *E-DCH TDD Information 7.68Mcps* IE includes the *E-DCH Processing Overload Level* IE, then if the DRNS could not decode the E-PUCH for the last consecutive number of TTIs, indicated in the *E-DCH Processing Overload Level* IE, because of a processing issue, the DRNS shall notify the SRNC by initiating the Radio Link Failure procedure.]
- [7.68Mcps TDD If the *E-DCH TDD Information 7.68Mcps* IE includes the *E-DCH Power Offset for Scheduling Info* IE, then the DRNS shall use this value as a power offset for the transmission of scheduling information without any MAC-d PDUs.]

[TDD- If the RADIO LINK RECONFIGURATION REQUEST message includes the *E-DCH TDD Information To Modify* IE, then:]

- [TDD- If the *E-DCH TDD Information To Modify* IE contains a *E-DCH MAC-d Flow Specific Information* IE which includes the *Allocation/Retention Priority* IE, the DRNS shall apply the new Allocation/Retention Priority to this E-DCH in the new configuration according to Annex A.]
- [TDD- If the *E-DCH TDD Information To Modify* IE contains a *TNL QoS* IE for an E-DCH MAC-d flow and if ALCAP is not used, the *TNL QoS* IE may be used by the DRNS to determine the transport bearer characteristics to apply in the uplink for the related MAC-d flow.]
- [TDD- If the *E-DCH TDD Information To Modify* IE includes the *Maximum Number of Retransmissions for E-DCH* IE for an E-DCH MAC-d flow then the DRNS shall use this information to report if the maximum number of retransmissions has been exceeded.]
- [1.28Mcps TDD If the *E-DCH TDD Information To Modify* IE includes the *E-DCH MAC-d Flow Retransmission Timer* IE for an E-DCH MAC-d flow then the DRNS shall use this information to set the retransmission timer.]
- [TDD- If the *TNL QoS* IE is included in the *E-DCH TDD Information to Modify* IE for an E-DCH MAC-d flow and if ALCAP is not used, the *TNL QoS* IE may be used by the DRNS to determine the transport bearer characteristics to apply in the uplink for the related MAC-d flow.]
- [TDD- If the *E-DCH TDD Information To Modify* IE includes the *E-DCH HARQ Power Offset TDD* IE for an E-DCH MAC-d flow the DRNS shall use this new power offset value.]
- [TDD- If the *E-DCH TDD Information To Modify* IE includes the *E-DCH MAC-d Flow Multiplexing List* IE for an E-DCH MAC-d flow the DRNS shall use this information for the related resource allocation operation.]
- [TDD- If the *E-DCH TDD Information To Modify* IE contains the *E-DCH Grant Type* IE, the DRNS shall treat the E-DCH MAC-d flow as Scheduled or Non-scheduled accordingly.]
- [TDD- If the *E-DCH TDD Information To Modify* IE includes the *E-DCH Logical Channel To Add* or *E-DCH Logical Channel To Delete* IEs, the DRNS shall use this information to add/delete the indicated logical channels. When a logical channel is deleted, all its associated configuration data shall also removed.]
- [TDD- If the *E-DCH TDD Information To Modify* IE includes the *E-DCH Logical Channel To Modify* IE, the DRNS shall use this information to modify the indicated logical channels:]
  - [TDD If the *E-DCH Logical Channel To Modify* IE includes *Scheduling Priority Indicator* IE, the DRNS shall apply the values in the new configuration.]
  - [TDD If the *E-DCH Logical Channel To Modify* IE includes *Scheduling Information* IE, the DRNS shall apply the values in the new configuration.]
  - [TDD If the *E-DCH Logical Channel To Modify* IE includes *MAC-es Guaranteed Bit Rate* IE, the DRNS shall apply the values in the new configuration.]

- [TDD If the *E-DCH Logical Channel To Modify* IE includes E-*DCH DDI Value* IE, the DRNS shall apply the values in the new configuration.]
- [1.28Mcps TDD If the *E-DCH Logical Channel To Modify* IE includes *MAC-es Maximum Bit Rate LCR* IE, the DRNS shall use this information for the related resource allocation operation, and when applicable, for E-DCH scheduling.]
- [TDD If the *E-DCH Logical Channel To Modify* IE includes the *Maximum MAC-d PDU Size Extended* IE, the DRNC shall apply the value in the new configuration.]
- [TDD- If the *E-DCH TDD Information To Modify* IE includes the *MAC-e Reset Indicator* IE, then the DRNS shall use this value to determine whether MAC-e (or MAC-i) Reset is performed in the UE for sending the HARQ Failure Indication.]

#### General:

If the requested modifications are allowed by the DRNS, and if the DRNS has successfully allocated the required resources and changed to the new configuration, the DRNC shall respond to the SRNC with the RADIO LINK RECONFIGURATION RESPONSE message.

If the RADIO LINK RECONFIGURATION REQUEST message includes the *RL Specific DCH Information* IE, *HS-DSCH Information* IE, *HS-DSCH Information To Modify Unsynchronised* IE, *HS-DSCH MAC-d Flows To Add* IE, [FDD – *RL Specific E-DCH Information* IE] [TDD – *E-DCH MAC-d Flows to Add* IE], the DRNC may use the transport layer address and the binding identifier received from the SRNC when establishing a transport bearer for any Transport Channel [FDD – for which the *Transport Bearer Not Requested Indicator* IE is not included], HS-DSCH MAC-d flow [FDD – for which the *Transport Bearer Not Requested Indicator* IE is not included] being added, or any Transport Channel [FDD – for which the *Transport Channel [FDD – for Which the Transport Bearer Not Requested Indicator* IE is not included] or HS-DSCH MAC-d flow being modified for which a new transport bearer was requested with the *Transport Bearer Request Indicator* IE.

The DRNC shall include the *Transport Layer Address* IE and the *Binding ID* IE in the RADIO LINK RECONFIGURATION RESPONSE message for any Transport Channel [FDD – for which the *Transport Bearer Not Requested Indicator* IE is not included], HS-DSCH MAC-d flow being added or E-DCH MAC-d flow [FDD – for which the *Transport Bearer Not Requested Indicator* IE is not included] being added, or any Transport Channel [FDD – for which the *Transport Bearer Not Requested Indicator* IE was not included], HS-DSCH MAC-d flow or E-DCH MAC-d flow [FDD – for which the *Transport Bearer Not Requested Indicator* IE was not included], HS-DSCH MAC-d flow or E-DCH MAC-d flow [FDD – for which the *Transport Bearer Not Requested Indicator* IE was not included] being modified for which a new transport bearer was requested with the *Transport Bearer Request Indicator* IE. The detailed frame protocol handling during transport bearer replacement is described in TS 25.427 [4], subclause 5.10.1, and in TS 25.425 [32], subclause 5.3.2.

- [FDD If the RADIO LINK RECONFIGURATION REQUEST message includes the *Transport Bearer Not Requested Indicator* IE set to "Transport Bearer Shall not be Established" for a DCH or an E-DCH MAC-d flow being added, then the DRNC shall not establish a transport bearer for the concerned DCH or E-DCH MAC-d flow and shall include the *Transport Bearer Not Setup Indicator* IE for the corresponding DCH or E-DCH MAC-d flow in the RADIO LINK RECONFIGURATION RESPONSE message.]
- [FDD If the RADIO LINK RECONFIGURATION REQUEST message includes the *Transport Bearer Not* Requested Indicator IE set to "Transport Bearer may not be Established" for a DCH or an E-DCH MAC-d flow being added and:]
  - [FDD if the DRNC establishes a transport bearer for the concerned DCH or E-DCH MAC-d flow, the DRNC shall include in the RADIO LINK RECONFIGURATION RESPONSE message the *Binding ID* IE and *Transport Layer Address* IE for establishment of a transport bearer for the DCH or E-DCH MAC-d flow being established.]
  - [FDD if the DRNC does not establish a transport bearer for the concerned DCH or E-DCH MAC-d flow, the DRNC shall include the *Transport Bearer Not Setup Indicator* IE for the corresponding DCH or E-DCH MAC-d flow in the RADIO LINK RECONFIGURATION RESPONSE message.]

In the case of a set of co-ordinated DCHs requiring a new transport bearer on the Iur interface, the DRNC shall include the *Transport Layer Address* IE and the *Binding ID* IE in the *DCH Information Response* IE only for one of the DCHs [FDD – for which the *Transport Bearer Not Requested Indicator* IE is not included] in the set of co-ordinated DCHs.

In the case of a Radio Link being combined with another Radio Link within the DRNS, the DRNC shall include the *Transport Layer Address* IE and the *Binding ID* IE [FDD for the concerned DCH for which the *Transport Bearer Not Requested Indicator* IE is not included] in the *DCH Information Response* IE in the RADIO LINK RECONFIGURATION RESPONSE message for only one of the combined Radio Links.

[FDD – In the case of an E-DCH RL being combined with another E-DCH RL within the DRNS, the *E-DCH FDD Information Response* IE shall be included only for one of the combined E-DCH RLs.]

[FDD – If the RADIO LINK RECONFIGURATION REQUEST message includes the Additional E-DCH Cell Information RL Reconf Req IE, then:]

- [FDD if the *Multicell E-DCH Transport Bearer Mode* IE for an Additional E-DCH to be Setup is set to "Separate Iur Transport Bearer Mode" the DRNS shall use this mode in the new configuration and apply separate transport bearers for the MAC-d flows.]
- [FDD if the *Multicell E-DCH Transport Bearer Mode* IE for an Additional E-DCH to be Setup is set to "UL Flow Multiplexing Mode" the DRNS shall use this mode in the new configuration and multiplex MAC-d flows on the transport bearers.]
- [FDD if Separate Iur Transport Bearer Mode is used in the new configuration, then:]
  - [FDD the DRNS shall follow the rules defined in this procedure for single carrier mode of operation for establishment of the transport bearer for a MAC-d flow, use the *Transport Bearer Not Requested Indicator* IE in the *RL Specific E-DCH Information* IE in the *RL Information* IE and/or the *Transport Bearer Request Indicator* IE in the *E-DCH FDD Information To Modify* IE received for the corresponding Radio Link(s) of the Primary Uplink Frequency to determine the transport bearer configuration in the new configuration for the radio links of the Secondary Uplink Frequency.]
  - [FDD If the Transport Layer Address IE and Binding ID IE is included for an E-DCH MAC-d flow in the Additional E-DCH MAC-d Flows Specific Information IE in the Additional E-DCH RL Specific Information To Setup IE in the Additional E-DCH FDD Setup Information IE in the Additional E-DCH Cell Information Setup IE or in the Additional E-DCH RL Specific Information To Add IE and/or the Additional E-DCH RL Specific Information To Add IE and/or the Additional E-DCH RL Specific Information To Modify IE in the Additional E-DCH Configuration Change Information IE in the Additional E-DCH Cell Information Configuration Change IE, then the DRNS may use the transport layer address and the binding identifier received from the SRNC when establishing a transport bearer for the concerned E-DCH MAC-d flow. If the DRNS establishes a transport bearer for the concerned E-DCH MAC-d flow. If the DRNS establishes a transport bearer for the CONFIGURATION RESPONSE message in the Additional E-DCH Cell Information Response RLReconf IE the Binding ID IE and Transport Layer Address IE in the Additional E-DCH FDD Information Response IE for new E-DCH radio links on the Secondary UL frequency and/or include the Binding ID IE and Transport Layer Address IE in the Additional E-DCH MAC-d Flow Specific Information Response IE for new E-DCH radio

Any allowed rate for the uplink of a modified DCH provided for the old configuration will not be valid for the new configuration. If the DRNS needs to limit the user rate in the uplink of a DCH due to congestion caused by the UL UTRAN Dynamic Resources (see subclause 9.2.1.79) in the new configuration for a Radio Link, the DRNC shall include in the RADIO LINK RECONFIGURATION RESPONSE message the *Allowed UL Rate* IE in the *DCH Information Response* IE for this Radio Link.

Any allowed rate for the downlink of a modified DCH provided for the old configuration will not be valid for the new configuration. If the DRNS needs to limit the user rate in the downlink of a DCH due to congestion caused by the DL UTRAN Dynamic Resources (see subclause 9.2.1.79) in the new configuration for a Radio Link, the DRNC shall include in the RADIO LINK RECONFIGURATION RESPONSE message the *Allowed DL Rate* IE in the *DCH Information Response* IE for this Radio Link.

The DRNS decides the maximum and minimum SIR for the uplink of the Radio Link(s), and the DRNC shall include in the RADIO LINK RECONFIGURATION RESPONSE message the *Maximum Uplink SIR* IE and *Minimum Uplink SIR* IE for each Radio Link when these values are changed.

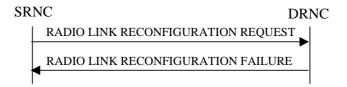
[FDD – If the DL TX power upper or lower limit has been re-configured, the DRNC shall include the new value(s) in the *Maximum DL TX Power* IE and *Minimum DL TX Power* IE in the RADIO LINK RECONFIGURATION RESPONSE message. The DRNS shall not transmit with a higher power than indicated by the *Maximum DL TX Power* IE or lower than indicated by the *Minimum DL TX Power* IE on any DL DPCH or on the F-DPCH of the RL except, if

the UE Context is configured to use DPCH in the downlink, during compressed mode, when the  $\delta P_{curr}$ , as described in ref.TS 25.214 [10] subclause 5.2.1.3, shall be added to the maximum DL power for the associated compressed frame.]

[3.84 Mcps TDD and 7.68 Mcps TDD – If the DL TX power upper or lower limit has been re-configured, the DRNC shall include the new value(s) in the *Maximum DL TX Power* IE and *Minimum DL TX Power* IE in the RADIO LINK RECONFIGURATION RESPONSE message. If the maximum or minimum power needs to be different for particular DCH type CCTrCHs, the DRNC shall include the new value(s) for that CCTrCH in the *CCTrCH Maximum DL TX Power* IE and *CCTrCH Minimum DL TX Power*. The DRNS shall not transmit with a higher power than indicated by the appropriate *Maximum DL TX Power* IE/CCTrCH Maximum DL TX Power IE or lower than indicated by the appropriate *Minimum DL TX Power* IE/CCTrCH Minimum DL TX Power IE on any DL DPCH within each CCTrCH of the RL.]

[1.28 Mcps TDD – If the DL TX power upper or lower limit has been re-configured, the DRNC shall include the new value(s) in the *Maximum DL TX Power* IE and *Minimum DL TX Power* IE in the RADIO LINK RECONFIGURATION RESPONSE message. If the maximum or minimum power needs to be different for particular timeslots within a DCH type CCTrCH, the DRNC shall include the new value(s) for that timeslot in the *Maximum DL TX Power* IE and *Minimum DL TX Power* IE. The DRNS shall not transmit with a higher power than indicated by the appropriate *Maximum DL TX Power* IE or lower than indicated by the appropriate *Minimum DL TX Power* IE or lower than indicated by the appropriate *Minimum DL TX Power* IE or any DL DPCH within each timeslot of the RL.]

# 8.3.7.3 Unsuccessful Operation



#### Figure 15: Unsynchronised Radio Link Reconfiguration procedure, Unsuccessful Operation

If the DRNS cannot allocate the necessary resources for all the new DCHs in a set of co-ordinated DCHs requested to be added, it shall reject the Unsynchronised Radio Link Reconfiguration procedure as having failed.

If the requested Unsynchronised Radio Link Reconfiguration procedure fails for one or more Radio Link(s), the DRNC shall send the RADIO LINK RECONFIGURATION FAILURE message to the SRNC, indicating the reason for failure.

[FDD – If the *MIMO Activation Indicator* IE is included and the *Power Offset For S-CPICH for MIMO Request Indicator* IE is not included in the *HS-DSCH FDD Information* IE in the *HS-DSCH Serving Cell Change Information* IE in the RADIO LINK RECONFIGURATION REQUEST message or MIMO is activated and the power offset for S-CPICH for MIMO Request indicator has not been configured in the UE Context but MIMO pilot configuration with Primary and Secondary CPICH is set up with a non-zero power offset on the cell where the Serving HS-DSCH Radio Link is established, the setup of the serving HS-DSCH Radio Link, and/or activation of MIMO, shall be reported as failed and the DRNC shall include in the RADIO LINK RECONFIGURATION FAILURE message the *Cause* IE.]

Typical cause values are:

#### **Radio Network Layer Causes:**

UL Scrambling Code Already in Use; DL Radio Resources not Available; UL Radio Resources not Available; Requested Configuration not Supported; CM not Supported; E-DCH not supported; [FDD – Continuous Packet Connectivity DTX-DRX operation not Supported;] [FDD – Continuous Packet Connectivity HS-SCCH less operation not Supported;] [FDD – MIMO not supported;] [FDD – E-DCH TTI2ms not supported;] [FDD – Continuous Packet Connectivity DTX-DRX operation not available;] [FDD – Continuous Packet Connectivity DTX-DRX operation not available;] [FDD – Continuous Packet Connectivity UE DTX Cycle not available;] [FDD – MIMO not available;] [FDD – SixteenQAM UL not Supported;] HS-DSCH MAC-d PDU Size Format not supported; E-DCH MAC-d PDU Size Format not available; [FDD – E-DPCCH Power Boosting not supported;] [FDD - SixtyfourQAM DL and MIMO Combined not available;] [FDD – Multi Cell operation not available;] [FDD – Multi Cell operation not supported;] [FDD – SixtyfourQAM DL and MIMO Combined not supported;] [1.28Mcps TDD – MIMO not available;] [1.28Mcps TDD- SixteenQAM UL not Supported;] [1.28Mcps TDD - SixtyfourQAM DL and MIMO Combined not available;] [FDD – Single Stream MIMO not supported;] [FDD – Single Stream MIMO not available;] [FDD – Multi Cell operation with MIMO not available;] [FDD – Multi Cell operation with MIMO not supported;] [FDD – Multi Cell E-DCH Operation not supported;] [FDD – Multi Cell E-DCH Operation not available;]

- [FDD Multi Cell operation with Single Stream MIMO not available;]
- [FDD Multi Cell operation with Single Stream MIMO not supported.]

#### **Miscellaneous Causes:**

Control Processing Overload; Not enough User Plane Processing Resources.

# 8.3.7.4 Abnormal Conditions

If only a subset of all the DCHs belonging to a set of co-ordinated DCHs is requested to be deleted, the DRNS shall reject the Unsynchronised Radio Link Reconfiguration procedure as having failed, and the DRNC shall send the RADIO LINK RECONFIGURATION FAILURE message to the SRNC.

If more than one DCH of a set of co-ordinated DCHs has the *QE-Selector* IE set to "selected" [TDD – or no DCH of a set of co-ordinated DCHs has the *QE-Selector* IE set to "selected"], the DRNS shall reject the Unsynchronised Radio Link Reconfiguration procedure, and the DRNC shall respond with a RADIO LINK RECONFIGURATION FAILURE message.

If the RADIO LINK RECONFIGURATION REQUEST message includes a *DCHs To Modify* IE or *DCHs To Add* IE with multiple *DCH Specific Info* IEs, and if the DCHs in the *DCHs To Modify* IE or *DCHs To Add* IE do not have the same *Transmission Time Interval* IE in the *Semi-static Transport Format Information* IE, then the DRNC shall reject the procedure using the RADIO LINK RECONFIGURATION FAILURE message.

[FDD – If the RADIO LINK RECONFIGURATION REQUEST message includes the *DL Reference Power Information* IE, but the power balancing is not active in the indicated RL(s), the DRNS shall reject the Unsynchronised Radio Link Reconfiguration procedure as having failed and the DRNC shall respond the RADIO LINK RECONFIGURATION FAILURE message with the cause value "Power Balancing status not compatible".]

[FDD – If the power balancing is active with the Power Balancing Adjustment Type of the UE Context set to "Common" in the existing RL(s) but the *DL Reference Power Information* IE includes the *Individual DL Reference Power Information* IE, the DRNS shall reject the Unsynchronised Radio Link Reconfiguration procedure as having failed and the DRNC shall respond with the RADIO LINK RECONFIGURATION FAILURE message with the cause value "Power Balancing status not compatible".]

[FDD – If the power balancing is active with the Power Balancing Adjustment Type of the UE Context set to "Individual" in the existing RL(s) but the *DL Reference Power Information* IE includes the *Common DL Reference Power* IE, the DRNS shall reject the Unsynchronised Radio Link Reconfiguration procedure as having failed and the DRNC shall respond with the RADIO LINK RECONFIGURATION FAILURE message with the cause value "Power Balancing status not compatible".]

If the RADIO LINK RECONFIGURATION REQUEST message contains the *Transport Layer Address* IE or the *Binding ID* IE when establishing a transport bearer for any Transport Channel or HS-DSCH MAC-d flow being added, or any Transport Channel or HS-DSCH MAC-d flow being modified for which a new transport bearer was requested with the *Transport Bearer Request Indicator* IE., and not both are present for a transport bearer intended to be established, the DRNC shall reject the Unsynchronised Radio Link Reconfiguration procedure, and the DRNC shall respond with a RADIO LINK RECONFIGURATION FAILURE message.

If the RADIO LINK RECONFIGURATION REQUEST message contains any of the *HS-DSCH Information To Modify* IE, *HS-DSCH MAC-d Flows To Add* IE or *HS-DSCH MAC-d Flows To Delete* IE in addition to the *HS-DSCH Information* IE, the DRNC shall reject the procedure using the RADIO LINK RECONFIGURATION FAILURE message.

If the RADIO LINK RECONFIGURATION REQUEST message contains any of the *HS-DSCH Information To Modify* IE, *HS-DSCH MAC-d Flows To Add* IE, *HS-DSCH MAC-d Flows To Delete* IE or *HS-PDSCH RL ID* IE and the Serving HS-DSCH Radio Link is not in the DRNS, the DRNC shall reject the procedure using the RADIO LINK RECONFIGURATION FAILURE message.

If the RADIO LINK RECONFIGURATION REQUEST message includes the *HS-DSCH Information* IE and does not include the *HS-PDSCH RL-ID* IE, the DRNC shall reject the procedure using the RADIO LINK RECONFIGURATION FAILURE message.

If the RADIO LINK RECONFIGURATION REQUEST message includes the *HS-PDSCH RL-ID* IE indicating a Radio Link not existing in the UE Context, the DRNS shall reject the procedure using the RADIO LINK RECONFIGURATION FAILURE message.

If the RADIO LINK RECONFIGURATION REQUEST message contains any of the *HS-DSCH Information* IE, *HS-DSCH Information To Modify* IE, or *HS-DSCH MAC-d Flows To Add* IE and if in the new configuration the Priority Queues associated with the same *HS-DSCH MAC-d Flow ID* IE have the same *Scheduling Priority Indicator* IE value, the DRNC shall reject the procedure using the RADIO LINK RECONFIGURATION FAILURE message.

If, in the new configuration, the concerned UE Context is configured to use "Indexed MAC-d PDU Size" for an HS-DSCH but there exist a priority queue of the MAC-d flows of the HS-DSCH that is configured to use Maximum MACd PDU Size Extended, the DRNC shall reject the procedure using the RADIO LINK RECONFIGURATION FAILURE message.

If, in the new configuration, the concerned UE Context is configured to use "Flexible MAC-d PDU Size" for an HS-DSCH but there exist a priority queue of the MAC-d flows of the HS-DSCH that is configured to use MAC-d PDU Size Index, the DRNC shall reject the procedure using the RADIO LINK RECONFIGURATION FAILURE message.

If, in the new configuration, the UE Context is configured to use "Fixed MAC-d PDU Size" for an E-DCH and there exist a Logical Channel of the MAC-d flows of the E-DCH that is configured to use Maximum MAC-d PDU Size Extended, the DRNC shall reject the procedure using the RADIO LINK RECONFIGURATION FAILURE message.

If, in the new configuration, the concerned UE Context is configured to use "Flexible MAC-d PDU Size" for an E-DCH and there exist a Logical Channel of the MAC-d flows of the E-DCH that is configured to use MAC-d PDU Size List, the DRNC shall reject the procedure using the RADIO LINK RECONFIGURATION FAILURE message.

If the RADIO LINK RECONFIGURATION REQUEST message includes *HS-DSCH Information* IE and the HS-DSCH is already configured in the UE Context, the DRNC shall reject the procedure using the RADIO LINK RECONFIGURATION FAILURE message.

[FDD – If the *E-DCH FDD Information* IE is present in the RADIO LINK RECONFIGURATION REQUEST message, but the *E-DPCH Information* IE is not present or if any of the *Maximum Set of E-DPDCHs* IE, *Puncture Limit* IE, *E-TFCS Information* IE, *E-TTI* IE, *E-DPCCH Power Offset* IE, *E-RGCH 2-Index-Step Threshold* IE, *E-RGCH 3-Index-Step Threshold* IE, *HARQ Info for E-DCH* IE or *HS-DSCH Configured Indicator* IE are not present in the *E-DPCH Information* IE, then the DRNS shall reject the procedure using the RADIO LINK RECONFIGURATION FAILURE message.]

[FDD – If any of the *HS-DSCH Configured Indicator* IE, *Maximum Set of E-DPDCHs* IE, *Puncture Limit* IE or *E-TTI* IE are present in the *E-DPCH Information* IE and the *E-DCH FDD Information* IE is not present in the RADIO LINK RECONFIGURATION REQUEST message, then the DRNS shall reject the procedure using the RADIO LINK RECONFIGURATION FAILURE message.]

[FDD – If the RADIO LINK RECONFIGURATION REQUEST message includes the *E-DCH RL Indication* IE set to "E-DCH", but no *E-DCH FDD Information* IE, and the UE Context is not configured for E-DCH, then the DRNC shall reject the procedure using the RADIO LINK RECONFIGURATION FAILURE message.]

[FDD – If the RADIO LINK RECONFIGURATION REQUEST message includes the *E-DCH FDD Information* IE but no *E-DCH RL Indication* IE set to "E-DCH", then the DRNC shall reject the procedure using the RADIO LINK RECONFIGURATION FAILURE message.]

If the RADIO LINK RECONFIGURATION REQUEST message contains the *HS-PDSCH RL ID* IE and/or the *Serving E-DCH RL* IE and if both HS-DSCH and E-DCH are configured in the new configuration but the Serving HS-DSCH Radio Link and the Serving E-DCH Radio Link are not in the same cell then the DRNC shall reject the procedure using the RADIO LINK RECONFIGURATION FAILURE message.

[FDD – If the RADIO LINK RECONFIGURATION REQUEST message contains the *HS-PDSCH RL ID* IE and the *E-DPCH Information* IE which includes the *HS-DSCH Configured Indicator* IE set as "HS-DSCH not configured" then the DRNC shall reject the procedure using the RADIO LINK RECONFIGURATION FAILURE message.]

[FDD – If the RADIO LINK RECONFIGURATION REQUEST message contains any of the *E-DCH FDD Information To Modify* IE, *E-DCH MAC-d Flows To Add* IE or *E-DCH MAC-d Flows To Delete* IE in addition to the *E-DCH FDD Information* IE, the DRNC shall reject the procedure using the RADIO LINK RECONFIGURATION FAILURE message.]

[FDD – If the RADIO LINK RECONFIGURATION REQUEST message contains any of the *E-DCH FDD Information To Modify* IE, *E-DCH MAC-d Flows To Add* IE, *E-DCH MAC-d Flows To Delete* IE and the UE Context is not configured for E-DCH, the DRNC shall reject the procedure using the RADIO LINK RECONFIGURATION FAILURE message.]

[FDD – If the RADIO LINK RECONFIGURATION REQUEST message includes the *E-DCH FDD Information To Modify* IE deleting the last remaining E-DCH Logical Channel of an E-DCH MAC-d Flow, the DRNC shall reject the procedure using the RADIO LINK RECONFIGURATION FAILURE message.]

[FDD – If the RADIO LINK RECONFIGURATION REQUEST message includes *E-DCH FDD Information* IE and the E-DCH is already configured in the UE Context, the DRNC shall reject the procedure using the RADIO LINK RECONFIGURATION FAILURE message.]

[FDD – If the RADIO LINK RECONFIGURATION REQUEST message includes the *Continuous Packet Connectivity* DTX-DRX Information To Modify IE in addition to the *Continuous Packet Connectivity* DTX-DRX Information IE, then the DRNC shall reject the procedure using the RADIO LINK RECONFIGURATION FAILURE message.]

[FDD – If the RADIO LINK RECONFIGURATION REQUEST message includes the *Continuous Packet Connectivity HS-SCCH less Deactivate Indicator* IE in addition to the *Continuous Packet Connectivity HS-SCCH less Information* IE, the DRNC shall reject the procedure using the RADIO LINK RECONFIGURATION FAILURE message.]

[FDD – If the RADIO LINK RECONFIGURATION REQUEST message includes the *Continuous Packet Connectivity HS-SCCH less Deactivate Indicator* IE while the Continuous Packet Connectivity HS-SCCH less configuration isn't configured in the DRNC, the DRNC shall reject the procedure using the RADIO LINK RECONFIGURATION FAILURE message.]

[FDD – If the RADIO LINK RECONFIGURATION REQUEST message includes the *Continuous Packet Connectivity DTX-DRX Information To Modify* IE while the Continuous Packet Connectivity *DTX-DRX* configuration isn't configured in the DRNC, the DRNC shall reject the procedure using the RADIO LINK RECONFIGURATION FAILURE message.]

[FDD – If the RADIO LINK RECONFIGURATION REQUEST message includes the *DRX Information To Modify* IE in *Continuous Packet Connectivity DTX-DRX Information To Modify* IE while the Continuous Packet Connectivity DRX configuration is not configured in the DRNC, the DRNC shall reject the procedure using the RADIO LINK RECONFIGURATION FAILURE message.]

If the *DCHs to Modify* IE contains a *DCH Specific Info* IE which includes the *Unidirectional DCH Indicator* IE set to "Uplink DCH only" but no *Transport Format Set* IE for the uplink for this DCH and the DRNC had ignored the configuration of Transport Format Set for uplink, the DRNC shall reject the procedure using the RADIO LINK RECONFIGURATION FAILURE message.

If the *DCHs to Modify* IE contains a *DCH Specific Info* IE which includes the *Unidirectional DCH Indicator* IE set to "Downlink DCH only" but no *Transport Format Set* IE for the downlink for this DCH and the DRNC had ignored the configuration of Transport Format Set for downlink, the DRNC shall reject the procedure using the RADIO LINK RECONFIGURATION FAILURE message.

[FDD – If the RADIO LINK RECONFIGURATION REQUEST message contains the *Transport Bearer Not Requested Indicator* IE for a DCH or an E-DCH MAC-d flow but does not contain the corresponding *DCH ID* IE and the *Unidirectional DCH indicator* IE set to "Uplink DCH only" for the DCH in *DCH Information To Add* IE or does not contain the corresponding *E-DCH MAC-d Flow ID* IE in *E-DCH MAC-d Flows Information* IE, the DRNC shall reject the procedure using the RADIO LINK RECONFIGURATION FAILURE message.]

[FDD – If the concerned UE Context is configured to apply UL DPCCH Slot Format 0 or 2 and execute Continuous Packet Connectivity DTX-DRX operation, then the DRNC shall reject the procedure using the RADIO LINK RECONFIGURATION FAILURE message.]

[FDD – If the concerned UE Context is configured to apply MIMO, allowed to apply 64QAM, establish the secondary serving HS-DSCH Radio Link or apply Single Stream MIMO in the new configuration but is not configured to use flexible MAC-d PDU Size, then the DRNC shall reject the procedure using the RADIO LINK RECONFIGURATION FAILURE message.]

[FDD – If the RADIO LINK RECONFIGURATION REQUEST message contains the *Additional HS Cell Information RL Reconf Req* IE indicating a new seconadry serving cell that is not in the same Node B as the serving HS-DSCH cell (or new serving in case of simultaneous serving HS-DSCH cell change), then the DRNC shall reject the procedure using the RADIO LINK RECONFIGURATION FAILURE message]

[FDD – If the RADIO LINK RECONFIGURATION REQUEST message includes the *Transport Bearer Not Requested Indicator* IE for a DCH in the *RL Specific DCH Information* IE but does not include the *DCH ID* IE for the DCH in the *DCHs to Add* IE, the DRNC shall reject the procedure using the RADIO LINK RECONFIGURATION FAILURE message.]

[FDD – If the RADIO LINK RECONFIGURATION REQUEST message includes the *Transport Bearer Not Requested Indicator* IE for an E-DCH MAC-d flow in the *RL Specific E-DCH Information* IE but does not include the *E-DCH MAC-d flow ID* IE for the E-DCH MAC-d flow in the *E-DCH MAC-d flows Information* IE, the DRNC shall reject the procedure using the RADIO LINK RECONFIGURATION FAILURE message.]

[FDD – If the RADIO LINK RECONFIGURATION REQUEST message contains the *Continuous Packet Connectivity DTX-DRX Information* IE but the concerned UE Context is not previously configured to use F-DPCH, then the DRNC shall reject the procedure using the RADIO LINK RECONFIGURATION FAILURE message]

[FDD – If the concerned UE Context is configured to have the Serving E-DCH Radio Link but there is at least one E-DCH MAC-d flow which the transport bearer is not configured for the Serving E-DCH Radio Link in DRNS, the DRNC shall reject the procedure using the RADIO LINK RECONFIGURATION FAILURE message.]

[FDD – If the RADIO LINK RECONFIGURATION REQUEST message includes the *Transport Bearer Not Requested Indicator* IE for a DCH or an E-DCH MAC-d Flow for a specific RL and the specific RL is combined with existing RL which the transport bearer is established for the DCH or the E-DCH MAC-d Flow in the DRNS, the DRNC shall reject the procedure using the RADIO LINK RECONFIGURATION FAILURE message.]

If ALCAP is not used, if the concerned UE Context is configured to establish a DCH, an E-DCH MAC-d flow and/or an HS-DSCH MAC-d flow but the RADIO LINK RECONFIGURATION REQUEST message does not include the *Transport Layer Address* IE and the *Binding ID* IE for the DCH, the E-DCH MAC-d flow and/or HS-DSCH MAC-d flow, the DRNC shall reject the procedure using the RADIO LINK RECONFIGURATION FAILURE message.

If, in the new configuration, there exist a priority queue of the MAC-d flows of the HS-DSCH that is configured to use "Flexible RLC PDU Size" for an HS-DSCH but is not configured to use Maximum MAC-d PDU Size Extended, the DRNC shall reject the procedure using the RADIO LINK RECONFIGURATION FAILURE message.

If, in the new configuration, the concerned UE Context is configured to use MAC-d PDU Size Index for an HS-DSCH but there exist a priority queue of the MAC-d flows of the HS-DSCH that is configured to use "Flexible RLC PDU Size", the DRNC shall reject the procedure using the RADIO LINK RECONFIGURATION FAILURE message.

[FDD – If the RADIO LINK RECONFIGURATION REQUEST message contains a *MIMO Activation Indicator* IE and a *Single Stream MIMO Activation Indicator* IE in the *HS-DSCH FDD Information* IE or in the *HS-DSCH FDD Secondary Serving Information* IE in the *Additional HS Cell Information RL Reconf Req* IE, then the DRNC shall reject the procedure using the RADIO LINK RECONFIGURATION FAILURE message.]

[FDD – If the concerned UE Context is configured to apply MIMO and Single Stream MIMO for the HS-DSCH Radio Link or the Secondary Serving Radio link, the DRNC shall reject the procedure using the RADIO LINK RECONFIGURATION FAILURE message.]

[FDD – If the RADIO LINK RECONFIGURATION REQUEST message contains the *Additional E-DCH Cell Information RL Reconf Req* IE and if the *E-DPCH Information* IE is not present or the E-DPCH Information was not configured in the UE Context, then the DRNS shall reject the procedure using the RADIO LINK RECONFIGURATION FAILURE message.]

[FDD – If the RADIO LINK RECONFIGURATION REQUEST message contains the *Additional E-DCH Cell Information RL Reconf Req* IE and there exist a logical channel for which the *Maximum MAC-d PDU Size Extended* IE in the *E-DCH MAC-d Flows Information* IE in the *E-DCH FDD Information* IE is not present, the DRNS shall reject the procedure using the RADIO LINK RECONFIGURATION FAILURE message.]

[FDD – If the RADIO LINK RECONFIGURATION REQUEST message contains the Additional E-DCH RL Specific Information To Setup IE in the Additional E-DCH FDD Setup Information IE in the Additional E-DCH Cell Information Setup IE in the Additional E-DCH Cell Information RL Reconf Req IE and the C-ID IE is not included but the RL indicated by the E-DCH Additional RL ID IE is not configured in the current UE context as a Secondary Serving HS-DSCH radio link without any configured Additional E-DCH, the DRNS shall reject the procedure using the RADIO LINK RECONFIGURATION FAILURE message.]

# 8.3.8 Physical Channel Reconfiguration

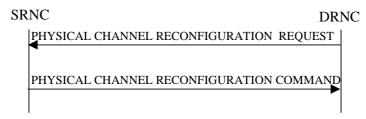
# 8.3.8.1 General

The Physical Channel Reconfiguration procedure is used by the DRNS to request the SRNC to reconfigure one of the configured physical channels.

This procedure shall use the signalling bearer connection for the relevant UE Context.

The DRNS shall not initiate the Physical Channel Reconfiguration procedure if a Prepared Reconfiguration exists as defined in subclause 3.1, or if a Synchronised Radio Link Reconfiguration Preparation procedure, Unsynchronised Radio Link Reconfiguration procedure or Radio Link Deletion procedure is ongoing for the relevant UE context.

# 8.3.8.2 Successful Operation



## Figure 16: Physical Channel Reconfiguration procedure, Successful Operation

When the DRNC detects the need to modify one of its physical channels, it shall send a PHYSICAL CHANNEL RECONFIGURATION REQUEST to the SRNC.

The PHYSICAL CHANNEL RECONFIGURATION REQUEST message contains the new value(s) of the physical channel parameter(s) of the radio link for which the DRNC is requesting the reconfiguration.

[FDD – If compressed mode is prepared or active and at least one of the downlink compressed mode methods is "SF/2", the DRNC shall include the *Transmission Gap Pattern Sequence Scrambling Code Information* IE in the *DL Code Information* IE in the PHYSICAL CHANNEL RECONFIGURATION REQUEST message indicating for each DL Channelisation Code whether the alternative scrambling code will be used or not if the downlink compressed mode methods "SF/2" is activated.]

[TDD – The SRNC shall apply the new values for any of [3.84Mcps TDD – *UL Code Information* IE, *Midamble Shift And Burst Type* IE,] [1.28Mcps TDD – *UL Code Information LCR* IE, *Midamble Shift LCR* IE,] [7.68 Mcps TDD – *UL Code Information* 7.68 Mcps IE, *Midamble Shift And Burst Type* 7.68 Mcps IE,] TDD DPCH Offset IE, Repetition Period IE, Repetition Length IE, or TFCI presence IE included in the *UL DPCH Information* IE within the PHYSICAL CHANNEL RECONFIGURATION REQUEST message, otherwise the previous values specified for this DPCH shall still apply.]

[TDD – The SRNC shall apply the new values for any of [3.84Mcps TDD – *DL Code Information* IE, *Midamble Shift* And Burst Type IE,] [1.28Mcps TDD – *DL Code Information LCR* IE, *Midamble Shift LCR* IE,] [7.68 Mcps TDD – *DL* Code Information 7.68 Mcps IE, Midamble Shift And Burst Type 7.68 Mcps IE,] TDD DPCH Offset IE Repetition *Period* IE, *Repetition Length* IE, or *TFCI presence* IE included in the *DL DPCH Information* IE within the PHYSICAL CHANNEL RECONFIGURATION REQUEST message, otherwise the previous values specified for this DPCH shall still apply.]

[3.84 Mcps TDD – If the PHYSICAL CHANNEL RECONFIGURATION REQUEST includes *HS-PDSCH Timeslot Specific Information* IE the SRNC shall apply the values of the *Midamble Shift And Burst Type* IE for each HS-PDSCH timeslot.]

[1.28 Mcps TDD – If the PHYSICAL CHANNEL RECONFIGURATION REQUEST includes *HS-PDSCH Timeslot Specific Information LCR* IE the SRNC shall apply the values of the *Midamble Shift LCR* IE for each HS-PDSCH timeslot.]

[1.28 Mcps TDD – if the PHYSICAL CHANNEL RECONFIGURATION REQUEST includes the *PLCCH Information* IE the SRNC shall modify, delete or grant a new PLCCH assignment to the indicated timeslot of the indicated UL DCH-type CCTrCH according to its content.]

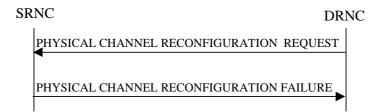
[7.68 Mcps TDD – If the PHYSICAL CHANNEL RECONFIGURATION REQUEST includes *HS-PDSCH Timeslot Specific Information 7.68 Mcps* IE the SRNC shall apply the values of the *Midamble Shift And Burst Type 7.68 Mcps* IE for each HS-PDSCH timeslot.]

[FDD – If the PHYSICAL CHANNEL RECONFIGURATION REQUEST includes *F-DPCH Slot Format* IE the SRNC shall apply the values of the *F-DPCH Slot Formats* IE for F-DPCH Slot Format operation.]

Upon receipt of the PHYSICAL CHANNEL RECONFIGURATION REQUEST, the SRNC shall decide an appropriate execution time for the change. The SRNC shall respond with a PHYSICAL CHANNEL RECONFIGURATION COMMAND message to the DRNC that includes the *CFN* IE indicating the execution time.

At the CFN, the DRNS shall switch to the new configuration that has been requested, and release the resources related to the old physical channel configuration.

# 8.3.8.3 Unsuccessful Operation



## Figure 17: Physical Channel Reconfiguration procedure, Unsuccessful Operation

If the SRNC cannot accept the reconfiguration request it shall send the PHYSICAL CHANNEL RECONFIGURATION FAILURE message to the DRNC, including the reason for the failure in the *Cause* IE.

Typical cause values are:

#### **Radio Network Layer Causes:**

- Reconfiguration not Allowed.

# 8.3.8.4 Abnormal Conditions

While waiting for the PHYSICAL CHANNEL RECONFIGURATION COMMAND message, if the DRNC receives any of the RADIO LINK RECONFIGURATION PREPARE, RADIO LINK RECONFIGURATION REQUEST, or RADIO LINK DELETION REQUEST messages, the DRNC shall abort the Physical Channel Reconfiguration procedure. These messages thus override the DRNC request for physical channel reconfiguration.

When the SRNC receives a PHYSICAL CHANNEL RECONFIGURATION REQUEST message while a Synchronised Radio Link Reconfiguration procedure, Unsynchronised Radio Link Reconfiguration procedure or Radio Link Deletion procedure is ongoing, the SRNC shall ignore the request message and assume that receipt of any of the messages RADIO LINK RECONFIGURATION PREPARE, RADIO LINK RECONFIGURATION REQUEST or RADIO LINK

DELETION REQUEST by the DRNC has terminated the Physical Channel Reconfiguration procedure. In this case the SRNC shall not send a PHYSICAL CHANNEL RECONFIGURATION FAILURE message to the DRNC.

# 8.3.9 Radio Link Failure

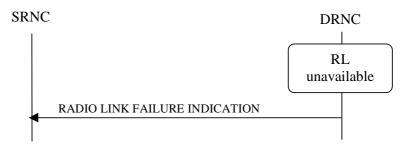
### 8.3.9.1 General

This procedure is started by the DRNS when one or more Radio Links [FDD – or Radio Link Sets][TDD – or CCTrCHs within a Radio Link] are no longer available.

This procedure shall use the signalling bearer connection for the relevant UE Context.

The DRNS may initiate the Radio Link Failure procedure at any time after establishing a Radio Link.

### 8.3.9.2 Successful Operation



#### Figure 18: Radio Link Failure procedure, Successful Operation

When the DRNC detects that one or more Radio Link(s) [FDD – or Radio Link Set(s)] [TDD – or CCTrCHs within a Radio Link] are no longer available, it shall send the RADIO LINK FAILURE INDICATION message to the SRNC. The message indicates the failed Radio Link(s) [FDD – or Radio Link Set(s)] [TDD – or CCTrCHs] with the most appropriate cause values defined in the *Cause* IE. If the failure concerns one or more individual Radio Links the DRNC shall include the affected Radio Link(s) using the *RL Information* IE. [FDD – If the failure concerns one or more Radio Link Set(s) the DRNC shall include the affected Radio Link Set(s) using the *RL Set Information* IE.] [TDD – If the failure concerns only the failure of one or more CCTrCHs within in a radio link the DRNC shall include the affected CCTrCHs using the *CCTrCH ID* IE.]

When the RL Failure procedure is used to notify loss of UL synchronisation of a [FDD – Radio Link Set] [TDD – Radio Link or CCTrCHs within a Radio Link] on the Uu interface, the RADIO LINK FAILURE INDICATION message shall be sent with the *Cause* IE set to "Synchronisation Failure" when indicated by the UL synchronisation detection algorithm defined in ref. TS 25.214 [10] subclause 4.3 and TS 25.224 [22] subclause 4.4.2.

[FDD – When the Radio Link Failure procedure is used to indicate permanent failure in one or more Radio Link(s)/Radio Link Set(s) due to the occurrence of an UL or DL frame with more than one transmission gap caused by one or more compressed mode pattern sequences, the DL transmission shall be stopped and the RADIO LINK FAILURE INDICATION message shall be sent with the *Cause Value* IE set to "Invalid CM Settings". After sending the RADIO LINK FAILURE INDICATION message to notify the permanent failure, the DRNS shall not remove the Radio Link(s)/Radio Link Set(s) from the UE Context, or remove the UE Context itself.]

[FDD – When the Radio Link Failure Procedure is used to indicate E-DCH non serving cell processing issue, the RADIO LINK FAILURE INDICATION shall be sent, with the *Cause* IE set to "Not enough user plane processing resources".]

In the other cases the Radio Link Failure procedure is used to indicate that one or more Radio Link(s) [FDD – or Radio Link Set(s)] are permanently unavailable and cannot be restored. After sending the RADIO LINK FAILURE INDICATION message to notify the permanent failure, the DRNS shall not remove the Radio Link from the UE Context, or remove the UE Context itself. When applicable, the allocation retention priorities associated with the transport channels shall be used by the DRNS to prioritise which Radio Links to indicate as unavailable to the SRNC.

Typical cause values are:

#### **Radio Network Layer Causes:**

Synchronisation Failure; Invalid CM Settings.

#### **Transport Layer Causes:**

Transport Resources Unavailable.

#### **Miscellaneous Causes:**

Control Processing Overload; HW Failure; O&M Intervention; Not enough user plane processing resources.

# 8.3.9.3 Abnormal Conditions

# 8.3.10 Radio Link Restoration

# 8.3.10.1 General

This procedure is used to notify establishment and re-establishment of UL synchronisation of one or more [FDD - RL Set(s)] [TDD – Radio Links or CCTrCH(s) in a Radio Link] on the Uu interface.

This procedure shall use the signalling bearer connection for the relevant UE Context.

The DRNC may initiate the Radio Link Restoration procedure at any time after establishing a Radio Link.

# 8.3.10.2 Successful Operation



## Figure 19: Radio Link Restoration procedure, Successful Operation

The DRNC shall send the RADIO LINK RESTORE INDICATION message to the SRNC when and as specified by the UL Uu synchronisation detection algorithm defined in ref. TS 25.214 [10] subclause 4.3 and TS 25.224 [22] subclause 4.4.2 [FDD -, or when the *Fast Reconfiguration Mode* IE has been included in the RADIO LINK RECONFIGURATION COMMIT message and the DRNS has detected that the UE has changed to the new configuration. The algorithm in ref. TS 25.214 [10] shall use the minimum value of the parameters N\_INSYNC\_IND that are configured in the cells supporting the radio links of the RL Set.]

[TDD – If the re-established UL Uu synchronisation concerns one or more individual Radio Links the DRNC shall include in the RADIO LINK RESTORE INDICATION message the *RL Information* IE to indicate the affected Radio Link(s). If the re-established synchronisation concerns one or more individual CCTrCHs within a radio link the DRNS shall include in the RADIO LINK RESTORE INDICATION message the *RL Information* IE to indicate the affected CCTrCHs.] [FDD – If the re-established UL Uu synchronisation concerns one or more Radio Link Sets the DRNC shall include in the RADIO LINK RESTORE INDICATION message the *RL Set Information* IE to indicate the affected Radio Link Sets the DRNC shall include in the RADIO LINK RESTORE INDICATION message the *RL Set Information* IE to indicate the affected Radio Link Set(s).]

[FDD – The DRNC shall send the RADIO LINK RESTORE INDICATION message when the E-DCH processing issue condition has ceased.]

## 8.3.10.3 Abnormal Conditions

# 8.3.11 Dedicated Measurement Initiation

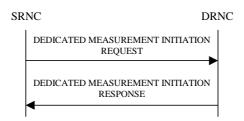
## 8.3.11.1 General

This procedure is used by an SRNS to request the initiation of dedicated measurements in a DRNS.

This procedure shall use the signalling bearer connection for the relevant UE Context.

The Dedicated Measurement Initiation procedure shall not be initiated if a Prepared Reconfiguration exists, as defined in subclause 3.1.

# 8.3.11.2 Successful Operation



### Figure 20: Dedicated Measurement Initiation procedure, Successful Operation

The procedure is initiated with a DEDICATED MEASUREMENT INITIATION REQUEST message sent from the SRNC to the DRNC.

Upon receipt, the DRNC shall initiate the requested dedicated measurement according to the parameters given in the DEDICATED MEASUREMENT INITIATION REQUEST message.

If the Dedicated Measurement Object Type is indicated as being "RL" in the DEDICATED MEASUREMENT INITIATION REQUEST message, measurement results shall be reported for all the indicated Radio Links.

[FDD – If the Dedicated Measurement Object Type is indicated as being "RLS" in the DEDICATED MEASUREMENT INITIATION REQUEST message, measurement results shall be reported for all the indicated Radio Link Sets.]

[FDD – If the Dedicated Measurement Object Type is indicated as being "ALL RL" in the DEDICATED MEASUREMENT INITIATION REQUEST message, measurement results shall be reported for all current and future Radio Links within the UE Context.]

[TDD – If the Dedicated Measurement Object Type is indicated as being "ALL RL" in the DEDICATED MEASUREMENT INITIATION REQUEST message, measurement results shall be reported for one existing DPCH per CCTrCH in each used time slot of current and future Radio Links within the UE Context, provided the measurement type is applicable to the respective DPCH.]

[FDD – If the Dedicated Measurement Object Type is indicated as being "ALL RLS" in the DEDICATED MEASUREMENT INITIATION REQUEST message, measurement results shall be reported for all the existing and future Radio Link Sets within the UE Context.]

[TDD – If the *DPCH ID* IE or *DPCH ID* 7.68*Mcps* IE is provided within the RL Information, the measurement request shall apply for the requested physical channel individually. If no *DPCH ID* IE, *DPCH ID* 7.68*Mcps* IE or *HS-SICH ID* IE is provided within the RL Information the measurement request shall apply for one existing DPCH per CCTrCH in each used time slot of the Radio Link, provided the measurement type is applicable to this DPCH.]

[TDD – If the *HS-SICH Information* IE is provided within the RL Information, the measurement request shall apply for the requested physical channel individually.]

[TDD – If the *Dedicated Measurement Type* IE is set to "HS-SICH reception quality ", the DRNS shall initiate measurements of the failed, missed and total HS-SICH transmissions on all of the HS-SICH assigned to this UE Context. If either the failed or missed HS-SICH transmission satisfies the requested report characteristics, the DRNS

shall report the result of both failed and missed transmission measurements along with the total number of transmissions.]

#### **Report characteristics**

The *Report Characteristics* IE indicates how the reporting of the dedicated measurement shall be performed. See also Annex B.

If the *Report Characteristics* IE is set to "On Demand" and if the *CFN* IE is not provided, the DRNS shall report the measurement result immediately in the DEDICATED MEASUREMENT INITIATION RESPONSE message. If the *CFN* IE is provided, it indicates the frame for which the measurement value shall be provided. The provided measurement value shall be the one reported by the layer 3 filter, referred to as point C in the measurement model in TS 25.302 [26].

If the *Report Characteristics* IE is set to "Periodic" and if the *CFN* IE is not provided, the DRNS shall immediately and periodically initiate the Dedicated Measurement Reporting procedure for this measurement, with a frequency as specified by the *Report Periodicity* IE. If the *CFN* IE is provided, the DRNS shall initiate a Dedicated Measurement Reporting procedure for this measurement at the CFN indicated in the *CFN* IE, and shall repeat this initiation periodically thereafter with a frequency as specified by the *Report Periodicity* IE. The provided measurement value shall be the one reported by the layer 3 filter, referred to as point C in the measurement model in TS 25.302 [26].

If the *Report Characteristics* IE is set to "Event A", the DRNS shall initiate the Dedicated Measurement Reporting procedure when the measured entity rises above the requested threshold, as specified by the *Measurement Threshold* IE, and then stays above the threshold for the requested hysteresis time, as specified by the *Measurement Hysteresis Time* IE. If the *Measurement Hysteresis Time* IE is not included, the DRNC shall use the value zero for the hysteresis time.

If the *Report Characteristics* IE is set to "Event B", the DRNS shall initiate the Dedicated Measurement Reporting procedure when the measured entity falls below the requested threshold, as specified by the *Measurement Threshold* IE, and then stays below the threshold for the requested hysteresis time, as specified by the *Measurement Hysteresis Time* IE. If the *Measurement Hysteresis Time* IE is not included, the DRNC shall use the value zero for the hysteresis time.

If the *Report Characteristics* IE is set to "Event C", the DRNS shall initiate the Dedicated Measurement Reporting procedure when the measured entity rises more than the requested threshold specified by the *Measurement Increase/Decrease Threshold* IE, and only when this rise occurs within the requested rising time specified by the *Measurement Change Time* IE. After reporting this type of event, DRNS shall not initiate the next C event reporting for the same measurement during the subsequent time specified by the *Measurement Change Time* IE.

If the *Report Characteristics* IE is set to "Event D", the DRNS shall initiate the Dedicated Measurement Reporting procedure when the measured entity falls more than the requested threshold specified by the *Measurement Increase/Decrease Threshold* IE, and only when this falls occurs within the requested falling time specified by the *Measurement Change Time* IE. After reporting this type of event, the DRNS shall not initiate the next D event reporting for the same measurement during the subsequent time specified by the *Measurement Change Time* IE.

If the *Report Characteristics* IE is set to "Event E", the DRNS shall initiate the Dedicated Measurement Reporting procedure when the measured entity rises above the *Measurement Threshold 1* IE and stays above the threshold for the *Measurement Hysteresis Time* IE (Report A). When the conditions for Report A are met and if the *Report Periodicity* IE is provided, the DRNS shall initiate the Dedicated Measurement Reporting procedure periodically with the requested report frequency specified by the *Report Periodicity* IE. If the conditions for Report A have been met and the measured entity falls below the *Measurement Threshold 2* IE and stays below the threshold for the *Measurement Hysteresis Time* IE, the DRNS shall initiate the Dedicated Measurement Reporting procedure (Report B) and shall terminate any corresponding periodic reporting. If the *Measurement Threshold 2* IE is not present, the DRNS shall use the value of the *Measurement Threshold 1* IE instead. If the *Measurement Hysteresis Time* IE is not included, the DRNC shall use the value zero as hysteresis times for both Report A and Report B.

If the *Report Characteristics* IE is set to "Event F", the DRNS shall initiate the Dedicated Measurement Reporting procedure when the measured entity falls below the *Measurement Threshold 1* IE and stays below the threshold for the *Measurement Hysteresis Time* IE (Report A). When the conditions for Report A are met and if the *Report Periodicity* IE is provided, the DRNS shall initiate the Dedicated Measurement Reporting procedure periodically with the requested report frequency specified by the *Report Periodicity* IE. If the conditions for Report A have been met and the measured entity rises above the *Measurement Threshold 2* IE and stays above the threshold for the *Measurement Hysteresis Time* IE, the DRNS shall initiate the Dedicated Measurement Reporting procedure (Report B) and shall terminate any corresponding periodic reporting. If the *Measurement Threshold 2* IE is not present, the DRNS shall use the value of the *Measurement Threshold 1* IE instead. If the *Measurement Hysteresis Time* IE is not included, the DRNC shall use the value zero as hysteresis times for both Report A and Report B.

If the *Report Characteristics* IE is not set to "On –Demand", the DRNS is required to perform reporting for a dedicated measurement object, in accordance with the conditions provided in the DEDICATED MEASUREMENT INITIATION REQUEST message, as long as the object exists. If no dedicated measurement object(s) for which a measurement is defined exists any more, the DRNS shall terminate the measurement locally without reporting this to the SRNC.

If at the start of the measurement, the reporting criteria are fulfilled for any of Event A, Event B, Event E or Event F, the DRNS shall initiate the Dedicated Measurement Reporting procedure immediately, and then continue with the measurements as specified in the DEDICATED MEASUREMENT INITIATION REQUEST message.

#### Higher layer filtering

The *Measurement Filter Coefficient* IE indicates how filtering of the dedicated measurement values shall be performed before measurement event evaluation and reporting.

The averaging shall be performed according to the following formula.

$$F_n = (1-a) \cdot F_{n-1} + a \cdot M_n$$

The variables in the formula are defined as follows:

 $F_n$  is the updated filtered measurement result

 $F_{n-1}$  is the old filtered measurement result

 $M_n$  is the latest received measurement result from physical layer measurements, the unit used for  $M_n$  is the same unit as the reported unit in the DEDICATED MEASUREMENT INITIATION RESPONSE, DEDICATED MEASUREMENT REPORT messages or the unit used in the event evaluation (i.e. same unit as for Fn).

 $A = \frac{1}{2}^{(k/2)}$ , where k is the parameter received in the *Measurement Filter Coefficient* IE. If the *Measurement Filter Coefficient* IE is not present, *a* shall be set to 1 (no filtering)

In order to initialise the averaging filter,  $F_0$  is set to  $M_1$  when the first measurement result from the physical layer measurement is received.

#### **Measurement Recovery Behavior:**

If the *Measurement Recovery Behavior* IE is included in the DEDICATED MEASUREMENT INITIATION REQUEST message, the DRNS shall, if Measurement Recovery Behavior is supported, include the *Measurement Recovery Support Indicator* IE in the DEDICATED MEASUREMENT INITIATION RESPONSE message and perform the Measurement Recovery Behavior as described in subclause 8.3.12.2.

#### **Response message**

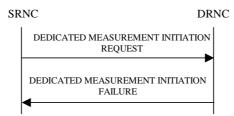
If the DRNS was able to initiate the measurement requested by the SRNS it shall respond with the DEDICATED MEASUREMENT INITIATION RESPONSE message. The message shall include the same Measurement ID that was used in the DEDICATED MEASUREMENT INITIATION REQUEST message.

In the case in which the Report Characteristics IE is set to "On Demand":

- The DRNC shall include the measurement result in the *Dedicated Measurement Value* IE within the DEDICATED MEASUREMENT INITIATION RESPONSE message.
- If the *CFN Reporting Indicator* IE is set to "FN Reporting Required", the *CFN* IE shall be included in the DEDICATED MEASUREMENT INITIATION RESPONSE message. The reported CFN shall be the CFN at the time when the dedicated measurement value was reported by the layer 3 filter, referred to as point C in the measurement model in TS 25.302 [26].
- [TDD If the measurement was made on a particular DPCH, the DEDICATED MEASUREMENT INITIATION RESPONSE message shall include the DPCH ID of that DPCH in the [1.28Mcps TDD and 3.84Mcps TDD – DPCH ID IE] [7.68Mcps TDD – DPCH ID 7.68Mcps IE].]
- [TDD If the measurement was made on a particular HS-SICH, the DEDICATED MEASUREMENT INITIATION RESPONSE message shall include the ID of that HS-SICH in the *HS-SICH ID* IE.]

[FDD – If the *Alternative Format Reporting Indicator* IE is set to "Alternative format is allowed" in the DEDICATED MEASUREMENT INITIATION REQUEST message, the DRNC may include the *Extended Round Trip Time* IE in the DEDICATED MEASUREMENT INITIATION RESPONSE message.]

# 8.3.11.3 Unsuccessful Operation



## Figure 21: Dedicated Measurement Initiation procedure, Unsuccessful Operation

If the requested measurement cannot be initiated for one of the RL/RLS, the DRNC shall send a DEDICATED MEASUREMENT INITIATION FAILURE message. The message shall include the same *Measurement ID* IE that was used in the DEDICATED MEASUREMENT INITIATION REQUEST message and shall include the *Cause* IE set to an appropriate value.

If the DEDICATED MEASUREMENT INITIATION REQUEST message includes the *Partial Reporting Indicator* IE, the DRNS shall, if partial reporting is supported, separate the unsuccessful measurement initiations from the successful measurement initiations. For the successful measurement initiations on a RL or an RLS, the DRNS shall include the *Successful RL Information* IE or the *Successful RL Set Information* IE for the concerned RL or RLS if the Report *Characteristics* IE in the DEDICATED MEASUREMENT INITIATION REQUEST message was set to "On Demand". For the unsuccessful measurement initiations, the DRNS shall include the *Individual Cause* IE set to an appropriate value if it differs from the value of the *Cause* IE.

Typical cause values are:

#### **Radio Network Layer Causes:**

Measurement not Supported For The Object Measurement Temporarily not Available

#### **Miscellaneous Causes:**

Control Processing Overload HW Failure

# 8.3.11.4 Abnormal Conditions

The allowed combinations of the Dedicated Measurement Type and Report Characteristics Type are shown in the table below marked with "X". For not allowed combinations, the DRNS shall reject the Dedicated Measurement Initiation procedure using the DEDICATED MEASUREMENT INITIATION FAILURE message.

Dedicated Measurement Type	Report Characteristics Type								
	On Demand	Periodic	Event A	Event B	Event C	Event D	Event E	Event F	On Modification
SIR	Х	Х	Х	Х	Х	Х	Х	Х	
SIR Error	Х	Х	Х	Х	Х	Х	Х	Х	
Transmitted Code Power	Х	Х	Х	Х	Х	Х	Х	Х	
RSCP	Х	Х	Х	Х	Х	Х	Х	Х	
Rx Timing Deviation	Х	Х	Х	Х			Х	Х	
Round Trip Time	Х	Х	Х	Х	Х	Х	Х	Х	
Rx Timing Deviation	Х	Х	Х	Х			Х	Х	
HS-SICH Reception Quality	Х	Х	Х	Х			Х	Х	
Angle Of Arrival LCR	Х	Х							
Rx Timing Deviation 7.68Mcps	Х	Х	Х	Х			Х	Х	
Rx Timing Deviation 3.84Mcps Extended	Х	Х	Х	Х			Х	Х	

### Table 4: Allowed Dedicated Measurement Type and Report Characteristics Type combinations

If the Dedicated Measurement Type received in the *Dedicated Measurement Type* IE is not defined in ref. TS 25.215 [11] or TS 25.225 [14] to be measured on the Dedicated Measurement Object Type received in the DEDICATED MEASUREMENT INITIATION REQUEST message, the DRNS shall reject the Dedicated Measurement Initiation procedure.

If the *CFN* IE is included in the DEDICATED MEASUREMENT INITIATION REQUEST message and the *Report Characteristics* IE is other than "Periodic" or "On Demand", the DRNS shall reject the Dedicated Measurement Initiation procedure, and the DRNC shall send a DEDICATED MEASUREMENT INITIATION FAILURE message.

# 8.3.12 Dedicated Measurement Reporting

## 8.3.12.1 General

This procedure is used by the DRNS to report the results of the successfully initiated measurements requested by the SRNS with the Dedicated Measurement Initiation procedure.

This procedure shall use the signalling bearer connection for the relevant UE Context.

The DRNC may initiate the Dedicated Measurement Reporting procedure at any time after establishing a Radio Link.

# 8.3.12.2 Successful Operation



## Figure 22: Dedicated Measurement Reporting procedure, Successful Operation

If the requested measurement reporting criteria are met, the DRNS shall initiate the Dedicated Measurement Reporting procedure. If the measurement was initiated (by the Dedicated Measurement Initiation procedure) for multiple dedicated measurement objects, the DRNC may include dedicated measurement values in the *Dedicated Measurement Value Information* IE for multiple objects in the DEDICATED MEASUREMENT REPORT message.

The *Measurement ID* IE shall be set to the Measurement ID provided by the SRNC when initiating the measurement with the Dedicated Measurement Initiation procedure.

If the achieved measurement accuracy does not fulfil the given accuracy requirement specified in ref. TS 25.133 [23] and TS 25.123 [24] or the measurement is temporarily not available in case Measurement Recovery Behavior is supported, the Measurement not available shall be reported in the *Dedicated Measurement Value Information* IE in the DEDICATED MEASUREMENT REPORT message, otherwise the DRNC shall include the *Dedicated Measurement Value Information* IE. If the DRNC was configured to perform the Measurement accuracy again fullfils the given accuracy requirement (see ref. TS 25.133 [23] and TS 25.123 [24]) and include the *Measurement Recovery Report Indicator* IE in the DEDICATED MEASUREMENT REPORT message if the requested measurement reporting criteria are not met.

If the CFN Reporting Indicator when initiating the measurement with the Dedicated Measurement Initiation procedure was set to "FN Reporting Required", the DRNC shall include the *CFN* IE in the DEDICATED MEASUREMENT REPORT message. The reported CFN shall be the CFN at the time when the dedicated measurement value was reported by the layer 3 filter, referred to as point C in the measurement model in TS 25.302 [26].

[TDD – If the measurement was made on a particular DPCH, the DEDICATED MEASUREMENT REPORT message shall include the DPCH ID of that DPCH in the [1.28Mcps TDD and 3.84Mcps TDD – *DPCH ID* IE] [7.68Mcps TDD – *DPCH ID* 7.68Mcps IE].]

[TDD – If the measurement was made on a particular HS-SICH, the DEDICATED MEASUREMENT INITIATION RESPONSE message shall include the ID of that HS-SICH in the *HS-SICH ID* IE.]

[FDD – If the *Alternative Format Reporting Indicator* IE was set to "Alternative format is allowed" in the DEDICATED MEASUREMENT INITIATION REQUEST message setting up the measurement to be reported, the DRNC may include the *Extended Round Trip Time* IE in the DEDICATED MEASUREMENT REPORT message.]

8.3.12.3 Abnormal Conditions

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# 8.3.13 Dedicated Measurement Termination

# 8.3.13.1 General

This procedure is used by the SRNS to terminate a measurement previously requested by the Dedicated Measurement Initiation procedure.

This procedure shall use the signalling bearer connection for the relevant UE Context.

The Dedicated Measurement Termination procedure shall not be initiated if a Prepared Reconfiguration exists, as defined in subclause 3.1.

## 8.3.13.2 Successful Operation



#### Figure 23: Dedicated Measurement Termination procedure, Successful Operation

This procedure is initiated with a DEDICATED MEASUREMENT TERMINATION REQUEST message, sent from the SRNC to the DRNC.

Upon receipt, the DRNS shall terminate reporting of dedicated measurements corresponding to the received *Measurement ID* IE.

# 8.3.13.3 Abnormal Conditions

# 8.3.14 Dedicated Measurement Failure

## 8.3.14.1 General

This procedure is used by the DRNS to notify the SRNS that a measurement previously requested by the Dedicated Measurement Initiation procedure can no longer be reported. When partial reporting is allowed and supported, this procedure shall be used to report that measurement for one or more RL/RLS can no longer be reported.

This procedure shall use the signalling bearer connection for the relevant UE Context.

The DRNC may initiate the Dedicated Measurement Failure procedure at any time after establishing a Radio Link.

# 8.3.14.2 Successful Operation



### Figure 24: Dedicated Measurement Failure procedure, Successful Operation

This procedure is initiated with a DEDICATED MEASUREMENT FAILURE INDICATION message, sent from the DRNC to the SRNC, to inform the SRNC that a previously requested dedicated measurement can no longer be reported. The DRNC has locally terminated the indicated measurement. The DRNC shall include in the DEDICATED MEASUREMENT FAILURE INDICATION message the reason for the failure in the *Cause* IE.

The DRNS shall include Unsuccessful RL Information IE or the Unsuccessful RL Set Information IE for the concerned RL or RLS if partial reporting is allowed and it is supported. The DRNS shall include the Individual Cause IE set to an appropriate value if it differs from the value of the Cause IE.

Typical cause values are:

#### Miscellaneous Causes:

- Control Processing Overload
- HW Failure
- O&M Intervention

## 8.3.14.3 Abnormal Conditions

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# 8.3.15 Downlink Power Control [FDD]

# 8.3.15.1 General

The purpose of this procedure is to balance the DL transmission powers of one or more radio links for one UE.

This procedure shall use the signalling bearer connection for the relevant UE Context.

The Downlink Power Control procedure may be initiated by the SRNC at any time after establishing a Radio Link. If the SRNC has initiated in this DRNS the deletion of the last Radio Link for this UE context, the Downlink Power Control procedure shall not be initiated.

# 8.3.15.2 Successful Operation



Figure 25: Downlink Power Control procedure, Successful Operation

The Downlink Power Control procedure is initiated by the SRNC sending a DL POWER CONTROL REQUEST message to the DRNC.

The Power Adjustment Type IE defines the characteristic of the power adjustment.

If the value of the *Power Adjustment Type* IE is "Common", the DRNS shall set the Power Balancing Adjustment Type of the UE Context set to "Common". As long as the Power Balancing Adjustment Type of the UE Context is set to "Common", the DRNS shall perform the power adjustment (see below) for all existing and future radio links for the UE Context and use a common DL reference power level.

If the value of the *Power Adjustment Type* IE is "Individual", the DRNS shall set the Power Balancing Adjustment Type of the UE Context set to "Individual". The DRNS shall perform the power adjustment (see below) for all radio links addressed in the message using the given DL Reference Power per RL. If the Power Balancing Adjustment Type of the UE Context was set to "Common" before this message was received, power balancing on all radio links not addressed by the DL POWER CONTROL REQUEST message shall remain to be executed in accordance with the existing power balancing parameters which are now considered RL individual parameters. Power balancing will not be started on future radio links without a specific request.

If the value of the *Power Adjustment Type* IE is "None", the DRNS shall set the Power Balancing Adjustment Type of the UE Context set to "None" and the DRNS shall suspend on going power adjustments for all radio links for the UE Context.

If the *Inner Loop DL PC Status* IE is present and set to "Active", the DRNS shall activate inner loop DL power control for all radio links for the UE Context. If the *Inner Loop DL PC Status* IE is present and set to "Inactive", the DRNS shall deactivate inner loop DL power control for all radio links for the UE Context according to ref. TS 25.214 [10].

#### **Power Adjustment**

The power balancing adjustment shall be superimposed on the inner loop power control adjustment (see ref. TS 25.214 [10]) if activated. The power balancing adjustment shall be such that:

$$\sum P_{bal} = (1 - r)(P_{ref} + P_{P-CPICH} - P_{init})$$
 with an accuracy of ±0.5 dB

where the sum is performed over an adjustment period corresponding to a number of frames equal to the value of the *Adjustment Period* IE,  $P_{ref}$  is the value of the *DL Reference Power* IE,  $P_{P-CPICH}$  is the power used on the primary CPICH,  $P_{init}$  is the code power of the last slot of the previous adjustment period and r is given by the *Adjustment Ratio* IE. If the last slot of the previous adjustment period is within a transmission gap due to compressed mode,  $P_{init}$  shall be set to the same value as the code power of the slot just before the transmission gap.

The adjustment within one adjustment period shall in any case be performed with the constraints given by the *Max Adjustment Step* IE and the DL TX power range set by the DRNC.

The power adjustments shall be started at the first slot of a frame with CFN modulo the value of *Adjustment Period* IE equal to 0 and shall be repeated for every adjustment period and shall be restarted at the first slot of a frame with CFN=0, until a new DL POWER CONTROL REQUEST message is received or the RL is deleted.

# 8.3.15.3 Abnormal Conditions

# 8.3.16 Compressed Mode Command [FDD]

# 8.3.16.1 General

The Compressed Mode Command procedure is used to activate or deactivate the compressed mode in the DRNS for one UE-UTRAN connection. This procedure shall use the signalling bearer connection for the relevant UE Context.

The Compressed Mode Command procedure shall not be initiated if a Prepared Reconfiguration exists, as defined in subclause 3.1.

## 8.3.16.2 Successful Operation



#### Figure 26: Compressed Mode Command procedure, Successful Operation

The procedure is initiated by the SRNC sending a COMPRESSED MODE COMMAND message to the DRNC.

Upon receipt of the COMPRESSED MODE COMMAND message from the SRNC and at the CFN indicated in the *CM Configuration Change CFN* IE, the DRNS shall deactivate all the ongoing Transmission Gap Pattern Sequences. From that moment on all Transmission Gap Pattern Sequences included in *Transmission Gap Pattern Sequence Status* IE repetitions (if present) shall be started when the indicated *TGCFN* IE elapses. The *CM Configuration Change CFN* IE in the *Active Pattern Sequence Information* IE and *TGCFN* IE for each sequence refer to the next coming CFN with that value.

If the values of the *CM Configuration Change CFN* IE and the *TGCFN* IE are equal, the concerned Transmission Gap Pattern Sequence shall be started immediately at the CFN with a value equal to the value received in the *CM Configuration Change CFN* IE.

If the concerned UE Context is configured to use F-DPCH in the downlink, the DRNS shall ignore, when activating the Transmission Gap Pattern Sequence(s), the downlink compressed mode method information, if existing, for the concerned Transmission Gap Pattern Sequence(s) in the Compressed Mode Configuration.

## 8.3.16.3 Abnormal Conditions

# 8.3.17 Downlink Power Timeslot Control [TDD]

## 8.3.17.1 General

The purpose of this procedure is to provide the DRNS with updated DL Timeslot ISCP values to use when deciding the DL TX Power for each timeslot.

This procedure shall use the signalling bearer connection for the relevant UE Context.

The Downlink Power Timeslot Control procedure can be initiated by the SRNC at any time after establishing a Radio Link. If the SRNC has initiated deletion of the last Radio Link in this DRNS, the Downlink Power Timeslot Control procedure shall not be initiated.

## 8.3.17.2 Successful Operation



### Figure 26A: Downlink Power Timeslot Control procedure, Successful Operation

The Downlink Power Timeslot Control procedure is initiated by the SRNC sending a DL POWER TIMESLOT CONTROL REQUEST message to the DRNC.

Upon receipt of the DL POWER TIMESLOT CONTROL REQUEST message, the DRNS shall use the included [3.84Mcps TDD and 7.68 Mcps TDD – *DL Timeslot ISCP Info* IE] [1.28Mcps TDD – *DL Timeslot ISCP Info LCR* IE] value when deciding the DL TX Power for each timeslot as specified in TS 25.224 [22], i.e. it shall reduce the DL TX power in those downlink timeslots of the radio link in which the interference is low, and increase the DL TX power in those timeslots in which the interference is high, while keeping the total downlink power in the radio link unchanged.

If the *Primary CCPCH RSCP Delta* IE is included, the DRNS shall assume that the reported value for Primary CCPCH RSCP is in the negative range as per TS 25.123 [24], and the value is equal to the *Primary CCPCH RSCP Delta* IE. If the *Primary CCPCH RSCP Delta* IE is not included and the *Primary CCPCH RSCP* IE is included, the DRNS shall assume that the reported value is in the non-negative range as per TS 25.123 [24], and the value is equal to the *Primary CCPCH RSCP Delta* IE. If *CCPCH RSCP Delta* IE is not included and the *Primary CCPCH RSCP* IE is included, the DRNS shall assume that the reported value is in the non-negative range as per TS 25.123 [24], and the value is equal to the *Primary CCPCH RSCP* IE. The DRNS should use the indicated value for HS-DSCH scheduling and transmit power adjustment.

## 8.3.17.3 Abnormal Conditions

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# 8.3.18 Radio Link Pre-emption

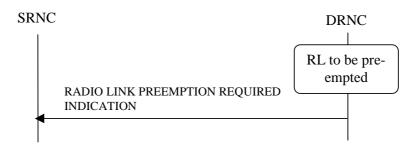
# 8.3.18.1 General

This procedure is started by the DRNS when resources need to be freed.

This procedure shall use the signalling bearer connection for the UE Context associated with the RL to be pre-empted.

The DRNS may initiate the Radio Link Pre-emption procedure at any time after establishing a Radio Link.

## 8.3.18.2 Successful Operation



#### Figure 26B: Radio Link Pre-emption procedure, Successful Operation

When DRNC detects that one or more Radio Link(s) should be pre-empted (see Annex A), it shall send the RADIO LINK PREEMPTION REQUIRED INDICATION message to the SRNC. If all Radio Links for a UE Context should be pre-empted, the *RL Information* IE shall not be included in the message. If one or several but not all Radio Link(s) should be pre-empted for an UE Context, the Radio Link(s) that should be pre-empted shall be indicated in the *RL Information* IE. The Radio Link(s) that should be pre-empted, should be deleted by the SRNC.

[FDD – If only the E-DCH traffic on a Radio Link should be pre-empted, the DRNC shall indicate the EDCH MAC-d flows that should be pre-empted by including the *E-DCH MAC-d Flow Specific Information* IE in the RADIO LINK PREEMPTION REQUIRED INDICATION message.]

When only the HS-DSCH traffic on a Radio Link should be pre-empted, the DRNC shall indicate the HS-DSCH MACd flow(s) that should be pre-empted by including the *HS-DSCH MAC-d Flow Specific Information* IE in the RADIO LINK PREEMPTION REQUIRED INDICATION message.

8.3.18.3 Abnormal Conditions

# 8.3.19 Radio Link Congestion

# 8.3.19.1 General

This procedure is started by the DRNS when resource congestion is detected and the rate of one or more DCHs, corresponding to one or more radio links, is preferred to be limited in the UL and/or DL. This procedure is also used by the DRNC to indicate to the SRNC any change of the UL/DL resource congestion situation, affecting these radio links. This procedure shall use the signalling bearer connection for the relevant UE Context.

The Radio Link Congestion procedure shall not be initiated if a Prepared Reconfiguration exists, as defined in subclause 3.1.

# 8.3.19.2 Successful Operation



Figure 26C: Radio Link Congestion procedure, Successful Operation

#### Start of an UL/DL Resource Congestion Situation

When the DRNC detects the start of a UL/DL resource congestion situation and prefers the rate of one or more DCHs for one or more Radio Link(s) to be limited below the maximum rate currently configured in the UL/DL TFS, it shall send the RADIO LINK CONGESTION INDICATION message to the SRNC. The DRNC shall indicate the cause of the congestion in the *Congestion Cause* IE and shall indicate all the Radio Links for which the rate of a DCH needs to be reduced. For each DCH within the RL with UL congestion, the DRNC shall indicate the desired maximum UL data rate with the *Allowed UL Rate* IE in the *Allowed Rate Information* IE. For each DCH within the RL with DL congestion, the DRNC shall indicate the desired maximum DL data rate with the *Allowed DL Rate* IE in the *Allowed Rate Information* IE.

[FDD – For each E-DCH MAC-d flow within the RL with UL congestion, the DRNC shall indicate all the MAC-d flows for which the rate cannot be fullfilled.]

When receiving the RADIO LINK CONGESTION INDICATION message the SRNC should reduce the rate in accordance with the *Congestion Cause* IE and the indicated *Allowed DL Rate* IE and/or *Allowed UL Rate* IE for a DCH.

[FDD – If the RADIO LINK CONGESTION INDICATION message includes the *DCH Indicator For E-DCH-HSDPA Operation* IE, then the SRNS shall ignore the *DCH Rate Information* IE in the RADIO LINK CONGESTION INDICATION message.]

#### Change of UL/DL Resource Congestion Situation

The DRNC shall indicate any change of the UL/DL resource congestion situation by sending the RADIO LINK CONGESTION INDICATION message in which the new allowed rate(s) of the DCHs are indicated by the *Allowed Rate Information* IE. In the case that for at least one DCH the new allowed rate is lower than the previously indicated allowed rate for that DCH, the *Congestion Cause* IE, indicating the cause of the congestion, shall also be included.

When receiving a RADIO LINK CONGESTION INDICATION message indicating a further rate decrease on any DCH(s) on any RL, the SRNC should reduce the rate in accordance with the indicated congestion cause and the indicated allowed rate(s) for the DCH(s).

#### End of UL/DL Resource Congestion Situation

The end of an UL resource congestion situation, affecting a specific RL, shall be indicated by including the TF corresponding to the highest data rate in the *Allowed UL Rate* IE in the *Allowed Rate Information* IE for the concerned RL. The end of a DL resource congestion situation, affecting a specific RL, shall be indicated by including the TF with the highest data rate in the *Allowed DL Rate* IE in the *Allowed Rate Information* IE for the concerned RL.

## 8.3.19.3 Abnormal Conditions

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# 8.3.20 Radio Link Activation

### 8.3.20.1 General

This procedure is used to activate or de-activate the DL transmission on the Uu interface regarding selected RLs.

# 8.3.20.2 Successful Operation



Figure 26D: Radio Link Activation procedure

This procedure is initiated by sending the RADIO LINK ACTIVATION COMMAND message from the SRNC to the DRNC. This procedure shall use the signalling bearer connection for the relevant UE Context.

Upon receipt, the DRNS shall for each concerned RL:

- if the Delayed Activation Update IE indicates "Activate":
  - if the Activation Type IE equals "Unsynchronised":
    - [FDD start transmission on the new RL after synchronisation is achieved in the DL user plane as specified in TS 25.427 [4].]
    - [TDD start transmission on the new RL immediately as specified in TS 25.427 [4].]
  - if the Activation Type IE equals "Synchronised":
    - [FDD start transmission on the new RL after synchronisation is achieved in the DL user plane as specified in TS 25.427 [4], however never before the CFN indicated in the *Activation CFN* IE.]
    - [TDD start transmission on the new RL at the CFN indicated in the *Activation CFN* IE as specified in TS 25.427 [4].]
  - [FDD the DRNS shall apply the power level indicated in the *Initial DL Tx Power* IE to the transmission on each DL DPCH or on the F-DPCH of the RL when starting transmission until either UL synchronisation on the Uu interface is achieved for the RLS or power balancing is activated. During this period no inner loop power control shall be performed and, unless activated by the DL POWER CONTROL REQUEST message, no power balancing shall be performed. The DL power shall then vary according to the inner loop power control (see ref. TS 25.214 [10], subclause 5.2.1.2) and downlink power balancing adjustments (see 8.3.7).]

- [TDD the DRNS shall apply the power level indicated in the *Initial DL Tx Power* IE to the transmission on each DL DPCH and on each Time Slot of the RL when starting transmission until the UL synchronisation on the Uu interface is achieved for the RL. No inner loop power control shall be performed during this period. The DL power shall then vary according to the inner loop power control (see ref.TS 25.224 [22], subclause 4.2.3.3).]
- [FDD if the *Propagation Delay* IE and optionally the *Extended Propagation Delay* IE are included, the DRNS may use this information to speed up the detection of UL synchronisation on the Uu interface.]
- [FDD if the *First RLS Indicator* IE is included, it indicates if the concerned RL shall be considered part of the first RLS established towards this UE. The *First RLS Indicator* IE shall be used by the DRNS to determine the initial TPC pattern in the DL of the concerned RL and all RLs which are part of the same RLS, as described in TS 25.214 [10], section 5.1.2.2.1.2.]
- if the Delayed Activation Update IE indicates "Deactivate":
  - stop DL transmission immediately if the *Deactivation Type* IE equals "Unsynchronised", or at the CFN indicated by the *Deactivation CFN* IE if the *Deactivation Type* IE equals "Synchronised".

### 8.3.20.3 Abnormal Conditions

[FDD – If the *Delayed Activation Update* IE is included in the RADIO LINK ACTIVATION COMMAND message, it indicates "Activate" and the *First RLS Indicator* IE is not included, the DRNC shall initiate the ERROR INDICATION procedure.]

# 8.3.21 Radio Link Parameter Update

# 8.3.21.1 General

The Radio Link Parameter Update procedure is executed by the DRNS to update parameters related to HS-DSCH on a radio link for a UE-UTRAN connection or to update phase reference on a list of the radio links.

This procedure shall use the signalling bearer connection for the relevant UE context.

The Radio Link Parameter Update procedure shall not be initiated if a Prepared Reconfiguration exists, as defined in subclause 3.1.

# 8.3.21.2 Successful Operation



#### Figure 26E: Radio Link Parameter Update Indication, Successful Operation

The Radio Link Parameter Update procedure is initiated by the DRNS by sending the RADIO LINK PARAMETER UPDATE INDICATION message to the SRNC.

#### **HS-DSCH** related Parameter(s) Updating:

If RADIO LINK PARAMETER UPDATE INDICATION message is used to update the parameters related to HS-DSCH, it contains suggested value(s) of the HS-DSCH related parameter(s) that should be reconfigured on the radio link.

If the DRNS needs to update HS-DSCH related parameters, the DRNS shall initiate RADIO LINK PARAMETER UPDATE INDICATION message including [FDD – *HS-DSCH FDD Update Information* IE] [TDD – *HS-DSCH TDD Update Information* IE].

If the DRNS needs to allocate new HS-SCCH Codes, the DRNS shall initiate RADIO LINK PARAMETER UPDATE INDICATION message including *HS-SCCH Code Change Indicator* IE.

[FDD – If the DRNS needs to allocate new HS-PDSCH Codes, the DRNS shall initiate RADIO LINK PARAMETER UPDATE INDICATION message including *HS-PDSCH Code Change Indicator* IE.]

[FDD – If the DRNS needs to update the CQI Feedback Cycle k, CQI Repetition Factor, ACK-NACK Repetition Factor, CQI Power Offset, ACK Power Offset and/or NACK Power Offset, the DRNS shall initiate RADIO LINK PARAMETER UPDATE INDICATION message including *CQI Feedback Cycle k* IE, *CQI Repetition Factor* IE, *ACK-NACK Repetition Factor* IE, *CQI Power Offset* IE, *ACK Power Offset* IE and/or *NACK Power Offset* IE.]

[TDD – If the DRNS needs to update the TDD ACK-NACK Power Offset the DRNS shall initiate RADIO LINK PARAMETER UPDATE INDICATION message including *TDD ACK-NACK Power Offset* IE.]

#### [FDD – Secondary Serving HS-DSCH related Parameter(s) Updating:]

[FDD – If RADIO LINK PARAMETER UPDATE INDICATION message is used to update the parameters related to secondary serving HS-DSCH, it contains suggested value(s) of the secondary serving HS-DSCH related parameter(s) that should be reconfigured on the radio link.]

[FDD – If the DRNS needs to update secondary serving HS-DSCH related parameters, the DRNS shall initiate RADIO LINK PARAMETER UPDATE INDICATION message and include the *Additional HS Cell Information RL Param Upd* IE.]

- [FDD – If the DRNS needs to allocate new secondary serving HS-SCCH Codes, the DRNS shall include the HS-SCCH Code Change Indicator IE in the HS-DSCH FDD Secondary Serving Update Information IE.]

### [FDD – Phase Reference Handling:]

[FDD – If DRNS needs to update phase reference for the channel estimation for one or several Radio Links, the DRNC shall initiate RADIO LINK PARAMETER UPDATE INDICATION message including *Phase Reference Update Information* IE for the concerned RL(s).]

#### [FDD – E-DCH:]

[FDD – If DRNS needs to update E-DCH related parameters, the DRNC shall initiate RADIO LINK PARAMETER UPDATE INDICATION message including *E-DCH FDD Update Information* IE.]

[FDD – If the DRNS needs to update the HARQ process allocation for non-scheduled transmission and/or HARQ process allocation for scheduled Transmission, the DRNS shall initiate RADIO LINK PARAMETER UPDATE INDICATION message including the *HARQ Process Allocation For 2ms Non-Scheduled Transmission Grant* IE for the concerned MAC-d Flows and/or *HARQ Process Allocation For 2ms Scheduled Transmission Grant* IE.]

[FDD – If the DRNS needs to allocate new E-AGCH Channelisation Code, new E-RGCH/E-HICH Channelisation Code, new E-RGCH Signature Sequence and/or new E-HICH Signature Sequence, the DRNC shall initiate RADIO LINK PARAMETER UPDATE INDICATION message including *E-DCH DL Control Channel Change Information* IE.]

[FDD – If the DRNS needs to update Additional E-DCH related parameters, the DRNS shall initiate RADIO LINK PARAMETER UPDATE INDICATION message including *Additional E-DCH Cell Information RL Param Upd* IE.]

- [FDD If the DRNS needs to update the HARQ process allocation for scheduled Transmission, the DRNS shall initiate RADIO LINK PARAMETER UPDATE INDICATION message including the *HARQ Process Allocation For 2ms Scheduled Transmission Grant*.]
- [FDD If the DRNS needs to allocate new E-AGCH Channelisation Code, new E-RGCH/E-HICH Channelisation Code, new E-RGCH Signature Sequence and/or new E-HICH Signature Sequence, the DRNS shall initiate RADIO LINK PARAMETER UPDATE INDICATION message including *Additional E-DCH DL Control Channel Change Information* IE.]

### [FDD – CPC Recovery:]

[FDD – If the DRNS needs to indicate that the CPC Recovery has been initiated, the DRNC shall initiate RADIO LINK PARAMETER UPDATE INDICATION message including *CPC Recovery Report* IE.]

# 8.3.21.3 Abnormal Conditions

# 8.3.22 UE Measurement Initiation [TDD]

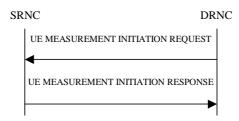
### 8.3.22.1 General

This procedure is used by a DRNC to request the initiation of UE measurements by the SRNC.

This procedure shall use the signalling bearer connection for the relevant UE Context.

The UE Measurement Initiation procedure shall not be initiated if a Prepared Reconfiguration exists, as defined in subclause 3.1.

# 8.3.22.2 Successful Operation



### Figure 26F: UE Measurement Initiation procedure, Successful Operation

The procedure is initiated with a UE MEASUREMENT INITIATION REQUEST message sent from the DRNC to the SRNC.

Upon receipt the SRNC shall, provided that it determines that the measurement can be performed by the UE, initiate and forward the requested UE measurement according to the parameters given in the UE MEASUREMENT INITIATION REQUEST message. If the UE MEASUREMENT INITIATION REQUEST message includes the UE Measurement Parameter Modification Allowed IE with a value of "Parameter Modification Allowed" the UE Measurement Report Characteristics IE and the Measurement Filter Coefficient IE, if it is included, are suggested values, otherwise the values of these parameters must be fulfilled.

[3.84 Mcps TDD – If the *UE Measurement Timeslot Information HCR* IE is provided, the measurement request shall apply for the requested timeslot(s) individually. If the *UE Measurement Timeslot Information HCR* IE are not provided the SRNC may choose the timeslots for measurements that apply to individual timeslots.]

[1.28 Mcps TDD – If the *UE Measurement Timeslot Information LCR* IE is provided, the measurement request shall apply for the requested timeslot(s) individually. If the *UE Measurement Timeslot Information LCR* IE are not provided the SRNC may choose the timeslots for measurements that apply to individual timeslots.]

[7.68 Mcps TDD – If the *UE Measurement Timeslot Information 7.68 Mcps* IE is provided, the measurement request shall apply for the requested timeslot(s) individually. If the *UE Measurement Timeslot Information 7.68 Mcps* IE are not provided the SRNC may choose the timeslots for measurements that apply to individual timeslots.]

If the UE MEASUREMENT INITIATION REQUEST message includes the *Allowed Queuing Time* IE the SRNC may queue the request for a time period not to exceed the value of the *Allowed Queuing Time* IE before starting to execute the request.

The SRNC is required to perform reporting for a UE measurement object, in accordance with the conditions provided in the UE MEASUREMENT INITIATION REQUEST message, as long as the object exists. If no UE measurement object(s) for which a measurement is defined exists any more, the SRNC shall terminate the measurement locally without reporting this to the DRNC.

If at the start of the measurement, the reporting criteria are fulfilled for any of Event 1h, Event 1i,Event 6a, Event 6b, Event 6c, or Event 6d, the SRNC shall initiate the UE Measurement Reporting procedure immediately, and then continue with the measurements as specified in the UE MEASUREMENT INITIATION REQUEST message

At the start of a periodic measurement, the SRNC shall not initiate UE Measurement Reporting procedure until the next measurement is received from the UE, even if measurement data is available.

#### **Report characteristics**

The UE Measurement Report Characteristics IE indicates how the reporting of the dedicated measurement shall be performed. See TS 25.331 [16].

#### **Higher layer filtering**

The *Measurement Filter Coefficient* IE indicates how filtering of the dedicated measurement values shall be performed before measurement event evaluation and reporting. If the *Measurement Filter Coefficient* IE is not present, *a* shall be set to 1 (no filtering). The use of the *Measurement Filter Coefficient* IE is shown in TS 25.331 [16].

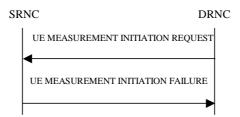
#### **Response message**

If the SRNC was able to initiate the measurement requested by the DRNC it shall respond with the UE MEASUREMENT INITIATION RESPONSE message. The message shall include the same Measurement ID that was used in the UE MEASUREMENT INITIATION REQUEST message.

If the DRNC allowed parameter modification and the SRNC modified the *Measurement Filter Coefficient* IE the SRNC shall include the modified value in the UE MEASUREMENT INTIATION RESPONSE message.

If the DRNC allowed parameter modification and the SRNC modified the *UE Measurement Report Characteristics* IE the SRNC shall include the modified value in the UE MEASUREMENT INTIATION RESPONSE message.

## 8.3.22.3 Unsuccessful Operation



#### Figure 26G: UE Measurement Initiation procedure, Unsuccessful Operation

If the requested measurement cannot be initiated, the SRNC shall send a UE MEASUREMENT INITIATION FAILURE message. The message shall include the same *Measurement ID* IE that was used in the UE MEASUREMENT INITIATION REQUEST message and shall include the *Cause* IE set to an appropriate value.

Typical cause values are:

#### **Radio Network Layer Causes:**

Measurement not Supported For The Object Measurement Temporarily not Available Measurement Repetition Rate not Compatible with Current Measurements UE not Capable to Implement Measurement

### **Miscellaneous Causes:**

Control Processing Overload HW Failure

# 8.3.22.4 Abnormal Conditions

# 8.3.23 UE Measurement Reporting [TDD]

### 8.3.23.1 General

This procedure is used by the SRNC to report the results of the successfully initiated measurements requested by the DRNC with the UE Measurement Initiation procedure.

This procedure shall use the signalling bearer connection for the relevant UE Context.

The SRNC may initiate the UE Measurement Reporting procedure at any time after establishing a Radio Link.

# 8.3.23.2 Successful Operation



#### Figure 26H: UE Measurement Reporting procedure, Successful Operation

If the requested measurement reporting criteria was met in the UE and reported to the SRNC, the SRNC shall initiate the UE Measurement Reporting procedure. The *Measurement ID* IE shall be set to the Measurement ID provided by the DRNC when initiating the measurement with the UE Measurement Initiation procedure.

If Primary CCPCH RSCP is being reported:

- If the *Primary CCPCH RSCP Delta* IE is included, the DRNC shall assume that the reported value for Primary CCPCH RSCP is in the negative range as per TS 25.123 [24], and the value is equal to the *Primary CCPCH RSCP Delta* IE.
- If the *Primary CCPCH RSCP Delta* IE is not included the DRNC shall assume that the reported value is in the non negative range as per TS 25.123 [24], and the value is equal to the *Primary CCPCH RSCP* IE

If the achieved measurement accuracy does not fulfil the given accuracy requirement specified in ref. TS 25.123 [24], the Measurement not available shall be reported in the *UE Measurement Value Information* IE in the UE MEASUREMENT REPORT message, otherwise the SRNC shall include the *UE Measurement Value* IE within the *UE Measurement Value Information* IE.

## 8.3.23.3 Abnormal Conditions

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# 8.3.24 UE Measurement Termination [TDD]

# 8.3.24.1 General

This procedure is used by the DRNC to terminate a measurement previously requested by the UE Measurement Initiation procedure.

This procedure shall use the signalling bearer connection for the relevant UE Context.

The UE Measurement Termination procedure shall not be initiated if a Prepared Reconfiguration exists, as defined in subclause 3.1.

# 8.3.24.2 Successful Operation



#### Figure 26I: UE Measurement Termination procedure, Successful Operation

This procedure is initiated with a UE MEASUREMENT TERMINATION REQUEST message, sent from the DRNC to the SRNC.

Upon receipt, the SRNC shall terminate forwarding of UE measurements corresponding to the received *Measurement ID* IE.

# 8.3.24.3 Abnormal Conditions

# 8.3.25 UE Measurement Failure [TDD]

### 8.3.25.1 General

This procedure is used by the SRNC to notify the DRNC that a measurement previously requested by the UE Measurement Initiation procedure can no longer be reported.

This procedure shall use the signalling bearer connection for the relevant UE Context.

The SRNC may initiate the UE Measurement Failure procedure at any time after establishing a Radio Link.

## 8.3.25.2 Successful Operation



### Figure 26J: UE Measurement Failure procedure, Successful Operation

This procedure is initiated with a UE MEASUREMENT FAILURE INDICATION message, sent from the SRNC to the DRNC, to inform the DRNC that a previously requested UE measurement can no longer be reported. The SRNC has locally terminated the forwarding of the indicated measurement. The SRNC shall include in the UE MEASUREMENT FAILURE INDICATION message the reason for the failure in the *Cause* IE.

Typical cause values are:

#### Miscellaneous Causes:

- Control Processing Overload
- HW Failure
- O&M Intervention

# 8.3.25.3 Abnormal Conditions

# 8.3.26 Iur Invoke Trace

## 8.3.26.1 General

The purpose of the Iur Invoke Trace procedure is to inform the DRNC that it should begin a Trace Session for a given UE Context according to the Trace Parameters indicated by the SRNC. This procedure is used for Trace Parameter Propagation in the Signalling Based Activation mechanism as defined in TS 32.421 [48] and TS 32.422 [49].

This procedure shall use the signalling bearer mode specified below.

# 8.3.26.2 Successful Operation



Figure 26K: Iur Invoke Trace procedure, Successful Operation

The Iur Invoke Trace procedure is invoked by the SRNC by sending an IUR INVOKE TRACE message to the DRNC.

When the concerned UE is utilising one or more radio links in the DRNC the message shall be sent using the connection oriented service of the signalling bearer and no further identification of the UE Context in the DRNC is required. If on the other hand, the UE is not utilising any radio link the message shall be sent using the connectionless service of the signalling bearer and the *D*-*RNTI* IE shall be included in the message to identify the UE Context in the DRNC.

Upon receiving the IUR INVOKE TRACE message, the DRNC should begin a Trace Recording Session according to the parameters indicated in the IUR INVOKE TRACE message.

If the *List Of Interfaces To Trace* IE is included in the IUR INVOKE TRACE message, the DRNC shall trace, for the concerned UE Context, the interfaces indicated by the *List Of Interfaces To Trace* IE. Otherwise, the DRNC shall trace, for the concerned UE Context, the Iur and Iub interfaces.

The values of the *UE Identity* IE, *Trace Reference* IE and *Trace Recording Session Reference* IE are used to tag the Trace Record to allow simpler construction of the total record by the entity which combines Trace Records.

If the DRNC does not support the requested value "Minimum" or "Medium" of the *Trace Depth* IE, the DRNC should begin a Trace Recording Session with maximum Trace Depth.

The DRNC may not start a Trace Recording Session if there are insufficient resources available within the DRNC.

## 8.3.26.3 Abnormal Conditions

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# 8.3.27 Iur Deactivate Trace

# 8.3.27.1 General

The purpose of the Iur Deactivate Trace procedure is to inform the DRNC that it should stop a Trace Session for the concerned UE Context and the indicated Trace Reference. This procedure is used for the Signalling Based Deactivation mechanism as defined in TS 32.421 [48] and TS 32.422 [49].

This procedure shall use the signalling bearer mode specified below.

# 8.3.27.2 Successful Operation



#### Figure 26L: lur Invoke Trace procedure, Successful Operation

The Iur Deactivate Trace procedure is invoked by the SRNC by sending an IUR DEACTIVATE TRACE message to the DRNC.

When the concerned UE is utilising one or more radio links in the DRNC the message shall be sent using the connection oriented service of the signalling bearer and no further identification of the UE Context in the DRNC is required. If on the other hand, the UE is not utilising any radio link the message shall be sent using the connectionless service of the signalling bearer and the *D*-*RNTI* IE shall be included in the message to identify the UE Context in the DRNC.

Upon receiving the IUR DEACTIVATE TRACE message, the DRNC shall stop for the concerned UE Context any ongoing Trace Recording Session for the Trace Session identified by the *Trace Reference* IE.

## 8.3.27.3 Abnormal Conditions

# 8.3.28 Enhanced Relocation

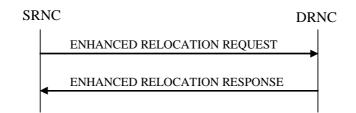
## 8.3.28.1 General

This procedure is used for relocation of SRNS in case the SRNC and DRNC connect to same CN node.

The connection-oriented service of the signalling bearer shall be established in conjunction with this procedure in case the relevant UE Context does not exist for the UE.

This procedure shall use the signalling bearer connection for the relevant UE Context in the UE Context exists. The Enhanced Relocation procedure shall not be initiated if a Prepared Reconfiguration exists, as defined in subclause 3.1.

# 8.3.28.2 Successful Operation

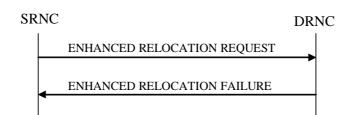


#### Figure 26M: Enhanced Relocation procedure: Successful Operation

The SRNC initiates the procedure by sending an ENHANCED RELOCATION REQUEST message. When the SRNC sends the ENHANCED RELOCATION REQUEST message, it shall start the timer  $T_{RELOCprep.}$  The ENHANCED RELOCATION REQUEST message shall contain the *Cause* IE with an appropriate value e.g.: "Time critical Relocation", "Resource optimisation relocation", "Relocation desirable for radio reasons", "Directed Retry", "Reduce Load in Serving Cell", "No Iu CS UP relocation".

If the ENHANCED RELOCATION REQUEST message includes SRNC-ID, the DRNC shall create a UE Context for this UE, allocate a D-RNTI for the UE Context.

# 8.3.28.3 Unsuccessful Operation



#### Figure 26N: Enhanced Relocation procedure: Unsuccessful Operation

If the DRNC is not able to accept any of the RABs or a failure occurs during the procedure, the DRNC shall send the ENHANCED RELOCATION FAILURE message to the SRNC. The message shall contain the *Cause* IE with an appropriate value.

#### **Interactions with Enhanced Relocation Cancel procedure:**

If there is no response from the DRNC to the ENHANCED RELOCATION REQUEST message before timer  $T_{RELOCprep}$  expires in the DRNC, the SRNC should cancel the Enhanced Relocation procedure towards the DRNC by initiating the Enhanced Relocation Cancel procedure with the appropriate value for the *Cause* IE, e.g. " $T_{RELOCprep}$  expiry". The SRNC shall ignore any ENHANCED RELOCATION RESPONSE or ENHANCED RELOCATION FAILURE message received after the initiation of the Enhanced Relocation Cancel procedure and remove any reference and release any resources related to the concerned UE Context.

### 8.3.28.4 Abnormal Conditions

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# 8.3.29 Enhanced Relocation Cancel

## 8.3.29.1 General

This procedure is used to cancel an ongoing enhanced relocation or an already prepared relocation.

This procedure shall use the signalling bearer connection for the relevant UE Context.

# 8.3.29.2 Successful Operation



### Figure 260: Enhanced Relocation Cancel procedure: Successful Operation

The SRNC initiates the procedure by sending the ENHANCED RELOCATION CANCEL message to the DRNC. The SRNC shall indicate the reason for cancelling the relocation by means of an appropriate cause value. Typical cause values are " $T_{RELOCprep}$ Expiry", "Relocation Cancelled", "Traffic Load In The Target Cell Higher Than In The Source Cell".

At the reception of the ENHANCED RELOCATION CANCEL message, the DRNC shall remove any reference to, and release any resources previously reserved to the concerned UE context.

## 8.3.29.3 Unsuccessful Operation

Not applicable.

# 8.3.29.4 Abnormal Conditions

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# 8.3.30 Enhanced Relocation Signalling Transfer

# 8.3.30.1 General

The procedure is used by the SRNC to transfer DL L3 information to DRNC during enhanced relocation.

This procedure shall use the signalling bearer connection for the relevant UE Context.

# 8.3.30.2 Successful Operation



# Figure 26P: Enhanced Relocation Signalling Transfer procedure, Successful Operation

The procedure consists of the ENHANCED RELOCATION SIGNALLING TRANSFER message sent by the SRNC to the DRNC.

The ENHANCED RELOCATION SIGNALLING TRANSFER message contains the L3 Information and after the receipt of the message, the DRNC shall send the L3 Information on the DCCH.

# 8.3.30.3 Abnormal Conditions

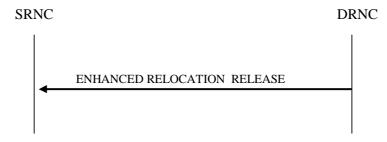
# 8.3.31 Enhanced Relocation Release

# 8.3.31.1 General

The procedure is used by the DRNC to signal to the SRNC that resource for CN domain is released due to failure of the enhanced relocation.

This procedure shall use the signalling bearer connection for the relevant UE Context.

# 8.3.31.2 Successful Operation



## Figure 26Q: Enhanced Relocation Signalling Transfer procedure, Successful Operation

The procedure consists of the ENHANCED RELOCATION RELEASE message sent by the DRNC to the SRNC.

Upon reception of the ENHANCD RELOCATION RELEASE message, the SRNC shall release related resources associated to indicated CN domain(s) by the *Released CN Domain* IE in the message for the UE context.

# 8.3.31.3 Abnormal Conditions

# 8.3.32 Secondary UL Frequency Reporting [FDD]

# 8.3.32.1 General

The purpose of this procedure is to inform the DRNS about the activation state of the secondary UL frequency of the UE in Dual Cell E-DCH operation.

This procedure shall use the signalling bearer connection for the relevant UE Context.

# 8.3.32.2 Successful Operation



# Figure 26R: Secondary UL Frequency Reporting procedure

The Secondary UL Frequency Reporting procedure is initiated by sending the SECONDARY UL FREQUENCY REPORT message from the SRNC to the DRNC.

The *Activation Information* IE defines the local activation state of the Secondary uplink frequency of the UE in Dual Cell E-DCH operation.

- If the value of *Uu Activation State* IE is "Activated": the DRNS shall if supported use this information for resource allocation operation of the secondary E-DCH radio link(s), F-DPCH transmission and DPCCH detection.

- If the value of *Uu Activation State* IE is "De-Activated": the DRNS shall if supported use this information for release of the related resources for the secondary E-DCH radio link(s), cease of F-DPCH transmission and DPCCH detection.

# 8.3.32.3 Abnormal Conditions

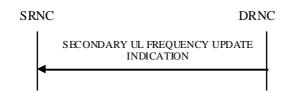
# 8.3.33 Secondary UL Frequency Update [FDD]

# 8.3.33.1 General

The purpose of this procedure is to inform the SRNC about updates to activation state of the secondary UL frequency of the UE in Dual Cell E-DCH operation .

This procedure shall use the signalling bearer connection for the relevant UE context.

# 8.3.33.2 Successful Operation



#### Figure 26S: Secondary UL Frequency Update procedure

The Secondary UL Frequency Update procedure is initiated by the DRNS by sending the SECONDARY UL FREQUENCY UPDATE INDICATION message to the SRNC.

If the DRNS needs to update the local activation state of the Secondary uplink frequency of the UE in Dual Cell E-DCH operation, the DRNS shall send SECONDARY UL FREQUENCY UPDATE INDICATION message and include the *Activation Information* IE.

8.3.33.3 Abnormal Conditions

8.4 Common Transport Channel Procedures

# 8.4.1 Common Transport Channel Resources Initialisation

### 8.4.1.1 General

The Common Transport Channel Resources Initialisation procedure is used by the SRNC for the initialisation of the Common Transport Channel user plane towards the DRNC and/or for the initialisation of the Common Transport Channel resources in the DRNC to be used by a UE.

This procedure shall use the connectionless mode of the signalling bearer.

## 8.4.1.2 Successful Operation

SRNC	DRNC
COMMON TRANSPORT CHANNEL RESOURCES REQUEST	
COMMON TRANSPORT CHANNEL	
RESOURCES RESPONSE	

#### Figure 27: Common Transport Channel Resources Initialisation procedure, Successful Operation

The SRNC initiates the procedure by sending the message COMMON TRANSPORT CHANNEL RESOURCES REQUEST message to the DRNC.

If the value of the *Transport Bearer Request Indicator* IE is set to "Bearer Requested", the DRNC shall store the received *Transport Bearer ID* IE. The DRNC may use the *Transport Layer Address* and *Binding ID* IEs included in the COMMON TRANSPORT CHANNEL RESOURCES REQUEST message received from the SRNC when establishing a transport bearer for the common transport channel. In addition, the DRNC shall include its own *Binding ID* IE and *Transport Layer Address* IE in the COMMON TRANSPORT CHANNEL RESOURCES RESPONSE message.

If the *TNL QoS* IE is included and if ALCAP is not used, the *TNL QoS* IE may be used by the DRNC to determine the transport bearer characteristics to apply in the uplink between the DRNS and the SRNC for the related common transport channels.

If the value of the *Transport Bearer Request Indicator* IE is set to" Bearer not Requested", the DRNC shall use the transport bearer indicated by the *Transport Bearer ID* IE.

If the *C-ID* IE is included in the COMMON TRANSPORT CHANNEL RESOURCES REQUEST message, the DRNC shall allocate a C-RNTI for the indicated cell and include the *C-RNTI* IE in the COMMON TRANSPORT CHANNEL RESOURCES RESPONSE message.

If the *C-ID* IE is included in the COMMON TRANSPORT CHANNEL RESOURCES REQUEST message, the DRNC shall include the *FACH Info for UE Selected S-CCPCH* IE valid for the cell indicated by the *C-ID* IE and the corresponding *C-ID* IE in the COMMON TRANSPORT CHANNEL RESOURCES RESPONSE message. If the *C-ID* IE is not included in the COMMON TRANSPORT CHANNEL RESOURCES REQUEST message, the DRNC shall include the *FACH Info for UE Selected S-CCPCH* IE valid for the cell where the UE is located and the corresponding *C-ID* IE. The DRNC shall include the *FACH Scheduling Priority* IE and *FACH Initial Window Size* IE in the *FACH Flow Control Information* IE of the *FACH Info for UE Selected S-CCPCH* IE for each priority class that the DRNC has determined shall be used. The DRNC may include several *MAC-c/sh SDU Length* IEs for each priority class.

If the DRNS has any RACH and/or FACH [FDD – and/or HS-DSCH] [1.28Mcps TDD – and/or HS-DSCH] resources previously allocated for the UE in another cell than the cell in which resources are currently being allocated, the DRNS shall release the previously allocated RACH and/or FACH resources [FDD – and/or HS-DSCH] [1.28Mcps TDD – and/or HS-DSCH].

If the DRNS has successfully reserved the required resources, the DRNC shall respond to the SRNC with the COMMON TRANSPORT CHANNEL RESOURCES RESPONSE message.

If the *Permanent NAS UE Identity* IE is present in the COMMON TRANSPORT CHANNEL RESOURCES REQUEST message, the DRNS shall store the information for the considered UE Context for the lifetime of the UE Context.

If the COMMON TRANSPORT CHANNEL RESOURCES REQUEST message includes a *C-ID* IE corresponding to a cell reserved for operator use and the Permanent NAS UE Identity is available in the DRNC for the considered UE Context, the DRNC shall use this information to determine whether it can reserve resources on a common transport channel in this cell or not.

If the *MBMS Bearer Service List* IE is included in the COMMON TRANSPORT CHANNEL RESOURCES REQUEST message, the DRNC shall, if supported, perform the UE Linking as specified in TS 25.346 [50], section 5.1.6. If an MBMS session for some MBMS bearer services contained in the UE Link is ongoing in the cell identified by the *C-ID* IE, the DRNC shall include in the *Active MBMS Bearer Service List* IE the *Transmission Mode* IE for each of these active MBMS bearer services in the COMMON TRANPORT CHANNEL RESOURCES RESPONSE message.

[FDD – If the COMMON TRANSPORT CHANNEL RESOURCES REQUEST message includes an *Enhanced FACH Support Indicator* IE, the DRNC may include the *Enhanced FACH Information Response* IE in the COMMON TRANSPORT CHANNEL RESOURCES RESPONSE message. If a HS-DSCH RNTI was not previously allocated to the UE or a new HS-DSCH RNTI is allocated to the UE, the DRNC shall include the *HS-DSCH-RNTI* IE in the *Enhanced FACH Information Response* IE. And if Enhanced PCH operation is activated in the cell indicated by the *C-ID* IE, the DRNC shall include the *Priority Queue Information for Enhanced PCH* IE in the *Enhanced FACH Information Response* IE.]

[1.28Mcps TDD – If the COMMON TRANSPORT CHANNEL RESOURCES REQUEST message includes an *Enhanced FACH Support Indicator* IE, the DRNC may include the *Enhanced FACH Information Response* IE in the COMMON TRANSPORT CHANNEL RESOURCES RESPONSE message. If a HS-DSCH RNTI was not previously allocated to the UE or a new HS-DSCH RNTI is allocated to the UE, the DRNC shall include the *HS-DSCH-RNTI* IE in the *Enhanced FACH Information Response* IE. And if Enhanced PCH operation is activated in the cell indicated by the *C-ID* IE, the DRNC shall include the *Priority Queue Information for Enhanced PCH* IE in the *Enhanced FACH Information Response* IE.]

[FDD – If the COMMON TRANSPORT CHANNEL RESOURCES REQUEST message includes an *Common E-DCH Support Indicator* IE, the DRNC may include the *Common E-DCH MAC-d Flow Specific Information* IE in the COMMON TRANSPORT CHANNEL RESOURCES RESPONSE message. If the E-DCH MAC-d Flow Multiplexing List for a Common E-DCH MAC-d Flow is configured in DRNC, the DRNC shall include the *E-DCH MAC-d Flow Multiplexing List* IE in the COMMON TRANSPORT CHANNEL RESOURCES RESPONSE message. If the COMMON TRANSPORT CHANNEL RESOURCES REQUEST message includes the *C-ID* IE and the *Common E-* *DCH Support Indicator* IE, the DRNC may include the *E-RNTI* IE in the COMMON TRANSPORT CHANNEL RESOURCES RESPONSE message.]

[1.28Mcps TDD – If the COMMON TRANSPORT CHANNEL RESOURCES REQUEST message includes a *Enhanced FACH Support Indicator* IE, the DRNC may include the *Common E-DCH MAC-d Flow Specific Information LCR* IE in the COMMON TRANSPORT CHANNEL RESOURCES RESPONSE message.]

If the COMMON TRANSPORT CHANNEL RESOURCES REQUEST message includes an *HS-DSCH physical layer category* IE, the DRNC may store the information for the considered UE Context for the lifetime of the UE Context.

[FDD – If the COMMON TRANSPORT CHANNEL RESOURES REQUEST message includes an *UE with enhanced HS-SCCH support indicator* IE, the DRNC may store the information for the considered UE Context for the lifetime of the UE context.]

# 8.4.1.3 Unsuccessful Operation

SR	NC	DRNC
	COMMON TRANSPORT CHANNEL RESOURCES REQUEST	
	COMMON TRANSPORT CHANNEL RESOURCES FAILURE	

### Figure 28: Common Transport Channel Resources Initialisation procedure, Unsuccessful Operation

If the *Transport Bearer Request Indicator* IE is set to "Bearer Requested" and the DRNC is not able to provide a Transport Bearer, the DRNC shall reject the procedure and respond to the SRNC with the COMMON TRANSPORT CHANNEL RESOURCES FAILURE message, including the reason for the failure in the *Cause* IE.

If the COMMON TRANSPORT CHANNEL RESOURCES REQUEST message contains a *C-ID* IE corresponding to a cell reserved for operator use and the Permanent NAS UE Identity is not available for the considered UE Context, the DRNC shall reject the procedure and send the COMMON TRANSPORT CHANNEL RESOURCES FAILURE message, including the reason for the failure in the *Cause* IE.

Typical cause values are:

#### **Radio Network Layer Causes:**

- Common Transport Channel Type not Supported;
- Cell reserved for operator use.

#### **Transport Layer Causes:**

- Transport Resource Unavailable.

## 8.4.1.4 Abnormal Conditions

If the COMMON TRANSPORT CHANNEL RESOURCES REQUEST message contains the *Transport Layer Address* IE or the *Binding ID* IE, and not both are present for a transport channel intended to be established, the DRNC shall reject the procedure using the COMMON TRANSPORT CHANNEL RESOURCES FAILURE message.

If ALCAP is not used, if the COMMON TRANSPORT CHANNEL RESOURCES REQUEST message contains the *Transport Bearer Request Indicator* IE set to "Bearer Requested" but does not contain the *Transport Layer Address* IE and the *Binding ID* IE, the DRNC shall reject the procedure using the COMMON TRANSPORT CHANNEL RESOURCES FAILURE message.

# 8.4.2 Common Transport Channel Resources Release

# 8.4.2.1 General

This procedure is used by the SRNC to request release of Common Transport Channel Resources for a given UE in the DRNS. The SRNC uses this procedure either to release the UE Context from the DRNC (and thus both the D-RNTI and the C-RNTI) or to release only the C-RNTI.

This procedure shall use the connectionless mode of the signalling bearer.

# 8.4.2.2 Successful Operation



## Figure 29: Common Transport Channel Resources Release procedure, Successful Operation

The SRNC initiates the Common Transport Channel Resources Release procedure by sending the COMMON TRANSPORT CHANNEL RESOURCES RELEASE REQUEST message to the DRNC. Upon receipt of the message the DRNC shall release the UE Context identified by the D-RNTI and all its related RACH and/or FACH resources, unless the UE is using dedicated resources (DCH, [TDD – USCH and/or DSCH]) in the DRNS in which case the DRNC shall release only the C-RNTI and all its related RACH and/or FACH [FDD – and/or HS-DSCH] [1.28Mcps TDD – and/or HS-DSCH] resources allocated for the UE.

8.4.2.3 Abnormal Conditions

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# 8.5 Global Procedures

# 8.5.1 Error Indication

## 8.5.1.1 General

The Error Indication procedure is initiated by a node to report detected errors in a received message, provided they cannot be reported by an appropriate response message.

This procedure shall use the signalling bearer mode specified below.

# 8.5.1.2 Successful Operation





When the conditions defined in clause 10 are fulfilled, the Error Indication procedure is initiated by an ERROR INDICATION message sent from the receiving node. This message shall use the same mode of the signalling bearer and the same signalling bearer connection (if connection oriented) as the message that triggers the procedure.

When the ERROR INDICATION message is sent from a DRNC to an SRNC using connectionless mode of the signalling bearer, the *S-RNTI* IE shall be included in the message if the UE Context addressed by the *D-RNTI* IE which was received in the message triggering the Error Indication procedure exists. When the ERROR INDICATION message is sent from an SRNC to a DRNC using connectionless mode of the signalling bearer, the *D-RNTI* IE shall be included in the message if available.

When a message using connectionless mode of the signalling bearer is received in the DRNC and there is no UE Context in the DRNC as indicated by the *D-RNTI* IE, the DRNC shall include the *D-RNTI* from the received message in the *D-RNTI* IE and set the *Cause* IE to "Unknown RNTI" in the ERROR INDICATION message, unless another handling is specified in the procedure text for the affected procedure.

When a message using connectionless mode of the signalling bearer is received in the SRNC and there is no UE in the SRNC as indicated by the *S-RNTI* IE, the SRNC shall include the *S-RNTI* from the received message in the *S-RNTI* IE and set the *Cause* IE to "Unknown RNTI" in the ERROR INDICATION message, unless another handling is specified in the procedure text for the affected procedure.

The ERROR INDICATION message shall include either the *Cause* IE, or the *Criticality Diagnostics* IE, or both the *Cause* IE and the *Criticality Diagnostics* IE to indicate the reason for the error indication.

Typical cause values for the ERROR INDICATION message are:

#### **Protocol Causes:**

- Transfer Syntax Error
- Abstract Syntax Error (Reject)
- Abstract Syntax Error (Ignore and Notify)
- Message not Compatible with Receiver State
- Unspecified

## 8.5.1.2.1 Successful Operation for lur-g

The RNC<sub>1</sub>/BSS<sub>1</sub> and RNC<sub>2</sub>/BSS<sub>2</sub> shall use the error indication procedure as specified in section 8.5.1.2.

# 8.5.1.3 Abnormal Conditions

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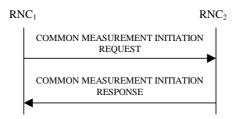
# 8.5.2 Common Measurement Initiation

### 8.5.2.1 General

This procedure is used by an RNC to request the initiation of measurements of common resources to another RNC. The requesting RNC is referred to as  $RNC_1$  and the RNC to which the request is sent is referred to as  $RNC_2$ .

This procedure uses the signalling bearer connection for the relevant Distant RNC Context.

# 8.5.2.2 Successful Operation



#### Figure 30A: Common Measurement Initiation procedure, Successful Operation

The procedure is initiated with a COMMON MEASUREMENT INITIATION REQUEST message sent from the RNC<sub>1</sub> to the RNC<sub>2</sub>.

Upon receipt, the RNC<sub>2</sub> shall initiate the requested measurement according to the parameters given in the request.

Unless specified below, the meaning of the parameters are given in other specifications.

[TDD – If the [3.84 Mcps TDD and 7.68 Mcps TDD – *Time Slot* IE] [1.28 Mcps – *Time Slot LCR* IE] is present in the COMMON MEASUREMENT INITIATION REQUEST message, the measurement request shall apply to the requested time slot individually.]

#### **Common measurement type**

If the Common Measurement Type IE is set to "SFN-SFN Observed Time Difference", then:

- The RNC<sub>2</sub> shall initiate the SFN-SFN Observed Time Difference measurements between the reference cell identified by the *Reference Cell Identifier* IE and the neighbouring cells identified by the *UTRAN Cell Identifier* IE (*UC-ID*) in the *Neighbouring Cell Measurement Information* IE.
- [3.84 Mcps TDD The RNC<sub>2</sub> shall perform the measurement using the time slot specified in the *Time Slot* IE in the *Neighbouring TDD Cell Measurement Information* IE and using the midamble shift and burst type specified in the *Midamble Shift And Burst Type* IE in the *Neighbouring TDD Cell Measurement Information* IE. If *Time Slot* IE and *Midamble Shift And Burst Type* IE are not available in the *Neighbouring TDD Cell Measurement Information* IE. If *Time Slot* IE and *Midamble Shift And Burst Type* IE are not available in the *Neighbouring TDD Cell Measurement Information* IE, the RNC<sub>2</sub> may use any appropriate time slots, midamble shifts and burst types to make the measurement.]
- [7.68 Mcps TDD The RNC<sub>2</sub> shall perform the measurement using the time slot specified in the *Time Slot* IE in the *Neighbouring TDD Cell Measurement Information 7.68 Mcps* IE and using the midamble shift and burst type specified in the *Midamble Shift And Burst Type 7.68 Mcps* IE in the *Neighbouring TDD Cell Measurement Information 7.68 Mcps* IE. If *Time Slot* IE and *Midamble Shift And Burst Type 7.68 Mcps* IE are not available in the *Neighbouring TDD Cell Measurement Information 7.68 Mcps* IE are not available in the *Neighbouring TDD Cell Measurement Information 7.68 Mcps* IE, the RNC<sub>2</sub> may use any appropriate time slots, midamble shifts and burst types to make the measurement.]

If the *Common Measurement Type* IE is set to "load", the RNC<sub>2</sub> shall initiate measurements of uplink and downlink load on the measured object identified by the *Reference Cell Identifier* IE. If either uplink or downlink load satisfies the requested report characteristics, the RNC<sub>2</sub> shall report the result of both uplink and downlink measurements.

If the *Common Measurement Type* IE is set to "UTRAN GPS Timing of Cell Frames for UE Positioning", "UTRAN GANSS Timing of Cell Frames for UE Positioning", "transmitted carrier power", "received total wide band power", or "UL timeslot ISCP" the RNC<sub>2</sub> shall initiate measurements on the measured object identified by the *Reference Cell Identifier* IE.

If the *Common Measurement Type* IE is set to "UTRAN GANSS Timing of Cell Frames for UE Positioning", then the RNC<sub>2</sub> shall initiate the UTRAN GANSS Timing of Cell Frames measurements using the GNSS system time identified by *GANSS Time ID* IE included in the COMMON MEASUREMENT INITIATION REQUEST message.

- If the *Common Measurement Type* IE is set to "UTRAN GANSS Timing of Cell Frames for UE Positioning" and the *GANSS Time ID* IE is not included in the COMMON MEASUREMENT INITIATION REQUEST message, the RNC<sub>2</sub> shall assume that the corresponding GANSS time is "Galileo" system time.

If the *Common Measurement Type* IE is set to "RT load", the RNC<sub>2</sub> shall initiate measurements of uplink and downlink estimated share of RT (Real Time) traffic of the load of the measured object. If either uplink or downlink RT load satisfies the requested report characteristics, the RNC<sub>2</sub> shall report the result of both uplink and downlink measurements.

If the *Common Measurement Type* IE is set to "NRT load Information", the  $RNC_2$  shall initiate measurements of uplink and downlink NRT (Non Real Time) load situation on the measured object. If either uplink or downlink NRT load satisfies the requested report characteristics, the  $RNC_2$  shall report the result of both uplink and downlink measurements.

#### **Report characteristics**

The Report Characteristics IE indicates how the reporting of the measurement shall be performed. See also Annex B.

If the *Report Characteristics* IE is set to "On Demand" and if the *SFN* IE is not provided, the RNC<sub>2</sub> shall report the result of the requested measurement immediately in the COMMON MEASUREMENT INITIATION RESPONSE message. If the *SFN* IE is provided, it indicates the frame for which the measurement value shall be provided. The provided measurement value shall be the one reported by the layer 3 filter, referred to as point C in the measurement model in TS 25.302 [26]. Furthermore, if the *SFN* IE is present and if the *Common Measurement Type* IE is set to "SFN-SFN Observed Time Difference", then the *SFN* IE relates to the Radio Frames of the Reference Cell identified by the *Reference Cell Identifier* IE.

If the *Report Characteristics* IE is set to "Periodic" and if the *SFN* IE is not provided, the RNC<sub>2</sub> shall immediately and periodically initiate a Common Measurement Reporting procedure for this measurement, with a frequency as specified by the *Report Periodicity* IE. If the *SFN* IE is provided, the RNC<sub>2</sub> shall initiate a Common Measurement Reporting procedure for this measurement at the SFN indicated in the *SFN* IE, and shall repeat this initiation periodically thereafter with a frequency as specified by the *Report Periodicity* IE. The provided measurement value shall be the one reported by the layer 3 filter, referred to as point C in the measurement model in TS 25.302 [26]. Furthermore, if the *SFN* IE is present and if the *Common Measurement Type* IE is set to "SFN-SFN Observed Time Difference ", then the *SFN* IE relates to the Radio Frames of the Reference Cell identified by the *Reference Cell Identifier* IE.

If the *Report Characteristics* IE is set to "Event A", the RNC<sub>2</sub> shall initiate the Common Measurement Reporting procedure when the measured entity rises above the requested threshold, as specified by the *Measurement Threshold* IE, and then stays above the threshold for the requested hysteresis time, as specified by the *Measurement Hysteresis Time* IE. If the *Measurement Hysteresis Time* IE is not included, the RNC<sub>2</sub> shall use the value zero for the hysteresis time.

If the *Report Characteristics* IE is set to "Event B", the RNC<sub>2</sub> shall initiate the Common Measurement Reporting procedure when the measured entity falls below the requested threshold, as specified by the *Measurement Threshold* IE, and then stays below the threshold for the requested hysteresis time, as specified by the *Measurement Hysteresis Time* IE. If the *Measurement Hysteresis Time* IE is not included, the RNC<sub>2</sub> shall use the value zero for the hysteresis time.

If the *Report Characteristics* IE is set to "Event C", the RNC<sub>2</sub> shall initiate the Common Measurement Reporting procedure when the measured entity rises more than the requested threshold specified by the *Measurement Increase/Decrease Threshold* IE, and only when this rise occurs within the requested rising time specified by the *Measurement Change Time* IE. After reporting this type of event, the RNC<sub>2</sub> shall not initiate the next C event reporting for the same measurement during the subsequent time specified by the *Measurement Change Time* IE.

If the *Report Characteristics* IE is set to "Event D", the RNC<sub>2</sub> shall initiate the Common Measurement Reporting procedure when the measured entity falls more than the requested threshold specified by the *Measurement Increase/Decrease Threshold* IE, and only when this fall occurs within the requested falling time specified by the *Measurement Change Time* IE. After reporting this type of event, the RNC<sub>2</sub> shall not initiate the next D event reporting for the same measurement during the subsequent time specified by the *Measurement Change Time* IE.

If the *Report Characteristics* IE is set to "Event E", the RNC<sub>2</sub>shall initiate the Common Measurement Reporting procedure when the measured entity rises above the *Measurement Threshold 1* IE and stays above the threshold for the *Measurement Hysteresis Time* IE (Report A). When the conditions for Report A are met and if the *Report Periodicity* IE is provided, the RNC<sub>2</sub> shall initiate the Common Measurement Reporting procedure periodically with the requested report frequency specified by the *Report Periodicity* IE. If the conditions for Report A have been met and the measured entity falls below the *Measurement Threshold 2* IE and stays below the threshold for the *Measurement Hysteresis Time* IE, the RNC<sub>2</sub> shall initiate the Common Measurement Reporting procedure (Report B) and shall terminate any corresponding periodic reporting. If the *Measurement Threshold 2* IE is not present, the RNC<sub>2</sub> shall use the value of the *Measurement Threshold 1* IE instead. If the *Measurement Hysteresis Time* IE is not included, the RNC<sub>2</sub> shall use the value zero as hysteresis times for both Report A and Report B.

If the *Report Characteristics* IE is set to "Event F", the RNC<sub>2</sub> shall initiate the Common Measurement Reporting procedure when the measured entity falls below the *Measurement Threshold 1* IE and stays below the threshold for the *Measurement Hysteresis Time* IE (Report A). When the conditions for Report A are met and if the *Report Periodicity* IE is provided, the RNC<sub>2</sub> shall initiate the Measurement Reporting procedure periodically with the requested report frequency specified by the *Report Periodicity* IE. If the conditions for Report A have been met and the measured entity rises above the *Measurement Threshold* 2 IE and stays above the threshold for the *Measurement Hysteresis Time* IE, the RNC<sub>2</sub> shall initiate the Common Measurement Reporting procedure (Report B) and shall terminate any corresponding periodic reporting. If the *Measurement Threshold* 2 IE is not present, the RNC<sub>2</sub> shall use the value of the *Measurement Threshold* 1 IE instead. If the *Measurement Hysteresis Time* IE is not included, the RNC<sub>2</sub> shall use the value zero as hysteresis times for both Report A and Report B.

If the *Report Characteristics* IE is set to "On Modification" and if the *SFN* IE is not provided, the RNC<sub>2</sub> shall report the result of the requested measurement immediately. If the *SFN* IE is provided, it indicates the frame for which the first measurement value shall be provided. The provided measurement value shall be the one reported by the layer 3 filter, referred to as point C in the measurement model in TS 25.302 [26]. Furthermore, if the *SFN* IE is present and if the *Common Measurement Type* IE is set to "SFN-SFN Observed Time Difference", then the *SFN* IE relates to the Radio Frames of the Reference Cell identified by the *Reference Cell Identifier* IE. Following the first measurement report, the RNC<sub>2</sub> shall initiate the Common Measurement Reporting procedure in accordance to the following conditions:

- 1. If the Common Measurement Type IE is set to "UTRAN GPS Timing of Cell Frames for UE Positioning":
  - If the T<sub>UTRAN-GPS</sub> Change Limit IE is included in the T<sub>UTRAN-GPS</sub> Measurement Threshold Information IE, the RNC<sub>2</sub> shall calculate the change of T<sub>UTRAN-GPS</sub> value (F<sub>n</sub>) each time a new measurement result is received after point C in the measurement model in TS 25.302 [26]. The RNC<sub>2</sub> shall initiate the Common Measurement Reporting procedure and set n equal to zero when the absolute value of F<sub>n</sub> rises above the threshold indicated by the T<sub>UTRAN-GPS</sub> Change Limit IE. The change of T<sub>UTRAN-GPS</sub> value (F<sub>n</sub>) is calculated according to the following:

F<sub>n</sub>=0 for n=0

$$F_n = (M_n - M_{n-1}) \mod 3715891200000 - ((SFN_n - SFN_{n-1}) \mod 4096) *10*3.84*10^{-3}*16 + F_{n-1} \qquad \text{for } n > 0$$

- $F_n$  is the change of the  $T_{UTRAN-GPS}$  value expressed in unit [1/16 chip] when n measurement results have been received after the first Common Measurement Reporting at initiation or after the last event was triggered.
- $M_n$  is the latest measurement result received after point C in the measurement model in TS 25.302 [26], measured at SFN<sub>n</sub>.
- M<sub>n-1</sub> is the previous measurement result received after point C in the measurement model in TS 25.302 [26], measured at SFN<sub>n-1</sub>.
- M<sub>1</sub> is the first measurement result received after point C in the measurement model in TS 25.302 [26], after first Common Measurement Reporting at initiation or after the last event was triggered.
- M<sub>0</sub> is equal to the value reported in the first Common Measurement Reporting at initiation or in the Common Measurement Reporting when the event was triggered.
- If the Predicted T<sub>UTRAN-GPS</sub> Deviation Limit IE is included in the T<sub>UTRAN-GPS</sub> Measurement Threshold Information IE, the RNC<sub>2</sub> shall update the P<sub>n</sub> and F each time a new measurement result is received after point C in the measurement model in TS 25.302 [26]. The RNC<sub>2</sub> shall initiate the Common Measurement Reporting procedure and set n equal to zero when F<sub>n</sub> rises above the threshold indicated by the Predicted T<sub>UTRAN-GPS</sub> Deviation Limit IE. The P<sub>n</sub> and F<sub>n</sub> are calculated according to the following:

P<sub>n</sub>=b for n=0

- $\begin{array}{ll} P_n = \left( (a/16) * \left( (SFN_n SFN_{n-1}) \mbox{ mod } 4096 \right) / 100 + \left( (SFN_n SFN_{n-1}) \mbox{ mod } 4096 \right) * 10 * 3.84 * 10^{\wedge} 3 * 16 + P_{n-1} \mbox{ } 10 + 10^{\circ} 3 * 16 + P_{n-1} \mbox{ } 10 + 10^{\circ} 3 * 16 + P_{n-1} \mbox{ } 10 + 10^{\circ} 3 * 16 + P_{n-1} \mbox{ } 10 + 10^{\circ} 3 + 10^{\circ} 3$
- $F_n = min((M_n P_n) \mod 37158912000000, (P_n M_n) \mod 37158912000000)$  for n>0
- $P_n$  is the predicted  $T_{UTRAN-GPS}$  value when n measurement results have been received after the first Common Measurement Reporting at initiation or after the last event was triggered.

A is the last reported T<sub>UTRAN-GPS</sub> Drift Rate value.

B is the last reported T<sub>UTRAN-GPS</sub> value.

- $F_n$  is the deviation of the last measurement result from the predicted  $T_{UTRAN-GPS}$  value ( $P_n$ ) when n measurements have been received after the first Common Measurement Reporting at initiation or after the last event was triggered.
- $M_n$  is the latest measurement result received after point C in the measurement model in TS 25.302 [26], measured at SFN<sub>n</sub>.
- M<sub>1</sub> is the first measurement result received after point C in the measurement model in TS 25.302 [26], after first Common Measurement Reporting at initiation or after the last event was triggered.

The  $T_{UTRAN-GPS}$  Drift Rate is determined by the RNS<sub>2</sub> in an implementation-dependent way after point B (see model of physical layer measurements in TS 25.302 [26]).

- 2. If the Common Measurement Type IE is set to "SFN-SFN Observed Time Difference":
  - If the *SFN-SFN Change Limit* IE is included in the *SFN-SFN Measurement Threshold Information* IE, the RNC<sub>2</sub> shall calculate the change of SFN-SFN value ( $F_n$ ) each time a new measurement result is received after point C in the measurement model in TS 25.302 [26]. The RNC<sub>2</sub> shall initiate the Common Measurement Reporting procedure in order to report the particular SFN-SFN measurement which has triggered the event and set n equal to zero when the absolute value of  $F_n$  rises above the threshold indicated by the *SFN-SFN Change Limit* IE. The change of the SFN-SFN value is calculated according to the following:

F<sub>n</sub>=0 for n=0

 $[FDD - F_n = (M_n - a) \mod 614400 \text{ for } n > 0]$ 

 $[TDD - F_n = (M_n - a) \mod 40960$  for n>0]

 $F_n$  is the change of the SFN-SFN value expressed in unit [1/16 chip] when n measurement results have been received after the first Common Measurement Reporting at initiation or after the last event was triggered.

A is the last reported SFN-SFN.

- M<sub>n</sub> is the latest measurement result received after point C in the measurement model in TS 25.302 [26], measured at SFN<sub>n</sub>.
- M<sub>1</sub> is the first measurement result received after point C in the measurement model in TS 25.302 [26], after the first Common Measurement Reporting at initiation or after the last event was triggered.
- If the *Predicted SFN-SFN Deviation Limit* IE is included in the *SFN-SFN Measurement Threshold Information* IE, the RNC<sub>2</sub> shall each time a new measurement result is received after point C in the measurement model in TS 25.302 [26], update the  $P_n$  and  $F_n$ . The RNC<sub>2</sub> shall initiate the Common Measurement Reporting procedure in order to report the particular SFN-SFN measurement which has triggered the event and set n equal to zero when  $F_n$  rises above the threshold indicated by the *Predicted SFN-SFN Deviation Limit* IE. The  $P_n$  and  $F_n$  are calculated according to the following:
  - P<sub>n</sub>=b for n=0

 $[FDD - P_n = ((a/16) * ((SFN_n - SFN_{n-1}) \mod 4096)/100 + P_{n-1}) \mod 614400 \text{ for } n>0]$ 

 $[FDD - F_n = min((M_n - P_n) \mod 614400, (P_n - M_n) \mod 614400) \quad \text{for } n > 0]$ 

 $[TDD - P_n = ((a/16) * (15*(SFN_n - SFN_{n-1})mod \ 4096 + (TS_n - TS_{n-1}))/1500 + P_{n-1}) \ mod \ 40960 \ for \ n>0]$ 

 $[TDD - F_n = min((M_n - P_n) \mod 40960, (P_n - M_n) \mod 40960)$  for n>0]

P<sub>n</sub> is the predicted SFN-SFN value when n measurement results have been received after the first Common Measurement Reporting at initiation or after the last event was triggered.

A is the last reported SFN-SFN Drift Rate value.

B is the last reported SFN-SFN value.

for n>0

- $F_n$  is the deviation of the last measurement result from the predicted SFN-SFN value ( $P_n$ ) when n measurements have been received after first Common Measurement Reporting at initiation or after the last event was triggered.
- $M_n$  is the latest measurement result received after point C in the measurement model in TS 25.302 [26], measured at the [TDD the Time Slot TS<sub>n</sub> of] the Frame SFN<sub>n</sub>.
- M<sub>1</sub> is the first measurement result received after point C in the measurement model in TS 25.302 [26], after first Common Measurement Reporting at initiation or after the last event was triggered.

The SFN-SFN Drift Rate is determined by the  $RNS_2$  in an implementation-dependent way after point B (see model of physical layer measurements in TS 25.302 [26]).

- 3. If the Common Measurement Type IE is set to "UTRAN GANSS Timing of Cell Frames for UE Positioning":
  - If the  $T_{UTRAN-GANSS}$  Change Limit IE is included in the  $T_{UTRAN-GANSS}$  Measurement Threshold Information IE, the RNC<sub>2</sub> shall calculate the change of  $T_{UTRAN-GANSS}$  value ( $F_n$ ) each time a new measurement result is received after point C in the measurement model in TS 25.302 [26]. The RNC<sub>2</sub> shall initiate the Common Measurement Reporting procedure and set n equal to zero when the absolute value of  $F_n$  rises above the threshold indicated by the  $T_{UTRAN-GANSS}$  Change Limit IE. The change of  $T_{UTRAN-GANSS}$  value ( $F_n$ ) is calculated according to the following:

Fn=0 for n=0

 $Fn = (GAMn - GAMn - 1) \mod 5308416000000 - ((SFNn - SFNn - 1) \mod 4096) *10*3.84*10^{3}*16 + Fn - 10^{3} + 10^{3}$ 

for n>0

- Fn is the change of the TUTRAN-GANSS value expressed in unit [1/16 chip] when n measurement results have been received after the first Common Measurement Reporting at initiation or after the last event was triggered.
- GAMn is the latest GANSS measurement result received after point C in the GANSS measurement model, measured at SFNn.
- GAMn-1 is the previous GANSS measurement result received after point C in the GANSS measurement model, measured at SFNn-1.
- GAM1 is the first GANSS measurement result received after point C in the GANSS measurement model, after the first Common Measurement Reporting at initiation or after the last event was triggered.
- GAM0 is equal to the value reported in the first Common Measurement Reporting at initiation or in the Common Measurement Reporting when the event was triggered.

GANSS measurement model is the timing between cell j and GANSS Time Of Day.  $T_{UE-GANSSj}$  is defined as the time of occurrence of a specified UTRAN event according to GANSS time. The specified UTRAN event is the beginning of a particular frame (identified through its SFN) in the first detected path (in time) of the cell j CPICH, where cell j is a cell chosen by the UE. The reference point for  $T_{UE-GANSSj}$  shall be the antenna connector of the UE.

If the *Predicted*  $T_{UTRAN-GANSS}$  *Deviation Limit* IE is included in the  $T_{UTRAN-GANSS}$  *Measurement Threshold Information* IE, the RNC<sub>2</sub> shall update the P<sub>n</sub> and F each time a new measurement result is received after point C in the measurement model in TS 25.302 [26]. The RNC<sub>2</sub> shall initiate the Common Measurement Reporting procedure and set n equal to zero when F<sub>n</sub> rises above the threshold indicated by the *Predicted*  $T_{UTRAN-GANSS}$  *Deviation Limit* IE. The P<sub>n</sub> and F<sub>n</sub> are calculated according to the following:

 $P_n = b \text{ for } n = 0$ 

- $\begin{array}{l} P_n = ((a/16)*((SFN_n SFN_{n-1}) \bmod 4096)/100 + ((SFN_n SFN_{n-1}) \bmod 4096)*10*3.84*10^{A}3*16 + P_{n-1} ) \bmod 4096) + ((SFN_n SFN_{n-1}) \bmod 4096)*10*3.84*10^{A}3*16 + P_{n-1} ) \bmod 10^{A} + ((SFN_n SFN_{n-1}) \bmod 4096) + ((SFN_n SFN_{n-1}) (SFN_n SFN_{n-1}) (SFN_n SFN_{n-1}) (SFN_n SFN_{n-1}) + (SFN_n SFN_$
- $F_n = min((GAM_n P_n) \mod 5308416000000, (P_n GAM_n) \mod 5308416000000)$
- P<sub>n</sub> is the predicted T<sub>UTRAN-GANSS</sub> value when n measurement results have been received after the first Common Measurement Reporting at initiation or after the last event was triggered.

A is the last reported T<sub>UTRAN-GANSS</sub> Drift Rate value.

- B is the last reported T<sub>UTRAN-GANSS</sub> value.
- $F_n$  is the deviation of the last measurement result from the predicted  $T_{UTRAN-GANSS}$  value ( $P_n$ ) when n measurements have been received after the first Common Measurement Reporting at initiation or after the last event was triggered.
- GAM<sub>n</sub> is the latest GANSS measurement result received after point C in the GANSS measurement model, measured at SFN<sub>n</sub>
- GAM<sub>1</sub> is the first GANSS measurement result received after point C in the GANSS measurement model, after the first Common Measurement Reporting at initiation or after the last event was triggered.

The  $T_{UTRAN-GANSSS}$  Drift Rate is determined by the RNS<sub>2</sub> in an implementation-dependent way after point B (see model of physical layer measurements in TS 25.302 [26]).

If the *Report Characteristics* IE is not set to "On Demand", the RNC<sub>2</sub> is required to perform reporting for a common measurement object, in accordance with the conditions provided in the COMMON MEASUREMENT INITIATION REQUEST message, as long as the object exists. If no common measurement object(s) for which a measurement is defined exists any more, the RNC<sub>2</sub> shall terminate the measurement locally without reporting this to RNC<sub>1</sub>.

If at the start of the measurement, the reporting criteria are fulfilled for any of Event A, Event B, Event E or Event F, the  $RNC_2$  shall initiate a Measurement Reporting procedure immediately, and then continue with the measurements as specified in the COMMON MEASUREMENT INITIATION REQUEST message.

#### **Common measurement accuracy**

If the Common Measurement Type IE is set to "UTRAN GPS Timing of Cell Frames for UE Positioning", then the RNC<sub>2</sub> shall use the  $T_{UTRAN-GPS}$  Measurement Accuracy Class IE included in the Common Measurement Accuracy IE according to the following:.

- If the *T<sub>UTRAN-GPS</sub> Measurement Accuracy Class* IE indicates "Class A", then the concerned RNC<sub>2</sub> shall perform the measurement with the highest supported accuracy within the accuracy classes A, B or C.
- If the *T<sub>UTRAN-GPS</sub> Measurement Accuracy Class* IE indicates the "Class B", then the concerned RNC<sub>2</sub> shall perform the measurements with the highest supported accuracy within the accuracy classes B and C.
- If the *T<sub>UTRAN-GPS</sub> Measurement Accuracy Class* IE indicates "Class C", then the concerned RNC<sub>2</sub> shall perform the measurements with the highest supported accuracy according to class C.

If the *Common Measurement Type* IE is set to "SFN-SFN Observed Time Difference", then the concerned RNC<sub>2</sub> shall initiate the SFN-SFN observed Time Difference measurements between the reference cell identified by *UC-ID* IE and the neighbouring cells identified by their UC-ID. The *Report Characteristics* IE applies to each of these measurements.

If the Common Measurement Type IE is set to "UTRAN GANSS Timing of Cell Frames for UE positioning", then the RNC<sub>2</sub> shall use the  $T_{UTRAN-GANSS}$  Measurement Accuracy Class IE included in the Common Measurement Accuracy IE according to the following:

- If the *T<sub>UTRAN-GANSS</sub> Measurement Accuracy Class* IE indicates "Class A", then the concerned RNC<sub>2</sub> shall perform the measurement with the highest supported accuracy within the accuracy classes A, B or C.
- If the *T<sub>UTRAN-GANSS</sub> Measurement Accuracy Class* IE indicates the "Class B", then the concerned RNC<sub>2</sub> shall perform the measurements with the highest supported accuracy within the accuracy classes B and C.
- If the *T<sub>UTRAN-GANSS</sub> Measurement Accuracy Class* IE indicates "Class C", then the concerned RNC<sub>2</sub> shall perform the measurements with the highest supported accuracy according to class C.

#### **Higher layer filtering**

The *Measurement Filter Coefficient* IE indicates how filtering of the measurement values shall be performed before measurement event evaluation and reporting.

The averaging shall be performed according to the following formula.

 $F_n = (1-a) \cdot F_{n-1} + a \cdot M_n$ 

The variables in the formula are defined as follows

 $F_n$  is the updated filtered measurement result

 $F_{n-1}$  is the old filtered measurement result

 $M_n$  is the latest received measurement result from physical layer measurements, the unit used for  $M_n$  is the same unit as the reported unit in the COMMON MEASUREMENT INITIATION RESPONSE, COMMON MEASUREMENT REPORT messages or the unit used in the event evaluation (i.e. same unit as for Fn).

 $A = \frac{1}{2}(k^{2})$ -, where k is the parameter received in the *Measurement Filter Coefficient* IE. If the *Measurement Filter Coefficient* IE is not present, *a* shall be set to 1 (no filtering).

In order to initialise the averaging filter,  $F_0$  is set to  $M_1$  when the first measurement result from the physical layer measurement is received.

#### **Measurement Recovery Behavior:**

If the *Measurement Recovery Behavior* IE is included in the COMMON MEASUREMENT INITIATION REQUEST message, the RNC<sub>2</sub> shall, if Measurement Recovery Behavior is supported, include the *Measurement Recovery Support Indicator* IE in the COMMON MEASUREMENT INITIATION RESPONSE message and perform the Measurement Recovery Behavior as described in subclause 8.5.3.2.

#### **Response message**

If the RNC<sub>2</sub> was able to initiate the measurement requested by RNC, it shall respond with the COMMON MEASUREMENT INITIATION RESPONSE message. The message shall include the same Measurement ID that was used in the COMMON MEASUREMENT INITIATION REQUEST message.

In the case in which the Report Characteristics IE is set to "On Demand" or "On Modification":

- The COMMON MEASUREMENT INITIATION RESPONSE message shall include the *Common Measurement Object Type* IE containing the measurement result. It shall also include the *Common Measurement Achieved Accuracy* IE if the *Common Measurement Type* IE is set to "UTRAN GPS Timing of Cell Frames for UE positioning" or "UTRAN GANSS Timing of Cell Frames for UE positioning".
- If the *Common Measurement Type* IE is not set to "SFN-SFN Observed Time Difference" and if the *SFN Reporting Indicator* IE is set to "FN Reporting Required", then the RNC<sub>2</sub> shall include the *SFN* IE in the COMMON MEASUREMENT INITIATION RESPONSE message,. The reported SFN shall be the SFN at the time when the measurement value was reported by the layer 3 filter, referred to as point C in the measurement model in TS 25.302 [26]. If the *Common Measurement Type* IE is set to "SFN-SFN Observed Time Difference", then the *SFN Reporting Indicator* IE is ignored.
- If the Common Measurement Type IE is set to "SFN-SFN Observed Time Difference", then the RNC<sub>2</sub> shall report all the available measurements in the Successful Neighbouring cell SFN-SFN Observed Time Difference Measurement Information IE, and the RNC<sub>2</sub> shall report the neighbouring cells with no measurement result available in the Unsuccessful Neighbouring cell SFN-SFN Observed Time Difference Measurement Information IE. For all available measurement results, the RNC<sub>2</sub> shall include in the Successful Neighbouring Cell SFN-SFN Observed Time Difference Measurement results, the RNC<sub>2</sub> shall include in the Successful Neighbouring Cell SFN-SFN Observed Time Difference Measurement Information IE the SFN-SFN Quality IE and the SFN-SFN Drift Rate Quality IE, if available.

If the Common Measurement Type IE is set to "UTRAN GPS Timing of Cell Frames for UE Positioning" and the Report Characteristics IE is set to "On Demand" or "On Modification", the RNC<sub>2</sub> shall include in the  $T_{UTRAN-GPS}$  Measurement Value Information IE the  $T_{UTRAN-GPS}$  Quality IE and the  $T_{UTRAN-GPS}$  Drift Rate Quality IE, if available.

If the Common Measurement Type IE is set to "UTRAN GANSS Timing of Cell Frames for UE Positioning" and the Report Characteristics IE is set to "On Demand" or "On Modification", the RNC<sub>2</sub> shall include in the  $T_{UTRAN-GANSS}$  Measurement Value Information IE, the  $T_{UTRAN-GANSS}$  Quality IE and the  $T_{UTRAN-GANSS}$  Drift Rate Quality IE, if available.

## 8.5.2.2.1 Successful Operation for lur-g

The procedure is initiated with a COMMON MEASUREMENT INITIATION REQUEST message sent from the  $RNC_1$  to the  $BSS_2$  or from the  $BSS_1$  to the  $RNC_2/BSS_2$ .

Upon receipt, the RNC<sub>2</sub> /BSS<sub>2</sub> shall initiate the requested measurement according to the parameters given in the request.

#### Common measurement type on Iur-g

If the *Common Measurement Type* IE is set to "load", the RNC<sub>2</sub>/BSS<sub>2</sub> shall initiate measurements and report results as described in section 8.5.2.2.

If the *Common Measurement Type* IE is set to "RT load", the RNC<sub>2</sub>/BSS<sub>2</sub> shall initiate measurements and report results as described in section 8.5.2.2.

If the *Common Measurement Type* IE is set to "NRT load Information", the RNC<sub>2</sub>/BSS<sub>2</sub> shall initiate measurements and report results as described in section 8.5.2.2.

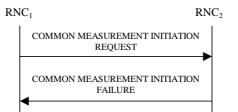
#### **Report characteristics on Iur-g**

The *Report Characteristics* IE indicates how the reporting of the measurement shall be performed. This IE is used as described in section 8.5.2.2.

#### **Response message for Iur-g**

If the RNC<sub>2</sub>/BSS<sub>2</sub> was able to initiate the measurement requested by RNC<sub>1</sub>/BSS<sub>1</sub> it shall respond with the COMMON MEASUREMENT INITIATION RESPONSE message sent. The message shall include the same Measurement ID that was used in the measurement request. Only in the case when the *Report Characteristics* IE is set to "On Demand", the COMMON MEASUREMENT INITIATION RESPONSE message shall contain the measurement result.

### 8.5.2.3 Unsuccessful Operation



#### Figure 30B: Common Measurement Initiation procedure, Unsuccessful Operation

If the requested measurement cannot be initiated, the RNC<sub>2</sub> shall send a COMMON MEASUREMENT INITIATION FAILURE message. The message shall include the same *Measurement ID* IE that was used in the COMMON MEASUREMENT INITIATION REQUEST message and shall include the *Cause* IE set to an appropriate value.

Typical cause values are as follows:

#### **Radio Network Layer Cause**

- Measurement not supported for the object.
- Measurement Temporarily not Available

## 8.5.2.4 Abnormal Conditions

If the COMMON MEASUREMENT INITIATION REQUEST message contains the *SFN-SFN Measurement Threshold Information* IE (in the *Measurement Threshold* IE contained in the *Report Characteristics* IE) and it does not contain at least one IE, the RNC<sub>2</sub> shall reject the procedure using the COMMON MEASUREMENT INITIATION FAILURE message.

If the COMMON MEASUREMENT INITIATION REQUEST message contains the  $T_{UTRAN-GPS}$  Measurement Threshold Information IE (in the Measurement Threshold IE contained in the Report Characteristics IE) and it does not contain at least one IE, the RNC<sub>2</sub> shall reject the procedure using the COMMON MEASUREMENT INITIATION FAILURE message.

If the COMMON MEASUREMENT INITIATION REQUEST message contains the  $T_{UTRAN-GANSS}$  Measurement Threshold Information IE (in the Measurement Threshold IE contained in the Report Characteristics IE) and it does not

contain at least one IE, the RNC<sub>2</sub> shall reject the procedure using the COMMON MEASUREMENT INITIATION FAILURE message.

If the *Common Measurement Type* IE is set to "UTRAN GPS Timing of Cell Frames for UE positioning", but the  $T_{UTRAN-GPS}$  Measurement Accuracy Class IE in the Common Measurement Accuracy IE is not included in the COMMON MEASUREMENT INITIATION REQUEST message, the RNC<sub>2</sub> shall reject the Common Measurement Initiation procedure using the COMMON MEASUREMENT INITIATION FAILURE message.

If the Common Measurement Type IE is set to "UTRAN GANSS Timing of Cell Frames for UE positioning", but the  $T_{UTRAN-GANSS}$  Measurement Accuracy Class IE in the Common Measurement Accuracy IE is not included in the COMMON MEASUREMENT INITIATION REQUEST message, the RNC<sub>2</sub> shall reject the Common Measurement Initiation procedure using the COMMON MEASUREMENT INITIATION FAILURE message.

If the Common Measurement Type received in the *Common Measurement Type* IE is not "load", "RT load" or "NRT load Information", and if the Common Measurement Type received in the *Common Measurement Type* IE is not defined in ref. TS 25.215 [11] or TS 25.304 [15] to be measured on the Common Measurement Object Type indicated in the COMMON MEASUREMENT INITIATION REQUEST message the RNC<sub>2</sub> shall reject the Common Measurement Initiation procedure using the COMMON MEASUREMENT INITIATION FAILURE message.

If the *Common Measurement Type* IE is set to "SFN-SFN Observed Time Difference", but the *Neighbouring Cell Measurement Information* IE is not received in the COMMON MEASUREMENT INITIATION REQUEST message, the RNC<sub>2</sub> shall reject the Common Measurement Initiation procedure using the COMMON MEASUREMENT INITIATION FAILURE message.

The allowed combinations of the Common Measurement Type and Report Characteristics Type are shown in the table below marked with "X". For not allowed combinations, the RNC<sub>2</sub> shall reject the Common Measurement Initiation procedure using the COMMON MEASUREMENT INITIATION FAILURE message.

Common measurement type	Report characteristics type								
	On Demand	Periodic	Event A	Event B	Event C	Event D	Event E	Event F	On Modification
Received total wide band power	Х	X	X	Х	Х	Х	Х	Х	
Transmitted Carrier Power	Х	X	X	Х	Х	Х	Х	Х	
UL Timeslot ISCP	Х	Х	Х	Х	Х	Х	Х	Х	
Load	Х	Х	Х	Х	Х	Х	Х	Х	
UTRAN GPS Timing of Cell Frames for UE Positioning	Х	X							Х
SFN-SFN Observed Time Difference	Х	Х							Х
RT load	Х	Х	Х	Х	Х	Х	Х	Х	
NRT load Information	Х	Х	Х	Х	Х	Х	Х	Х	
UpPTS interference	Х	Х	Х	Х	Х	Х	Х	Х	
UTRAN GANSS Timing of Cell Frames for UE Positioning	Х	X							Х

Table 5: Allowed Common Measurement Type and Report Characteristics Type Combinations

[TDD – If the Common Measurement Type requires the Time Slot Information but the [3.84Mcps TDD and 7.68 Mcps TDD – *Time Slot* IE] [1.28Mcps TDD – *Time Slot LCR* IE] is not provided in the COMMON MEASUREMENT INITIATION REQUEST message the RNS<sub>2</sub> shall reject the Common Measurement Initiation procedure using the COMMON MEASUREMENT INITIATION FAILURE message.]

If the *SFN* IE is included in the COMMON MEASUREMENT INITIATION REQUEST message and the *Report Characteristics* IE is other than "Periodic", "On Demand" or "On Modification", the RNS<sub>2</sub> shall reject the Common Measurement Initiation procedure using the COMMON MEASUREMENT INITIATION FAILURE message.

## 8.5.2.4.1 Abnormal Conditions for lur-g

The measurements which can be requested on the Iur and Iur-g interfaces are shown in the table below marked with "X".

Common Measurement Type	Interface	
	lur	lur-g
Received total wide band power	Х	
Transmitted Carrier Power	Х	
UL Timeslot ISCP	Х	
Load	Х	Х
UTRAN GPS Timing of Cell	X	
Frames for LCS		
SFN-SFN Observed Time	Х	
Difference		
RT load	Х	Х
NRT load Information	Х	Х
UTRAN GANSS Timing of Cell	X	
Frames for UE Positioning		

#### Table 6: Allowed Common measurement type on lur and lur-g interfaces

If the RNC<sub>2</sub> receives from the BSS<sub>1</sub> a COMMON MEASUREMENT INITIATION REQUEST message in which a measurement, which is not applicable on the Iur-g interface, is requested, the RNC<sub>2</sub> shall reject the Common Measurement Initiation procedure.

If the  $BSS_2$  receives from the  $BSS_1 / RNC_1$  a COMMON MEASUREMENT INITIATION REQUEST message in which a measurement, which is not applicable on the Iur-g interface, is requested, the  $BSS_2$  shall reject the Common Measurement Initiation procedure.

If the RNC<sub>2</sub> receives from the BSS<sub>1</sub> a COMMON MEASUREMENT INITIATION REQUEST message in which the *SFN reporting indicator* IE is set to "FN Reporting Required", the RNC<sub>2</sub> shall ignore that IE.

If the  $BSS_2$  receives from the  $BSS_1 / RNC_1$  a COMMON MEASUREMENT INITIATION REQUEST message in which the *SFN reporting indicator* IE is set to "FN Reporting Required", the  $BSS_2$  shall ignore that IE.

The allowed combinations of the Common measurement type and Report characteristics type are shown in the table in section 8.5.2.4 marked with "X". For not allowed combinations, the RNC<sub>2</sub>/BSS<sub>2</sub> shall reject the Common Measurement Initiation procedure.

# 8.5.3 Common Measurement Reporting

## 8.5.3.1 General

This procedure is used by an RNC to report the result of measurements requested by another RNC using the Common Measurement Initiation.

This procedure uses the signalling bearer connection for the relevant Distant RNC Context.

# 8.5.3.2 Successful Operation



Figure 30C: Common Measurement Reporting procedure, Successful Operation

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If the requested measurement reporting criteria are met, the  $RNC_2$  shall initiate the Common Measurement Reporting procedure. Unless specified below, the meaning of the parameters are given in other specifications.

The *Measurement ID* IE shall be set to the Measurement ID provided by  $RNC_1$  when initiating the measurement with the Common Measurement Initiation procedure.

If the achieved measurement accuracy does not fulfil the given accuracy requirement (see ref. TS 25.133 [23] and TS 25.123 [24]) or the measurement is temporarily not available in case Measurement Recovery Behavior is supported, the *Common Measurement Value Information* IE shall indicate Measurement not Available. If the RNC<sub>2</sub> was configured to perform the Measurement Recovery Behavior, the RNC<sub>2</sub> shall indicate Measurement Available to the RNC<sub>1</sub> when the achieved measurement accuracy again fulfils the given accuracy requirement (see ref. TS 25.133 [23] and TS 25.123 [24]) and include the *Measurement Recovery Report Indicator* IE in the COMMON MEASUREMENT REPORT message if the requested measurement reporting criteria are not met.

For measurements included in the Successful Neighbouring Cell SFN-SFN Observed Time Difference Measurement Information IE, the RNC<sub>2</sub> shall include the SFN-SFN Quality IE and the SFN-SFN Drift Rate Quality IE if available.

If the Common Measurement Type provided by RNC<sub>1</sub> when initiating the measurement with the Common Measurement Initiation procedure was "UTRAN GPS Timing of Cell Frames for UE Positioning", then the RNC<sub>2</sub> shall include in the  $T_{UTRAN-GPS}$  Measurement Value Information IE the  $T_{UTRAN-GPS}$  Quality IE and the  $T_{UTRAN-GPS}$  Drift Rate Quality IE, if available.

If the Common Measurement Type provided by RNC<sub>1</sub> when initiating the measurement with the Common Measurement Initiation procedure was "UTRAN GANSS Timing of Cell Frames for UE Positioning", then the RNC<sub>2</sub> shall include in the  $T_{UTRAN-GANSS}$  Measurement Value Information IE the  $T_{UTRAN-GANSS}$  Quality IE and the  $T_{UTRAN-GANSS}$  Drift Rate Quality IE, if available.

### 8.5.3.2.1 Successful Operation for lur-g

If the requested measurement reporting criteria are met, the  $RNC_2/BSS_2$  shall initiate a Measurement Reporting procedure. Unless specified below, the meaning of the parameters are given in other specifications.

The *Common Measurement ID* IE shall be set to the Common Measurement ID provided by RNC<sub>1</sub>/BSS<sub>1</sub> when initiating the measurement with the Common Measurement Initiation procedure.

If the Common measurement type provided by RNC<sub>1</sub> when initiating the measurement with the Common Measurement Initiation procedure was "SFN-SFN Observed Time Difference", then RNC<sub>2</sub> shall include in the COMMON MEASUREMENT REPORT all the available measurements in the *Successful Neighbouring cell SFN-SFN Observed Time Difference Measurement Information* IE and shall include the neighbouring cells with no measurement result available in the *Unsuccessful Neighbouring cell SFN-SFN Observed Time Difference Measurement Information* IE.

If the Common measurement type provided by RNC<sub>1</sub> when initiating the measurement with the Common Measurement Initiation procedure was not set to "SFN-SFN Observed Time Difference" and the SFN Reporting Indicator when initiating the measurement was set to "FN Reporting Required", the RNC<sub>2</sub> shall include the *SFN* IE in the COMMON MEASUREMENT REPORT message. The reported SFN shall be the SFN at the time when the measurement value was reported by the layer 3 filter, referred to as point C in the measurement model in TS 25.302 [26]. If the *Common Measurement Type* IE is set to "SFN-SFN Observed Time Difference", then the *SFN Reporting Indicator* IE is ignored.

## 8.5.3.3 Abnormal Conditions

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# 8.5.4 Common Measurement Termination

### 8.5.4.1 General

This procedure is used by an RNC to terminate a measurement previously requested by the Common Measurement Initiation procedure.

This procedure uses the signalling bearer connection for the relevant Distant RNC Context.

# 8.5.4.2 Successful Operation



### Figure 30D: Common Measurement Termination procedure, Successful Operation

This procedure is initiated with a COMMON MEASUREMENT TERMINATION REQUEST message.

Upon receipt, RNC<sub>2</sub> shall terminate reporting of common measurements corresponding to the received *Measurement ID* IE.

### 8.5.4.2.1 Successful Operation for lur-g

The  $RNC_1/BSS_1$  and  $RNC_2/BSS_2$  shall use the Common Measurement Termination procedure as specified in section 8.5.4.2.

# 8.5.4.3 Abnormal Conditions

# 8.5.5 Common Measurement Failure

### 8.5.5.1 General

This procedure is used by an RNC to notify another RNC that a measurement previously requested by the Common Measurement Initiation procedure can no longer be reported.

This procedure uses the signalling bearer connection for the relevant Distant RNC Context.

# 8.5.5.2 Successful Operation



#### Figure 30E: Common Measurement Failure procedure, Successful Operation

This procedure is initiated with a COMMON MEASUREMENT FAILURE INDICATION message, sent from RNC<sub>2</sub> to RNC<sub>1</sub> to inform the RNC<sub>1</sub> that a previously requested measurement can no longer be reported. RNC<sub>2</sub> has locally terminated the indicated measurement. The RNC<sub>2</sub> shall include in the COMMON MEASUREMENT FAILURE INDICATION message the reason for the failure in the *Cause* IE.

### 8.5.5.2.1 Successful Operation for lur-g

The RNC<sub>1</sub>/BSS<sub>1</sub> and RNC<sub>2</sub>/BSS<sub>2</sub> shall use the Common Measurement Failure procedure as specified in section 8.5.5.2.

# 8.5.5.3 Abnormal Conditions

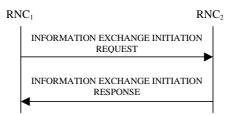
# 8.5.6 Information Exchange Initiation

### 8.5.6.1 General

This procedure is used by an RNC to request the initiation of an information exchange with another RNC.

This procedure uses the signalling bearer connection for the relevant Distant RNC Context.

# 8.5.6.2 Successful Operation



#### Figure 30F: Information Exchange Initiation procedure, Successful Operation

The procedure is initiated with an INFORMATION EXCHANGE INITIATION REQUEST message sent from RNC<sub>1</sub> to RNC<sub>2</sub>.

Upon receipt, the RNC<sub>2</sub> shall provide the requested information according to the parameters given in the request. Unless specified below, the meaning of the parameters are given in other specifications.

If the *Information Exchange Object Type* is set to "MBMS Bearer Service" and the *Information Type Item* IE is set to "MBMS Bearer Service Full Address", the RNC<sub>2</sub> shall report for each TMGI included in the received *MBMS Bearer Service Identifiers List* IE, the Access Point Name and the IP Multicast Address corresponding to this TMGI in the *MBMS Bearer Service Identifiers List* IE in the INFORMATION EXCHANGE INITIATION RESPONSE message.

[FDD – If the *Information Exchange Object Type* is set to "MBMS Bearer Service in MBMS Cell" and the *Information Type Item* IE is set to "MBMS Counting Information", the RNC<sub>2</sub> shall perform counting in cells as defined in TS 25.346 [50] and report in the *Counting Result* IE for each TMGI included in the received *MBMS Bearer Service Identifiers List* IE for each cell included in the received *MBMS Cell List* IE either the counting information or, if relevant counting information is not available in RNC<sub>2</sub> TS 25.346 [50], the value "0" in the INFORMATION EXCHANGE INITIATION RESPONSE message.]

[FDD – If the *Information Exchange Object Type* is set to "MBMS Bearer Service in MBMS Cell" and the *Information Type Item* IE is set to "MBMS Transmission Mode", the RNC<sub>2</sub> shall report for each TMGI included in the received *MBMS Bearer Service Identifiers List* IE for each cell included in the received *MBMS Cell List* IE, the transmission mode for each TMGI in the cells of RNC<sub>2</sub> that have a neighbour relation to the cells received in *MBMS Cell List* IE as defined in TS 25.346 [50] in the INFORMATION EXCHANGE INITIATION RESPONSE message. If no cells of RNC<sub>2</sub> have a neighbour relation to a cell received in *MBMS Cell List* IE for a TMGI the value "Not Provided" shall be used]

[FDD – If the *Information Exchange Object Type* is set to "MBMS Cell" and the *Information Type Item* IE is set to "MBMS Neighbouring Cell Information", the RNC<sub>2</sub> shall report for each cell included in the received *MBMS Cell List* IE, the MBMS radio bearer information for each cells in the INFORMATION EXCHANGE INITIATION RESPONSE message.]

[FDD – If the *Information Exchange Object Type* is set to "MBMS Bearer Service in MBMS Cell" and the *Information Type Item* IE is set to "MBMS RLC Sequence Number", the RNC<sub>2</sub> shall report for each TMGI included in the received *MBMS Bearer Service Identifiers List* IE for each cell included in the received *MBMS Cell List* IE, the RLC sequence number for each TMGI for the indicated cells in the INFORMATION EXCHANGE INITIATION RESPONSE message.]

If the Information Type IE contains a GANSS Generic Data IE, at least one of the GANSS Navigation Model And Time Recovery, GANSS Time Model GNSS-GNSS, GANSS UTC Model, GANSS Almanac, GANSS Real Time Integrity,

GANSS Data Bit Assistance, GANSS Additional Navigation Models And Time Recovery, GANSS Additional UTC Models, GANSS Auxiliary Information IEs shall be present in the GANSS Generic Data IE.

- If the *GANSS Generic Data* IE does not contain the *GANSS ID* IE, the RNC<sub>2</sub> shall assume that the corresponding GANSS is "Galileo".

#### **Information Report Characteristics:**

The Information Report Characteristics IE indicates how the reporting of the information shall be performed.

If the *Information Report Characteristics* IE is set to "On Demand", the RNC<sub>2</sub> shall report the requested information immediately.

If the *Information Report Characteristics* IE is set to "Periodic", the RNC<sub>2</sub> shall report the requested information immediately and then shall periodically initiate the Information Reporting procedure for all the requested information, with the report frequency indicated by the *Information Report Periodicity* IE.

If the *Information Report Characteristics* IE is set to "On Modification", the RNC<sub>2</sub> shall report the requested information immediately if available. If the requested information is not available at the moment of receiving the INFORMATION EXCHANGE INITIATION REQUEST message, but expected to become available after some acquisition time, the RNC<sub>2</sub> shall initiate the Information Reporting procedure when the requested information becomes available. The RNC<sub>2</sub> shall then initiate the Information Reporting procedure in accordance to the following conditions:

- If the *Information Type Item* IE is set to "IPDL Parameters", the RNC<sub>2</sub> shall initiate the Information Reporting procedure when any change in the parameters occurs.
- If the *Information Type Item* IE is set to "DGPS Corrections", the RNC<sub>2</sub> shall initiate the Information Reporting procedure for this specific Information Type when either the PRC has drifted from the previously reported value more than the threshold indicated in the *PRC Deviation* IE in the *Information Threshold* IE or a change has occurred in the IODE.
- If the *Information Type Item* IE is set to "GPS Information" and the *GPS Information Item* IE includes "GPS Navigation Model & Recovery Assistance", the RNC<sub>2</sub> shall initiate the Information Reporting procedure for this specific GPS Information Item when a change has occurred regarding either the IODC or the list of visible satellites, identified by the *Sat ID* IEs.
- If the *Information Type Item* IE is set to "GPS Information" and the *GPS Information Item* IE includes "GPS Ionospheric Model", the RNC<sub>2</sub> shall initiate the Information Reporting procedure for this specific GPS Information Item when any change has occurred.
- If the Information Type Item IE is set to "GPS Information" and the GPS Information Item IE includes "GPS UTC Model", the RNC<sub>2</sub> shall initiate the Information Reporting procedure for this specific GPS Information Item when a change has occurred in the t<sub>ot</sub> or WN<sub>t</sub> parameter.
- If the *Information Type Item* IE is set to "GPS Information" and the *GPS Information Item* IE includes "GPS Almanac", the RNC<sub>2</sub> shall initiate the Information Reporting procedure for this specific GPS Information Item when a change in the t<sub>oa</sub> or WN<sub>a</sub> parameter has occurred.
- If the *Information Type Item* IE is set to "GPS Information" and the *GPS Information Item* IE includes "GPS Real-Time Integrity", the RNC<sub>2</sub> shall initiate the Information Reporting procedure for this specific GPS Information Item when any change has occurred.
- If the *Information Type* IE is set to "Cell Capacity Class", the RNC<sub>2</sub> shall initiate the Information Reporting procedure for uplink and downlink cell capacity class when any change has occurred. If either uplink or downlink cell capacity class satisfies the requested report characteristics, the RNC<sub>2</sub> shall report the result of both uplink and downlink cell capacity information.
- If any of the above *Information Type* IEs becomes temporarily unavailable, the RNC<sub>2</sub> shall initiate the Information Reporting procedure for this specific Information Item by indicating "Information Not Available" in the *Requested Data Value Information* IE. If the Information becomes available again, the RNC<sub>2</sub> shall initiate the Information Reporting procedure for this specific Information.
- If the *Information Type* IE is set to "NACC related data", the RNC<sub>2</sub> shall initiate the Information Reporting procedure for NACC related data if any change has occurred.

- If the *Information Type* IE is set to "Inter-frequency Cell Information", the RNC<sub>2</sub> shall initiate the Information Reporting procedure for this specific Information Item when any change has occurred to the inter-frequency cell information broadcasted in the SIB11 or SIB12.
- If the *Information Type Item* IE is set to "DGANSS Corrections", the RNC<sub>2</sub> shall initiate the Information Reporting procedure for this specific Information Type when either the PRC has drifted from the previously reported value more than the threshold indicated in the *PRC Deviation* IE in the *Information Threshold* IE or a change has occurred in the IODE.
- If the *Information Type Item* IE is set to "GANSS Information" and the *GANSS Information* IE includes the *GANSS Navigation Model And Time Recovery* IE, the RNC<sub>2</sub> shall initiate the Information Reporting procedure for this specific GANSS Information Item when a change has occurred regarding either the IOD or the list of visible satellites, identified by the *Sat ID* IEs.
- If the *Information Type Item* IE is set to "GANSS Information" and the *GANSS Information* IE includes the *GANSS Ionospheric Model* IE, the RNC<sub>2</sub> shall initiate the Information Reporting procedure for this specific GANSS Information Item when any change has occurred.
- If the *Information Type Item* IE is set to "GANSS Information" and the *GANSS Information* IE includes the *GANSS UTC Model* IE, the RNC<sub>2</sub> shall initiate the Information Reporting procedure for this specific GANSS Information Item when a change has occurred in the t<sub>ot</sub> or WN<sub>t</sub> parameter.
- If the *Information Type Item* IE is set to "GANSS Information" and the *GANSS Information* IE includes the *GANSS Almanac* IE, the RNC<sub>2</sub> shall initiate the Information Reporting procedure for this specific GANSS Information Item when a change in the T<sub>oa</sub>, IOD<sub>a</sub>, or Week Number parameter has occurred.
- If the *Information Type Item* IE is set to "GANSS Information" and the *GANSS Information* IE includes the *GANSS Real Time Integrity* IE, the RNC<sub>2</sub> shall initiate the Information Reporting procedure for this specific GANSS Information Item when any change has occurred.
- If the *Information Type Item* IE is set to "GANSS Information" and the *GANSS Information* IE includes the *GANSS Data Bit Assistance* IE, the RNC<sub>2</sub> shall initiate the Information Reporting procedure for this specific GANSS Information Item when any change has occurred.
- If the *Information Type Item* IE is set to "MBMS Transmission Mode", the RNC<sub>2</sub> shall initiate the Information Reporting procedure when any change in the parameter occurs.
- If the *Information Type Item* IE is set to "MBMS Neighbouring Cell Information", the RNC<sub>2</sub> shall initiate the Information Reporting procedure when any change in the parameters occurs.
- If the *Information Type Item* IE is set to "GANSS Information" and the *GANSS Information* IE includes the *GANSS Additional Navigation Models And Time Recovery* IE, the RNC<sub>2</sub> shall initiate the Information Reporting procedure for this specific GANSS Information item when a change has occurred regarding either the IOD or the list of visible satellites, identified by the *Sat ID* IEs.
- If the *Information Type Item* IE is set to "GANSS Information" and the *GANSS Information* IE includes the *GANSS Additional Ionospheric Model* IE, the RNC<sub>2</sub> shall initiate the Information Reporting procedure for this specific GANSS Information item when any change has occurred.
- If the *Information Type Item* IE is set to "GANSS Information" and the *GANSS Information* IE includes the *GANSS Additional UTC Models* IE, the RNC<sub>2</sub> shall initiate the Information Reporting procedure for this specific GANSS Information item when a change has occurred in the t<sub>ot</sub>, WN<sub>ot</sub>, WN<sub>t</sub>, or N<sup>A</sup> parameter.
- If the *Information Type Item* IE is set to "GANSS Information" and the *GANSS Information* IE includes the *GANSS Earth Orientation Parameters* IE, the RNC<sub>2</sub> shall initiate the Information Reporting procedure for this specific GANSS Information item when a change has occurred in the t<sub>EOP</sub> parameter.
- If the *Information Type Item* IE is set to "GANSS Information" and the *GANSS Information* IE includes the *GANSS Auxiliary Information* IE, the RNC<sub>2</sub> shall initiate the Information Reporting procedure for this specific GANSS Information item when a change has occurred in the *Signals Available* or *Channel Number* IE parameter.

#### **Response message:**

If the RNC<sub>2</sub> is able to determine the information requested by the RNC<sub>1</sub>, it shall respond with the INFORMATION EXCHANGE INITIATION RESPONSE message. The message shall include the *Information Exchange ID* IE set to the same value that was included in the INFORMATION EXCHANGE INITIATION REQUEST message. When the *Report Characteristics* IE is set to or "On Modification" or "Periodic", the INFORMATION EXCHANGE INITIATION RECHANGE INITIATION RESPONSE message shall contain the *Requested Data Value* IE if the data are available. When the *Report Characteristics* IE is set to "On Demand", the INFORMATION EXCHANGE INITIATION RESPONSE message shall contain the *Requested Data Value* IE.

If the *Requested DataValue* IE contains the *GANSS Common Data* IE, at least one of the *GANSS Ionospheric Model*, *GANSS RX Pos, GANSS Additional Ionospheric Model*, or *GANSS Earth Orientation Parameters* IEs shall be present.

Any GANSS Generic Data IE associated with a given GANSS included in the Requested DataValue IE shall contain at least one of the DGANSS Corrections, GANSS Navigation Model And Time Recovery, GANSS Time Model, GANSS UTC Model, GANSS Almanac, GANSS Real Time Integrity, GANSS Data Bit Assistance, GANSS Additional Time Models, GANSS Additional Navigation Models And Time Recovery, GANSS Additional UTC Models, or GANSS Auxiliary Information IEs.

- If the GANSS Generic Data IE does not contain the GANSS ID IE, the corresponding GANSS is "Galileo".
- The *DGANSS Corrections* IE contains one or several *DGANSS Information* IE(s), each of them associated with a GANSS Signal. A *DGANSS Information* IE for a particular GANSS that does not contain the *GANSS Signal ID* IE is by default associated with the default signal defined in TS 25.331 [16], clause 10.3.3.45a.
- The GANSS Real Time Integrity IE contains one or several Satellite Information IEs, each of them associated with a satellite and a GANSS Signal. A Satellite Information IE for a particular GANSS that does not contain the Bad GANSS Signal ID IE is by default associated with all the signals of the corresponding satellite (see OS SIS ICD [53], IS-GPS-200 [55], 56, 57, 58, 59, 60]).

If the *Information Type Item* IE is set to "GANSS Information" and the *GANSS Information* IE includes the *GANSS Time Model GNSS-GNSS* IE with exactly one bit set to value "1", the RNC<sub>2</sub> shall include the *GANSS Time Model* IE in the *Requested Data Value* IE with the requested time information.

If the *Information Type Item* IE is set to "GANSS Information" and the *GANSS Information* IE includes the *GANSS Time Model GNSS-GNSS* IE with more than one bit set to value "1", the RNC<sub>2</sub> shall include the *GANSS Additional Time Models* IE in *Requested Data Value* IE with the requested time information for each GANSS.

If the *Information Type Item* IE is set to "DGPS Corrections", the RNC<sub>2</sub> shall include the *DGPS Corrections* IE in *Requested Data Value* IE with the *DGNSS Validity Period* IE included, if available.

If the *Information Type Item* IE is set to "DGANSS Corrections", the Node B shall include the *DGANSS Corrections* IE in *Requested Data Value* IE with the *DGNSS Validity Period* IE included, if available.

## 8.5.6.2.1 Successful Operation for lur-g

The procedure is initiated with an INFORMATION EXCHANGE INITIATION REQUEST message sent from BSS<sub>1</sub> to BSS<sub>2</sub>/RNC<sub>2</sub> or by RNC<sub>1</sub> to BSS<sub>2</sub>.

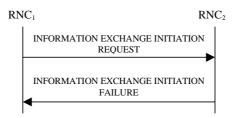
Upon receipt, the  $BSS_2/RNC_2$  shall provide the requested information according to the parameters given in the request. Unless specified below, the meaning of the parameters are given in other specifications.

#### Information Report Characteristics on Iur-g:

If the *Information Type Item* IE is set to "Cell Capacity Class", the RNC<sub>2</sub>/BSS<sub>2</sub> shall initiate measurements and report results as described in section 8.5.6.2.

The *Information Report Characteristics* IE indicates how the reporting of the information shall be performed. This IE is used as described in section 8.5.6.2.

# 8.5.6.3 Unsuccessful Operation



#### Figure 30G: Information Exchange Initiation procedure, Unsuccessful Operation

If the requested Information Type received in the *Information Type* IE indicates a type of information that RNC<sub>2</sub> cannot provide, the RNC<sub>2</sub> shall reject the Information Exchange Initiation procedure.

If the requested information provision cannot be accessed, the RNC<sub>2</sub> shall reject the procedure and shall send the INFORMATION EXCHANGE INITIATION FAILURE message.

The message shall include the *Information Exchange ID* IE set to the same value that was used in the INFORMATION EXCHANGE INITIATION REQUEST message and the *Cause* IE set to an appropriate value.

Typical cause values are as follows:

#### **Radio Network Layer Cause:**

- Information temporarily not available.
- Information Provision not supported for the object.

### 8.5.6.4 Abnormal Conditions

If the *Information Report Characteristics* IE is set to "On Modification", and the *Information Type Item* IE is set to "DGPS Corrections", but the *Information Threshold* IE is not received in the INFORMATION EXCHANGE INITIATION REQUEST message, the RNC<sub>2</sub> shall reject the Information Exchange Initiation procedure and shall send the INFORMATION EXCHANGE INITIATION FAILURE message.

If the *Information Exchange Object Type* IE is set to a value other than "GSM Cell" and the *Information Type Item* IE set to "NACC related data" the RNC<sub>2</sub> shall reject the Information Exchange Initiation procedure and shall send the INFORMATION EXCHANGE INITIATION FAILURE message.

If the *Information Type Item* IE is set to the value "MBMS Bearer Service Full Address" and the *Information Exchange Object Type* IE is not set to "MBMS Bearer Service", the RNC<sub>2</sub> shall reject the Information Exchange Initiation procedure and shall send the INFORMATION EXCHANGE INITIATION FAILURE message.

The allowed combinations of the Information type and Information Report Characteristics type are shown in the table below marked with "X". For not allowed combinations, the  $RNC_2$  shall reject the Information Exchange Initiation procedure using the INFORMATION EXCHANGE INITIATION FAILURE message.

#### Table 6a: Allowed Information Type and Information Report Characteristics type combinations

Туре	Information	Information Report Characteristics Type		
	On Demand	Periodic	On Modification	
UTRAN Access Point Position with	Х			
Altitude Information				
UTRAN Access Point Position	Х			
IPDL Parameters	Х	Х	Х	
GPS Information	Х	Х	Х	
DGPS Corrections	Х	Х	Х	
GPS RX Pos	Х			
SFN-SFN Measurement Reference Point	Х			
Position				
Cell Capacity Class	Х		Х	
NACC related data	Х		Х	
MBMS Bearer Service Full Address	Х			
Inter-frequency Cell Information	Х		Х	
GANSS Information	Х	Х	Х	
DGANSS Corrections	Х	Х	Х	
GANSS RX Pos	Х			
MBMS Counting Information [FDD only]	Х			
MBMS Transmission Mode [FDD only]			Х	
MBMS Neighbouring Cell Information	Х		Х	
[FDD only]				
MBMS RLC Sequence Number	Х			
[FDD only]				

# 8.5.6.4.1 Abnormal Conditions for lur-g

The information types that can be requested on the Iur and Iur-g interfaces are shown in the table below marked with "X". For information types that are not applicable on the Iur-g interface, the BSS shall reject the Information Exchange Initiation procedure.

Information Type	Interface		
	lur	lur-g	
UTRAN Access Point Position with Altitude Information	Х		
UTRAN Access Point Position	Х		
IPDL Parameters	Х		
DGPS Corrections	Х		
GPS Information	Х		
GPS RX Pos	Х		
SFN-SFN Measurement Reference Point Position	Х		
Cell Capacity Class	Х	Х	
NACC related data	Х		
MBMS Bearer Service Full Address	Х		
Inter-frequency Cell Information	Х		
DGANSS Corrections	Х		
GANSS Information	Х		
GANSS RX Pos	Х		
MBMS Counting Information [FDD only]	Х		
MBMS Transmission Mode [FDD only]	Х		
MBMS Neighbouring Cell Information [FDD only]	Х		
MBMS RLC Sequence Number [FDD only]	Х		

# 8.5.7 Information Reporting

## 8.5.7.1 General

This procedure is used by a RNC to report the result of information requested by another RNC using the Information Exchange Initiation.

This procedure uses the signalling bearer connection for the relevant Distant RNC Context.

# 8.5.7.2 Successful Operation



### Figure 30H: Information Reporting procedure, Successful Operation

If the requested information reporting criteria are met, the  $RNC_2$  shall initiate an Information Reporting procedure. Unless specified below, the meaning of the parameters are given in other specifications.

The *Information Exchange ID* IE shall be set to the Information Exchange ID provided by the  $RNC_1$  when initiating the information exchange with the Information Exchange Initiation procedure.

The Requested Data Value IE shall include at least one IE containing the data to be reported.

### 8.5.7.2.1 Successful Operation for lur-g

The  $RNC_1/BSS_1$  and  $RNC_2/BSS_2$  shall use the Information Reporting procedure as specified in section 8.5.7.2.

### 8.5.7.3 Abnormal Conditions

# 8.5.8 Information Exchange Termination

# 8.5.8.1 General

This procedure is used by a RNC to terminate the information exchange requested using the Information Exchange Initiation.

This procedure uses the signalling bearer connection for the relevant Distant RNC Context.

## 8.5.8.2 Successful Operation



#### Figure 30I: Information Exchange Termination procedure, Successful Operation

This procedure is initiated with a INFORMATION EXCHANGE TERMINATION REQUEST message.

Upon receipt, the  $RNC_2$  shall terminate the information exchange corresponding to the *Information Exchange ID* IE provided by the  $RNC_1$  when initiating the information exchange with the Information Exchange Initiation procedure.

### 8.5.8.2.1 Successful Operation for lur-g

The  $RNC_1/BSS_1$  and  $RNC_2/BSS_2$  shall use the Information Exchange Termination procedure as specified in section 8.5.8.2.

### 8.5.8.3 Abnormal Conditions

## 8.5.9 Information Exchange Failure

### 8.5.9.1 General

This procedure is used by a RNC to notify another that the information exchange it previously requested using the Information Exchange Initiation can no longer be reported.

This procedure uses the signalling bearer connection for the relevant Distant RNC Context.

### 8.5.9.2 Successful Operation



### Figure 30J: Information Exchange Failure procedure, Successful Operation

This procedure is initiated with a INFORMATION EXCHANGE FAILURE INDICATION message, sent from the RNC<sub>2</sub> to the RNC<sub>1</sub>, to inform the RNC<sub>1</sub> that information previously requested by the Information Exchange Initiation procedure can no longer be reported. The RNC<sub>2</sub> shall include in the INFORMATION EXCHANGE FAILURE INDICATION message the *Information Exchange ID* IE set to the same value provided by the RNC<sub>1</sub> when initiating the information exchange with the Information Exchange Initiation procedure, and the RNC<sub>2</sub> shall include the *Cause* IE set to an appropriate value.

Typical cause values are as follows:

#### **Radio Network Layer Cause:**

Information temporarily not available.

### 8.5.9.2.1 Successful Operation for lur-g

The RNC<sub>1</sub>/BSS<sub>1</sub> and RNC<sub>2</sub>/BSS<sub>2</sub> shall use the Information Exchange Failure procedure as specified in section 8.5.9.2.

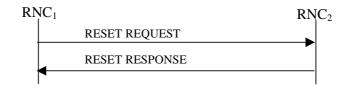
## 8.5.10 Reset

### 8.5.10.1 General

The purpose of the reset procedure is to align the resources in  $RNC_1$  and  $RNC_2$  in the event of an abnormal failure.

The procedure uses connectionless signalling.

### 8.5.10.2 Successful Operation



### Figure 30K: Reset procedure, Successful Operation

The procedure is initiated with a RESET REQUEST message sent from the RNC<sub>1</sub> to the RNC<sub>2</sub>.

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If the *Reset Indicator* IE is set to "Context", then:

- For all indicated UE Contexts identified by the *S-RNTI* IE, the RNC<sub>1</sub> in the role of DRNC, shall remove all the indicated UE Contexts and all the radio resources allocated for these UE Contexts. In addition, the RNC<sub>2</sub> shall take actions according to Annex D.2.
- For all indicated UE Contexts identified by the *D-RNTI* IE, the RNC2 in the role of SRNC, shall remove the information related to the RNC1 for all indicated UE Contexts and the radio resources allocated for these UE Contexts.

If the Reset Indicator IE is set to "Context Group", then:

- For all indicated UE Context Groups identified by the *S-RNTI Group* IE, the RNC<sub>2</sub> in the role of DRNC, shall remove all the indicated UE Contexts and all the radio resources allocated for these UE Contexts. In addition, the RNC2 shall take actions according to Annex D.2.

If the *Reset Indicator* IE is set to "All Contexts", then the RNC<sub>2</sub> shall:

- In the role of DRNC, remove all the UE Contexts for which the RNC<sub>1</sub> is the SRNC and all the radio resources allocated for these UE Contexts. In addition, the RNC<sub>2</sub> shall take actions according to Annex D.2.
- In the role of SRNC, remove the information related to the RNC<sub>1</sub> for all the UE Contexts and all the radio resources allocated for these UE Contexts.

For all the removed UE Contexts and for all the UE Contexts for which the  $RNC_2$  has removed information related to the  $RNC_1$ , the  $RNC_2$  shall also initiate release of the dedicated or common user plane resources that were involved in these UE Contexts. After clearing all related resources, the  $RNC_2$  shall return the RESET RESPONSE message to the  $RNC_1$ .

### 8.5.10.3 Abnormal Conditions

If the RESET message is received, any other ongoing procedure (except another Reset procedure) on same Iur interface related to a context indicated explicitly or implicitly in the message shall be aborted.

## 8.5.11 Direct Information Transfer

### 8.5.11.1 General

This procedure is used by an RNC to transfer information to another RNC spontaneously.

This procedure shall use the connectionless mode of signalling bearer.

### 8.5.11.2 Successful Operation



### Figure 30L: Direct Information Transfer procedure, Successful Operation

The procedure is initiated with an DIRECT INFORMATION TRANSFER message sent from RNC1 to RNC2.

If the initiating RNC of this procedure is RNC<sub>1</sub>, RNC<sub>1</sub> shall provide appropriate information in the *Provided Information* IE.

#### **MBMS Channel Type Indication:**

At the start time of a session for an MBMS bearer service, if the RNC<sub>1</sub> is in the DRNC role for some Ues whose UE Link contains the concerned MBMS bearer service and whose SRNC is  $RNC_2$  and if the channel type is determined by the RNC<sub>1</sub> for certain cells in the DRNS, the procedure shall be initiated by the RNC<sub>1</sub> to the RNC<sub>2</sub>. In this case, the RNC<sub>1</sub> shall include in the *Provided Information* IE the *Channel Type Information* IE in the DIRECT INFORMATION TRANSFER message.

During a session of an MBMS bearer service, if the RNC<sub>1</sub> is in the DRNC role for some Ues whose UE Link contains the concerned MBMS bearer service and whose SRNC is  $RNC_2$ , then the  $RNC_1$  may initiate this procedure to indicate channel type change for the MBMS bearer service in certain cells. In this case, the RNC<sub>1</sub> shall include in the *Provided Information* IE the *Channel Type Information* IE in the DIRECT INFORMATION TRANSFER message.

The RNC<sub>1</sub> shall include the available information within the *PTM Cell List* IE, the *PTP Cell List* IE and/or the *Not Provided Cell List* IE in the *Channel Type Information* IE.

#### **MBMS Preferred Frequency Layer Indication:**

At the start time of a session for an MBMS bearer service, if the RNC<sub>1</sub> is in the DRNC role for at least one CELL\_DCH UE whose UE Link contains the concerned MBMS bearer service and whose SRNC is RNC<sub>2</sub> and if the preferred frequency layer is determined by the RNC<sub>1</sub> for certain cells that host at least one of these CELL\_DCH Ues whose SRNC is RNC<sub>2</sub>, the procedure shall be initiated by the RNC<sub>1</sub> to the RNC<sub>2</sub>. In this case, the RNC<sub>1</sub> shall include in the *Provided Information* IE the *Preferred Frequency Layer Information* IE in the DIRECT INFORMATION TRANSFER message.

If some of the cells controlled by RNC<sub>1</sub> that host at least one of these CELL\_DCH Ues whose SRNC is RNC<sub>2</sub> are configured with different preferred frequencies, the *Additional Preferred Frequency* IE as well as *Default Preferred Frequency* IE shall be included in the *Preferred Frequency Layer Information* IE. In this case, for each preferred frequency different from the *Default Preferred Frequency* IE, one *Additional Preferred Frequency* IE shall be included containing at least one *Corresponding Cells* IE.

## 8.6 MBMS Procedures

### 8.6.1 MBMS Attach

### 8.6.1.1 General

The MBMS Attach procedure is used by the SRNC to either create a UE Link/URA Link in the DRNC or inform the DRNC about any addition of one or several MBMS bearer services in an already stored UE Link or URA Link.

This procedure shall use the signalling bearer mode specified below.

### 8.6.1.2 Successful Operation

SR	NC	DRNC
	MBMS ATTACH COMMAND	

Figure 31: MBMS Attach procedure, Successful Operation

The SRNC initiates the procedure by sending the message MBMS ATTACH COMMAND message to the DRNC.

When the UE is utilising one or more radio links in the DRNC, the message shall be sent using the connection oriented service of the signalling bearer and no further identification of the UE Context in the DRNC is required. If the UE is not utilising any radio link, the message shall be sent using the connectionless service of the signalling bearer.

If no *UE State* IE is included in the message or the *UE State* IE is set to "CELL\_FACH/CELL\_PCH", the DRNC shall perform the UE Linking as specified in TS 25.346 [50], section 5.1.6.

If the *UE State* IE is set to "URA\_PCH", the DRNC shall perform the URA Linking as specified in TS 25.346 [50], section 5.1.10.

## 8.6.1.3 Abnormal Conditions

## 8.6.2 MBMS Detach

### 8.6.2.1 General

The MBMS Detach procedure is used by the SRNC to either delete a UE Link/URA Link in the DRNC or to inform DRNC about any removal of one or several MBMS bearer services in an already stored UE link or URA Link.

This procedure shall use the signalling bearer mode specified below.

## 8.6.2.2 Successful Operation



Figure 32: MBMS Detach procedure, Successful Operation

The SRNC initiates the procedure by sending the message MBMS DETACH COMMAND message to the DRNC.

When the UE is utilising one or more radio links in the DRNC, the message shall be sent using the connection oriented service of the signalling bearer and no further identification of the UE Context in the DRNC is required. If the UE is not utilising any radio link, the message shall be sent using the connectionless service of the signalling bearer.

If no *UE State* IE is included in the message or the *UE State* IE is set to "CELL\_FACH/CELL\_PCH", the DRNC shall perform the UE De-linking as specified in TS 25.346 [50], section 5.1.6.

If the *UE State* IE is set to "URA\_PCH", the DRNC shall perform the URA De-linking as specified in TS 25.346 [50], section 5.1.10.

### 8.6.2.3 Abnormal Conditions

9 Elements for RNSAP Communication

## 9.1 Message Functional Definition and Content

## 9.1.1 General

This subclause defines the structure of the messages required for the RNSAP protocol in tabular format. The corresponding ASN.1 definition is presented in subclause 9.3. In case there is contradiction between the tabular format

in subclause 9.1 and the ASN.1 definition, the ASN.1 shall take precedence, except for the definition of conditions for the presence of conditional IEs, in which the tabular format shall take precedence.

NOTE: The messages have been defined in accordance to the guidelines specified in TR 25.921 [28].

## 9.1.2 Message Contents

### 9.1.2.1 Presence

An information element can be of the following types:

М	IEs marked as Mandatory (M) shall always be included in the message.
0	IEs marked as Optional (O) may or may not be included in the message.
С	IEs marked as Conditional I shall be included in a message only if the condition is satisfied. Otherwise the IE
	shall not be included.

In the case of an Information Element group, the group is preceded by a name for the info group (in bold). It is also indicated how many times a group may be repeated in the message and whether the group is conditional. Each group may be also repeated within one message. The presence field of the Information Elements inside one group defines if the Information Element is mandatory, optional or conditional if the group is present.

## 9.1.2.2 Criticality

Each information element or Group of information elements may have criticality information applied to it. Following cases are possible:

-	No criticality information is applied explicitly.
YES	Criticality information is applied. 'YES' is usable only for non-repeatable information elements.
GLOBAL	The information element and all its repetitions together have one common criticality information.
	'GLOBAL' is usable only for repeatable information elements.
EACH	Each repetition of the information element has its own criticality information. It is not allowed to assign
	different criticality values to the repetitions. 'EACH' is usable only for repeatable information elements.

## 9.1.2.3 Range

The Range column indicates the allowed number of copies of repetitive IEs/IE groups.

### 9.1.2.4 Assigned Criticality

This column provides the actual criticality information as defined in subclause 10.3.2, if applicable.

# 9.1.3 RADIO LINK SETUP REQUEST

## 9.1.3.1 FDD Message

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Message Type	М		9.2.1.40		YES	reject
Transaction ID	Μ		9.2.1.59		_	
SRNC-ID	М		RNC-ID 9.2.1.50	If the Extended SRNC-ID IE is included in the message, the SRNC-ID IE shall be ignored.	YES	reject
S-RNTI	М		9.2.1.53		YES	reject
D-RNTI	0		9.2.1.24		YES	reject
Allowed Queuing Time	0		9.2.1.2		YES	reject
UL DPCH Information	-	1			YES	reject
>UL Scrambling Code	М		9.2.2.53		_	
>Min UL Channelisation	M		9.2.2.25		_	
Code Length						
>Max Number of UL DPDCHs	C – CodeLen		9.2.2.24		_	
>Puncture Limit	Μ		9.2.1.46	For the UL.	_	
>TFCS	М		9.2.1.63		_	
>UL DPCCH Slot Format	М		9.2.2.52		_	
>Uplink SIR Target	0		Uplink SIR		_	
	-		9.2.1.69			
>Diversity mode	М		9.2.2.8		_	
>Not Used	0		NULL		_	
>Not Used	0		NULL		_	
>DPC Mode	0		9.2.2.12A		YES	reject
>UL DPDCH Indicator for E- DCH operation	0		9.2.2.52A	This IE may be present without the presence of the <i>E-DPCH</i> Information IE	YES	reject
DL DPCH Information		01			YES	reject
>TFCS	Μ				-	
			9.2.1.63			
>DL DPCH Slot Format	Μ		9.2.2.9		_	
>Number of DL	М		9.2.2.26A		-	
Channelisation Codes						
>TFCI Signalling Mode	M		9.2.2.46		_	
>TFCI Presence	C- SlotFormat		9.2.1.55		-	
>Multiplexing Position	M		9.2.2.26		_	
>Power Offset Information		1			_	
>>P01	M		Power Offset 9.2.2.30	Power offset for the TFCI bits.	_	
>>PO2	M		Power Offset 9.2.2.30	Power offset for the TPC bits.	-	
>>PO3	M		Power Offset 9.2.2.30	Power offset for the pilot bits.	-	
>FDD TPC Downlink Step Size	Μ		9.2.2.16		—	

IE/Group Name	Presence	Range	IE Type and	Semantics Description	Criticality	Assigned Criticality
			Reference	Description		Criticality
>Limited Power Increase	М		9.2.2.21A		_	
>Inner Loop DL PC Status	M		9.2.2.21a		_	
DCH Information	M		DCH FDD		YES	reject
			Information		_	-,
			9.2.2.4A			
RL Information		1 <maxno< td=""><td></td><td></td><td>EACH</td><td>notify</td></maxno<>			EACH	notify
		ofRLs>				
>RL ID	М		9.2.1.49		_	
>C-ID	М		9.2.1.6		-	
>First RLS Indicator	М		9.2.2.16A		-	
>Frame Offset	М		9.2.1.30		—	
>Chip Offset	M		9.2.2.1		-	
>Propagation Delay	0		9.2.2.33		-	
>Diversity Control Field	C -		9.2.1.20		-	
	NotFirstRL					
>Initial DL TX Power	0		DL Power		-	
			9.2.1.21A			
>Primary CPICH Ec/No	0		9.2.2.32		_	
>Not Used >Transmit Diversity Indicator	0 C –	+	NULL 9.2.2.48		_	
> mansmit Diversity indicator	Diversity		9.2.2.48		_	
	mode	1				
>Enhanced Primary CPICH	O		9.2.2.131		YES	ignore
Ec/No	Ŭ		5.2.2.101		120	ignore
>RL Specific DCH	0		9.2.1.49A		YES	ignore
Information	Ŭ		0.2.1.40/(		120	ignore
>Delayed Activation	0		9.2.1.19Aa		YES	reject
>Cell Portion ID	0		9.2.2.E		YES	ignore
>RL specific E-DCH	0		9.2.2.35a		YES	reject
Information	-					
>E-DCH RL Indication	0		9.2.2.4E		YES	reject
>Extended Propagation	0		9.2.2.33a		YES	ignore
Delay						U U
>Synchronisation Indicator	0		9.2.2.45A		YES	reject
>HS-DSCH Preconfiguration	0		9.2.2.100		YES	ignore
Setup						
>Non-Serving RL	0		9.2.2.124		YES	ignore
Preconfiguration Setup						
Transmission Gap Pattern	0		9.2.2.47A		YES	reject
Sequence Information						
Active Pattern Sequence	0		9.2.2.A		YES	reject
Information			0.0.4.70		X/50	
Permanent NAS UE Identity	0		9.2.1.73		YES	ignore
DL Power Balancing	0	1	9.2.2.10A		YES	ignore
Information HS-DSCH Information	0	+	HS-DSCH		YES	roicet
กอ-บอบท เทเงกาลแอก		1	FDD		TES	reject
			Information			
			9.2.2.19a			
HS-PDSCH RL ID	C –	+	RL ID		YES	reject
	InfoHSDS	1	9.2.1.49			10,000
	CH		0.2.1110			
MBMS Bearer Service List	-	0 <maxno< td=""><td></td><td></td><td>GLOBAL</td><td>notify</td></maxno<>			GLOBAL	notify
	1	ofMBMS>				J
>TMGI	М	1	9.2.1.80		-	
E-DPCH Information		01			YES	reject
>Maximum Set of E-	М		9.2.2.24e		_	
DPDCHs						
>Puncture Limit	М		9.2.1.46		-	
>E-TFCS Information	М		9.2.2.4G		-	
>E-TTI	М		9.2.2.4J		-	
>E-DPCCH Power Offset	М		9.2.2.4K		—	
>E-RGCH 2-Index-Step	М		9.2.2.64		-	
Threshold						

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
>E-RGCH 3-Index-Step Threshold	М		9.2.2.65		_	
>HARQ Info for E-DCH	М		9.2.2.66		_	
>HS-DSCH Configured Indicator	M		9.2.2.19C		_	
> Minimum Reduced E- DPDCH Gain Factor	0		9.2.2.102		YES	ignore
E-DCH FDD Information	C- EDCHInfo		9.2.2.4B		YES	reject
Serving E-DCH RL	0		9.2.2.38C		YES	reject
F-DPCH Information		01			YES	reject
>Power Offset Information >>PO2	М	1	Power Offset 9.2.2.30	This IE shall be ignored by DRNS.	_	
>FDD TPC Downlink Step Size	М		9.2.2.16		_	
>Limited Power Increase	М		9.2.2.21A		_	
>Inner Loop DL PC Status	M	<u> </u>	9.2.2.21a		_	
>F-DPCH Slot Format Support Request	0		9.2.2.86		YES	reject
>F-DPCH Slot Format Initial DL DPCH Timing	0		9.2.2.85		YES	Ignore
Adjustment Allowed	0		9.2.2.21b		YES	ignore
HSDPA Operation Serving Cell Change CFN	0		9.2.2.67 CFN		YES	reject
Serving Cell Change CFN	0		9.2.1.9		163	reject
Continuous Packet Connectivity DTX-DRX Information	0		9.2.2.72		YES	reject
Continuous Packet Connectivity HS-SCCH less Information	0		9.2.2.74		YES	reject
Extended SRNC-ID	0		Extended RNC-ID 9.2.1.50a	The Extended SRNC-ID IE shall be used if the RNC identity has a value larger than 4095.	YES	reject
Additional HS Cell Information RL Setup		0 <maxno ofHSDSC H-1&gt;</maxno 		For secondary serving HS- DSCH cell. Max 1 in this 3GPP release.	EACH	reject
>HS-PDSCH RL ID	М		RL ID 9.2.1.49		_	
>C-ID	М		9.2.1.6		_	
>HS-DSCH Secondary Serving Information	М		9.2.2.19aa		-	
UE Aggregate Maximum Bit Rate	0		9.2.1.137		YES	ignore
Additional E-DCH Cell Information RL Setup Req		01		For E-DCH on multiple frequencies in this DRNS.	YES	reject
>Multicell E-DCH	М	1	9.2.2.113		-	
Transport Bearer Mode						

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
>Additional E-DCH Cell Information Setup		1 <maxno ofEDCH- 1&gt;</maxno 		E-DCH on Secondary uplink frequency – max 1 in this 3GPP release.	_	
>> Additional E-DCH FDD Setup Information	Μ		9.2.2.110		-	

Condition	Explanation
CodeLen	The IE shall be present if Min UL Channelisation Code length IE
	equals to 4
SlotFormat	The IE shall be present if the DL DPCH Slot Format IE is equal to
	any of the values from 12 to 16.
NotFirstRL	The IE shall be present if the RL is not the first one in the RL
	Information IE.
Diversity mode	The IE shall be present if Diversity Mode IE in UL DPCH Information
	IE is not equal to "none".
InfoHSDSCH	This IE shall be present if HS-DSCH Information IE is present.
EDCHInfo	This IE shall be present if E-DPCH Information IE is present.

Range bound	Explanation
maxnoofRLs	Maximum number of RLs for one UE.
maxnoofMBMS	Maximum number of MBMS bearer services that a UE can join.
maxnoofHSDSCH-1	Maximum number of Secondary Serving HS-DSCH cells for one UE.
maxnoofEDCH-1	Maximum number of uplink frequencies -1 for E-DCH for one UE

# 9.1.3.2 TDD Message

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Message Type	Μ		9.2.1.40		YES	reject
Transaction ID	Μ		9.2.1.59		_	
SRNC-ID	M		RNC-ID 9.2.1.50	If the Extended SRNC-ID IE is included in the message, the SRNC-ID IE shall be ignored.	YES	reject
S-RNTI	Μ		9.2.1.53		YES	reject
D-RNTI	0		9.2.1.24		YES	reject
UL Physical Channel Information		1			YES	reject
>Maximum Number of Timeslots	М		9.2.3.3A	For the UL	_	
>Minimum Spreading Factor	М		9.2.3.4A	For the UL	_	
>Maximum Number of UL Physical Channels per Timeslot	М		9.2.3.3B		-	
>Support of 8PSK	0		9.2.3.7H	Applicable to 1.28Mcps TDD only	YES	ignore
>Minimum Spreading Factor 7.68Mcps	0		9.2.3.19	Applicable to 7.68Mcps TDD only	YES	ignore
DL Physical Channel Information		1			YES	reject
>Maximum Number of Timeslots	М		9.2.3.3A	For the DL	-	
>Minimum Spreading Factor	М		9.2.3.4A	For the DL	_	
>Maximum Number of DL Physical Channels	М		9.2.3.3C		_	
>Maximum Number of DL Physical Channels per Timeslot	0		9.2.3.3D		YES	ignore
>Support of 8PSK	0		9.2.3.7H	Applicable to 1.28Mcps TDD only	YES	ignore
>Support of PLCCH	0		9.2.3.16	Applicable to 1.28Mcps TDD only	YES	ignore

>Minimum Spreading Factor 7.68Mcps	0		9.2.3.19	Applicable to 7.68Mcps TDD only	YES	ignore
>Maximum Number of DL Physical Channels 7.68Mcps	0		9.2.3.20	Applicable to 7.68Mcps TDD only	YES	ignore
>Maximum Number of DL Physical Channels per Timeslot 7.68Mcps	0		9.2.3.21	Applicable to 7.68Mcps TDD only	YES	ignore
Allowed Queuing Time	0		9.2.1.2	, i i i i i i i i i i i i i i i i i i i	YES	reject
UL CCTrCH Information		0 <maxn oofCCTr CHs&gt;</maxn 		For DCH and USCH	EACH	notify
>CCTrCH ID	М		9.2.3.2		_	
>TFCS	М		9.2.1.63	For the UL.	_	
>TFCI Coding	М		9.2.3.11		-	
>Puncture Limit	М		9.2.1.46		_	
>TDD TPC Uplink Step Size	0		9.2.3.10a	Mandatory for 1.28Mcps TDD, not applicable to 3.84Mcps TDD or 7.68Mcps TDD	YES	reject
DL CCTrCH Information		0 <maxn oofCCTr CHs&gt;</maxn 		For DCH and DSCH	EACH	notify
>CCTrCH ID	М		9.2.3.2		_	
>TFCS	M		9.2.1.63	For the DL.	_	
>TFCI Coding	M		9.2.3.11		_	
>Puncture Limit	M		9.2.1.46		_	
>TDD TPC Downlink Step	M		9.2.3.10			
Size	IVI		9.2.3.10		—	
>TPC CCTrCH List		0 <maxn oCCTrC Hs&gt;</maxn 		List of uplink CCTrCH which provide TPC	_	
>>TPC CCTrCH ID	М		CCTrCH ID 9.2.3.2		_	
DCH Information	0		DCH TDD Information 9.2.3.2A		YES	reject
DSCH Information	0		DSCH TDD Information 9.2.3.3a		YES	reject
USCH Information	0		9.2.3.15		YES	reject
RL Information		1	1		YES	reject
>RL ID	Μ		9.2.1.49		-	í í
>C-ID	M	1	9.2.1.6		_	
>Frame Offset	M		9.2.1.30		_	
>Special Burst Scheduling	M	1	9.2.3.7D		_	1
>Primary CCPCH RSCP	0	1	9.2.3.5		_	
>DL Time Slot ISCP Info	0		9.2.3.2D	Applicable to 3.84Mcps TDD and 7.68Mcps TDD only	_	
>DL Time Slot ISCP Info LCR	0		9.2.3.2F	Applicable to 1.28Mcps TDD only	YES	reject
>TSTD Support Indicator	0		9.2.3.13F	Applicable to 1.28Mcps TDD only	YES	ignore
>RL Specific DCH Information	0		9.2.1.49A		YES	ignore
>Delayed Activation	0		9.2.1.19Aa		YES	reject

					ГТ	
>UL Synchronisation Parameters LCR		01		Mandatory for 1.28Mcps TDD. Not Applicable to 3.84Mcps TDD or 7.68Mcps TDD.	YES	reject
>>Uplink Synchronisation Step Size	М		9.2.3.13J		_	
>>Uplink Synchronisation Frequency	М		9.2.3.131		-	
>Primary CCPCH RSCP Delta	0		9.2.3.5a		YES	ignore
>Idle Interval Configuration Indicator	0		NULL	TDD only	YES	ignore
>Cell Portion LCR ID	0		9.2.3.73	Applicable to 1.28Mcps TDD only	YES	ignore
Permanent NAS UE Identity	0		9.2.1.73	Í	YES	ignore
HS-DSCH Information	0		HS-DSCH TDD Information 9.2.3.3aa		YES	reject
HS-PDSCH RL ID	C – InfoHSDSC H		RL ID 9.2.1.49		YES	reject
PDSCH-RL-ID	0		RL ID 9.2.1.49		YES	ignore
MBMS Bearer Service List		0 <maxn oofMBM S&gt;</maxn 			GLOBAL	notify
>TMGI	Μ		9.2.1.80		_	
E-DCH Information		01		3.84Mcps TDD only	YES	reject
>E-PUCH Information	М		9.2.3.36		_	
>E-TFCS Information TDD	М		9.2.3.37		_	
>E-DCH MAC-d Flows Information TDD	М		9.2.3.38		-	
>E-DCH TDD Information	М		9.2.3.40		—	
E-DCH Serving RL	0		9.2.1.49	TDD only	YES	reject
E-DCH Information 7.68Mcps		01		7.68Mcps TDD only	YES	reject
>E-PUCH Information	М		9.2.3.36		_	
>E-TFCS Information TDD	М	ļ	9.2.3.37		—	
>E-DCH MAC-d Flows Information TDD	М		9.2.3.38		-	
>E-DCH TDD Information 7.68Mcps	М		9.2.3.51	4.001	-	<b>.</b> .
E-DCH Information 1.28Mcps		01		1.28Mcps TDD only	YES	reject
>E-PUCH Information LCR	M	<u> </u>	9.2.3.36a		_	
>E-TFCS Information TDD	M		9.2.3.37	-		
>E-DCH MAC-d Flows Information TDD	M		9.2.3.38		-	
>E-DCH TDD Information	М		9.2.3.40a		-	
Extended SRNC-ID	0		Extended RNC-ID 9.2.1.50a	The Extended SRNC-ID IE shall be used if the RNC identity has a value larger than 4095.	YES	reject
Continuous Packet Connectivity DRX Information LCR	0		9.2.3.61	1.28 Mcps TDD only	YES	reject

HS-DSCH Semi-Persistent	0	9.2.3.64	1.28 Mcps	YES	reject
scheduling Information LCR			TDD only		-
E-DCH Semi-Persistent	0	9.2.3.66	1.28 Mcps	YES	reject
scheduling Information LCR			TDD only		-
RNTI Allocation Indicator	0	ENUMERA	1.28 Mcps	YES	ignore
		TED (True)	TDD only		-
DCH Measurement Type	0	9.2.3.76	1.28 Mcps	YES	reject
indicator			TDD only		-

Condition	Explanation
InfoHSDSCH	This IE shall be present if HS-DSCH Information IE is present.

Range bound	Explanation
maxnoofCCTrCHs	Maximum number of CCTrCH for one UE.
maxnoofMBMS	Maximum number of MBMS bearer services that a UE can join.

# 9.1.4 RADIO LINK SETUP RESPONSE

## 9.1.4.1 FDD Message

IE/Group Name	Presence	Range	IE Type	Semantics	Criticality	Assigned
			and Reference	Description		Criticality
Message Type	М		9.2.1.40		YES	reject
Transaction ID	М		9.2.1.59		_	
D-RNTI	0		9.2.1.24		YES	ignore
CN PS Domain Identifier	0		9.2.1.12		YES	ignore
CN CS Domain Identifier	0		9.2.1.11		YES	ignore
RL Information Response		1 <maxno ofRLs&gt;</maxno 			EACH	ignore
>RL ID	Μ		9.2.1.49		_	
>RL Set ID	Μ		9.2.2.35		_	
>URA Information	0		9.2.1.70B		_	
>SAI	М		9.2.1.52		_	
>Cell GAI	0		9.2.1.5A		_	
>UTRAN Access Point Position	0		9.2.1.70A		_	
>Received Total Wide Band Power	М		9.2.2.35A		_	
>Not Used	0	1	NULL		-	
>DL Code Information	М		FDD DL Code Information 9.2.2.14A		-	
>CHOICE Diversity Indication	М		0.2.2.14/		_	
>>Combining					_	
>>>RL ID	М		9.2.1.49	Reference RL ID for the combining	_	
>>>DCH Information Response	0		9.2.1.16A		YES	ignore
>>>E-DCH FDD Information Response	0		9.2.2.4C		YES	ignore
>>Non Combining or First RL					-	
>>>DCH Information Response	М		9.2.1.16A		—	
>>>E-DCH FDD Information Response	0		9.2.2.4C		YES	ignore
>SSDT Support Indicator	Μ		9.2.2.43		_	
>Maximum Uplink SIR	М		Uplink SIR 9.2.1.69		-	
>Minimum Uplink SIR	М		Uplink SIR 9.2.1.69		-	
>Closed Loop Timing Adjustment Mode	0		9.2.2.3A		-	
>Maximum Allowed UL Tx Power	М		9.2.1.35		-	
>Maximum DL TX Power	М		DL Power 9.2.1.21A		-	
>Minimum DL TX Power	М		DL Power 9.2.1.21A		-	
>Primary Scrambling Code	0		9.2.1.45		—	
>UL UARFCN	0		UARFCN 9.2.1.66	Corresponds to Nu in ref. TS 25.104 [6]	_	
>DL UARFCN	0		UARFCN 9.2.1.66	Corresponds to Nd in ref. TS 25.104 [6]	_	

IE/Group Name	Presence	Range	IE Type and	Semantics Description	Criticality	Assigned Criticality
			Reference	Decemption		ontiounty
>Primary CPICH Power	М		9.2.1.44		_	
>Not Used	0		NULL		_	
>Neighbouring UMTS Cell Information	0		9.2.1.41A		_	
>Neighbouring GSM Cell Information	0		9.2.1.41C		_	
>PC Preamble	М		9.2.2.27a		_	
>SRB Delay	M		9.2.2.39A		_	
>Cell GA Additional Shapes	0		9.2.1.5B		YES	ignore
>DL Power Balancing	0		9.2.2.10B		YES	ignore
Activation Indicator	U		0.2.2.102		0	ignoro
>HCS Prio	0		9.2.1.30N		YES	ignore
>Primary CPICH Usage For	0		9.2.2.32A		YES	ignore
Channel Estimation						5
>Secondary CPICH Information	0		9.2.2.38A		YES	ignore
>Active MBMS Bearer		0 <maxno< td=""><td></td><td></td><td>GLOBAL</td><td>ignore</td></maxno<>			GLOBAL	ignore
Service List		ofActiveM BMS>				.9
>>TMGI	М	-	9.2.1.80		-	
>>Transmission Mode	0	1	9.2.1.81		-	
>>Preferred Frequency	0	1	UARFCN		-	
Laver		1	9.2.1.66			
>E-DCH RL Set ID	0		RL Set ID 9.2.2.35		YES	ignore
>E-DCH FDD DL Control Channel Information	0		9.2.2.4D		YES	ignore
>Initial DL DPCH Timing	0		DL DPCH		YES	ignore
Adjustment	_		Timing			givere
, 			Adjustment			
			9.2.2.9A			
>F-DPCH Slot Format	0		9.2.2.85		YES	ignore
>Frame Offset	0		9.2.1.30		YES	ignore
>Chip Offset	0		9.2.2.1		YES	ignore
>Neighbouring E-UTRA Cell Information	0		9.2.1.41De		YES	ignore
>HS-DSCH Preconfiguration Info	0		9.2.2.99		YES	ignore
>Non-Serving RL Preconfiguration Info	0		9.2.2.125		YES	ignore
Uplink SIR Target	0		Uplink SIR		YES	ignore
			9.2.1.69			U
Criticality Diagnostics	0		9.2.1.13		YES	ignore
HS-DSCH-RNTI	0		9.2.1.30P		YES	ignore
HS-DSCH Information	0		HS-DSCH		YES	ignore
Response			FDD			
			Information			
			Response			
Continuous Deskat			9.2.2.19b			iene ere
Continuous Packet Connectivity HS-SCCH less	0		9.2.2.75		YES	ignore
Intermetion Personal		1			YES	ignore
Information Response	0		0 2 1 1 2 2			
SixtyfourQAM DL Support Indicator	0		9.2.1.123			
SixtyfourQAM DL Support Indicator Additional HS Cell	0	0 <maxno< td=""><td>9.2.1.123</td><td>For</td><td>EACH</td><td>ignore</td></maxno<>	9.2.1.123	For	EACH	ignore
SixtyfourQAM DL Support Indicator	0	ofHSDSC	9.2.1.123	secondary		
SixtyfourQAM DL Support Indicator Additional HS Cell	0		9.2.1.123	secondary serving HS-		
SixtyfourQAM DL Support Indicator Additional HS Cell	0	ofHSDSC	9.2.1.123	secondary serving HS- DSCH cell.		
SixtyfourQAM DL Support Indicator Additional HS Cell	0	ofHSDSC	9.2.1.123	secondary serving HS- DSCH cell. Max 1 in this		
SixtyfourQAM DL Support Indicator Additional HS Cell	0	ofHSDSC	9.2.1.123	secondary serving HS- DSCH cell. Max 1 in this 3GPP		
SixtyfourQAM DL Support Indicator Additional HS Cell Information Response		ofHSDSC		secondary serving HS- DSCH cell. Max 1 in this		
SixtyfourQAM DL Support Indicator Additional HS Cell	O M	ofHSDSC	9.2.1.123 RL ID 9.2.1.49	secondary serving HS- DSCH cell. Max 1 in this 3GPP		

#### 3GPP TS 25.423 version 9.8.0 Release 9

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
>HS-DSCH FDD Secondary Serving Information Response	М		9.2.2.19ba		-	
>SixtyfourQAM DL Support Indicator	0		9.2.1.123		-	
Additional E-DCH Cell Information Response		0 <maxno ofEDCH- 1&gt;</maxno 		E-DCH on Secondary uplink frequency – max 1 in this 3GPP release.	EACH	ignore
>Additional E-DCH FDD Information Response	М		9.2.2.120		—	

Range bound	Explanation
maxnoofRLs	Maximum number of RLs for one UE.
maxnoofActiveMBMS	Maximum number of MBMS bearer services that are active in parallel.
maxnoofHSDSCH-1	Maximum number of Secondary Serving HS-DSCH cells for one UE.
maxnoofEDCH-1	Maximum number of uplink frequencies -1 for E-DCH for one UE

# 9.1.4.2 TDD Message

Message Type         M.         9.2.1.40         YES         reject.           Transaction ID         M.         9.2.1.24         YES         ignore           D-RNTI         O         9.2.1.24         YES         ignore           CN PS Domain Identifier         O         9.2.1.11         YES         ignore           CN GS Domain Identifier         O         9.2.1.11         Mandatory for 3.84Mcps         YES         ignore           RL Information Response         0.1         Mandatory for 3.84Mcps         YES         ignore           >RL ID         M         9.2.1.70         -         -           >JUR A Information         O         9.2.1.70B         -         -           >JUR A Information         O         9.2.1.70A         -         -           >JUR Time Stot ISCP Info         M         9.2.1.30         -         -           >Maximum Uplink SIR         M         Uplink SIR         -         -           >Maximum DL TX Power         M         9.2.1.35         -         -           >Maximum DL TX Power         M         9.2.1.48         -         -           >Sync Case         O         9.2.1.84         -         -           >S	IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Transaction ID         M         9.2.1.59             CN PS Domain Identifier         O         9.2.1.24         YES         ignore           CN SD Domain Identifier         O         9.2.1.11         YES         ignore           RL Information Response         0.1         Mandatory for 1.28Mcps         XBAMcps         YES         ignore           >VEX.ID         M         9.2.1.44         YES         ignore         ignore           >VEX.ID         M         9.2.1.708         -         -         -           >JURA Information         O         9.2.1.708         -         -         -           >SAL         M         9.2.1.50         -         -         -         -           >JURA Information         O         9.2.1.70A         -         -         -         -           >ULTIRS Naccess Point         O         9.2.1.50         -         -         -         -           >ULTIRS Naccess Point         O         9.2.1.51         -         -         -         -           >ULTIRS Naccess Point         O         9.2.1.51         -         -         -         -           >Solutine Site         M         Uplink S	Message Type	М				YES	reject
D-RNTI O 92.124 VES ignore CN PS Domain Identifier O 92.112 VES ignore CN CS Domain Identifier O 0.9.2.1.11 Mandatory for RL Information Response 0.1 RL Information 0.1 SAIL 12 Response 1.2 RL ID		Μ		9.2.1.59		_	
CN P5 Domain Identifier         O         9.21.12         YES         ignore           CR CS Domain Identifier         0         9.2.1.11         Mandatory for 3.84Mcps         3.84Mcps         ignore           RL Information Response         01         Mandatory for applicable to 1.28Mcps         S.84Mcps         YES         ignore           >RL ID         M         9.2.1.49         -         -         -           >SAI         M         9.2.1.52         -         -         -           >SAI         M         9.2.1.52         -         -         -           >SAI         M         9.2.1.70A         -         -         -           >URR NAccess Point         0         9.2.1.70A         -         -         -           >JUR Tim Stot ISCP Info         M         9.2.1.80         -         -         -           >Maximum Uplink SIR         M         Uplink SIR         -         -         -         -           >Maximum DL TX Power         M         9.2.1.68         -         -         -           >Maximum DL TX Power         M         9.2.1.64         -         -         -           >Sonc Case         O         9.2.1.81         -						YES	ianore
CN CS Domain Identifier         O         9.2.1.11         Mardatory for 3.84Mcps         ignore           RL Information Response         0.1         Mardatory for 3.84Mcps         YES         ignore           xRL ID         M         9.2.1.49         -         ignore           >RL Information         O         9.2.1.70         -         -           >JUR A Information         O         9.2.1.70         -         -           >Cell GAI         O         9.2.1.70         -         -           >JUR AN Access Point         O         9.2.1.5A         -         -           >JUT Time Stot ISCP Info         M         9.2.1.5B         -         -           >JUL Time Stot ISCP Info         M         9.2.1.5B         -         -           SMaximum Uplink SIR         M         Uplink SIR         -         -           SMaximum DL TX Power         M         DL Power         -         -           Minimum DL TX Power         M         DL Power         -         -           SMaximum DL TX Power         M         DL Power         -         -           SCell Parameter ID         O         9.2.1.84         -         -           SCED Incloator         <							
RL Information Response         0.1         Mandatory for 384Mcps TDD, not applicable to 128Mcps TDD         YES         ignore           >RL ID         M         9.21.49         -         -           >URA Information         O         9.21.70B         -         -           >SAI         M         9.21.52         -         -           >JURA Naccess Point         O         9.21.54         -         -           >JUTRAN Access Point         O         9.21.54         -         -           >JUTRAN Access Point         O         9.2.1.54         -         -           >JUTRAN Access Point         O         9.2.1.69         -         -           >JUTRIN Access Point         O         9.2.1.33         -         -           >Maximum Uplink SIR         M         Uplink SIR         -         -           >Maximum DL TX Power         M         9.2.1.35         -         -           >Minimum DL TX Power         M         9.2.1.84         -         -           >SCell Parameter ID         O         9.2.1.84         -         -           >SCRT In Ricator         O         9.2.1.74         -         -           >SCPI Indicator         O							
>URA Information         O         9.2.1.70B            >SAI         M         9.2.1.52            >Cell GAI         O         9.2.1.5A            Position         -             >ULTIRN Access Point Position         O         9.2.1.70A            >ULTime Slot ISCP Info         M         9.2.3.13D            >Maximum Uplink SIR         M         Uplink SIR            >Maximum Allowed UL Tx         M         9.2.1.69            >Maximum DL TX Power         M         9.2.1.69            >Maximum DL TX Power         M         DL Power            >UARFCN         O         9.2.1.21A            >UARFCN         O         9.2.1.84            >SCH Time Slot         C-Case2         9.2.1.51            >SCH Time Slot         C-Case2         9.2.1.78            >SCH Time Slot         C-Case2         9.2.3.2            >SCH Time Slot         C-             >SCH Time Slot         G             >UL PhySCH SP Variation	RL Information Response		01		3.84Mcps TDD , not applicable to 1.28Mcps TDD or 7.68Mcps		
>SAI         M         9.2.1.52         -           >Cell GAI         O         9.2.1.70A         -           >UTRAN Access Point         O         9.2.1.70A         -           Position         9.2.1.70A         -         -           >VLT Time Slot ISCP Info         M         9.2.3.13D         -           >Maximum Uplink SIR         M         Uplink SIR         -           >Maximum Allowed UL Tx         M         9.2.1.69         -           >Maximum DL TX Power         M         9.2.1.35         -           >Maximum DL TX Power         M         DL Power         -           >JARSTRCN         O         9.2.1.21A         -           >UARFCN         O         9.2.1.66         Corresponds         -           >UARFCN         O         9.2.1.64         -         -           >Sono Case         O         9.2.1.84         -         -           >SCEI Time Slot         C-Case2         9.2.1.74         -         -           >SCTD Indicator         O         9.2.3.12A         -         -           >SCTD Indicator         O         9.2.3.13B         -         -           >SCH Time Slot         C-Case2						-	
>Cell GAI         O         9.2.1.5A         -           >UTRAN Access Point Position         O         9.2.1.70A         -           >ULTime Slot ISCP Info         M         9.2.313D         -           >Maximum Uplink SIR         M         Uplink SIR         -           >Maximum Uplink SIR         M         Uplink SIR         -           >Maximum Allowed UL Tx         M         9.2.1.69         -           >Maximum DL TX Power         M         9.2.1.35         -           >Maximum DL TX Power         M         DL Power         -           >Minimum DL TX Power         M         DL Power         -           >UARFCN         O         9.2.1.66         Corresponds to Nt in ref. TS         -           >Cell Parameter ID         O         9.2.1.51         -         -           >SCH Time Slot         C-Case2         9.2.1.51         -         -           >SCCP Dewer         M         9.2.3.12A         -         -           >Alpha Value         M         9.2.3.12B         -         -           >Scrittime Slot         C-Case2         9.2.3.12A         -         -           >Scrittime Slot         Socasa         -         -						_	
>UTRAN Access Point Position         O         9.2.1.70A            >UL Time Stot ISCP Info         M         9.2.3.13D            >Maximum Uplink SIR         M         Uplink SIR            >Maximum Uplink SIR         M         Uplink SIR            >Maximum Uplink SIR         M         Uplink SIR            >Maximum Allowed UL Tx Power         M         9.2.1.69            >Maximum DL TX Power         M         DL Power            >Minimum DL TX Power         M         DL Power            9.2.1.21A              >UARFCN         O         9.2.1.66         Corresponds to Nt in ref. TS 25.105 [7]            >Cell Parameter ID         O         9.2.1.78             >SCTD Indicator         O         9.2.1.78             >PCCPCH Power         M         9.2.3.12A             >SCTD Indicator         O         9.2.3.12A             >PCCPCH Power         M         9.2.3.12A             >PCCPCPCH Power         M         9.2.3.12B <td></td> <td></td> <td></td> <td></td> <td></td> <td>-</td> <td></td>						-	
Position							
>UL Time Slot ISCP Info         M         9.2.3.13D            >Maximum Uplink SIR         M         Uplink SIR            SMinimum Uplink SIR         M         Uplink SIR            9.2.1.69              >Maximum Allowed UL Tx         M         9.2.1.69            Power         9.2.1.69             >Maximum DL TX Power         M         DL Power            >Minimum DL TX Power         M         DL Power            9.2.1.21A              >UARFCN         O         9.2.1.66         Corresponds to Nt in ref. TS 25.105 [7]            >Cell Parameter ID         O         9.2.1.8             >SCTD Infoicator         O         9.2.1.78             >PCPCPCH Power         M         9.2.3.178             >PCPCPCH Power         M         9.2.3.13B             >PCPCPCH Power         M         9.2.3.13B             >PCPCPCH Power         M         9.2.3.7E       <	Position	0		9.2.1.70A		_	
>Maximum Uplink SIR         M         Uplink SIR		М				_	
>Minimum Uplink SIR         M         Uplink SIR         -           >Maximum Allowed UL Tx         M         9.2.1.35         -           >Maximum DL TX Power         M         9.2.1.35         -           >Maximum DL TX Power         M         DL Power         -           9.2.1.21A         -         -         -           >Minimum DL TX Power         M         DL Power         -           9.2.1.21A         -         -         -           >UARFCN         O         9.2.1.66         Corresponds to Nt in ref. TS 25.105 [7]         -           >SCH Time Slot         C-Case2         9.2.1.51         -         -           >SCH Time Slot         C-Case2         9.2.1.78         -         -           >PCCPCH Power         M         9.2.3.12A         -         -           >Stoth Time Slot         C-Case2         9.2.3.13B         -         -           >VLP PhysCH SF Variation         M         9.2.3.12A         -         -           >JUL PhysCH SF Variation         M         9.2.3.7E         -         -           Secondary CCPCH Info         O         9.2.3.7B         -         -           >Secordriguration         01         9				Uplink SIR		_	
>Maximum Allowed UL Tx Power         M         9.2.1.35            >Maximum DL TX Power         M         DL Power         -           9.2.1.21A         -         -         -           >VIARXMUM DL TX Power         M         DL Power         -           9.2.1.21A         -         -         -           >UARFCN         O         9.2.1.66         Corresponds to Nt in ref. TS 25.105 [7]         -           >Cell Parameter ID         O         9.2.1.54         -         -           >SCH Time Slot         C-Case2         9.2.1.51         -         -           >SCTD Indicator         O         9.2.1.78         -         -           >PCCPCH Power         M         9.2.3.12A         -         -           >Timing Advance Applied         M         9.2.3.13B         -         -           >Sprichronisation         M         9.2.3.7E         -         -           Configuration         M         9.2.3.7B         -         -           >Secondary CCPCH Info         O         9.2.3.7B         -         -           >VL CCTrCH Information         01         9.2.3.7         -         -           >>UL DPCH Information	>Minimum Uplink SIR	М		Uplink SIR		-	
>Maximum DL TX Power         M         DL Power 9.2.1.21A         -           >Minimum DL TX Power         M         DL Power 9.2.1.21A         -           >UARFCN         O         9.2.1.66         Corresponds to Nt in ref. TS 25.105 [7]         -           >Cell Parameter ID         O         9.2.1.8         -         -           >Sync Case         O         9.2.1.78         -         -           >SCH Time Slot         C-Case2         9.2.1.78         -         -           >SCTD Indicator         O         9.2.3.12A         -         -           >PCCPCH Power         M         9.2.3.12A         -         -           >JIMP hysCH SF Variation         M         9.2.3.12A         -         -           >JUL PhysCH SF Variation         M         9.2.3.7E         -         -           >Scondary CCPCH Info         O         9.2.3.7B         -         -           >Secondary CCPCH Info         O         9.2.3.7B         -         -           >SUL CTrCH Information         01         9.2.3.7         -         -           >>UL CTrCH Information         01         9.2.3.6         -         -           >>>DD DPCH Offset         M         9.2.3.6		М				-	
>Minimum DL TX Power         M         DL Power         -           >UARFCN         0         9.2.1.21A         -           >Cell Parameter ID         0         9.2.1.66         Corresponds to Nt in ref. TS 25.105 [7]         -           >Cell Parameter ID         0         9.2.1.8         -         -           >Sync Case         0         9.2.1.54         -         -           >SCH Time Slot         C-Case2         9.2.1.78         -         -           >SCTD Indicator         0         9.2.1.78         -         -           >PCCPCH Power         M         9.2.1.78         -         -           >PCCPCH Power         M         9.2.3.12A         -         -           >Alpha Value         M         9.2.3.13B         -         -           >Synchronisation         M         9.2.3.7E         -         -           >Secondary CCPCH Info         O         9.2.3.7E         -         -           >UC PTYSCH SF Variation         0         9.2.3.7         -         -           >Secondary CCPCH Info         O         9.2.3.7         -         -           >>UD CTCH Information         01         9.2.3.6         -         -	>Maximum DL TX Power	М				_	
>UARFCN         O         9.2.1.66         Corresponds to Nt in ref. TS 25.105 [7]         -           >Cell Parameter ID         O         9.2.1.8         -         -           >Sync Case         O         9.2.1.54         -         -           >SCTD Indicator         O         9.2.1.51         -         -           >SCTD Indicator         O         9.2.1.43         -         -           >PCCPCH Power         M         9.2.3.12A         -         -           >Iming Advance Applied         M         9.2.3.13B         -         -           >UL PhySCH SF Variation         M         9.2.3.7E         -         -           >Synchronisation Configuration         M         9.2.3.7B         -         -           >Secondary CCPCH Info         O         9.2.3.7B         -         -           >UL CCTrCH Information         0 <rmaxno ofCCTrCH s&gt;         For DCH         GLOBAL         ignore           &gt;&gt;CCTrCH ID         M         9.2.3.7         -         -           &gt;&gt;UL DPCH Information         01         YES         ignore           &gt;&gt;&gt;CTrCH ID         M         9.2.3.7         -         -           &gt;&gt;&gt;UL DPCH Information         01</rmaxno 	>Minimum DL TX Power	М		DL Power		_	
>Cell Parameter ID         O         9.2.1.8            >Sync Case         O         9.2.1.54            >SCTD Indicator         O         9.2.1.78            >SCTD Indicator         O         9.2.1.78            >PCCPCH Power         M         9.2.1.78            >Timing Advance Applied         M         9.2.3.12A            >Alpha Value         M         9.2.3.13B            >UL PhysCH SF Variation         M         9.2.3.7E            Synchronisation         M         9.2.3.7E            Configuration         -             >Secondary CCPCH Info         O         9.2.3.7B            >UL CCTrCH Information         0 <maxno of CCTrCH s&gt;         For DCH         GLOBAL         ignore           &gt;&gt;UL DPCH Information         01         YES         ignore           &gt;&gt;&gt;CertrCH ID         M         9.2.3.7            &gt;&gt;UL DPCH Information         01         YES         ignore           &gt;&gt;&gt;UL DPCH Information         01         YES         ignore           &gt;&gt;&gt;Not DPCH Offset         M         9.2.3.6<td>&gt;UARFCN</td><td>0</td><td></td><td></td><td>to Nt in ref. TS</td><td>_</td><td></td></maxno 	>UARFCN	0			to Nt in ref. TS	_	
>Sync Case         O         9.2.1.54            >SCH Time Slot         C-Case2         9.2.1.51            >SCTD Indicator         O         9.2.1.78            >PCCPCPCH Power         M         9.2.1.43            >Timing Advance Applied         M         9.2.3.12A            >Alpha Value         M         9.2.3.13B            >UL PhysCH SF Variation         M         9.2.3.7E            >Synchronisation         M         9.2.3.7B            Synchronisation         M         9.2.3.7B            >Secondary CCPCH Info         O         9.2.3.7B            >UL CCTrCH Information         0 <maxno ofCCTrCH s&gt;         For DCH         GLOBAL         ignore           &gt;&gt;VL DPCH Information         0.1         YES         ignore           &gt;&gt;&gt;LD DPCH Information         0.1         YES         ignore           &gt;&gt;&gt;Repetition Length         M         9.2.3.7         -           &gt;&gt;&gt;UL Timeslot         M         9.2.3.6         -           &gt;&gt;&gt;UD DPCH Offset         M         9.2.3.13C         -           &gt;&gt;&gt;&gt;UL Timeslot         M         9.2.3.</maxno 	>Cell Parameter ID	0		9218	_0.100 [.]	_	
SCH Time Slot         C-Case2         9.2.1.51         –           >SCTD Indicator         O         9.2.1.78         –           >PCCPCH Power         M         9.2.1.43         –           >Timing Advance Applied         M         9.2.3.12A         –           >Alpha Value         M         9.2.3.13B         –           >UL PhysCH SF Variation         M         9.2.3.7E         –           >Synchronisation         M         9.2.3.7E         –           Secondary CCPCH Info         O         9.2.3.7B         –           Secondary CCPCH Info         O         9.2.3.7B         –           >UL CCTrCH Information         0 <maxno ofCCTrCH s&gt;         For DCH         GLOBAL         ignore           &gt;&gt;CCTrCH ID         M         9.2.3.7         –         –           &gt;&gt;&gt;UL DPCH Information         01         YES         ignore           &gt;&gt;&gt;Repetition Length         M         9.2.3.7         –           &gt;&gt;&gt;NL DPCH Information         01         YES         ignore           &gt;&gt;&gt;UL Timeslot         M         9.2.3.6         –         –           &gt;&gt;&gt;UL Timeslot         M         9.2.3.13C         –         –           &gt;&gt;UT Dipth</maxno 						_	
>SCTD Indicator         O         9.2.1.78            >PCCPCH Power         M         9.2.1.43            >Timing Advance Applied         M         9.2.3.12A            >Alpha Value         M         9.2.3.12A            >UL PhysCH SF Variation         M         9.2.3.13B            >UL PhysCH SF Variation         M         9.2.3.7E            Synchronisation         M         9.2.3.7B            Secondary CCPCH Info         O         9.2.3.7B            >UL CCTrCH Information         O <maxno ofCCTrCH s&gt;         For DCH         GLOBAL         ignore           &gt;VL CCTrCH Information         O1         9.2.3.7             &gt;VL DPCH Information         O1         YES         ignore           &gt;&gt;&gt;CCTrCH ID         M         9.2.3.7             &gt;&gt;&gt;Repetition Period         M         9.2.3.7             &gt;&gt;&gt;Repetition Length         M         9.2.3.7             &gt;&gt;&gt;TDD DPCH Offset         M         9.2.3.7             &gt;&gt;&gt;UL Timeslot Information         M         9.</maxno 							
>PCCPCH Power         M         9.2.1.43          Image: Constraint of the system of th							
>Timing Advance AppliedM9.2.3.12A>Alpha ValueM9.2.3.a>UL PhysCH SF VariationM9.2.3.13B>SynchronisationM9.2.3.7EConfigurationO9.2.3.7E>Secondary CCPCH InfoO9.2.3.7BDDO9.2.3.7B>UL CCTrCH InformationO <maxno </maxno  ofCCTrCH s>For DCHGLOBAL>>CCTrCH IDM9.2.3.7>>UL DPCH InformationO1YESignore>>SRepetition PeriodM9.2.3.7>>>UD DPCH OffsetM9.2.3.6>>>UL Timeslot InformationM9.2.3.13C>>UL Timeslot InformationM9.2.3.13C>>Uplink SIR Target CCTrCHOUplink SIR 9.2.1.69YESignore>DL CCTrCH InformationO <maxno </maxno  ofCCTrCHFor DCHGLOBALignore							
>Alpha ValueM9.2.3.a>UL PhysCH SF VariationM9.2.3.13BSynchronisationM9.2.3.7EConfigurationM9.2.3.7E>Secondary CCPCH InfoO9.2.3.7BDD09.2.3.7B>UL CCTrCH Information09.2.3.7B>UL CCTrCH Information00For DCHGLOBAL>>CCTrCH IDM9.2.3.2>>UL DPCH Information01YESignore>>Sepetition PeriodM9.2.3.7>>JDD DPCH OffsetM9.2.3.6>>SUD DPCH OffsetM9.2.3.8A>>UL TimeslotM9.2.3.13CInformation0Uplink SIR->>UL TimeslotM9.2.3.13CInformation0>>UL TimeslotM9.2.3.13CInformation>>UL TimeslotM9.2.3.13CInformation>>UL TimeslotM9.2.3.13CInformation>>UL CCTrCH Information>>UL CCTrCH Information>>UL CCTrCH Information>>UL CCTrCH Information>>UL CCTrCH Information>>UL CCTrCH Information>>UL CCTrCH Information						_	
>UL PhysCH SF VariationM9.2.3.13B->Synchronisation ConfigurationM9.2.3.7E->Secondary CCPCH Info TDDO9.2.3.7B->UL CCTrCH InformationO9.2.3.7B->UL CCTrCH InformationO9.2.3.7B->UL CCTrCH Information0 <maxno </maxno  ofCCTrCH \$>For DCHGLOBAL>>CCTrCH IDM9.2.3.2->>UL DPCH Information01YESignore>>Repetition PeriodM9.2.3.7->>>Repetition LengthM9.2.3.6->>>TDD DPCH OffsetM9.2.3.8A->>>UL Timeslot InformationM9.2.3.13C->>UL Timeslot InformationM9.2.3.13C->>UL Timeslot InformationM9.2.3.13C->>DL CCTrCH Information0 <maxno </maxno  ofCCTrCH S>For DCHGLOBALignore0 <maxno </maxno  ofCCTrCH S>For DCHGLOBAL							
>Synchronisation ConfigurationM9.2.3.7E->Secondary CCPCH Info TDDO9.2.3.7B->UL CCTrCH InformationO9.2.3.7B->UL CCTrCH Information0 <maxno </maxno  ofCCTrCH s>For DCHGLOBAL>>CCTrCH IDM9.2.3.2->>UL DPCH Information01YESignore>>Repetition PeriodM9.2.3.7->>Repetition LengthM9.2.3.6->>>TDD DPCH OffsetM9.2.3.8A->>>UL TimeslotM9.2.3.13C->>UL TimeslotM9.2.3.13C-InformationOUplink SIR 9.2.1.69YES>DL CCTrCH Information0 <maxno </maxno  ofCCTrCH s>For DCHGLOBALignore0 <maxno </maxno  ofCCTrCH s>For DCHGLOBAL							
>Secondary CCPCH Info TDDO9.2.3.7B->UL CCTrCH Information0 <maxno </maxno  ofCCTrCH s>For DCHGLOBALignore>>CCTrCH IDM9.2.3.2>>UL DPCH Information01YESignore>>Repetition PeriodM9.2.3.7->>Repetition PeriodM9.2.3.6->>>Repetition LengthM9.2.3.6->>>TDD DPCH OffsetM9.2.3.8A->>>UL TimeslotM9.2.3.13C-Information0Uplink SIR 9.2.1.69YES>DL CCTrCH Information0 <maxno </maxno  ofCCTrCH s>For DCHGLOBALignore0 <maxno </maxno  ofCCTrCH s>For DCHGLOBAL	>Synchronisation					_	
>UL CCTrCH Information0 <maxno </maxno  ofCCTrCH s>For DCHGLOBALignore>>CCTrCH IDM9.2.3.2->>UL DPCH Information01YESignore>>Repetition PeriodM9.2.3.7->>Repetition LengthM9.2.3.6->>TDD DPCH OffsetM9.2.3.8A->>UL TimeslotM9.2.3.13C-Information0Uplink SIR 9.2.1.69YES>DL CCTrCH Information0 <maxno </maxno  ofCCTrCH s>For DCHGLOBALignore0 <maxno </maxno  ofCCTrCH s>For DCHGLOBAL	>Secondary CCPCH Info	0		9.2.3.7B		-	
>>UL DPCH Information01YESignore>>Repetition PeriodM9.2.3.7>>Repetition LengthM9.2.3.6>>TDD DPCH OffsetM9.2.3.8A>>UL TimeslotM9.2.3.13CInformationOUplink SIR 9.2.1.69YESignore>DL CCTrCH Information0 <maxno </maxno  ofCCTrCH S>For DCHGLOBALignore			ofCCTrCH		For DCH	GLOBAL	ignore
>>>Repetition Period       M       9.2.3.7       -         >>>Repetition Length       M       9.2.3.6       -         >>>TDD DPCH Offset       M       9.2.3.8A       -         >>>UL Timeslot       M       9.2.3.13C       -         Information       M       9.2.3.13C       -         >>Uplink SIR Target CCTrCH       O       Uplink SIR 9.2.1.69       YES       ignore         >DL CCTrCH Information       0 <maxno ofCCTrCH S&gt;       For DCH       GLOBAL       ignore</maxno 		М		9.2.3.2		-	
>>>Repetition Length       M       9.2.3.6       -         >>>TDD DPCH Offset       M       9.2.3.8A       -         >>>UL Timeslot       M       9.2.3.13C       -         Information       O       Uplink SIR       -         >>Uplink SIR Target CCTrCH       O       Uplink SIR 9.2.1.69       YES       ignore         >DL CCTrCH Information       O <maxno ofCCTrCH S&gt;       For DCH       GLOBAL       ignore</maxno 	>>UL DPCH Information		01			YES	ignore
>>>Repetition Length       M       9.2.3.6          >>>TDD DPCH Offset       M       9.2.3.8A          >>>UL Timeslot       M       9.2.3.13C          Information       O       Uplink SIR          >>Uplink SIR Target CCTrCH       O       Uplink SIR 9.2.1.69       YES       ignore         >DL CCTrCH Information       O <maxno ofCCTrCH       For DCH       GLOBAL       ignore</maxno 						-	
>>>TDD DPCH Offset       M       9.2.3.8A       -         >>>UL Timeslot Information       M       9.2.3.13C       -         >>Uplink SIR Target CCTrCH       O       Uplink SIR 9.2.1.69       YES       ignore         >DL CCTrCH Information       0 <maxno ofCCTrCH S&gt;       For DCH       GLOBAL       ignore</maxno 	>>>Repetition Length					-	
>>>UL Timeslot Information       M       9.2.3.13C       -         >>Uplink SIR Target CCTrCH       O       Uplink SIR 9.2.1.69       YES       ignore         >DL CCTrCH Information       0 <maxno ofCCTrCH S&gt;       For DCH       GLOBAL       ignore</maxno 	>>>TDD DPCH Offset	Μ		9.2.3.8A		_	
>>Uplink SIR Target CCTrCH       O       Uplink SIR 9.2.1.69       YES       ignore         >DL CCTrCH Information       0 <maxno ofCCTrCH s&gt;       For DCH       GLOBAL       ignore</maxno 		Μ		9.2.3.13C		_	
>DL CCTrCH Information         0 <maxno ofCCTrCH s&gt;         For DCH         GLOBAL         ignore</maxno 	>>Uplink SIR Target	0				YES	ignore
			ofCCTrCH		For DCH	GLOBAL	ignore
	>>CCTrCH ID	М		9.2.3.2		_	

IE/Group Name	Presence	Range	IE Type and	Semantics Description	Criticality	Assigned Criticality
		0.4	Reference			
>>DL DPCH Information		01			YES	ignore
>>>Repetition Period	M		9.2.3.7		-	
>>>Repetition Length	M		9.2.3.6		_	
>>>TDD DPCH Offset	M		9.2.3.8A		_	
>>>DL Timeslot Information	М		9.2.3.2C			
>>CCTrCH Maximum DL TX Power	0		DL Power 9.2.1.21A	Maximum allowed power on DPCH	YES	ignore
>>CCTrCH Minimum DL TX Power	0		DL Power 9.2.1.21A	Minimum allowed power on DPCH	YES	ignore
>DCH Information Response	0		9.2.1.16A		YES	ignore
>DSCH Information		0			GLOBAL	ignore
Response		<maxnoof DSCHs&gt;</maxnoof 				.g.ieie
>>DSCH ID	М		9.2.3.3ae		_	
>>DSCH Flow Control	M		9.2.3.3ag		_	1
Information						
>>Binding ID	0		9.2.1.3		_	1
>>Transport Layer	0		9.2.1.62		_	
Address >>Transport Format	M		9.2.3.13			
Management	IVI		9.2.3.13			-
>USCH Information Response		0 <maxnoof USCHs&gt;</maxnoof 			GLOBAL	ignore
>>USCH ID	М		9.2.3.14		_	
>>Binding ID	0		9.2.1.3		_	
>>Transport Layer Address	0		9.2.1.62		-	
>>Transport Format Management	М		9.2.3.13		-	
>Neighbouring UMTS Cell Information	0		9.2.1.41A		-	
>Neighbouring GSM Cell Information	0		9.2.1.41C		-	
>Cell GA Additional Shapes	0		9.2.1.5B		YES	ignore
>HCS Prio	0		9.2.1.30N		YES	ignore
>Time Slot for SCH	C-Case1		Time Slot 9.2.1.56		YES	ignore
>Neighbouring E-UTRA Cell Information	0		9.2.1.41De		YES	ignore
Uplink SIR Target	М		Uplink SIR 9.2.1.69		YES	ignore
Criticality Diagnostics	0	+	9.2.1.69		YES	ignoro
RL Information Response LCR		01	9.2.1.13	Mandatory for 1.28Mcps TDD, not applicable to 3.84Mcps TDD or 7.68Mcps TDD	YES	ignore ignore
>RL ID	М		9.2.1.49		_	
>URA Information	М	1	9.2.1.70B	1	-	1
>SAI	Μ		9.2.1.52		_	
>Cell GAI	0		9.2.1.5A	1	-	
>UTRAN Access Point Position	0		9.2.1.70A		-	
>UL Time Slot ISCP Info	М		9.2.3.13H		-	
LCR						

IE/Group Name	Presence	Range	IE Type and	Semantics Description	Criticality	Assigned Criticality
			Reference			
			9.2.1.69			
>Minimum Uplink SIR	М		Uplink SIR 9.2.1.69		—	
>Maximum Allowed UL Tx Power	М		9.2.1.35		_	
>Maximum DL TX Power	М		DL Power 9.2.1.21A		-	
>Minimum DL TX Power	М		DL Power 9.2.1.21A		_	
>UARFCN	0		9.2.1.66	Corresponds to Nt in ref. TS 25.105 [7]	_	
>Cell Parameter ID	0		9.2.1.8	20.100 [7]	_	
>SCTD Indicator	0		9.2.1.78		_	
>PCCPCH Power	M		9.2.1.43			
>Alpha Value	M		9.2.3.a		_	
>UL PhysCH SF Variation	M		9.2.3.13B			
>Synchronisation	M		9.2.3.13B 9.2.3.7E			
Configuration	<u> </u>		0.0.075			
>Secondary CCPCH Info TDD LCR	0		9.2.3.7F		-	
>UL CCTrCH Information LCR		0 <maxno ofCCTrCH sLCR&gt;</maxno 		For DCH	GLOBAL	ignore
>>CCTrCH ID	Μ		9.2.3.2		_	
>>UL DPCH Information LCR		01			YES	ignore
>>>Repetition Period	Μ		9.2.3.7		_	
>>>Repetition Length	Μ		9.2.3.6		_	
>>>TDD DPCH Offset	М		9.2.3.8A		_	
>>>UL Timeslot Information LCR	М		9.2.3.13G		-	
>>Uplink SIR Target CCTrCH	0		Uplink SIR 9.2.1.69		YES	ignore
>DL CCTrCH Information LCR		0 <maxno ofCCTrCH sLCR&gt;</maxno 		For DCH	GLOBAL	ignore
>>CCTrCH ID	М		9.2.3.2		_	
>>DL DPCH Information		01	0.2.0.2		YES	ignore
>>>Repetition Period	М		9.2.3.7		_	
>>>Repetition Length	M		9.2.3.6	1	_	
>>>TDD DPCH Offset	M		9.2.3.8A		_	
>>>DL Timeslot	M		9.2.3.2E		_	
Information LCR			0.2.0.22			
>>>TSTD Indicator	М		9.2.3.13E	ł	_	
>DCH Information Response	0		9.2.1.16A		YES	ignore
>DSCH Information		0		ł	GLOBAL	ignore
Response LCR		<maxnoof DSCHsLC R&gt;</maxnoof 			OLOD, IL	ignore
>>DSCH ID	М		9.2.3.3ae		_	
>>DSCH Flow Control Information	М		9.2.3.3ag		-	
>>Binding ID	0		9.2.1.3	1	_	
>>Transport Layer Address	0		9.2.1.62		_	
>>Transport Format	М		9.2.3.13		-	
Management >USCH Information Response LCR		0 <maxnoof USCHsLC R&gt;</maxnoof 			GLOBAL	ignore

IE/Group Name	Presence	Range	IE Type and	Semantics Description	Criticality	Assigned Criticality
			Reference			
>>USCH ID	Μ		9.2.3.14		_	
>>Binding ID	0		9.2.1.3		_	
>>Transport Layer	0		9.2.1.62		-	
Address			0.0.0.40			
>>Transport Format Management	М		9.2.3.13		-	
>Neighbouring UMTS Cell	0		9.2.1.41A		_	
Information	0		9.2.1.41A		_	
>Neighbouring GSM Cell	0		9.2.1.41C		_	
Information	-					
>HCS Prio	0		9.2.1.30N		YES	ignore
>Cell GA Additional Shapes	0		9.2.1.5B		YES	ignore
>Uplink Timing Advance	М		9.2.3.13K		YES	ignore
Control LCR				l la transferazione	VEO	:
>PowerControl GAP	0		INTEGER (1255)	Unit: umber of subframes Applicable to 1.28Mcps TDD only	YES	ignore
>SixtyfourQAM DL Support Indicator	0		9.2.1.123	Applicable to 1.28Mcps TDD only	YES	ignore
>Neighbouring E-UTRA	0		9.2.1.41De		YES	ignore
Cell Information	-		0.2.1.1.00			······
>Idle Interval Information	0		9.2.3.60	TDD only	YES	ignore
HS-DSCH-RNTI	0		9.2.1.30P		YES	ignore
HS-DSCH Information	0		HS-DSCH		YES	ignore
Response			TDD Information Response 9.2.3.3ab			
DSCH-RNTI	0		9.2.3.3ah		YES	ignore
Active MBMS Bearer Service List		0 <maxno ofActiveM BMS&gt;</maxno 			GLOBAL	ignore
>TMGI	М		9.2.1.80		_	
>Transmission Mode	0		9.2.1.81		_	
>Preferred Frequency	0		UARFCN		_	
Layer			9.2.1.66			
RL Information Response 7.68Mcps		01	0.0.4.40	Mandatory for 7.68Mcps TDD, not applicable to 1.28Mcps TDD or 3.84Mcps TDD	YES	ignore
>RL ID	M		9.2.1.49		_	
>URA Information	0		9.2.1.70B		_	
>SAI	M		9.2.1.52		_	
>Cell GAI	0		9.2.1.5A		_	
>UTRAN Access Point Position			9.2.1.70A		_	
>UL Time Slot ISCP Info	М		9.2.3.13D	1	_	
>Maximum Uplink SIR	M		Uplink SIR		-	
>Minimum Uplink SIR	М		9.2.1.69 Uplink SIR 9.2.1.69		-	
>Maximum Allowed UL Tx Power	М		9.2.1.35		-	
>Maximum DL TX Power	M		DL Power		-	
Minimura DL TV D	M		9.2.1.21A	+		
>Minimum DL TX Power	М		DL Power 9.2.1.21A		-	

IE/Group Name	Presence	Range	IE Type	Semantics	Criticality	Assigned
		J. J.	and Reference	Description		Criticality
	0			0		
>UARFCN	0		UARFCN 9.2.1.66	Corresponds to Nt in ref. TS 25.105 [7]	_	
>Cell Parameter ID	0		9.2.1.8	20.100 [7]		
>Sync Case	0		9.2.1.54		_	
>SCH Time Slot	C-Case2	+	9.2.1.51			
>SCTD Indicator	0	+	9.2.1.78			
>PCCPCH Power	M	1	9.2.1.43			
>Timing Advance Applied	M	1	9.2.3.12A			
>Alpha Value	M	+	9.2.3.a			
>UL PhysCH SF Variation	M	+	9.2.3.13B			
>Synchronisation Configuration	M	+	9.2.3.7E		_	
<ul> <li>Secondary CCPCH Info</li> <li>7.68Mcps TDD</li> </ul>	0		9.2.3.22		-	
>UL CCTrCH Information		0 <maxno< td=""><td></td><td>For DCH</td><td>GLOBAL</td><td>ignoro</td></maxno<>		For DCH	GLOBAL	ignoro
7.68 Mcps		ofCCTrCH s>		FOLDCIT	GLOBAL	ignore
>>CCTrCH ID	М		9.2.3.2		_	
>>UL DPCH Information		01	3.2.3.2		YES	ignore
>>>Repetition Period	M	01	9.2.3.7			ignore
>>>Repetition Length	M	+	9.2.3.7			
>>>TDD DPCH Offset	M	+	9.2.3.6 9.2.3.8A			
					—	
>>>UL Timeslot Information 7.68Mcps	M	<u> </u>	9.2.3.26		_	
>>Uplink SIR Target CCTrCH	0		Uplink SIR 9.2.1.69		-	
>DL CCTrCH Information 7.68 Mcps		0 <maxno ofCCTrCH s&gt;</maxno 		For DCH	GLOBAL	ignore
>>CCTrCH ID	Μ		9.2.3.2		-	
>>DL DPCH Information		01			YES	ignore
>>>Repetition Period	Μ		9.2.3.7		-	
>>>Repetition Length	Μ		9.2.3.6		_	
>>>TDD DPCH Offset	М		9.2.3.8A		_	
>>>DL Timeslot Information 7.68Mcps	М		9.2.3.28		_	
>>CCTrCH Maximum DL TX Power	0		DL Power 9.2.1.21A	Maximum allowed power on DPCH	-	
>>CCTrCH Minimum DL TX Power	0		DL Power 9.2.1.21A	Minimum allowed power on DPCH	-	
>DCH Information Response	0		9.2.1.16A		YES	ignore
>DSCH Information Response 7.68 Mcps		0 <maxnoof DSCHs&gt;</maxnoof 			GLOBAL	ignore
>>DSCH ID	М		9.2.3.3ae		_	
>>DSCH Flow Control Information	М		9.2.3.3ag		_	
>>Binding ID	0	1	9.2.1.3		—	
>>Transport Layer Address	0		9.2.1.62		_	
>>Transport Format Management	М		9.2.3.13		_	
>USCH Information		0			GLOBAL	ignore
Response 7.68 Mcps		<maxnoof USCHs&gt;</maxnoof 				2
>>USCH ID	М	1	9.2.3.14		—	
>>Binding ID	0	1	9.2.1.3		_	
	0	1	9.2.1.62		_	
>>Transport Layer Address	0		5.2.1.02			

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IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Management						
>Neighbouring UMTS Cell Information	0		9.2.1.41A		_	
>Neighbouring GSM Cell Information	0		9.2.1.41C		-	
>Cell GA Additional Shapes	0		9.2.1.5B		—	
>HCS Prio	0		9.2.1.30N		_	
>Time Slot for SCH	C-Case1		Time Slot 9.2.1.56		_	
>Neighbouring E-UTRA Cell Information	0		9.2.1.41De		YES	ignore
E-DCH Information Response	0		E-DCH TDD Information Response 9.2.3.41	3.84Mcps TDD only	YES	ignore
E-DCH Information Response 7.68Mcps	0		E-DCH TDD Information Response 7.68Mcps 9.2.3.52	7.68Mcps TDD only	YES	ignore
E-DCH Information Response 1.28Mcps	0		E-DCH TDD Information Response 1.28Mcps 9.2.3.41a	1.28Mcps TDD only	YES	ignore
Continuous Packet Connectivity DRX Information Response LCR	0		9.2.3.63	1.28 Mcps TDD only	YES	ignore
HS-DSCH Semi-Persistent scheduling Information Response LCR	0		9.2.3.68	1.28 Mcps TDD only	YES	ignore
E-DCH Semi-Persistent scheduling Information Response LCR	0		9.2.3.69	1.28 Mcps TDD only	YES	ignore
E-RNTI for FACH	0		E-RNTI 9.2.1.94	1.28 Mcps TDD only	YES	ignore
H-RNTI for FACH	0		HS-DSCH- RNTI 9.2.1.30P	1.28 Mcps TDD only	YES	ignore
DCH Measurement Occasion Information	0		9.2.3.75	1.28 Mcps TDD only	YES	reject

Condition	Explanation
Case2	The IE shall be present if Sync Case IE is equal to "Case2".
Case1	This IE shall be present if Sync Case IE is equal to "Case1".

Range bound	Explanation
maxnoofDSCHs	Maximum number of DSCHs for one UE for 3.84Mcps TDD or 7.68Mcps TDD.
maxnoofUSCHs	Maximum number of USCHs for one UE for 3.84Mcps TDD or 7.68Mcps TDD.
maxnoofCCTrCHs	Maximum number of CCTrCH for one UE for 3.84Mcps TDD or 7.68Mcps TDD.
maxnoofDSCHsLCR	Maximum number of DSCHs for one UE for 1.28Mcps TDD.
maxnoofUSCHsLCR	Maximum number of USCHs for one UE for 1.28Mcps TDD.
maxnoofCCTrCHsLCR	Maximum number of CCTrCH for one UE for 1.28Mcps TDD.
maxnoofActiveMBMS	Maximum number of MBMS bearer services that are active in parallel.

# 9.1.5 RADIO LINK SETUP FAILURE

## 9.1.5.1 FDD Message

IE/Group Name	Presence	Range	IE Type and	Semantics Description	Criticality	Assigned Criticality
			Reference			
Message Type	M		9.2.1.40		YES	reject
Transaction ID	М		9.2.1.59		_	
D-RNTI	0		9.2.1.24		YES	ignore
CN PS Domain Identifier	0		9.2.1.12		YES	ignore
CN CS Domain Identifier	0		9.2.1.11		YES	ignore
CHOICE Cause Level	М				YES	ignore
>General					_	
>>Cause	М		9.2.1.5		_	
>RL Specific					_	
>>Unsuccessful RL Information Response		1 <maxno ofRLs&gt;</maxno 			EACH	ignore
>>>RL ID	М	UINES>	9.2.1.49			
					-	
>>>Cause	M		9.2.1.5		-	
>>>Max UE DTX Cycle	C-DTX- CycleNotA vailable		9.2.2.87		YES	ignore
>>Successful RL		0 <maxno< td=""><td></td><td></td><td>EACH</td><td>ignore</td></maxno<>			EACH	ignore
Information Response		ofRLs-1>				_
>>>RL ID	Μ		9.2.1.49		_	
>>>RL Set ID	M		9.2.2.35		_	
>>>URA Information	0		9.2.1.70B		_	
>>>SAI	M		9.2.1.52		_	
>>>Cell GAI	0		9.2.1.5A			
>>>UTRAN Access Point	0				_	
Position			9.2.1.70A		_	
>>>Received Total Wide Band Power	Μ		9.2.2.35A		—	
>>>Not Used	0		NULL		—	
>>>DL Code Information	M		FDD DL Code Information 9.2.2.14A		_	
>>>CHOICE Diversity Indication	М		0.2.2.14/		-	
>>>>Combining					—	
>>>>RL ID	М		9.2.1.49	Reference RL ID for the combining	_	
>>>>DCH Information Response	0		9.2.1.16A		YES	ignore
>>>>E-DCH FDD Information Response	0		9.2.2.4C		YES	ignore
>>>Non Combining or First RL					-	
>>>>DCH Information Response	Μ		9.2.1.16A		_	
>>>>E-DCH FDD Information Response	0		9.2.2.4C		YES	ignore
>>>SSDT Support Indicator	Μ		9.2.2.43		-	
>>>Maximum Uplink SIR	М		Uplink SIR 9.2.1.69		-	
>>>Minimum Uplink SIR	Μ		Uplink SIR 9.2.1.69		-	
>>>Closed Loop Timing Adjustment Mode	0		9.2.2.3A		-	
>>>Maximum Allowed UL Tx Power	Μ		9.2.1.35		_	

IE/Group Name	Presence	Range	IE Type and	Semantics Description	Criticality	Assigned Criticality
>>>Maximum DL TX	M		ReferenceDL Power			
Power	IVI		9.2.1.21A		_	
>>>Minimum DL TX Power	М		DL Power 9.2.1.21A		_	
>>>Primary CPICH	М		9.2.1.44		_	
Power >>>Primary Scrambling	0		9.2.1.45			
Code	0		9.2.1.45		_	
>>>UL UARFCN	0		UARFCN 9.2.1.66	Corresponds to Nu in ref. TS 25.104 [6]	_	
>>>DL UARFCN	0		UARFCN 9.2.1.66	Corresponds to Nd in ref. TS 25.104 [6]	-	
>>>Not Used	0		NULL		-	
>>Neighbouring UMTS Cell Information	0		9.2.1.41A		_	
>>>Neighbouring GSM Cell Information	0		9.2.1.41C		_	
>>>PC Preamble	М	1	9.2.2.27a		_	
>>>SRB Delay	М		9.2.2.39A			
>>>Cell GA Additional Shapes	0		9.2.1.5B		YES	ignore
>>DL Power Balancing Activation Indicator	0		9.2.2.10B		YES	ignore
>>>HCS Prio	0		9.2.1.30N		YES	ignore
>>>Primary CPICH Usage For Channel Estimation	0		9.2.2.32A		YES	ignore
>>>Secondary CPICH Information	0		9.2.2.38A		YES	ignore
>>>Active MBMS Bearer Service List		0 <maxno ofActiveM BMS&gt;</maxno 			GLOBAL	ignore
>>>>TMGI	М	-	9.2.1.80		-	
>>>>Transmission Mode	0		9.2.1.81		_	
>>>>Preferred Frequency Layer	0		UARFCN 9.2.1.66		_	
>>>E-DCH RL Set ID	0		RL Set ID 9.2.2.35		YES	ignore
>>>E-DCH FDD DL Control Channel Information	0		9.2.2.4D		YES	ignore
>>>Initial DL DPCH Timing Adjustment	0		DL DPCH Timing Adjustment 9.2.2.9A		YES	ignore
>>>Neighbouring E- UTRA Cell Information	0		9.2.1.41De		YES	ignore
>>> HS-DSCH Preconfiguration Info	0		9.2.2.99		YES	ignore
>>>F-DPCH Slot Format	0		9.2.2.85		YES	ignore
>>>Non-Serving RL Preconfiguration Info	0		9.2.2.125		YES	ignore
>>HS-DSCH-RNTI	0		9.2.1.30P		YES	ignore
>>HS-DSCH Information Response	0		HS-DSCH FDD Information Response 9.2.2.19b		YES	ignore

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
>Continuous Packet Connectivity HS-SCCH less Information Response	0		9.2.2.75		YES	ignore
>>SixtyfourQAM DL Support Indicator	0		9.2.1.123		YES	ignore
>>Additional HS Cell Information Response	0	0 <maxno ofHSDSC H-1&gt;</maxno 		For secondary serving HS- DSCH cell. Max 1 in this 3GPP release.	EACH	ignore
>>>HS-PDSCH RL ID	М		RL ID 9.2.1.49		_	
>>>HS-DSCH-RNTI	М		9.2.1.30P		_	
>>>HS-DSCH FDD Secondary Serving Information Response	M		9.2.2.19ba		-	
>>>SixtyfourQAM DL Support Indicator	0		9.2.1.123		-	
>>Additional E-DCH Cell Information Response		0 <maxno ofEDCH- 1&gt;</maxno 		E-DCH on Secondary uplink frequency – max 1 in this 3GPP release.	EACH	ignore
>>>Additional E-DCH FDD Information Response	М		9.2.2.120		-	
Uplink SIR Target	0		Uplink SIR 9.2.1.69		YES	ignore
Criticality Diagnostics	0		9.2.1.13		YES	ignore

Condition	Explanation
DTX-CycleNotAvailable	The IE shall be present if the Cause IE is set to Continuous Packet
	Connectivity UE DTX Cycle not Available ".

Range bound	Explanation
maxnoofRLs	Maximum number of RLs for one UE.
maxnoofActiveMBMS	Maximum number of MBMS bearer services that are active in parallel.
maxnoofHSDSCH-1	Maximum number of Secondary Serving HS-DSCH cells for one UE.
maxnoofEDCH-1	Maximum number of uplink frequencies -1 for E-DCH for one UE

# 9.1.5.2 TDD Message

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Message Type	М		9.2.1.40		YES	reject
Transaction ID	М		9.2.1.59		_	
CHOICE Cause Level	Μ				YES	ignore
>General					_	
>>Cause	М		9.2.1.5		_	
>RL Specific					_	
>>Unsuccessful RL Information Response		1			YES	ignore
>>>RL ID	М		9.2.1.49		_	
>>>Cause	М		9.2.1.5		_	
>SixtyfourQAM DL Support Indicator	0		9.2.1.123		YES	ignore
Criticality Diagnostics	0		9.2.1.13		YES	ignore

# 9.1.6 RADIO LINK ADDITION REQUEST

## 9.1.6.1 FDD Message

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Message Type	Μ		9.2.1.40		YES	reject
Transaction ID	М		9.2.1.59		_	
Uplink SIR Target	М		Uplink SIR 9.2.1.69		YES	reject
RL Information		1 <maxn oofRLs- 1&gt;</maxn 			EACH	notify
>RL ID	М		9.2.1.49		-	
>C-ID	М		9.2.1.6		_	
>Frame Offset	М		9.2.1.30		_	
>Chip Offset	М		9.2.2.1		-	
>Diversity Control Field	М		9.2.1.20		_	
>Primary CPICH Ec/No	0		9.2.2.32		_	
>Not Used	0		NULL		_	
>Transmit Diversity Indicator	0		9.2.2.48		_	
>DL Reference Power	0		DL Power 9.2.1.21A	Power on DPCH or on F-DPCH	YES	ignore
>Enhanced Primary CPICH Ec/No	0		9.2.2.131		YES	ignore
>RL Specific DCH Information	0		9.2.1.49A		YES	ignore
>Delayed Activation	0		9.2.1.19Aa		YES	reject
>RL specific E-DCH Information	0		9.2.2.35a		YES	reject
>E-DCH RL Indication	0		9.2.2.4E		YES	reject
>Synchronisation Indicator	0		9.2.2.45A		YES	ignore
>HS-DSCH Preconfiguration Setup	0		9.2.2.100		YES	Ignore
>Non-Serving RL Preconfiguration Setup	0		9.2.2.124		YES	Ignore
Active Pattern Sequence Information	0		9.2.2A	Either all the already active Transmissio n Gap Sequence(s) are addressed (Transmissio n Gap Pattern sequence shall overlap with the existing one) or none of the transmission gap sequences is activated.	YES	reject
DPC Mode	0		9.2.2.12A		YES	reject
Permanent NAS UE Identity	0		9.2.1.73		YES	ignore
Serving E-DCH RL	0		9.2.2.38C		YES	reject
Initial DL DPCH Timing Adjustment Allowed	0		9.2.2.21b		YES	ignore
HS-DSCH Serving Cell Change Information	0		9.2.2.19f		YES	reject

Serving Cell Change CFN	0	1	CFN		YES	reject
Serving Cell Change CFN	0		9.2.1.9		TEO	reject
E-DPCH Information		01			YES	reject
>Maximum Set of E- DPDCHs	М		9.2.2.24e		_	
>Puncture Limit	М		9.2.1.46		-	
>E-TFCS Information	М		9.2.2.4G		-	
>E-TTI	Μ		9.2.2.4J		-	
>E-DPCCH Power Offset	M		9.2.2.4K		-	
>E-RGCH 2-Index-Step Threshold	M		9.2.2.64		_	
>E-RGCH 3-Index-Step Threshold	М		9.2.2.65		-	
>HARQ Info for E-DCH	М		9.2.2.66		-	
>HS-DSCH Configured Indicator	М		9.2.2.19C		YES	reject
> Minimum Reduced E- DPDCH Gain Factor	0		9.2.2.102		YES	ignore
E-DCH FDD Information	C- EDCHInfo		9.2.2.4B		YES	reject
Additional HS Cell Information RL Addition		0 <maxn oofHSDS CH-1&gt;</maxn 		For secondary serving HS- DSCH cell. Max 1 in this 3GPP release.	EACH	reject
>HS-PDSCH RL ID	М		RL ID 9.2.1.49		_	
>C-ID	М		9.2.1.6		_	
>HS-DSCH FDD Secondary Serving Information	М		9.2.2.19aa		-	
UE Aggregate Maximum Bit Rate	0		9.2.1.137		YES	ignore
Additional E-DCH Cell Information RL Add Req		01		For E-DCH on multiple frequencies in this DRNS.	YES	reject
>CHOICE Setup Or Addition Of E-DCH On Secondary UL Frequency	М				YES	reject
>> Setup				Used when the secondary UL frequency does not exist or is not configured with E-DCH in the current UE context	_	
>>>Multicell E-DCH Transport Bearer Mode	М		9.2.2.113		-	
>>>Additional E-DCH Cell Information Setup		1 <maxn oofEDCH -1&gt;</maxn 		E-DCH on Secondary uplink frequency – max 1 in this 3GPP release.	_	
>>>Additional E- DCH FDD Setup Information	М		9.2.2.110		_	
>>Addition				Used when	_	

				there exist additional E- DCH RLs in the current UE context		
>>>Additional E-DCH Cell Information Addition		1 <maxn oofEDCH -1&gt;</maxn 		E-DCH on Secondary uplink frequency – max 1 in this 3GPP release.	_	
>>>UL DPCH Information		1			_	
>>>>Uplink SIR Target	М		Uplink SIR 9.2.1.69		_	
>>>>Additional E-DCH RL Specific Information To Add	M		9.2.2.116		-	
>>>>Additional E-DCH FDD Information	0		9.2.2.112		_	
>>>>Multicell E-DCH Information	0		9.2.2.114		YES	ignore

Condition	Explanation					
EDCHInfo	This IE shall be present if E-DPCH Information IE is present.					

Range bound	Explanation
maxnoofRLs	Maximum number of radio links for one UE.
maxnoofHSDSCH-1	Maximum number of Secondary Serving HS-DSCH cells for one UE.
maxnoofEDCH-1	Maximum number of uplink frequencies -1 for E-DCH for one UE

# 9.1.6.2 TDD Message

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Message Type	М		9.2.1.40		YES	reject
Transaction ID	М		9.2.1.59		_	
RL Information		1			YES	reject
>RL ID	Μ		9.2.1.49		_	
>C-ID	М		9.2.1.6		_	
>Frame Offset	М		9.2.1.30		_	
>Diversity Control Field	М		9.2.1.20		_	
>Primary CCPCH RSCP	0		9.2.3.5		_	
>DL Time Slot ISCP Info	0		9.2.3.2D	Applicable to 3.84Mcps TDD and 7.68Mcps TDD only	-	
>DL Time Slot ISCP Info LCR	0		9.2.3.2F	Applicable to 1.28Mcps TDD only	YES	reject
>RL Specific DCH Information	0		9.2.1.49A		YES	ignore
>Delayed Activation	0		9.2.1.19Aa		YES	reject
>UL Synchronisation Parameters LCR		01		Mandatory for 1.28Mcps TDD. Not Applicable to 3.84Mcps TDD or 7.68Mcps TDD.	YES	reject
>>Uplink Synchronisation Step Size	M		9.2.3.13J		_	
>>Uplink Synchronisation Frequency	M		9.2.3.131		_	
> Primary CCPCH RSCP Delta	0		9.2.3.5a		YES	ignore
>Idle Interval Configuration Indicator	0		NULL	TDD only	YES	ignore
Permanent NAS UE Identity	0		9.2.1.73		YES	ignore
UL CCTrCH Information		0< maxno ofCCTr CHs >			EACH	notify
>CCTrCH ID	М		9.2.3.2		-	
>TDD TPC Uplink Step Size	0		9.2.3.10a	Applicable to 1.28Mcps TDD only	-	
DL CCTrCH Information		0< maxno ofCCTr CHs >			EACH	notify
>CCTrCH ID	М		9.2.3.2		_	
>TDD TPC Downlink Step Size	0		9.2.3.10		-	
HS-DSCH Information	0		HS-DSCH TDD Information 9.2.3.3aa		YES	reject
HS-PDSCH RL ID	0		RL ID 9.2.1.49		YES	reject
E-DCH Information		01		3.84Mcps TDD only	YES	reject
>E-PUCH Information	М		9.2.3.36	í í	_	

>E-TFCS Information TDD	М		9.2.3.37		_	
>E-DCH MAC-d Flows	М		9.2.3.38		-	
Information TDD						
>E-DCH TDD Information	М		9.2.3.40		_	
E-DCH Serving RL	0		9.2.1.49	3.84Mcps	YES	reject
_				TDD only		_
E-DCH Information		01		7.68Mcps	YES	reject
7.68Mcps				TDD only		_
>E-PUCH Information	М		9.2.3.36		-	
>E-TFCS Information TDD	М		9.2.3.37		_	
>E-DCH MAC-d Flows	М		9.2.3.38		_	
Information TDD						
>E-DCH TDD Information	М		9.2.3.51		_	
7.68Mcps						
E-DCH Information		01		1.28Mcps	YES	reject
1.28Mcps				TDD only		
>E-PUCH Information LCR	Μ		9.2.3.36a		-	
>E-TFCS Information TDD	М		9.2.3.37			
>E-DCH MAC-d Flows	М		9.2.3.38		-	
Information TDD						
>E-DCH TDD Information	Μ		9.2.3.40a		-	
LCR						
Continuous Packet	0		9.2.3.61	1.28 Mcps	YES	reject
Connectivity DRX				TDD only		
Information LCR						
HS-DSCH Semi-Persistent	0		9.2.3.64	1.28 Mcps	YES	reject
scheduling Information LCR				TDD only		
E-DCH Semi-Persistent	0		9.2.3.66	1.28 Mcps	YES	reject
scheduling Information LCR				TDD only		
DCH Measurement Type	0		9.2.3.76	1.28 Mcps	YES	reject
indicator				TDD only		

Range bound	Explanation
maxnoofCCTrCHs	Maximum number of CCTrCH for one UE.

# 9.1.7 RADIO LINK ADDITION RESPONSE

## 9.1.7.1 FDD Message

Message Type         M         9.2.1.69         YES         reject           RL Information Response         1maxnoof         EACH         ignore           RL ID         M         9.2.1.59         -         -           >RL ID         M         9.2.1.59         -         -           >RL ID         M         9.2.1.59         -         -           >RL Information         O         9.2.1.52         -         -           >SRA Information         O         9.2.1.52         -         -           >SCell GAI         O         9.2.1.52         -         -           >VITRAN Access Point         O         9.2.1.52         -         -           >Not Used         O         9.2.1.54         -         -           >Not Used         O         NULL         -         -           >>DCHOICE Diversity         M         FDD DL         YES         ignore           Information         M         9.2.1.49         Reference         -           >>>DCH Information         M         9.2.1.16A         -         -           >>>DCH Information         M         9.2.1.49         Reference         -           >>>>>>>>D	IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Transaction ID         M         -         9.2.1.59         -	Message Type	M				YES	reject
RL Information Response1maxnoof RLs-7>EACHignore>RL IDM9.2.1.49>RL Set IDM9.2.2.35>URA InformationO9.2.1.52>SAIM9.2.1.52>Cell GAIO9.2.1.5A>DURA InformationO9.2.1.5A>VITRAN Access PointO9.2.1.5APositionPosition>Not UsedONULL>Not UsedONULL>DL Code InformationMFDD DL ScatianYES>CHOICE Diversity IndicationM9.2.1.4A>>>Response>>>DCH InformationO9.2.1.16AYES>>>DCH InformationO9.2.1.16AYES>>>DCH InformationO9.2.1.16AYES>>>DCH InformationO9.2.2.14B>>>DCH InformationO9.2.2.14A>>>DCH InformationO9.2.2.4CYES>>>DCH InformationM9.2.1.6A>>>>>>DCH InformationM9.2.2.14B>>>DCH InformationM9.2.2.14B>>>>>>>>>>>>>>>>>>>>>>>>>>>>>						-	10,000
>RL ID         M         9.21.49         -           >IRL set ID         M         9.2.1.70B         -           >Scall GAI         M         9.2.1.52         -           >Scall GAI         O         9.2.1.5A         -           >Scall GAI         O         9.2.1.5A         -           >DTRAN Access Point Position         9.2.1.5A         -           Position         9.2.1.5A         -           >Not Used         O         9.2.1.5A         -           >Not Used         O         NULL         -           >Not Used         O         NULL         -           >DC Code Information         M         FDD DL Code Information         YES           ScENDCH Information         M         9.2.1.49         Reference           >>>ScENDCH Information         O         9.2.1.16A         YES           sysse-DCH FDD         O         9.2.2.4C         YES         ignore           Information Response         9.2.1.16A         -         -         -           >>>DCH Information         M         9.2.1.16A         -         -         -           >>>>DCH Information         M         9.2.1.69         -         - <t< td=""><td></td><td></td><td></td><td>0.2.1100</td><td></td><td>EACH</td><td>ignore</td></t<>				0.2.1100		EACH	ignore
>RE Set ID         M         9.22.35         -           >SAI         Information         0         9.2.1.70         -           >SAI         M         9.2.1.5A         -         -           >Cell GAI         0         9.2.1.70         -         -           >SUTRAN Access Point         0         9.2.1.70A         -         -           Position         9.2.1.70A         -         -         -           Position         NULL         -         -         -           >Not Used         0         NULL         -         -           >DL Code Information         M         FDD D.         Code         -           >>CHOICE Diversity         M         -         -         -           /indication         9.2.14A         -         -         -           >>>DCH Information         0         9.2.14B         Reference         -           >>>DCH Information Response         0         9.2.14A         YES         ignore           >>>DCH Information Response         9.2.16A         -         -         -           >>>DCH Information Response         9.2.16B         -         -           >>Non Conbining         9	>RL ID	М		9.2.1.49		-	
>URA Information         O         9.2.170B            >SAI         M         9.2.1.70A            >Cell GAI         O         9.2.1.5A            >VITRAN Access Point         O         9.2.1.70A            Position         9.2.2.35A             >Received Total Wide         M         9.2.2.35A            sNot Used         O         NULL            >>CHOKE         O         NULL            >>CHORE         M         FDD DL         YES         ignore           _code         Information         9.2.2.14A             >>CHORE Diversity         M              >>SCHORE Diversity         M         9.2.1.49         Reference            >>>SCHORE DIVERSITION         O         9.2.2.14A         YES         ignore           >>>SCOMbining         -              >>>>DCH Information         Q         9.2.2.4C         YES         ignore           >>>>>>>>DCH Information Response         9.2.2.43          -           >>>>>>>>>	>RL Set ID	М				_	
>SAI         M         9.2.1.52         -           >Cell GAI         O         9.2.1.5A         -           >UTRAN Access Point         O         9.2.1.70A         -           Position         9.2.1.70A         -         -           Preceived Total Wide         M         9.2.2.35A         -           SNot Used         O         NULL         -           >Not Used         O         NULL         -           >DL Code Information         M         FDD DL Code Information         YES         ignore           >>CHOICE Diversity         M         9.2.1.49         Reference         -         -           >>>RL ID         M         9.2.1.49         Reference         -         Ri ID         -           >>>DCH Information         Q         9.2.1.16A         YES         ignore           Information Response         0         9.2.1.16A         -         -           >>>DCH Information         M         9.2.1.49         -         -           >>>DCH PDD         0         9.2.2.4C         YES         ignore           Information Response         0         9.2.2.4C         YES         ignore           Information Response	>URA Information	0		9.2.1.70B		_	
>UTRAN Access Point Position         0         9.2.1.70A         -           >Received Total Wide Band Power         M         9.2.2.35A         -           >Not Used         0         NULL         -           >DL Code Information         M         FDD DL Code Information         YES         ignore           >CHOICE Diversity Indication         M         -         -         -           >>Choice Diversity Indication         M         9.2.1.44         -         -           >>Schull Second Information Response         0         9.2.1.16A         YES         ignore           >>>DCH Information Response         0         9.2.2.4C         YES         ignore           >>>DCH Information Response         0         9.2.2.4C         YES         ignore           >>Non Combining         -         -         -         -           >>>DCH Information Response         9.2.1.16A         -         -           >>Non Combining         -         -         -         -           >>Sbort HEDD         0         9.2.2.4C         YES         ignore           Information Response         -         -         -         -           >>Not Combining         0         9.2.2.43	>SAI	М				_	
>UTRAN Access Point Position         0         9.2.1.70A         -           >Received Total Wide Band Power         M         9.2.2.35A         -           >Not Used         0         NULL         -           >>DL Code Information         M         FDD DL Code Information         YES         ignore           >CHOICE Diversity Indication         M         P2.2.14A         -         -           >>CHOICE Diversity Indication         M         9.2.1.49         Reference Response         -           >>>DCH Information         0         9.2.1.16A         YES         ignore           >>>DCH Information Response         9.2.1.16A         YES         ignore           >>>DCH Information Response         9.2.2.4C         YES         ignore           >>>DCH Information Response         9.2.1.16A         -         -           >>>DCH Information Response         9.2.1.16A         -         -           >>>DCH Information Response         9.2.2.4C         YES         ignore           >>Non Combining         0         9.2.2.43         -         -           >>Non Combining         0         9.2.2.43         -         -           >>Not Combining         0         9.2.1.69         -	>Cell GAI	0		9.2.1.5A		_	
Band Power         O         NULL         -           >Not Used         O         NULL         -           >DL Code Information         M         FDD DL Code Information         YES         ignore           >CHOICE Diversity Indication         M         -         -         -           >>Combining         0         9.2.1.49         Reference RL ID         -         -           >>>COH Information         0         9.2.1.49         Reference RL ID         -         -           >>>DCH Information         0         9.2.1.40         YES         ignore           messponse         0         9.2.1.16A         YES         ignore           >>>both Information Response         0         9.2.2.4C         YES         ignore           >>>both Information Response         9.2.1.16A         -         -         -           >>>both Information Response         9.2.2.43         -         -         -           >>Sbot Support Indicator         M         9.2.2.43         -         -           >Maximum Uplink SIR         M         Uplink SIR         -         -           >Closed Loop Timing Adjustment Mode         9.2.1.69         -         -         - <t< td=""><td>Position</td><td>0</td><td></td><td>9.2.1.70A</td><td></td><td>_</td><td></td></t<>	Position	0		9.2.1.70A		_	
>DL Code Information     M     FDD DL Code Information     YES     ignore       >CHOICE Diversity Indication     M     -     -       >>Combining     -     -       >>Combining     -     -       >>>DCH ID     M     9.2.1.49     Reference RL ID     -       >>>DCH Information Response     0     9.2.1.16A     YES     ignore       >>>E-DCH FDD Information Response     0     9.2.2.4C     YES     ignore       >>Non Combining     -     -     -       >>>>DCH Information Response     0     9.2.2.4C     YES     ignore       >>>>DCH Information Response     0     9.2.2.43     -     -       >>>>DCH Information Response     M     Uplink SIR     -     -       >>SDSD Support Indicator     M     9.2.2.43     -     -       >Maximum Uplink SIR     M     Uplink SIR     -     -       >Maximum Allowed UL Tx Power     M     9.2.1.35     -     -       >Maximum DL TX Power     M     0     9.2.1.41A     -       >Neighbouring UMTS Cell Information     0     9.2.1.41A     -     -       >Maximum DL TX Power     M     0     -     -       >Maximum DL TX Power     M     9.2.2.39A     -<						-	
Code Information         Code Information         Code           >>CHOICE Diversity         M         -         -           ////////////////////////////////////						-	
Indication       -         >>>Combining       -         >>>RL ID       M       9.2.1.49       Reference RL ID       -         >>>DCH Information Response       0       9.2.1.16A       YES       ignore         >>>EDCH Information Response       0       9.2.2.4C       YES       ignore         >>>DCH Information Response       0       9.2.2.4C       YES       ignore         >>>DCH Information Response       M       9.2.1.16A       -       -         >>>DCH Information Response       M       9.2.1.46       -       -         >>>>DCH Information Response       M       9.2.1.48       -       -         >>>>DCH Information Response       9.2.1.69       -       -       -         >Maximum Uplink SIR       M       Uplink SIR       -       -         >Maximum Allowed UL Tx Power       M       9.2.1.35       -       -         >Maximum DL TX Power       M       9.2.1.21A       -       -         >Neighbouring UMTS Cell Information       O       9.2.1.21A       -       -         >Neighbouring UMTS Cell Information       O       9.2.1.21A       -       -         >Neighbouring UMTS Cell Information       O       9.2.1.21A <td></td> <td></td> <td></td> <td>Code Information</td> <td></td> <td>YES</td> <td>ignore</td>				Code Information		YES	ignore
>>>RL IDM9.2.1.49Reference RL ID->>>DCH Information ResponseO9.2.1.16AYESignore>>>E-DCH FDD Information ResponseO9.2.2.4CYESignore>>Non Combining>>>DCH Information ResponseM9.2.1.16A->>>DCH Information ResponseM9.2.1.16A->>>DCH FDD Information ResponseO9.2.2.4CYESignore>>>E-DCH FDD Information ResponseO9.2.2.43->Minimum Uplink SIRMUplink SIR->Maximum Uplink SIRMUplink SIR->Maximum Uplink SIRM9.2.1.69->Closed Loop Timing Adjustment ModeO9.2.1.35->Maximum DL TX PowerMDL Power 9.2.1.21A->Meighbouring UMTS Cell InformationO9.2.1.41A->Neighbouring GSM Cell InformationO9.2.1.41A->PremableM9.2.2.39A>Primary CPICH PowerM9.2.2.39A>Neighbouring GSM Cell InformationO9.2.1.41A->DelayM9.2.2.33A>Primary CPICH PowerM9.2.2.27a->Primary CPICH PowerM9.2.2.27a->DL Power Balancing Activation IndicatorO9.2.1.30NYES>DL Power Balancing Activation IndicatorO9.2.1.30NYES>HCS Prio	Indication	М				_	
>>>DCH Information ResponseO9.2.1.16ARL ID>>>>DCH Information ResponseO9.2.1.16AYESignore>>>Non CombiningO9.2.2.4CYESignore>>>DCH Information ResponseM9.2.1.16A>>>DCH Information ResponseM9.2.2.4CYESignore>>>E-DCH FDDO9.2.2.4CYESignoreInformation Response9.2.2.43>>SbDT Support IndicatorM9.2.2.43->Maximum Uplink SIRMUplink SIR->Maximum Uplink SIRM9.2.1.69->Closed Loop Timing Adjustment ModeO9.2.1.35->Maximum DL TX PowerMDL Power->Maximum DL TX PowerMDL Power->Neighbouring UMTS Cell InformationO9.2.1.41A->Neighbouring GSM Cell InformationO9.2.1.44->Cli GA Additional SRB DelayM9.2.2.39A->DL Power Balancing Adustion IndicatorO9.2.1.44->DL Power BalancingO9.2.1.44->DL Power Balancing Adustion IndicatorO9.2.1.21A->DL Power BalancingO9.2.1.21A->Pro PreambleM9.2.2.23A->Pro PreambleM9.2.2.1.44->Pro PreambleM9.2.2.1.44->Primary CPICH PowerM9.2.1.30YES>DL Power Balancing<						-	
Response       O       9.2.2.4C       YES       ignore         Information Response       9.2.2.4C       YES       ignore         >>>DCH Information Response       M       9.2.1.16A       -         >>>E-DCH FDD       O       9.2.2.4C       YES       ignore         Information Response       0       9.2.2.4C       YES       ignore         >>SE-DCH FDD       O       9.2.2.4C       YES       ignore         Information Response       0       9.2.2.43       -       -         >SSDT Support Indicator       M       9.2.2.43       -       -         >Maximum Uplink SIR       M       Uplink SIR       -       -         9.2.1.69       -       -       -       -         >Closed Loop Timing       O       9.2.1.35       -       -         >Maximum Allowed UL Tx       M       9.2.1.35       -       -         Power       -       9.2.1.21A       -       -         >Maximum DL TX Power       M       DL Power       -       -         >Neighbouring GSM Cell       O       9.2.1.41A       -       -         >Neighbouring GSM Cell       O       9.2.1.44       -       - </td <td>&gt;&gt;&gt;RL ID</td> <td>М</td> <td></td> <td>9.2.1.49</td> <td></td> <td>-</td> <td></td>	>>>RL ID	М		9.2.1.49		-	
Information Response       -       -         >>>DCH Information Response       M       9.2.1.16A       -         >>>E-DCH FDD Information Response       0       9.2.2.4C       YES       ignore         >SSDT Support Indicator       M       9.2.2.43       -       -         >Minimum Uplink SIR       M       Uplink SIR       -       -         >Maximum Uplink SIR       M       Uplink SIR       -       -         >Closed Loop Timing Adjustment Mode       0       9.2.2.3A       -       -         >Maximum DL TX Power       M       9.2.1.35       -       -         >Maximum DL TX Power       M       DL Power       -       -         >Neighbouring UMTS Cell Information       0       9.2.1.41A       -       -         >Neighbouring CSM Cell Information       0       9.2.1.41A       -       -         >Neighbouring CSM Cell Information       0       9.2.1.41C       -       -         >PC Preamble       M       9.2.2.23A       -       -       -         >Neighbouring CMTS Cell       0       9.2.1.41A       -       -       -         >Neighbouring CMTS Cell       0       9.2.1.44       -       -       - <td>Response</td> <td>-</td> <td></td> <td></td> <td></td> <td></td> <td>ignore</td>	Response	-					ignore
>>>DCH Information ResponseM9.2.1.16A->>>E-DCH FDD Information Response09.2.2.4CYESignore>SSDT Support IndicatorM9.2.2.43>Minimum Uplink SIRMUplink SIR>Maximum Uplink SIRMUplink SIR>Closed Loop Timing Adjustment Mode09.2.1.69>Closed Loop Timing Power09.2.1.35>Maximum DL TX PowerMDL Power>Maximum DL TX PowerMDL Power>Neighbouring UMTS Cell Information09.2.1.41A>Neighbouring GSM Cell Information09.2.1.41C>PC PreambleM9.2.2.27a>SRB DelayM9.2.1.44>Celi GA Additional Shapes09.2.1.44>DL Power Balancing Activation Indicator09.2.1.30NYESignore	Information Response	0		9.2.2.4C		YES	ignore
ResponseO9.2.2.4CYESignore>>SE-DCH FDD Information ResponseO9.2.2.43>SSDT Support IndicatorM9.2.2.43>Minimum Uplink SIRMUplink SIR>Maximum Uplink SIRMUplink SIR>Closed Loop Timing Adjustment ModeO9.2.1.69>Closed Loop Timing Adjustment ModeO9.2.1.35>Maximum DL TX PowerMDL Power>Maximum DL TX PowerMDL Power>Minimum DL TX PowerMDL Power>Neighbouring GSM Cell InformationO9.2.1.41A>PC PreambleM9.2.2.39A>PC PreambleM9.2.2.27a>SRB DelayM9.2.2.39A>DL Power9.2.1.41C>PC PreambleM9.2.2.39A->PC PreambleM9.2.2.39A->PC PreambleM9.2.2.39A->PC PreambleM9.2.2.39A->PC PreambleM9.2.1.68YES>DL Power BalancingO9.2.1.58YES>DL Power BalancingO9.2.1.30NYES>HCS PrioO9.2.1.30NYES						-	
Information ResponseM9.2.2.43->SSDT Support IndicatorM9.2.2.43->Minimum Uplink SIRMUplink SIR-9.2.1.699.2.1.69->Closed Loop Timing Adjustment Mode09.2.2.3A->Closed Loop Timing Adjustment Mode09.2.1.35->Maximum Allowed UL Tx PowerM9.2.1.35->Maximum DL TX PowerMDL Power 9.2.1.21A->Minimum DL TX PowerMDL Power 9.2.1.21A->Neighbouring UMTS Cell Information09.2.1.41A->Neighbouring GSM Cell Information09.2.1.41C->PC PreambleM9.2.2.27a->PC PreambleM9.2.2.39A->Primary CPICH PowerM9.2.1.44->Cell GA Additional ShapesO9.2.1.5BYES>DL Power Balancing ShapesO9.2.1.30NYES>HCS PrioO9.2.1.30NYES	Response					-	
>Minimum Uplink SIRMUplink SIR 9.2.1.69->Maximum Uplink SIRMUplink SIR 9.2.1.69->Closed Loop Timing Adjustment ModeO9.2.2.3A->Maximum Allowed UL Tx PowerM9.2.1.35->Maximum DL TX PowerMDL Power 9.2.1.21A->Minimum DL TX PowerMDL Power 9.2.1.21A->Minimum DL TX PowerMDL Power 9.2.1.21A->Neighbouring UMTS Cell InformationO9.2.1.41A->Neighbouring GSM Cell InformationO9.2.1.41C->PC PreambleM9.2.2.27a->Cell GA Additional ShapesO9.2.1.44->Cell GA Additional ShapesO9.2.1.0BYES>DL Power Salancing AdditionalO9.2.1.30NYES>HCS PrioO9.2.1.30NYESignore	Information Response	_				YES	ignore
Maximum Uplink SIRMUplink SIR->Closed Loop Timing Adjustment ModeO9.2.1.69->Maximum Allowed UL Tx PowerM9.2.1.35->Maximum DL TX PowerMDL Power->Maximum DL TX PowerMDL Power->Minimum DL TX PowerMDL Power->Neighbouring UMTS Cell InformationO9.2.1.41A->Neighbouring GSM Cell 						-	
Sclosed Loop Timing Adjustment ModeO9.2.1.69->Maximum Allowed UL Tx PowerM9.2.1.35->Maximum DL TX PowerMDL Power->Maximum DL TX PowerMDL Power->Minimum DL TX PowerMDL Power->Neighbouring UMTS Cell InformationO9.2.1.41A->Neighbouring GSM Cell InformationO9.2.1.41C->PC PreambleM9.2.2.27a->SRB DelayM9.2.1.444->Primary CPICH PowerM9.2.1.444->Cell GA Additional ShapesO9.2.1.6BYES>DL Power Balancing >HCS PrioO9.2.2.10BYESSHCS PrioO9.2.1.30NYES	·			9.2.1.69		-	
Adjustment ModeImage: Constraint of the second				9.2.1.69		_	
PowerImage: constraint of the second sec	Adjustment Mode					_	
Minimum DL TX PowerMDL Power->Neighbouring UMTS Cell InformationO9.2.1.21A->Neighbouring GSM Cell InformationO9.2.1.41A->Neighbouring GSM Cell InformationO9.2.1.41C->PC PreambleM9.2.2.27a->PC PreambleM9.2.2.39A->Primary CPICH PowerM9.2.1.444->Cell GA Additional ShapesO9.2.1.5BYES>DL Power Balancing Activation IndicatorO9.2.1.30NYES	Power					-	
Neighbouring UMTS Cell InformationO9.2.1.21A->Neighbouring GSM Cell InformationO9.2.1.41C->PC PreambleM9.2.2.27a->PC PreambleM9.2.2.39A->Primary CPICH PowerM9.2.1.444->Cell GA Additional ShapesO9.2.1.5BYES>DL Power Balancing Activation IndicatorO9.2.2.30NYES>HCS PrioO9.2.1.30NYES				9.2.1.21A		-	
InformationO9.2.1.41C->Neighbouring GSM Cell InformationO9.2.1.41C->PC PreambleM9.2.2.27a->SRB DelayM9.2.2.39A->Primary CPICH PowerM9.2.1.44->Cell GA Additional ShapesO9.2.1.5BYES>DL Power Balancing Activation IndicatorO9.2.2.10BYES>HCS PrioO9.2.1.30NYESignore				9.2.1.21A		-	
InformationM9.2.2.27a->PC PreambleM9.2.2.39A->SRB DelayM9.2.2.39A->Primary CPICH PowerM9.2.1.44->Cell GA AdditionalO9.2.1.5BYESShapes>DL Power Balancing Activation IndicatorO9.2.1.30NYES>HCS PrioO9.2.1.30NYES	Information					_	
>SRB DelayM9.2.2.39A->Primary CPICH PowerM9.2.1.44->Cell GA AdditionalO9.2.1.5BYESShapes9.2.2.10BYESignore>DL Power Balancing Activation IndicatorO9.2.1.30NYES>HCS PrioO9.2.1.30NYES	Information	-				_	
>Primary CPICH Power       M       9.2.1.44       -         >Cell GA Additional       O       9.2.1.5B       YES       ignore         Shapes       >DL Power Balancing       O       9.2.2.10B       YES       ignore         >DL Power Balancing       O       9.2.1.30N       YES       ignore         >HCS Prio       O       9.2.1.30N       YES       ignore							
>Cell GA Additional ShapesO9.2.1.5BYESignore>DL Power Balancing Activation IndicatorO9.2.2.10BYESignore>HCS PrioO9.2.1.30NYESignore							
ShapesImage: Constraint of the state of the s						-	
Activation Indicator       9.2.1.30N       YES       ignore	Shapes	_					
	Activation Indicator						
>Active MBMS Bearer 0 <maxnoof global="" ignore<="" td=""><td>&gt;HCS Prio &gt;Active MBMS Bearer</td><td>0</td><td></td><td>9.2.1.30N</td><td></td><td>YES GLOBAL</td><td>ignore ignore</td></maxnoof>	>HCS Prio >Active MBMS Bearer	0		9.2.1.30N		YES GLOBAL	ignore ignore

IE/Group Name	Presence	Range	IE Type	Semantics	Criticality	Assigned
			and Reference	Description		Criticality
Service List		ActiveMBM S>				
>>TMGI	Μ		9.2.1.80		_	
>>Transmission Mode	0		9.2.1.81		-	
>>Preferred Frequency	0		UARFCN		-	
Layer			9.2.1.66			
>E-DCH RL Set ID	0		RL Set ID 9.2.2.35		YES	ignore
>E-DCH FDD DL Control Channel Information	0		9.2.2.4D		YES	ignore
>Initial DL DPCH Timing Adjustment	0		DL DPCH Timing Adjustment		YES	ignore
. E DDCH Slot Format	0		9.2.2.9.A		VES	ianoro
>F-DPCH Slot Format	0		9.2.2.85		YES YES	ignore
>Neighbouring E-UTRA Cell Information	-		9.2.1.41De			ignore
>HS-DSCH Preconfiguration Info	0		9.2.2.99		YES	ignore
>Non-Serving RL Preconfiguration Info	0		9.2.2.125		YES	ignore
Criticality Diagnostics	0		9.2.1.13		YES	ignore
HS-DSCH Serving Cell Change Information Response	0		9.2.2.19g		YES	ignore
E-DCH Serving Cell Change Information Response	0		9.2.2.19h		YES	ignore
MAC-hs Reset Indicator	0		9.2.1.34B		YES	ignore
Additional HS Cell Change Information Response		0 <maxnoof HSDSCH-1&gt;</maxnoof 		For secondary serving HS- DSCH cell. Max 1 in this 3GPP release.	EACH	ignore
>HS-PDSCH RL ID	М		RL ID 9.2.1.49		_	
>HS-DSCH Secondary Serving Cell Change Information Response	М		9.2.2.19ga		-	
Additional E-DCH Cell Information Response RL Add		0 <maxnoof EDCH-1&gt;</maxnoof 		E-DCH on Secondary uplink frequency – max 1 in this 3GPP release.	EACH	ignore
>Additional E-DCH FDD Information Response	0		9.2.2.120		-	
<ul> <li>Additional E-DCH Serving Cell Change Information response</li> </ul>	0		E-DCH Serving Cell Change Information Response 9.2.2.19h		_	

Range bound	Explanation
maxnoofRLs	Maximum number of radio links for one UE.
maxnoofActiveMBMS	Maximum number of MBMS bearer services that are active in parallel.
maxnoofHSDSCH-1	Maximum number of Secondary Serving HS-DSCH cells for one UE.
maxnoofEDCH-1	Maximum number of uplink frequencies -1 for E-DCH for one UE

# 9.1.7.2 TDD Message

IE/Group Name	Presence	Range	IE Type and	Semantics Description	Criticality	Assigned Criticality
Maaaaaa			Reference		VEC	reie et
Message Type Transaction ID	M		9.2.1.40		YES	reject
RL Information Response	IVI	0.1	9.2.1.59	Man datam.	YES	
		01		Mandatory for 3.84Mcps TDD, not applicable to 1.28Mcps TDD or 7.68Mcps TDD		ignore
>RL ID	M		9.2.1.49		_	
>URA Information	0		9.2.1.70B		_	
>SAI	М		9.2.1.52		—	
>Cell GAI	0		9.2.1.5A		_	
>UTRAN Access Point Position	0		9.2.1.70A		-	
>UL Time Slot ISCP Info	Μ		9.2.3.13D		_	
>Minimum Uplink SIR	М		Uplink SIR 9.2.1.69		-	
>Maximum Uplink SIR	М		Uplink SIR 9.2.1.69		_	
>Maximum Allowed UL Tx Power	М		9.2.1.35		_	
>Maximum DL TX Power	М		DL Power 9.2.1.21A		-	
>Minimum DL TX Power	М		DL Power 9.2.1.21A		-	
>PCCPCH Power	M		9.2.1.43		_	
>Timing Advance Applied	M		9.2.3.12A			
>Alpha Value	M		9.2.3.a		_	
>UL PhysCH SF Variation	M		9.2.3.13B			
>Synchronisation Configuration	M		9.2.3.7E		_	
>Secondary CCPCH Info TDD	0		9.2.3.7B		_	
>UL CCTrCH Information		0 <maxnoof CCTrCHs&gt;</maxnoof 		For DCH	GLOBAL	ignore
>>CCTrCH ID	М		9.2.3.2		_	
>>UL DPCH		01			YES	ignore
Information						.9
>>>Repetition Period	М		9.2.3.7		_	
>>>Repetition Length	М		9.2.3.6		_	
>>>TDD DPCH Offset	М		9.2.3.8A		_	
>>>UL Timeslot Information	М		9.2.3.13C		_	
>DL CCTrCH Information		0 <maxnoof CCTrCHs&gt;</maxnoof 		For DCH	GLOBAL	ignore
>>CCTrCH ID	М		9.2.3.2		_	
>>DL DPCH Information		01	0.2.0.2		YES	ignore
>>>Repetition Period	Μ		9.2.3.7		_	
>>>Repetition Length	M		9.2.3.7			
>>>TDD DPCH Offset	M		9.2.3.8A			
>>>DL Timeslot	M		9.2.3.8A 9.2.3.2C		-	
Information			0.2.0.20			
>>CCTrCH Maximum DL TX Power	0		DL Power 9.2.1.21A	Maximum allowed power on DPCH	YES	ignore
>>CCTrCH Minimum DL	0		DL Power	Minimum	YES	ignore
TX Power	-		9.2.1.21A	allowed		

IE/Group Name	Presence	Range	IE Type and	Semantics Description	Criticality	Assigned Criticality
			Reference	power on		
				DPCH		
>DCH Information		01			_	
>>CHOICE Diversity Indication	М				-	
>>>Combining			0.0.4.40	5.	_	
>>>>RL ID	М		9.2.1.49	Reference RL	-	
>>>>DCH Information Response	0		9.2.1.16A		YES	ignore
>>>Non Combining					_	
>>>>DCH Information Response	М		9.2.1.16A		_	
>DSCH Information		0			GLOBAL	ignore
Response		<maxnoof DSCHs&gt;</maxnoof 				·ge
>>DSCH ID	М		9.2.3.3ae		-	
>>Transport Format Management	M		9.2.3.13		_	
>>DSCH Flow Control Information	М		9.2.3.3ag		-	
>>CHOICE Diversity Indication	0				_	
>>>Non Combining					_	
>>>>Binding ID	0		9.2.1.3		_	
>>>>Transport Layer Address	0		9.2.1.62		-	
>USCH Information Response		0 <maxnoof USCHs&gt;</maxnoof 			GLOBAL	ignore
>>USCH ID	М		9.2.3.14		_	
>>Transport Format Management	М		9.2.3.13		-	
>>CHOICE Diversity Indication	0				-	
>>>Non Combining					_	
>>>>Binding ID	0		9.2.1.3		_	
>>>>Transport Layer Address	0		9.2.1.62		_	
>Neighbouring UMTS Cell Information	0		9.2.1.41A		_	
>Neighbouring GSM Cell Information	0		9.2.1.41C		_	
>Cell GA Additional Shapes	0		9.2.1.5B		YES	ignore
>HCS Prio	0		9.2.1.30N		YES	ignore
>Neighbouring E-UTRA Cell Information	0		9.2.1.41De		YES	ignore
Criticality Diagnostics	0	1	9.2.1.13		YES	ignore
RL Information Response LCR		01	0.2.1110	Mandatory for 1.28Mcps TDD, not applicable to 3.84Mcps	YES	ignore
				TDD or 7.68Mcps TDD		
>RL ID	M		9.2.1.49		_	
>URA Information >SAI	M	+	9.2.1.70B 9.2.1.52			
>Cell GAI	0	+	9.2.1.52 9.2.1.5A		_	
>UTRAN Access Point	0	1	9.2.1.70A			

IE/Group Name	Presence	Range	IE Type and	Semantics Description	Criticality	Assigned Criticality
			Reference	•		-
Position						
>UL Time Slot ISCP Info LCR	М		9.2.3.13H		-	
>Maximum Uplink SIR	М		Uplink SIR 9.2.1.69		_	
>Minimum Uplink SIR	М		Uplink SIR 9.2.1.69		-	
>PCCPCH Power	М		9.2.1.43		_	
>Maximum Allowed UL Tx Power	M		9.2.1.35		_	
>Maximum DL TX Power	М		DL Power 9.2.1.21A		_	
>Minimum DL TX Power	М		DL Power 9.2.1.21A		_	
>Alpha Value	м		9.2.3.a			
>UL PhysCH SF Variation	M		9.2.3.13B		_	
>Synchronisation	M		9.2.3.7E			
Configuration						
>Secondary CCPCH Info TDD LCR	0		9.2.3.7F		-	
>UL CCTrCH Information LCR		0 <maxnoof CCTrCHsLC R&gt;</maxnoof 		For DCH	GLOBAL	ignore
>>CCTrCH ID	М		9.2.3.2	l I	-	
>>UL DPCH Information LCR		01			YES	ignore
>>>Repetition Period	М		9.2.3.7		_	
>>>Repetition Length	M		9.2.3.6		_	
>>>TDD DPCH Offset	M		9.2.3.8A		_	
>>>UL Timeslot Information LCR	M		9.2.3.13G		_	
>DL CCTrCH Information LCR		0 <maxnoof CCTrCHsLC R&gt;</maxnoof 		For DCH	GLOBAL	ignore
>>CCTrCH ID	Μ	K>	9.2.3.2			
>>DL DPCH Information LCR		01	9.2.3.2		YES	ignore
>>>Repetition Period	M		9.2.3.7			
>>>Repetition Length			9.2.3.7		_	
>>>TDD DPCH Offset	M		9.2.3.6 9.2.3.8A		_	
>>>DL Timeslot Information LCR	M		9.2.3.2E		_	
>>>TSTD Indicator	Μ		9.2.3.13E		_	
>DCH Information	M		9.2.3.13E 9.2.1.16A		_	
Response >DSCH Information Response LCR		0 <maxnoof DSCHsLCR</maxnoof 			GLOBAL	ignore
>>DSCH ID	Μ	>	9.2.3.3ae		<u> </u>	
>>DSCH Flow Control	M		9.2.3.3ae 9.2.3.3ag		-	
Information			0.0.1.0			
>>Binding ID	0		9.2.1.3		-	
>>Transport Layer Address	0		9.2.1.62		_	
>>Transport Format Management	М		9.2.3.13		-	
>USCH Information Response LCR		0 <maxnoof USCHsLCR</maxnoof 			GLOBAL	ignore
	M	>	0.0.0.4.4			
>>USCH ID	M		9.2.3.14 9.2.3.13		_	<u> </u>
>>Transport Format Management			9.2.3.13		_	

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
>>CHOICE Diversity Indication	0				_	
>>>Non Combining					-	
>>>>Binding ID	0		9.2.1.3		-	
>>>>Transport Layer Address	0		9.2.1.62		-	
>Neighbouring UMTS Cell Information	0		9.2.1.41A		_	
>Neighbouring GSM Cell Information	0		9.2.1.41C		_	
>Cell GA Additional Shapes	0		9.2.1.5B		YES	ignore
>HCS Prio	0		9.2.1.30N		YES	ignore
>Uplink Timing Advance Control LCR	M		9.2.3.13K		YES	ignore
>PowerControl GAP	0		INTEGER (1255)	Unit: number of subframes. Applicable to 1.28Mcps TDD only	YES	
>UARFCN	0		9.2.1.66	Applicable to 1.28Mcps TDD only. Mandatory for 1.28Mcps TDD when using multiple frequencies. Corresponds to Nt □3GPP TS 25.105 □.	YES	ignore
>Neighbouring E-UTRA Cell Information	0		9.2.1.41De		YES	ignore
>Idle Interval Information	0		9.2.3.60	TDD only	YES	ignore
RL Information Response 7.68Mcps		01		Mandatory for 7.68Mcps TDD, not applicable to 1.28Mcps TDD or 3.84Mcps TDD	YES	ignore
>RL ID	М		9.2.1.49		_	
>URA Information	0		9.2.1.70B		-	
>SAI	M		9.2.1.52		_	
>Cell GAI >UTRAN Access Point	0		9.2.1.5A 9.2.1.70A		_	
Position			0.0.0.405			
>UL Time Slot ISCP Info	M		9.2.3.13D		_	
>Minimum Uplink SIR	M		Uplink SIR 9.2.1.69		_	
>Maximum Uplink SIR	M		Uplink SIR 9.2.1.69		-	
>Maximum Allowed UL Tx Power	М		9.2.1.35		_	
>Maximum DL TX Power	М		DL Power 9.2.1.21A		_	
>Minimum DL TX Power	М		DL Power 9.2.1.21A		_	
>PCCPCH Power	М		9.2.1.43		-	
>Timing Advance Applied	М		9.2.3.12A		_	
>Alpha Value	Μ		9.2.3.a		—	

IE/Group Name	Presence	Range	IE Type	Semantics	Criticality	Assigned
			and	Description		Criticality
			Reference			
>UL PhysCH SF Variation	M		9.2.3.13B		_	
>Synchronisation Configuration	IVI		9.2.3.7E		_	
>Secondary CCPCH Info	0		9.2.3.22			
7.68Mcps TDD	0		9.2.3.22		_	
>UL CCTrCH Information		0 <maxnoof< td=""><td></td><td>For DCH</td><td>GLOBAL</td><td>ignore</td></maxnoof<>		For DCH	GLOBAL	ignore
7.68 Mcps		CCTrCHs>		1012011	OLOBAL	ignore
>>CCTrCH ID	М		9.2.3.2		_	
>>UL DPCH		01			YES	ignore
Information 7.68 Mcps						U
>>>Repetition Period	Μ		9.2.3.7		_	
>>>Repetition Length	М		9.2.3.6		_	
>>>TDD DPCH Offset	М		9.2.3.8A		_	
>>>UL Timeslot	Μ		9.2.3.26		-	
Information 7.68Mcps						
>DL CCTrCH Information		0 <maxnoof< td=""><td></td><td>For DCH</td><td>GLOBAL</td><td>ignore</td></maxnoof<>		For DCH	GLOBAL	ignore
7.68 Mcps		CCTrCHs>				
>>CCTrCH ID	М		9.2.3.2		-	
>>DL DPCH		01			YES	ignore
Information 7.68 Mcps	NA		0.2.2.7			
>>>Repetition Period	M		9.2.3.7 9.2.3.6		_	
>>>Repetition Length >>>TDD DPCH Offset	M		9.2.3.6 9.2.3.8A		_	
>>>DL Timeslot	M		9.2.3.8A 9.2.3.28		_	
Information 7.68Mcps	IVI		9.2.3.20		_	
>>CCTrCH Maximum DL	0		DL Power	Maximum	_	
TX Power	0		9.2.1.21A	allowed	_	
			0.2.1.21/	power on		
				DPCH		
>>CCTrCH Minimum DL	0		DL Power	Minimum	_	
TX Power			9.2.1.21A	allowed		
				power on		
				DPCH		
>DCH Information		01			-	
>>CHOICE Diversity	Μ				-	
Indication						
>>>Combining				5.	_	
>>>>RL ID	М		9.2.1.49	Reference	-	
DOLL	0		0.0.4.404	RL	VEC	innere
>>>DCH Information	0		9.2.1.16A		YES	ignore
Response						
>>>Non Combining					_	
>>>DCH	М		9.2.1.16A		_	
Information			0			
Response						
>DSCH Information		0			GLOBAL	ignore
Response 7.68 Mcps		<maxnoof< td=""><td> </td><td></td><td></td><td>Ŭ</td></maxnoof<>				Ŭ
		DSCHs>	L			
>>DSCH ID	М		9.2.3.3ae		-	
>>Transport Format	М		9.2.3.13		-	
Management						
>>DSCH Flow Control	М		9.2.3.3ag		-	
Information						
>>CHOICE Diversity	0				-	
Indication			<u> </u>			
>>>Non Combining	0		0212			
>>>Binding ID >>>>Transport	0		9.2.1.3 9.2.1.62			
Layer Address			5.2.1.02		_	
>USCH Information		0			GLOBAL	ignore
		<pre></pre>			GLUBAL	ignore
Response 7 68 Mons				1		
Response 7.68 Mcps		USCHs>				

IE/Group Name	Presence	Range	IE Type and	Semantics Description	Criticality	Assigned Criticality
			Reference	-		-
>>Transport Format	М		9.2.3.13		-	
Management	-					
>>CHOICE Diversity	0				_	
Indication						
>>>Non Combining					_	
>>>>Binding ID	0		9.2.1.3		_	
>>>>Transport	0		9.2.1.62		_	
Layer Address >Neighbouring UMTS Cell	0		9.2.1.41A			
Information					_	
>Neighbouring GSM Cell Information	0		9.2.1.41C		—	
>Cell GA Additional	0		9.2.1.5B		_	
Shapes	-					
>HCS Prio	0		9.2.1.30N		-	
>Neighbouring E-UTRA Cell Information	0		9.2.1.41De		YES	ignore
Active MBMS Bearer		0 <maxnoof< td=""><td></td><td></td><td>GLOBAL</td><td>ignore</td></maxnoof<>			GLOBAL	ignore
Service List		ActiveMBM S>				
>TMGI	Μ		9.2.1.80		-	
>Transmission Mode	0		9.2.1.81		_	
>Preferred Frequency	0		UARFCN		_	
Layer			9.2.1.66			
HS-DSCH Information	0		HS-DSCH		YES	ignore
Response			TDD			
			Information			
			Response			
	-		9.2.3.3ab			
HS-DSCH-RNTI	0		9.2.1.30P	0.044	YES	ignore
E-DCH Information	0		E-DCH	3.84Mcps	YES	ignore
Response			TDD	TDD only		
			Information			
			Response 9.2.3.41			
E-DCH Information	0		9.2.3.41 E-DCH	7.68Mcps	YES	ignoro
Response 7.68Mcps	0		TDD	TDD only	TES	ignore
			Information	100 only		
			Response			
			7.68Mcps			
			9.2.3.52			
E-DCH Information	0		E-DCH	1.28Mcps	YES	ignore
Response 1.28Mcps	-		TDD	TDD only		-g.rere
			Information	. ,		
			Response			
			1.28Mcps			
			9.2.3.41a			
Continuous Packet	0		9.2.3.63	1.28 Mcps	YES	ignore
Connectivity DRX				TDD only		
Information Response LCR						
HS-DSCH Semi-Persistent	0		9.2.3.68	1.28 Mcps	YES	ignore
scheduling Information				TDD only		
Response LCR						
E-DCH Semi-Persistent	0		9.2.3.69	1.28 Mcps	YES	ignore
scheduling Information				TDD only		
Response LCR						
DCH Measurement Occasion	0		9.2.3.75	1.28 Mcps	YES	reject
Information	1	1	1	TDD only		1

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Range Bound	Explanation
maxnoofDSCHs	Maximum number of DSCHs for one UE for 3.84Mcps TDD.
maxnoofUSCHs	Maximum number of USCHs for one UE for 3.84Mcps TDD.
maxnoofCCTrCHs	Maximum number of CCTrCHs for one UE for 3.84Mcps TDD.
maxnoofDSCHsLCR	Maximum number of DSCHs for one UE for 1.28Mcps TDD.
maxnoofUSCHsLCR	Maximum number of USCHs for one UE for 1.28Mcps TDD.
maxnoofCCTrCHsLCR	Maximum number of CCTrCH for one UE for 1.28Mcps TDD.
maxnoofActiveMBMS	Maximum number of MBMS bearer services that are active in
	parallel.

# 9.1.8 RADIO LINK ADDITION FAILURE

### 9.1.8.1 FDD Message

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Message Type	М		9.2.1.40		YES	reject
Transaction ID	М		9.2.1.59		_	-
CHOICE Cause Level	М				YES	ignore
>General					_	
>>Cause	М		9.2.1.5		—	
>RL Specific					-	
>>Unsuccessful RL Information Response		1 <maxnoof RLs-1&gt;</maxnoof 			EACH	ignore
>>>RL ID	М		9.2.1.49		-	
>>>Cause	М		9.2.1.5		—	
>>Successful RL Information Response		0 <maxnoof RLs-2&gt;</maxnoof 			EACH	ignore
>>>RL ID	М		9.2.1.49		-	
>>>RL Set ID	Μ		9.2.2.35		-	
>>>URA Information	0		9.2.1.70B		-	
>>>SAI	М		9.2.1.52		-	
>>>Cell GAI	0		9.2.1.5A		-	
>>>UTRAN Access Point Position	0		9.2.1.70A		_	
>>>Received Total Wide Band Power	М		9.2.2.35A		_	
>>>Not Used	0	T	NULL		-	
>>>DL Code	М		FDD DL		YES	ignore
Information			Code Information 9.2.2.14A			0
>>>CHOICE Diversity Indication	М				_	
>>>Combining					_	
>>>>RL ID	М		9.2.1.49	Reference RL ID	_	
>>>>DCH Information Response	0		9.2.1.16A		YES	ignore
>>>>E-DCH FDD Information Response	0		9.2.2.4C		YES	ignore
>>>>Non Combining					_	
>>>>DCH Information Response	M		9.2.1.16A		_	
>>>>E-DCH FDD Information Response	0		9.2.2.4C		YES	ignore
>>>SSDT Support Indicator	М		9.2.2.43		_	
>>>Minimum Uplink SIR	М		Uplink SIR 9.2.1.69		_	
>>>Maximum Uplink SIR	М		Uplink SIR 9.2.1.69		_	
>>>Closed Loop Timing Adjustment Mode	0		9.2.2.3A		_	
>>>Maximum Allowed UL Tx Power	М		9.2.1.35		_	
>>>Maximum DL TX Power	М		DL Power 9.2.1.21A		_	
>>>Minimum DL TX Power	М		DL Power 9.2.1.21A		_	

IE/Group Name	Presence	Range	IE Type and	Semantics Description	Criticality	Assigned Criticality
>>>Neighbouring	0		<b>Reference</b> 9.2.1.41A			
UMTS Cell Information	0		9.2.1.41A		_	
>>>Neighbouring GSM Cell Information	0		9.2.1.41C		Ι	
>>>Primary CPICH Power	М		9.2.1.44		-	
>>>PC Preamble	М		9.2.2.27a		_	
>>>SRB Delay	M		9.2.2.39A		-	
>>>Cell GA Additional Shapes	0		9.2.1.5B		YES	ignore
>>>DL Power Balancing Activation Indicator	0		9.2.2.10B		YES	ignore
>>>HCS Prio	0		9.2.1.30N		YES	ignore
>>>Active MBMS Bearer Service List		0 <maxnoof ActiveMBM S&gt;</maxnoof 			GLOBAL	ignore
>>>>TMGI	М		9.2.1.80		-	
>>>>Transmission Mode	0		9.2.1.81		-	
>>>>Preferred Frequency Layer	0		UARFCN 9.2.1.66		_	
>>>E-DCH RL Set ID	0		RL Set ID 9.2.2.35		YES	ignore
>>>E-DCH FDD DL Control Channel Information	0		9.2.2.4D		YES	ignore
>>>Initial DL DPCH Timing Adjustment	0		DL DPCH Timing Adjustment 9.2.2.9.A		YES	ignore
>>>Neighbouring E- UTRA Cell Information	0		9.2.1.41De		YES	ignore
>>>HS-DSCH Preconfiguration Info	0		9.2.2.99		YES	ignore
>>>F-DPCH Slot Format	0		9.2.2.85		YES	ignore
>>>Non-Serving RL Preconfiguration Info	0		9.2.2.125		YES	ignore
Criticality Diagnostics	0		9.2.1.13		YES	ignore
HS-DSCH Serving Cell Change Information Response	0		9.2.2.19g		YES	Ignore
E-DCH Serving Cell Change Information Response	0		9.2.2.19h		YES	Ignore
Additional HS Cell Change Information Response		0 <maxnoof HSDSCH-1&gt;</maxnoof 		For secondary serving HS- DSCH cell. Max 1 in this 3GPP release.	EACH	Ignore
>HS-PDSCH RL ID	М		RL ID 9.2.1.49		-	
>HS-DSCH Secondary Serving Cell Change Information Response	М		9.2.2.19ga		-	
MAC-hs Reset Indicator	0		9.2.1.34B		YES	ignore
Additional E-DCH Cell	1	0 <maxnoof< td=""><td></td><td>E-DCH on</td><td>EACH</td><td>ignore</td></maxnoof<>		E-DCH on	EACH	ignore
Information Response RL Add		EDCH-1>		Secondary uplink frequency – max 1 in this 3GPP		

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
				release.		
>Additional E-DCH FDD Information Response	0		9.2.2.120		_	
>Additional E-DCH Serving Cell Change Information response	0		E-DCH Serving Cell Change Information Response 9.2.2.19h		_	

Range bound	Explanation
maxnoofRLs	Maximum number of radio links for one UE.
maxnoofActiveMBMS	Maximum number of MBMS bearer services that are active in parallel.
maxnoofHSDSCH-1	Maximum number of Secondary Serving HS-DSCH cells for one UE.
maxnoofEDCH-1	Maximum number of uplink frequencies -1 for E-DCH for one UE

### 9.1.8.2 TDD Message

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Message Type	М		9.2.1.40		YES	reject
Transaction ID	М		9.2.1.59		—	
CHOICE Cause Level	Μ				YES	ignore
>General					-	
>>Cause	Μ		9.2.1.5		-	
>RL Specific					-	
>>Unsuccessful RL Information Response		1			YES	ignore
>>>RL ID	М		9.2.1.49		_	
>>>Cause	М		9.2.1.5		_	
Criticality Diagnostics	0		9.2.1.13		YES	ignore

## 9.1.9 RADIO LINK DELETION REQUEST

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Message Type	М		9.2.1.40		YES	reject
Transaction ID	М		9.2.1.59		-	
RL Information		1 <maxno ofRLs&gt;</maxno 			EACH	notify
>RL ID	М		9.2.1.49		-	

Range bound	Explanation
maxnoofRLs	Maximum number of radio links for one UE

## 9.1.10 RADIO LINK DELETION RESPONSE

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Message Type	М		9.2.1.40		YES	reject
Transaction ID	М		9.2.1.59		-	
Criticality Diagnostics	0		9.2.1.13		YES	ignore

# 9.1.11 RADIO LINK RECONFIGURATION PREPARE

### 9.1.11.1 FDD Message

IE/Group Name	Presence	Range	IE Type and	Semantics Description	Criticality	Assigned Criticality
Magaga Turpa	Μ		<b>Reference</b> 9.2.1.40		YES	raiaat
Message Type Transaction ID	M		9.2.1.40		TES	reject
Allowed Queuing Time	0		9.2.1.59		YES	reject
UL DPCH Information		01	5.2.1.2		YES	reject
>UL Scrambling Code	0	01	9.2.2.53		-	Tejeci
>UL SIR Target	0		Uplink SIR			
	_		9.2.1.69			
>Min UL Channelisation Code Length	0		9.2.2.25		-	
>Max Number of UL DPDCHs	C – CodeLen		9.2.2.24		_	
>Puncture Limit	0		9.2.1.46	For the UL.	_	
>TFCS	0		9.2.1.63	TFCS for the UL.	-	
>UL DPCCH Slot Format	0		9.2.2.52		_	
>Diversity Mode	0		9.2.2.8		_	
>Not Used	0		NULL		_	
>Not Used	0		NULL		_	
>UL DPDCH Indicator For E-DCH Operation	0		9.2.2.52A		YES	reject
DL DPCH Information		01			YES	reject
>TFCS	0		9.2.1.63	TFCS for the DL.	_	10,000
>DL DPCH Slot Format	0		9.2.2.9	DL.	_	
>Number of DL Channelisation Codes	0		9.2.2.26A		_	
>TFCI Signalling Mode	0		9.2.2.46			
>TFCI Presence	C-		9.2.1.55			
	SlotFormat					
>Multiplexing Position	0		9.2.2.26		_	
>Limited Power Increase	0		9.2.2.21A		_	
>DL DPCH Power Information		01			YES	reject
>>Power Offset Information		1			_	
>>>PO1	М		Power Offset 9.2.2.30	Power offset for the TFCI bits	-	
>>>PO2	М		Power Offset 9.2.2.30	Power offset for the TPC bits	_	
>>>PO3	М		Power Offset 9.2.2.30	Power offset for the pilot bits	_	
>>FDD TPC Downlink Step Size	М		9.2.2.16		-	
>>Inner Loop DL PC Status	М		9.2.2.21a		_	
DCHs To Modify	0		FDD DCHs To Modify 9.2.2.13C		YES	reject
DCHs To Add	0		DCH FDD Information 9.2.2.4A		YES	reject
DCHs To Delete		0 <maxnoof DCHs&gt;</maxnoof 			GLOBAL	reject

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
>DCH ID	M		9.2.1.16			
RL Information		0 <maxnoof RLs&gt;</maxnoof 	9.2.1.10		EACH	reject
>RL ID	М		9.2.1.49		_	
>Not Used	0		NULL		-	
>Not Used	0		NULL		_	
>Transmit Diversity Indicator	C – Diversity mode		9.2.2.48		-	
>DL Reference Power	0		DL Power 9.2.1.21A	Power on DPCH	YES	ignore
>RL Specific DCH Information	0		9.2.1.49A		YES	ignore
>DL DPCH Timing Adjustment	0		9.2.2.9A	Required RL Timing Adjustment	YES	reject
>Phase Reference Update Indicator	0		9.2.2.27B		YES	ignore
>RL specific E-DCH Information	0		9.2.2.35a		YES	reject
>E-DCH RL Indication	0		9.2.2.4E		YES	reject
>HS-DSCH Preconfiguration Setup	0		9.2.2.100		YES	ignore
>Non-Serving RL Preconfiguration Setup	0		9.2.2.124		YES	ignore
>Non-Serving RL Preconfiguration Removal	0		Non- Serving RL Preconfigu ration Setup 9.2.2.124		YES	ignore
Transmission Gap Pattern Sequence Information	0		9.2.2.47A		YES	reject
HS-DSCH Information	0		HS-DSCH FDD Information 9.2.2.19a		YES	reject
HS-DSCH Information To Modify	0		9.2.1.30Q		YES	reject
HS-DSCH MAC-d Flows To Add	0		HS-DSCH MAC-d Flows Information 9.2.1.30OA		YES	reject
HS-DSCH MAC-d Flows To Delete	0		9.2.1.30OB		YES	reject
HS-PDSCH RL ID	0		RL ID 9.2.1.49		YES	reject
E-DPCH Information		01			YES	reject
>Maximum Set of E- DPDCHs	0		9.2.2.24e		-	
>Puncture Limit	0		9.2.1.46		-	
>E-TFCS Information	0	1	9.2.2.4G		-	
>E-TTI	0	Ī	9.2.2.4J		_	
>E-DPCCH Power Offset	0		9.2.2.4K		_	
>E-RGCH 2-Index-Step Threshold	0		9.2.2.64		_	
>E-RGCH 3-Index-Step Threshold	0		9.2.2.65		-	
>HARQ Info for E-DCH	0		9.2.2.66		-	
>HS-DSCH Configured Indicator	0		9.2.2.19C		_	
> Minimum Reduced E-	0	1	9.2.2.102		YES	ignore

IE/Group Name	Presence	Range	IE Type and	Semantics Description	Criticality	Assigned Criticality
			Reference			
DPDCH Gain Factor	-					-
E-DCH FDD Information	0		9.2.2.4B		YES	reject
E-DCH FDD Information to Modify	0		9.2.2.4F		YES	reject
E-DCH MAC-d Flows to Add	0		E-DCH MAC-d flows Information 9.2.2.4MC		YES	reject
E-DCH MAC-d Flows to Delete	0		9.2.1.90		YES	reject
Serving E-DCH RL	0		9.2.2.38C		YES	reject
F-DPCH Information	•	01	0.2.2.0000		YES	reject
>Power Offset		1			-	10,000
Information		1				
>>PO2	М		Power Offset 9.2.2.30	This IE shall be ignored by DRNS.	_	
>FDD TPC Downlink Step Size	М		9.2.2.16		_	
>Limited Power Increase	М		9.2.2.21A		-	
>Inner Loop DL PC Status	М		9.2.2.21a		-	
>F-DPCH Slot Format Support Request	0		9.2.2.86		YES	reject
>F-DPCH Slot Format	0		9.2.2.85		YES	Ignore
Fast Reconfiguration Mode	0		9.2.2.70		YES	ignore
CPC Information	Ŭ	01	0.2.2.10		YES	reject
>Continuous Packet Connectivity DTX-DRX Information	0	01	9.2.2.72		-	reject
>Continuous Packet Connectivity DTX-DRX Information To Modify	0		9.2.2.73		_	
>Continuous Packet Connectivity HS-SCCH less Information	0		9.2.2.74		-	
>Continuous Packet Connectivity HS-SCCH less Deactivate Indicator	0		9.2.2.75A		YES	reject
Additional HS Cell Information RL Reconf Prep		0 <maxnoof HSDSCH-1&gt;</maxnoof 		For secondary serving HS- DSCH cell. Max 1 in this 3GPP release.	EACH	reject
>HS-PDSCH RL ID	М		RL ID 9.2.1.49		_	
>C-ID	0		9.2.1.6		-	
>HS-DSCH FDD Secondary Serving	0		9.2.2.19aa		-	
Information						
>HS-DSCH FDD Secondary Serving	0		9.2.2.19bb		_	
Information To Modify >HS-DSCH Secondary	0		NULL		_	
Serving Remove UE Aggregate Maximum Bit	0		9.2.1.137		YES	ignore
Rate Additional E-DCH Cell Information RL Reconf Prep		01		For E-DCH on multiple frequencies in this	YES	reject

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigne Criticalit
				DRNS.		
>CHOICE Setup, Configuration Change or Removal of E-DCH On Secondary UL Frequency	М				YES	reject
>>Setup				Used when RLs on the secondary UL frequency does not exist or is not configured with E-DCH in the current UE context	_	
>>>Multicell E-DCH Transport Bearer Mode	Μ		9.2.2.113		_	
>>>Additional E- DCH Cell Information Setup		1 <maxnoof EDCH-1&gt;</maxnoof 		E-DCH on Secondary uplink frequency – max 1 in this 3GPP release.	-	
>>>>Additional E- DCH FDD Setup Information	М		9.2.2.110		-	
>>Configuration Change		1 cmaxpoot		Used when RLs with additional E- DCH on the secondary UL frequency exist in the current UE context and the configuration is modified (adding new RLs or modification of existing RLs)		
>>>Additional E- DCH Cell Information Configuration Change		1 <maxnoof EDCH-1&gt;</maxnoof 		E-DCH on Secondary uplink frequency – max 1 in this 3GPP release.	_	
>>>>Additional E- DCH Configuration Change Information	М		9.2.2.111		-	
>>Removal				Used when all RLs on the indicated secondary UL	_	

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
				frequency is removed.		
>>>Additional E- DCH Cell Information Removal		1 <maxnoof EDCH-1&gt;</maxnoof 		E-DCH on Secondary uplink frequency – max 1 in this 3GPP release.	_	
>>>>RL on Secondary UL Frequency	М		ENUMERA TED (Remove, )	Removal of all RL on secondary UL frequency	_	

Condition	Explanation
CodeLen	The IE shall be present only if the Min UL
	Channelisation Code length IE equals to 4.
SlotFormat	The IE shall only be present if the DL DPCH Slot
	Format IE is equal to any of the values from 12 to 16.
Diversity mode	The IE shall be present if <i>Diversity Mode</i> IE is present
	in the UL DPCH Information IE and is not equal to
	"none".

Range bound	Explanation
maxnoofDCHs	Maximum number of DCHs for a UE.
maxnoofRLs	Maximum number of RLs for a UE.
maxnoofHSDSCH-1	Maximum number of Secondary Serving HS-DSCH cells for one UE.
maxnoofEDCH-1	Maximum number of uplink frequencies -1 for E-DCH for one UE

## 9.1.11.2 TDD Message

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Message Type	Μ		9.2.1.40		YES	reject
Transaction ID	М		9.2.1.59		_	
Allowed Queuing Time	0		9.2.1.2		YES	reject
UL CCTrCH To Add		0 <maxn oofCCTr CHs&gt;</maxn 		For DCH and USCH	EACH	notify
>CCTrCH ID	М		9.2.3.2		-	
>TFCS	М		9.2.1.63	For the UL.	—	
>TFCI Coding	Μ		9.2.3.11		_	
>Puncture Limit	Μ		9.2.1.46		_	
>UL SIR Target	0		Uplink SIR 9.2.1.69	Mandatory for 1.28Mcps TDD; not applicable to 3.84Mcps TDD or 7.68Mcps TDD	YES	reject
>TDD TPC Uplink Step Size	0		9.2.3.10a	Mandatory for 1.28Mcps TDD, not applicable to 3.84Mcps TDD or 7.68Mcps TDD	YES	reject
UL CCTrCH To Modify		0 <maxn oofCCTr CHs&gt;</maxn 			EACH	notify
>CCTrCH ID	Μ		9.2.3.2		_	
>TFCS	0		9.2.1.63	For the UL.	-	
>TFCI Coding	0		9.2.3.11		—	
>Puncture Limit	0		9.2.1.46		—	
>UL SIR Target	0		Uplink SIR 9.2.1.69	Applicable to 1.28Mcps TDD only	YES	reject
>TDD TPC Uplink Step Size	0		9.2.3.10a	Applicable to 1.28Mcps TDD only	YES	reject
UL CCTrCH to Delete		0 <maxn oofCCTr CHs&gt;</maxn 			EACH	notify
>CCTrCH ID	М		9.2.3.2		_	
DL CCTrCH To Add		0 <maxn oofCCTr CHs&gt;</maxn 		For DCH and DSCH	EACH	notify
>CCTrCH ID	М		9.2.3.2		_	
>TFCS	М		9.2.1.63	For the DL.	_	
>TFCI Coding	М		9.2.3.11		_	
>Puncture Limit	М		9.2.1.46		_	
>TPC CCTrCH List		0 <maxn oCCTrC Hs&gt;</maxn 		List of uplink CCTrCH which provide TPC	-	
>>TPC CCTrCH ID	М		CCTrCH ID 9.2.3.2		-	
>TDD TPC Downlink Step Size	0		9.2.3.10		YES	reject
DL CCTrCH To Modify		0 <maxn oofCCTr CHs&gt;</maxn 			EACH	notify

IE/Group Name	Presence	Range	IE Type and	Semantics Description	Criticality	Assigned Criticality
			Reference			
>CCTrCH ID	M		9.2.3.2		—	
>TFCS	0		9.2.1.63	For the DL.	_	
>TFCI Coding	0		9.2.3.11		_	
>Puncture Limit	0		9.2.1.46		_	
>TPC CCTrCH List		0 <maxn oCCTrC Hs&gt;</maxn 		List of uplink CCTrCH which provide TPC	-	
>>TPC CCTrCH ID	Μ		CCTrCH ID 9.2.3.2		_	
>TDD TPC Downlink Step Size	0		9.2.3.10		YES	reject
DL CCTrCH to Delete		0 <maxn oofCCTr CHs&gt;</maxn 			EACH	notify
>CCTrCH ID	М		9.2.3.2		-	
DCHs To Modify	0		TDD DCHs To Modify 9.2.3.8B		YES	reject
DCHs To Add	0		DCH TDD Information 9.2.3.2A		YES	reject
DCHs to Delete		0 <maxn oofDCHs &gt;</maxn 			GLOBAL	reject
>DCH ID	М		9.2.1.16		—	
DSCHs To Modify		0 <maxn oofDSCH s&gt;</maxn 			GLOBAL	reject
>DSCH ID	Μ		9.2.3.3ae		_	
>CCTrCH ID	0		9.2.3.2	DL CCTrCH in which the DSCH is mapped.	_	
>TrCH Source Statistics Descriptor	0		9.2.1.65		_	
>Transport Format Set	0		9.2.1.64		_	
>Allocation/Retention Priority	0		9.2.1.1		_	
>Scheduling Priority Indicator	0		9.2.1.51A		_	
>BLER	0		9.2.1.4		-	
>Transport Bearer Request Indicator	Μ		9.2.1.61		_	
>Traffic Class >Binding ID	0		9.2.1.58A 9.2.1.3	Shall be ignored if bearer establishment with ALCAP.	YES YES	ignore ignore
>Transport Layer Address	0		9.2.1.62	Shall be ignored if bearer establishment with ALCAP.	YES	ignore
>TNL QoS	0		9.2.1.56A	Shall be ignored if bearer establishment with ALCAP.	YES	ignore
DSCHs To Add	0		DSCH TDD Information 9.2.3.3a		YES	reject

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
DSCHs to Delete		0 <maxn oofDSCH s&gt;</maxn 			GLOBAL	reject
>DSCH ID	М		9.2.3.3ae		_	
USCHs To Modify		0 <maxn oofUSCH s&gt;</maxn 			GLOBAL	reject
>USCH ID	Μ		9.2.3.14		_	
>CCTrCH ID	0		9.2.3.2	UL CCTrCH in which the USCH is mapped.	-	
>TrCH Source Statistics Descriptor	0		9.2.1.65		_	
>Transport Format Set	0		9.2.1.64		_	
>Allocation/Retention Priority	0		9.2.1.1		_	
>Scheduling Priority Indicator	0		9.2.1.51A		-	
>BLER	0		9.2.1.4		_	
>Transport Bearer Request Indicator	М		9.2.1.61		_	
>RB Info		0 <maxn oofRB&gt;</maxn 		All Radio Bearers using this USCH	-	
>>RB Identity	Μ		9.2.3.5B		_	
>Traffic class	0		9.2.1.58A		YES	ignore
>Binding ID	0		9.2.1.3	Shall be ignored if bearer establishment with ALCAP.	YES	ignore
>Transport Layer Address	0		9.2.1.62	Shall be ignored if bearer establishment with ALCAP.	YES	ignore
>TNL QoS	0		9.2.1.56A		YES	ignore

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
USCHs To Add	0		USCH Information 9.2.3.15		YES	reject
USCHs to Delete		0 <maxn oofUSCH s&gt;</maxn 			GLOBAL	reject
>USCH ID	М		9.2.3.14		_	
Primary CCPCH RSCP	0		9.2.3.5		YES	ignore
DL Time Slot ISCP Info	0		9.2.3.2D	Applicable to 3.84Mcps TDD and 7.68Mcps TDD only	YES	ignore
DL Time Slot ISCP Info LCR	0		9.2.3.2F	Applicable to 1.28Mcps TDD only	YES	ignore
HS-DSCH Information	0		HS-DSCH TDD Information 9.2.3.3aa		YES	reject
HS-DSCH Information To Modify	0		9.2.1.30Q		YES	reject
HS-DSCH MAC-d Flows To Add	0		HS-DSCH MAC-d Flows Information 9.2.1.30OA		YES	reject
HS-DSCH MAC-d Flows To Delete	0		9.2.1.30OB		YES	reject
HS-PDSCH RL ID	0		RL ID 9.2.1.49		YES	reject
PDSCH-RL-ID	0		RL ID 9.2.1.49		YES	ignore
UL Synchronisation Parameters LCR		01		Mandatory for 1.28Mcps TDD. Not Applicable to 3.84Mcps TDD or 7.68Mcps TDD.	YES	ignore
>Uplink Synchronisation Step Size	М		9.2.3.13J		-	
>Uplink Synchronisation Frequency	М		9.2.3.131		_	
RL Information		0 <maxn oofRLs.</maxn 			YES	ignore
>RL ID	М		9.2.1.49		_	
>RL Specific DCH Information	0		9.2.1.49A		-	
Primary CCPCH RSCP Delta	0		9.2.3.5a		YES	ignore
E-DCH Information		01		3.84Mcps TDD only	YES	reject
>E-PUCH Information	0		9.2.3.36		_	
>E-TFCS Information TDD >E-DCH MAC-d Flows to	0		9.2.3.37 9.2.3.38		-	
Add >E-DCH MAC-d Flows to Delete	0		9.2.1.90		_	
>E-DCH TDD Information	0		9.2.3.40		_	
>E-DCH TDD Information to Modify	0		9.2.3.42		_	

IE/Group Name	Presence	Range	IE Type and	Semantics Description	Criticality	Assigned Criticality
			Reference	Description		Onticality
E-DCH Serving RL	0		9.2.1.49	3.84Mcps	YES	reject
	· ·		0.20	TDD only		
E-DCH Information		01		7.68Mcps	YES	reject
7.68Mcps				TDD only		
>E-PUCH Information	0		9.2.3.36		_	
>E-TFCS Information TDD	0		9.2.3.37		_	
>E-DCH MAC-d Flows to	0		9.2.3.38		_	
Add						
>E-DCH MAC-d Flows to	0		9.2.1.90		-	
Delete						
>E-DCH TDD Information	0		9.2.3.51		-	
7.68Mcps						
>E-DCH TDD Information to	0		9.2.3.42		-	
Modify		0.4		4.0014		
E-DCH Information		01		1.28Mcps	YES	reject
1.28Mcps >E-PUCH Information LCR	0		0.0.0.00-	TDD only		
	0		9.2.3.36a		_	
>E-TFCS Information TDD >E-DCH MAC-d Flows to	0		9.2.3.37 9.2.3.38		_	
>E-DCH MAC-d Flows to Add	0		9.2.3.38		_	
>E-DCH MAC-d Flows to	0		9.2.1.90			
Delete	0		9.2.1.90		_	
>E-DCH TDD Information	0		9.2.3.40a			
LCR	0		9.2.3.40a		-	
>E-DCH TDD Information to	0		9.2.3.42		_	
Modify	0		9.2.3.42		_	
Need for Idle Interval	0		ENUMERA	TDD only	YES	ignore
Need for fale interval	U		TED (True,	TDD only	120	ignore
			False)			
CPC Information		01		1.28Mcps	YES	reject
				TDD only		
>Continuous Packet	0		9.2.3.61		_	
Connectivity DRX						
Information LCR						
>Continuous Packet	0		9.2.3.62		_	
Connectivity DRX						
Information To Modify LCR						
>HS-DSCH Semi-Persistent	0		9.2.3.64		_	
scheduling Information LCR						
>HS-DSCH Semi-Persistent	0		9.2.3.65		-	
scheduling Information to						
modify LCR	0		0.0.0.70			
>HS-DSCH Semi-Persistent scheduling Deactivate	0		9.2.3.70		-	
Indicator LCR						
>E-DCH Semi-Persistent	0		9.2.3.66			
scheduling Information LCR	0		9.2.3.00		-	
>E-DCH Semi-Persistent	0		9.2.3.67			
scheduling Information to			0.2.0.01		-	
modify LCR						
>E-DCH Semi-Persistent	0		9.2.3.71			
scheduling Deactivate	-				_	
Indicator LCR						
RNTI Allocation Indicator	0		ENUMERA	1.28 Mcps	YES	ignore
			TED (True)	TDD only		
DCH Measurement Type	0		9.2.3.76	1.28 Mcps	YES	reject
indicator			1	TDD only		

Range bound	Explanation
maxnoofDCHs	Maximum number of DCHs for a UE.
maxnoofCCTrCHs	Maximum number of CCTrCHs for a UE.
maxnoofDSCHs	Maximum number of DSCHs for one UE.
maxnoofUSCHs	Maximum number of USCHs for one UE.
maxnoofRLs	Maximum number of RLs for one UE

## 9.1.12 RADIO LINK RECONFIGURATION READY

### 9.1.12.1 FDD Message

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Message Type	М		9.2.1.40		YES	reject
Transaction ID	М		9.2.1.59		_	
RL Information Response		0 <maxno ofRLs&gt;</maxno 			EACH	ignore
>RL ID	М		9.2.1.49		_	
>Maximum Uplink SIR	0		Uplink SIR 9.2.1.69		-	
>Minimum Uplink SIR	0		Uplink SIR 9.2.1.69		-	
>Maximum DL TX Power	0		DL Power 9.2.1.21A		-	
>Minimum DL TX Power	0		DL Power 9.2.1.21A		-	
>Not Used	0		NULL			
>DL Code Information	0		FDD DL Code Information 9.2.2.14A		YES	ignore
>DCH Information Response	0		9.2.1.16A		YES	ignore
>Not Used	0		NULL		-	
>DL Power Balancing Updated Indicator	0		9.2.2.10D		YES	ignore
>Primary CPICH Usage For Channel Estimation	0		9.2.2.32A		YES	ignore
>Secondary CPICH Information Change	0		9.2.2.38B		YES	ignore
>E-DCH FDD Information Response	0		9.2.2.4C		YES	ignore
>E-DCH RL Set ID	0		RL Set ID 9.2.2.35		YES	ignore
>E-DCH FDD DL Control Channel Information	0		9.2.2.4D		YES	ignore
>F-DPCH Slot Format	0		9.2.2.85		YES	ignore
>HS-DSCH Preconfiguration Info	0		9.2.2.99		YES	ignore
>Non-Serving RL Preconfiguration Info	0		9.2.2.125		YES	ignore
Criticality Diagnostics	0	T	9.2.1.13		YES	ignore
HS-DSCH-RNTI	0	T	9.2.1.30P		YES	ignore
HS-DSCH Information Response	0		HS-DSCH FDD Information Response 9.2.2.19b		YES	ignore
MAC-hs Reset Indicator	0		9.2.1.34B		YES	ignore
Fast Reconfiguration Permission	0		9.2.2.71	FDD only	YES	ignore
Continuous Packet O Connectivity HS-SCCH less Information Response	0		9.2.2.75		YES	ignore
Additional HS Cell Information Response		0 <maxno ofHSDSC H-1&gt;</maxno 		For secondary serving HS- DSCH cell. Max 1 in this 3GPP release.	EACH	ignore

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
>HS-PDSCH RL ID	М		RL ID 9.2.1.49		_	
>HS-DSCH-RNTI	Μ		9.2.1.30P		_	
>HS-DSCH FDD Secondary Serving Information Response	М		9.2.2.19ba		-	
Additional E-DCH Cell Information Response RLReconf		0 <maxno ofEDCH- 1&gt;</maxno 		E-DCH on Secondary uplink frequency – max 1 in this 3GPP release.	EACH	ignore
>Additional E-DCH FDD Information Response	0		9.2.2.120	For new E- DCH Radio Links on secondary carrier	_	
>Additional Modified E- DCH FDD Information Response	0		9.2.2.121		-	

Range bound	Explanation
maxnoofRLs	Maximum number of RLs for a UE.
maxnoofHSDSCH-1	Maximum number of Secondary Serving HS-DSCH cells for one UE.
maxnoofEDCH-1	Maximum number of uplink frequencies -1 for E-DCH for one UE

## 9.1.12.2 TDD Message

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Message Type	М		9.2.1.40		YES	reject
Transaction ID	М		9.2.1.59		_	-
RL Information Response		0 <maxn oofRLs&gt;</maxn 		See Note 1 below	YES	ignore
>RL ID	М		9.2.1.49		_	
>Maximum Uplink SIR	0		Uplink SIR 9.2.1.69		-	
>Minimum Uplink SIR	0		Uplink SIR 9.2.1.69		-	
>Maximum DL TX Power	0		DL Power 9.2.1.21A		-	
>Minimum DL TX Power	0		DL Power 9.2.1.21A		-	
>Secondary CCPCH Info TDD	0		9.2.3.7B	Applicable to 3.84Mcps TDD only	_	
>UL CCTrCH Information		0 <maxn oofCCTr CHs&gt;</maxn 		For DCH	GLOBAL	ignore
>>CCTrCH ID	М	T	9.2.3.2		-	
>>UL DPCH to be Added		01		Applicable to 3.84Mcps TDD only	YES	ignore
>>>Repetition Period	М		9.2.3.7	-	_	
>>>Repetition Length	М		9.2.3.6		_	
>>>TDD DPCH Offset	Μ		9.2.3.8A		_	
>>> Rx Timing Deviation	0		9.2.3.7A		-	
>>>UL Timeslot Information	М		9.2.3.13C		-	
>>> Rx Timing Deviation 3.84 Mcps Extended	0		9.2.3.35		YES	Ignore
>>UL DPCH to be Modified		01			YES	ignore
>>>Repetition Period	0		9.2.3.7		_	
>>>Repetition Length	0		9.2.3.6		_	
>>>TDD DPCH Offset	0		9.2.3.8A		_	
>>>UL Timeslot Information		0 <maxn oOfTS&gt;</maxn 		Applicable to 3.84Mcps TDD only	_	
>>>>Time Slot	Μ		9.2.1.56		_	
>>>>Midamble Shift And Burst Type	0		9.2.3.4		_	
>>>>TFCI Presence	0		9.2.1.55		-	
>>>>UL Code Information		0 <maxn oOfDPC Hs&gt;</maxn 			-	
>>>>DPCH ID	М		9.2.3.3		-	
>>>>TDD Channelisation Code	0		9.2.3.8		-	
>>>UL Timeslot Information LCR		0 <maxn oOfTSLC R&gt;</maxn 		Applicable to 1.28Mcps TDD only	GLOBAL	ignore
>>>>Time Slot LCR	М		9.2.3.12a		_	
>>>>Midamble	0		9.2.3.4C		_	

IE/Group Name	Presence	Range	IE Type and	Semantics Description	Criticality	Assigned Criticality
			Reference			
Shift LCR >>>>TFCI	0		9.2.1.55			
Presence	0		9.2.1.55		_	
>>>>UL Code Information LCR		0 <maxn oOfDPC HLCR&gt;</maxn 			GLOBAL	ignore
>>>>DPCH ID	Μ		9.2.3.3		_	
>>>>TDD Channelisation Code LCR	0		9.2.3.8a		_	
>>>>> TDD UL DPCH Time Slot Format LCR	0		9.2.3.10C		YES	reject
>>>UL Timeslot Information 7.68Mcps		0 <maxn oOfTS&gt;</maxn 		Applicable to 7.68Mcps TDD only	GLOBAL	ignore
>>>>Time Slot	М		9.2.1.56			
>>>>Midamble Shift And Burst Type 7.68Mcps	0		9.2.3.23		-	
>>>>TFCI Presence	0		9.2.1.55		_	
>>>>UL Code Information 7.68Mcps		0 <maxn oOfDPC Hs768&gt;</maxn 			GLOBAL	ignore
>>>>DPCH ID	М		9.2.3.3		-	
>>>>TDD Channelisation Code 7.68Mcps	0		9.2.3.25		_	
>>UL DPCH to be Deleted		0 <maxn oofDPCH s&gt;</maxn 			GLOBAL	ignore
>>>DPCH ID	М		9.2.3.3		_	
>>UL DPCH to be Added LCR		01		Applicable to 1.28Mcps TDD only	YES	ignore
>>>Repetition Period	М		9.2.3.7		_	
>>>Repetition Length	Μ		9.2.3.6		_	
>>>TDD DPCH Offset	Μ		9.2.3.8A		-	
>>>UL Timeslot Information LCR	М		9.2.3.13G		-	
>>UL DPCH to be Added 7.68Mcps		01		Applicable to 7.68Mcps TDD only	YES	ignore
>>>Repetition Period	Μ		9.2.3.7		—	
>>>Repetition Length	М		9.2.3.6		_	
>>>TDD DPCH Offset	М		9.2.3.8A		_	
>>> Rx Timing Deviation 7.68Mcps	0		9.2.3.30		-	
>>>UL Timeslot Information 7.68Mcps	Μ		9.2.3.26		_	
>DL CCTrCH Information		0 <maxn oofCCTr CHs&gt;</maxn 		For DCH	GLOBAL	ignore
>>CCTrCH ID	М		9.2.3.2			
>>DL DPCH to be Added		01		Applicable to 3.84Mcps TDD only	YES	ignore
>>>Repetition Period	М		9.2.3.7	-	_	

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
>>>Repetition Length	М		9.2.3.6		—	
>>>TDD DPCH Offset	М		9.2.3.8A		—	
>>>DL Timeslot Information	М		9.2.3.2C		-	
>>DL DPCH to be Modified		01			YES	ignore
>>>Repetition Period	0		9.2.3.7		_	
>>>Repetition Length	0		9.2.3.6		-	
>>>TDD DPCH Offset	0		9.2.3.8A		_	
>>>DL Timeslot Information		0 <maxn oOfTS&gt;</maxn 		Applicable to 3.84Mcps TDD only	-	
>>>>Time Slot	М		9.2.1.56		-	
>>>>Midamble Shift And Burst Type	0		9.2.3.4		-	
>>>>TFCI Presence	0		9.2.1.55		-	
>>>>DL Code Information		0 <maxn oOfDPC Hs&gt;</maxn 			_	
>>>>DPCH ID	М		9.2.3.3	1	_	<u> </u>
>>>>TDD Channelisation Code	0		9.2.3.8		_	
>>>DL Timeslot Information LCR		0 <maxn oOfTSLC R&gt;</maxn 		Applicable to 1.28Mcps TDD only	GLOBAL	ignore
>>>>Time Slot LCR	М		9.2.3.12a		—	
>>>>Midamble Shift LCR	0		9.2.3.4C		-	
>>>>TFCI Presence	0		9.2.1.55		-	
>>>>DL Code Information LCR		0 <maxn oOfDPC HLCR&gt;</maxn 			GLOBAL	ignore
>>>>DPCH ID	М		9.2.3.3		_	
>>>>TDD Channelisation Code LCR	0		9.2.3.8a		_	
>>>> TDD DL DPCH Time Slot Format LCR	0		9.2.3.8E		YES	reject
>>>>Maximum DL TX Power	0		DL Power 9.2.1.21A	Maximum allowed power on DPCH	YES	ignore
>>>>Minimum DL TX Power	0		DL Power 9.2.1.21A	Minimum allowed power on DPCH	YES	ignore
>>>DL Timeslot Information 7.68Mcps		0 <maxn oOfTS&gt;</maxn 		Applicable to 7.68Mcps TDD only	GLOBAL	ignore
>>>>Time Slot	Μ		9.2.1.56		_	
>>>>Midamble Shift And Burst Type 7.68Mcps	0		9.2.3.23		-	
>>>>TFCI Presence	0	1	9.2.1.55		_	
>>>>DL Code Information		0 <maxn oOfDPC Hs768&gt;</maxn 			_	
>>>>DPCH ID 7.68Mcps	М		9.2.3.34		-	
>>>>TDD Channelisation Code 7.68Mcps	0		9.2.3.25		-	
>>DL DPCH to be		0 <maxn< td=""><td></td><td></td><td>GLOBAL</td><td>ignore</td></maxn<>			GLOBAL	ignore

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Deleted		oofDPCH				
		S>				
>>>DPCH ID	М	0	9.2.3.3			:
>>DL DPCH to be Deleted 7.68Mcps TDD		0 <maxn oofDPCH s768&gt;</maxn 			GLOBAL	ignore
>>>DPCH ID 7.68Mcps	М		9.2.3.34		-	
>>DL DPCH to be Added LCR		01		Applicable to 1.28Mcps TDD only	YES	ignore
>>>Repetition Period	М		9.2.3.7		—	
>>>Repetition Length	М		9.2.3.6		-	
>>>TDD DPCH Offset	М		9.2.3.8A		_	
>>>DL Timeslot Information LCR	М		9.2.3.2E		_	
>>DL DPCH to be Added 7.68Mcps		01		Applicable to 7.68Mcps TDD only	YES	ignore
>>>Repetition Period	М		9.2.3.7		-	
>>>Repetition Length	М		9.2.3.6		-	
>>>TDD DPCH Offset	М		9.2.3.8A		-	
>>>DL Timeslot Information 7.68Mcps	Μ		9.2.3.28		_	
>>CCTrCH Maximum DL TX Power	0		DL Power 9.2.1.21A	Maximum allowed power on DPCH Applicable to 3.84Mcps TDD and 7.68Mcps TDD only	YES	ignore
>>CCTrCH Minimum DL TX Power	0		DL Power 9.2.1.21A	Minimum allowed power on DPCH Applicable to 3.84Mcps TDD and 7.68Mcps TDD only	YES	ignore
>DCH Information Response	0		9.2.1.16A		YES	ignore
>DSCH to be Added or Modified		0 <maxnoo f DSCHs&gt;</maxnoo 			GLOBAL	ignore
>>DSCH ID	М	2001132	9.2.3.3ae		_	
>>Transport Format Management	M		9.2.3.13		-	
>>DSCH Flow Control Information	М		9.2.3.3ag		-	
>>Binding ID	0		9.2.1.3		—	
>>Transport Layer Address	0		9.2.1.62		-	
>USCH to be Added or Modified		0 <maxnoo f USCHs&gt;</maxnoo 			GLOBAL	ignore
>>USCH ID	М	-	9.2.3.14		-	
>>Transport Format Management	M		9.2.3.13		-	
>>Binding ID	0	T	9.2.1.3		-	
>>Transport Layer Address	0		9.2.1.62		_	
>Uplink Timing Advance Control LCR	0		9.2.3.13K	Applicable to 1.28Mcps TDD	YES	ignore

IE/Group Name	Presence	Range	IE Type and	Semantics Description	Criticality	Assigned Criticality
			Reference			
	-			only		
>Secondary CCPCH Info TDD LCR	0		9.2.3.7F	Applicable to 1.28Mcps TDD only	YES	ignore
>Secondary CCPCH Info 7.68Mcps TDD	0		9.2.3.22	Applicable to 7.68Mcps TDD only	YES	ignore
>UARFCN	0		9.2.1.66	Applicable to 1.28Mcps TDD only. Mandatory for 1.28Mcps TDD when using multiple frequencies. Corresponds to Nt (3GPP TS 25.105)	YES	ignore
Criticality Diagnostics	0		9.2.1.13		YES	ignore
HS-DSCH-RNTI	0		9.2.1.30P		YES	ignore
HS-DSCH Information Response	0		HS-DSCH TDD Information Response 9.2.3.3ab		YES	ignore
DSCH-RNTI	0		9.2.3.3ah		YES	ignore
MAC-hs Reset Indicator	0		9.2.1.34B		YES	ignore
E-DCH Information Response	0		E-DCH TDD Information Response 9.2.3.41	3.84Mcps TDD only	YES	ignore
E-DCH Information Response 7.68Mcps	0		E-DCH TDD Information Response 7.68Mcps 9.2.3.52	7.68Mcps TDD only	YES	ignore
E-DCH Information Response 1.28Mcps	0		E-DCH TDD Information Response 1.28Mcps 9.2.3.41a	1.28Mcps TDD only	YES	ignore
PowerControl GAP	0		INTEGER (1255)	1.28Mcps TDD only	YES	ignore
Idle Interval Information	0		9.2.3.60	TDD only	YES	ignore
Continuous Packet Connectivity DRX Information Response LCR	0		9.2.3.63	1.28 Mcps TDD only	YES	ignore
HS-DSCH Semi-Persistent scheduling Information Response LCR	0		9.2.3.68	1.28 Mcps TDD only	YES	ignore
E-DCH Semi-Persistent scheduling Information Response LCR	0		9.2.3.69	1.28 Mcps TDD only	YES	ignore
E-RNTI for FACH	0		E-RNTI 9.2.1.94	1.28 Mcps TDD only	YES	ignore
H-RNTI for FACH	0		HS-DSCH- RNTI 9.2.1.30P	1.28 Mcps TDD only	YES	ignore
DCH Measurement Occasion	0		9.2.3.75	1.28 Mcps TDD only	YES	reject

Range bound	Explanation
maxnoofDSCHs	Maximum number of DSCHs for one UE.
maxnoofUSCHs	Maximum number of USCHs for one UE.
maxnoofCCTrCHs	Maximum number of CCTrCHs for a UE.
maxnoofTS	Maximum number of Timeslots for a UE for 3.84Mcps
	TDD or 7.68Mcps TDD.
maxnoofDPCHs	Maximum number of DPCH for a UE for 3.84Mcps
	TDD.
maxnoofTSLCRs	Maximum number of Timeslots for a UE for 1.28Mcps
	TDD.
maxnoofDPCHLCRs	Maximum number of DPCH for a UE for 1.28Mcps
	TDD.
maxnoofRLs	Maximum number of RLs for one UE
maxnoofDPCHs768	Maximum number of DPCH for a UE for 7.68Mcps
	TDD.

## 9.1.13 RADIO LINK RECONFIGURATION COMMIT

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Message Type	М		9.2.1.40		YES	ignore
Transaction ID	Μ		9.2.1.59		_	
CFN	Μ		9.2.1.9		YES	ignore
Active Pattern Sequence Information	0		9.2.2.A	FDD only	YES	ignore
Fast Reconfiguration Mode	0		9.2.2.70	FDD only	YES	reject

## 9.1.14 RADIO LINK RECONFIGURATION FAILURE

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Message Type	М		9.2.1.40		YES	reject
Transaction ID	М		9.2.1.59		-	
CHOICE Cause Level	М				YES	ignore
>General					_	
>>Cause	М		9.2.1.5		_	
>RL Specific					_	
>>RLs Causing Reconfiguration Failure		0 <maxnoof RLs&gt;</maxnoof 			EACH	ignore
>>>RL ID	М		9.2.1.49		_	
>>>Cause	М		9.2.1.5		_	
>>>Max UE DTX Cycle	C-DTX- CycleNotA vailable		9.2.2.87		YES	ignore
Criticality Diagnostics	0		9.2.1.13		YES	ignore

Condition	Explanation
DTX-CycleNotAvailable	The IE shall be present if the Cause IE is set to "Continuous Packet
	Connectivity UE DTX Cycle not Available ".

Range bound	Explanation		
maxnoofRLs	Maximum number of RLs for a UE.		

## 9.1.15 RADIO LINK RECONFIGURATION CANCEL

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Message Type	М		9.2.1.40		YES	ignore
Transaction ID	М		9.2.1.59		-	

## 9.1.16 RADIO LINK RECONFIGURATION REQUEST

### 9.1.16.1 FDD Message

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Message Type	М		9.2.1.40		YES	reject
Transaction ID	М		9.2.1.59		-	, i
Allowed Queuing Time	0		9.2.1.2		YES	reject
UL DPCH Information		01			YES	reject
>TFCS	0		9.2.1.63	TFCS for the UL.	_	
>UL DPDCH Indicator For E-DCH Operation	0		9.2.2.52A		YES	reject
DL DPCH Information	-	01			YES	reject
>TFCS	0		9.2.1.63	TFCS for the DL.	-	
>TFCI Signalling Mode	0		9.2.2.46		_	
>Limited Power Increase	0		9.2.2.21A		-	
DCHs To Modify	0		FDD DCHs To Modify 9.2.2.13C		YES	reject
DCHs To Add	0		DCH FDD Information 9.2.2.4A		YES	reject
DCHs To Delete		0 <maxno ofDCHs&gt;</maxno 			GLOBAL	reject
>DCH ID	М		9.2.1.16		-	
Transmission Gap Pattern Sequence Information	0		9.2.2.47A		YES	reject
RL Information		0 <maxno ofRLs&gt;</maxno 			EACH	ignore
>RL ID	М		9.2.1.49		-	
>RL Specific DCH Information	0		9.2.1.49A		-	
>RL specific E-DCH Information	0		9.2.2.35a		YES	reject
>E-DCH RL Indication	0		9.2.2.4E		YES	reject
>HS-DSCH Preconfiguration Setup	0		9.2.2.100		YES	ignore
>Non-Serving RL Preconfiguration Setup	0		9.2.2.124		YES	ignore
>Non-Serving RL Preconfiguration Removal	0		Non- Serving RL Preconfigu ration Setup 9.2.2.124		YES	ignore
DL Reference Power Information	0		9.2.2.10C		YES	ignore
HS-DSCH Information	0		HS-DSCH FDD Information 9.2.2.19a		YES	reject
HS-DSCH Information To Modify Unsynchronised	0		9.2.1.30NA		YES	reject
HS-DSCH MAC-d Flows To Add	0		HS-DSCH MAC-d Flows Information 9.2.1.30OA		YES	reject
HS-DSCH MAC-d Flows To Delete	0		9.2.1.30OB		YES	reject

HS-PDSCH RL ID	0		RL ID		YES	reject
E-DPCH Information		0.1	9.2.1.49		VEO	raia at
E-DPCH Information		01			YES	reject
>Maximum Set of E- DPDCHs	0		9.2.2.24e		-	
>Puncture Limit	0		9.2.1.46		_	
>E-TFCS Information	0		9.2.2.4G		-	
>E-TTI	0		9.2.2.4J		_	
>E-DPCCH Power Offset	0		9.2.2.4K		_	
>E-RGCH 2-Index-Step Threshold	0		9.2.2.64		_	
>E-RGCH 3-Index-Step Threshold	0		9.2.2.65		_	
>HARQ Info for E-DCH	0		9.2.2.66		_	
> Minimum Reduced E- DPDCH Gain Factor	0		9.2.2.102		YES	ignore
>HS-DSCH Configured Indicator	0		9.2.2.19C		_	
E-DCH FDD Information	0		9.2.2.4B		YES	reject
E-DCH FDD Information to Modify	0		9.2.2.4F		YES	reject
E-DCH MAC-d Flows to Add	0		E-DCH MAC-d flows Information 9.2.2.4MC		YES	reject
E-DCH MAC-d Flows to Delete	0		9.2.1.90		YES	reject
Serving E-DCH RL	0		9.2.2.38C		YES	reject
CPC Information	-	01			YES	reject
>Continuous Packet Connectivity DTX-DRX Information	0		9.2.2.72		_	
>Continuous Packet Connectivity DTX-DRX Information To Modify	0		9.2.2.73		_	
>Continuous Packet Connectivity HS-SCCH less Information	0		9.2.2.74		_	
>Continuous Packet Connectivity HS-SCCH less Deactivate Indicator	0		9.2.2.75A		YES	reject
No of Target Cell HS-SCCH Order	0		INTEGER (130)		YES	ignore
Additional HS Cell Information RL Reconf Req		0 <maxno ofHSDSC H-1&gt;</maxno 		For secondary serving HS- DSCH cell. Max 1 in this 3GPP release.	EACH	reject
>HS-PDSCH RL ID	М		RL ID 9.2.1.49		_	
>C-ID	0	1	9.2.1.6		_	
>HS-DSCH FDD Secondary Serving Information	0		9.2.2.19aa		_	
>HS-DSCH FDD Secondary Serving Information To Modify Unsynchronised	0		9.2.2.19bc		_	

		1		1		
>HS-DSCH Secondary Serving Remove	0		NULL		_	
UE Aggregate Maximum Bit Rate	0		9.2.1.137		YES	ignore
Additional E-DCH Cell Information RL Reconf Req		01		For E-DCH on multiple frequencies in this DRNS.	YES	reject
>CHOICE Setup, Configuration Change or Removal of E-DCH On Secondary UL Frequency	М				YES	reject
>>Setup				Used when RLs on the secondary UL frequency does not exist or is not configured with E-DCH in the current UE context	-	
>>>Multicell E-DCH Transport Bearer Mode	М		9.2.2.113		-	
>>>Additional E-DCH Cell Information Setup		1 <maxno ofEDCH- 1&gt;</maxno 		E-DCH on Secondary uplink frequency – max 1 in this 3GPP release.	_	
>>>>Additional E- DCH FDD Setup Information	Μ		9.2.2.110		-	
>>Configuration Change				Used when RLs with additional E- DCH on the secondary UL frequency exist in the current UE context and the configuration is modified (adding new RLs or modification of existing RLs)	_	
>>>Additional E-DCH Cell Information Configuration Change		1 <maxno ofEDCH- 1&gt;</maxno 		E-DCH on Secondary uplink frequency – max 1 in this 3GPP release.	-	
>>>> Additional E- DCH Configuration Change Information	M		9.2.2.111		-	
>>Removal				Used when all RLs on the indicated	-	

				secondary UL frequency is removed.		
>>>Additional E-DCH Cell Information Removal		1 <maxno ofEDCH- 1&gt;</maxno 		E-DCH on Secondary uplink frequency – max 1 in this 3GPP release.	_	
>>>>RL on Secondary UL Frequency	М		ENUMERA TED (Remove, )	Removal of all RL on secondary UL frequency	-	

Range Bound	Explanation
maxnoofDCHs	Maximum number of DCHs for one UE.
maxnoofRLs	Maximum number of RLs for a UE.
maxnoofHSDSCH-1	Maximum number of Secondary Serving HS-DSCH cells for one UE.
maxnoofEDCH-1	Maximum number of uplink frequencies -1 for E-DCH for one UE

## 9.1.16.2 TDD Message

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Message Type	М		9.2.1.40		YES	reject
Transaction ID	Μ		9.2.1.59		_	
Allowed Queuing Time	0		9.2.1.2		YES	reject
UL CCTrCH Information To Modify		0 <maxn oofCCTr CHs&gt;</maxn 			EACH	notify
>CCTrCH ID	Μ		9.2.3.2		_	
>TFCS	0		9.2.1.63		_	
>UL SIR Target	0		Uplink SIR 9.2.1.69	Applicable to 1.28Mcps TDD only	YES	reject
UL CCTrCH Information to Delete		0 <maxn oofCCTr CHs&gt;</maxn 			EACH	notify
>CCTrCH ID	Μ		9.2.3.2		-	
DL CCTrCH Information To Modify		0 <maxn oofCCTr CHs&gt;</maxn 			EACH	notify
>CCTrCH ID	М		9.2.3.2		_	
>TFCS	0		9.2.1.63		_	
DL CCTrCH Information to Delete		0 <maxn oofCCTr CHs&gt;</maxn 			EACH	notify
>CCTrCH ID	М		9.2.3.2		_	
DCHs To Modify	0		TDD DCHs To Modify 9.2.3.8B		YES	reject
DCHs To Add	0		DCH TDD Information 9.2.3.2A		YES	reject
DCHs to Delete		0 <maxn oofDCHs &gt;</maxn 			GLOBAL	reject
>DCH ID	М		9.2.1.16		_	
RL Information		0 <maxn oofRLs&gt;</maxn 			YES	ignore
>RL ID	М		9.2.1.49		_	
>RL Specific DCH Information	0		9.2.1.49A		-	
UL Synchronisation Parameters LCR		01		Mandatory for 1.28Mcps TDD. Not Applicable to 3.84Mcps TDD.	YES	ignore
>Uplink Synchronisation Step Size	М		9.2.3.13J		_	
>Uplink Synchronisation Frequency	М		9.2.3.131		_	
HS-DSCH Information	0		HS-DSCH TDD Information9. 2.3.3aa		YES	reject
HS-DSCH Information To Modify Unsynchronised	0		9.2.1.30NA		YES	reject
HS-DSCH MAC-d Flows To Add	0		HS-DSCH MAC-d Flows Information 9.2.1.30OA		YES	reject
HS-DSCH MAC-d Flows To Delete	0		9.2.1.30OB		YES	reject
HS-PDSCH RL ID	0		RL ID		YES	reject

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
			9.2.1.49			
E-DCH Information		01		3.84Mcps TDD only	YES	reject
>E-PUCH Information	0		9.2.3.36		-	
>E-TFCS Information TDD	0		9.2.3.37		_	
>E-DCH MAC-d Flows to Add	0		9.2.3.38		-	
>E-DCH MAC-d Flows to Delete	0		9.2.1.90		-	
>E-DCH TDD Information	0		9.2.3.40		_	
>E-DCH TDD Information to Modify	0		9.2.3.42		-	
E-DCH Serving RL	0		9.2.1.49	3.84Mcps TDD only	YES	reject
E-DCH Information 7.68Mcps		01		7.68Mcps TDD only	YES	reject
>E-PUCH Information	0		9.2.3.36		_	
>E-TFCS Information TDD	0		9.2.3.30	+	_	
>E-DCH MAC-d Flows to	0		9.2.3.38			
Add >E-DCH MAC-d Flows to						
Delete	0		9.2.1.90		-	
>E-DCH TDD Information 7.68Mcps	0		9.2.3.51		-	
>E-DCH TDD Information to Modify	0		9.2.3.42		-	
E-DCH Information 1.28Mcps		01		1.28Mcps TDD only	YES	reject
>E-PUCH Information LCR	0		9.2.3.36a		-	
>E-TFCS Information TDD	0		9.2.3.37		-	
>E-DCH MAC-d Flows to Add	0		9.2.3.38		-	
>E-DCH MAC-d Flows to Delete	0		9.2.1.90		_	
>E-DCH TDD Information LCR	0		9.2.3.40a		-	
>E-DCH TDD Information to Modify	0		9.2.3.42		-	
Need for Idle Interval	0		ENUMERAT ED (True, False)	TDD only	YES	ignore
CPC Information		01			YES	reject
>Continuous Packet Connectivity DRX Information LCR	0		9.2.3.61		-	,
>Continuous Packet Connectivity DRX Information To Modify LCR	0		9.2.3.62		-	
>HS-DSCH Semi-Persistent scheduling Information LCR	0		9.2.3.64		_	
>HS-DSCH Semi-Persistent scheduling Information to modify LCR	0		9.2.3.65		-	
>HS-DSCH Semi-Persistent scheduling Deactivate Indicator LCR	0		9.2.3.70		_	
>E-DCH Semi-Persistent scheduling Information LCR	0		9.2.3.66		_	
<ul> <li>&gt;E-DCH Semi-Persistent scheduling Information to modify LCR</li> </ul>	0		9.2.3.67		_	
>E-DCH Semi-Persistent scheduling Deactivate Indicator LCR	0		9.2.3.71		_	

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IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
RNTI Allocation Indicator	0		ENUMERAT ED (True)	1.28 Mcps TDD only	YES	ignore
DCH Measurement Type indicator	0		9.2.3.76	1.28 Mcps TDD only	YES	reject

Range Bound	Explanation
maxnoofCCTrCHs	Maximum number of CCTrCHs for a UE.
maxnoofDCHs	Maximum number of DCHs for one UE.
maxnoofRLs	Maximum number of RLs for one UE

# 9.1.17 RADIO LINK RECONFIGURATION RESPONSE

#### 9.1.17.1 FDD Message

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Message Type	М		9.2.1.40		YES	reject
Transaction ID	М		9.2.1.59		-	· ·
RL Information Response		0 <maxno ofRLs&gt;</maxno 			EACH	ignore
>RL ID	Μ		9.2.1.49		-	
>Maximum Uplink SIR	0		Uplink SIR 9.2.1.69		Ι	
>Minimum Uplink SIR	0		Uplink SIR 9.2.1.69		-	
>Maximum DL TX Power	0		DL Power 9.2.1.21A		Ι	
>Minimum DL TX Power	0		DL Power 9.2.1.21A		-	
>Not Used	0		NULL		_	
>DCH Information Response	0		9.2.1.16A		YES	ignore
>DL Code Information	0		FDD DL Code Information 9.2.2.14A		YES	ignore
>DL Power Balancing Updated Indicator	0		9.2.2.10D		YES	ignore
>E-DCH FDD Information Response	0		9.2.2.4C		YES	ignore
>E-DCH RL Set ID	0		RL Set ID 9.2.2.35		YES	ignore
>E-DCH FDD DL Control Channel Information	0		9.2.2.4D		YES	ignore
>F-DPCH Slot Format	0		9.2.2.85		YES	ignore
>HS-DSCH Preconfiguration Info	0		9.2.2.99		YES	ignore
>Non-Serving RL Preconfiguration Info	0		9.2.2.125		YES	ignore
Criticality Diagnostics	0		9.2.1.13		YES	ignore
HS-DSCH-RNTI	0		9.2.1.30P		YES	ignore
HS-DSCH Information Response	0		HS-DSCH FDD Information Response 9.2.2.19b		YES	ignore
MAC-hs Reset Indicator	0		9.2.1.34B		YES	ignore
Continuous Packet Connectivity HS-SCCH less Information Response	0		9.2.2.75		YES	Ignore
Additional HS Cell Information Response		0 <maxno ofHSDSC H-1&gt;</maxno 		For secondary serving HS- DSCH cell. Max 1 in this 3GPP release.	EACH	ignore
>HS-PDSCH RL ID	М		RL ID 9.2.1.49		-	
>HS-DSCH-RNTI	М		9.2.1.30P		_	
>HS-DSCH FDD Secondary Serving Information Response	М		9.2.2.19ba		-	
Additional E-DCH Cell		0 <maxno< td=""><td></td><td>E-DCH on</td><td>EACH</td><td>ignore</td></maxno<>		E-DCH on	EACH	ignore

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Information Response RLReconf		ofEDCH- 1>		Secondary uplink frequency – max 1 in this 3GPP release.		
>Additional E-DCH FDD Information Response	0		9.2.2.120	For new E- DCH Radio Links on secondary carrier	-	
>Additional Modified E- DCH FDD Information Response	0		9.2.2.121		_	

Range Bound	Explanation
maxnoofRLs	Maximum number of RLs for a UE.
maxnoofHSDSCH-1	Maximum number of Secondary Serving HS-DSCH cells for one UE.
maxnoofEDCH-1	Maximum number of uplink frequencies -1 for E-DCH for one UE

# 9.1.17.2 TDD Message

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Message Type	М		9.2.1.40	•	YES	reject
Transaction ID	М		9.2.1.59		_	· · ·
RL Information Response		0 <max noofRLs &gt;</max 		See note 1 below	YES	ignore
>RL ID	М		9.2.1.49		_	
>Maximum Uplink SIR	0		Uplink SIR 9.2.1.69		_	
>Minimum Uplink SIR	0		Uplink SIR 9.2.1.69		_	
>Maximum DL TX Power	0		DL Power 9.2.1.21A		-	
>Minimum DL TX Power	0		DL Power 9.2.1.21A		-	
>DCH Information Response	0		9.2.1.16A		YES	ignore
>DL CCTrCH Information		0 <max noofCC TrCHs&gt;</max 		For DCH	GLOBAL	ignore
>>CCTrCH ID	М		9.2.3.2		—	ļ
>>DL DPCH To Modify LCR		01		Applicable to 1.28Mcps TDD only	YES	ignore
>>>DL Timeslot Information LCR		0 <max noOfTS LCR&gt;</max 			_	
>>>>Time Slot LCR	Μ		9.2.3.12a		-	
>>>>Maximum DL TX Power	0		DL Power 9.2.1.21A	Maximum allowed power on DPCH	-	
>>>>Minimum DL TX Power	0		DL Power 9.2.1.21A	Minimum allowed power on DPCH	-	
>>CCTrCH Maximum DL TX Power	0		DL Power 9.2.1.21A	Maximum allowed power on DPCH Applicable to 3.84Mcps TDD and 7.68Mcps TDD only	YES	ignore
>>CCTrCH Minimum DL TX Power	0		DL Power 9.2.1.21A	Minimum allowed power on DPCH Applicable to 3.84Mcps TDD and 7.68Mcps TDD only	YES	ignore
>Uplink Timing Advance Control LCR	0		9.2.3.13K	Applicable to 1.28Mcps TDD only	YES	ignore
Criticality Diagnostics	0		9.2.1.13		YES	ignore
HS-DSCH-RNTI	0		9.2.1.30P		YES	ignore
HS-DSCH Information Response	0		HS-DSCH TDD Information		YES	ignore
			Response 9.2.3.3ab			
MAC-hs Reset Indicator	0				YES	ignore

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
			Response 9.2.3.41			
E-DCH Information Response 7.68Mcps	0		E-DCH TDD Information Response 7.68Mcps 9.2.3.52	7.68Mcps TDD only	YES	ignore
E-DCH Information Response 1.28Mcps	0		E-DCH TDD Information Response 1.28Mcps 9.2.3.41a	1.28Mcps TDD only	YES	ignore
PowerControl GAP	0		INTEGER (1255)	1.28Mcps TDD only	YES	ignore
Idle Interval Information	0		9.2.3.60	TDD only	YES	ignore
Continuous Packet Connectivity DRX Information Response LCR	0		9.2.3.63	1.28 Mcps TDD only	YES	ignore
HS-DSCH Semi-Persistent scheduling Information Response LCR	0		9.2.3.68	1.28 Mcps TDD only	YES	ignore
E-DCH Semi-Persistent scheduling Information Response LCR	0		9.2.3.69	1.28 Mcps TDD only	YES	ignore
E-RNTI for FACH	0		E-RNTI 9.2.1.94	1.28 Mcps TDD only	YES	ignore
H-RNTI for FACH	0		HS-DSCH- RNTI 9.2.1.30P	1.28 Mcps TDD only	YES	ignore
DCH Measurement Occasion Information	0		9.2.3.75	1.28 Mcps TDD only	YES	reject
Note 1: This information eler maxnoofRLs are rep						on 2 through

Range bound	Explanation
maxnoofCCTrCHs	Maximum number of CCTrCHs for a UE.
maxnoofTSLCRs	Maximum number of Timeslots for a UE for 1.28Mcps TDD.
maxnoofRLs	Maximum number of RLs for one UE

# 9.1.18 RADIO LINK FAILURE INDICATION

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Message Type	Μ		9.2.1.40		YES	ignore
Transaction ID	Μ		9.2.1.59		-	
CHOICE Reporting Object	М			Object for which the Failure shall be reported.	YES	ignore
>RL					-	
>>RL Information		1 <maxnoof RLs&gt;</maxnoof 			EACH	ignore
>>>RL ID	М		9.2.1.49		_	
>>>Cause	Μ		9.2.1.5		-	
>RLS				FDD only	-	
>>RL Set Information		1 <maxnoof RLSets&gt;</maxnoof 			EACH	ignore
>>>RL Set ID	Μ		9.2.2.35		_	
>>>Cause	Μ		9.2.1.5		-	
>CCTrCH				TDD only		
>>RL ID	М		9.2.1.49		-	
>>CCTrCH List		1 <maxnoc CTrCHs&gt;</maxnoc 			EACH	ignore
>>>CCTrCH ID	М		9.2.3.2		-	
>>>Cause	М		9.2.1.5		-	

Range bound	Explanation
maxnoofRLs	Maximum number of RLs for one UE.
maxnoofRLSets	Maximum number of RL Sets for one UE.
maxnoofCCTrCHs	Maximum number of CCTrCHs for a UE.

#### 9.1.19 RADIO LINK RESTORE INDICATION

IE/Group Name	Presence	Range	IE Type and	Semantics Description	Criticality	Assigned Criticality
			Reference			
Message Type	Μ		9.2.1.40		YES	ignore
Transaction ID	Μ		9.2.1.59		-	
CHOICE Reporting Object	М			Object for which the Restoration shall be reported.	YES	ignore
>RL				TDD only	-	
>>RL Information		1 <max noofRLs &gt;</max 			EACH	ignore
>>>RL ID	Μ		9.2.1.49		-	
>RLS				FDD only	-	
>>RL Set Information		1 <max noofRL Sets&gt;</max 			EACH	ignore
>>>RL Set ID	Μ		9.2.2.35		-	
>CCTrCH				TDD only		
>>RL ID	М		9.2.1.49		_	
>>CCTrCH List		1 <max noCCTr CHs&gt;</max 			EACH	ignore
>>>CCTrCH ID	Μ		9.2.3.2		_	

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Range bound	Explanation
maxnoofRLs	Maximum number of RLs for one UE.
maxnoofRLSets	Maximum number of RL Sets for one UE.
maxnoofCCTrCHs	Maximum number of CCTrCHs for a UE.

# 9.1.20 DL POWER CONTROL REQUEST [FDD]

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Message Type	Μ		9.2.1.40		YES	ignore
Transaction ID	М		9.2.1.59		_	
Power Adjustment Type	М		9.2.2.28		YES	ignore
DL Reference Power	C- Common		DL Power 9.2.1.21A		YES	ignore
Inner Loop DL PC Status	0		9.2.2.21a		YES	ignore
DL Reference Power Information	C- Individual	1 <maxnoo fRLs&gt;</maxnoo 			EACH	ignore
>RL ID	М		9.2.1.49		_	
>DL Reference Power	М		DL Power 9.2.1.21A		_	
Max Adjustment Step	C- CommonO rIndividual		9.2.2.23		YES	ignore
Adjustment Period	C- CommonO rIndividual		9.2.2.B		YES	ignore
Adjustment Ratio	C- CommonO rIndividual		9.2.2.C		YES	ignore

Condition	Explanation
Common	The IE shall be present if the <i>Power Adjustment Type</i> IE is set to "Common".
Individual	The IE shall be present if the <i>Power Adjustment Type</i> IE is set to "Individual".
CommonOrIndividual	The IE shall be present if the <i>Power Adjustment Type</i> IE is set to "Common" or "Individual".

Range Bound	Explanation			
maxnoofRLs	Maximum number of RLs for one UE.			

#### 9.1.21 PHYSICAL CHANNEL RECONFIGURATION REQUEST

#### 9.1.21.1 FDD Message

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Message Type	М		9.2.1.40		YES	reject
Transaction ID	М		9.2.1.59		-	
RL Information		1			YES	reject
>RL ID	М		9.2.1.49		-	
>DL Code Information	М		FDD DL Code Information 9.2.2.14A		YES	notify
>F-DPCH Slot Format	0		9.2.2.85		YES	Ignore

# 9.1.21.2 TDD Message

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Message Type	М		9.2.1.40		YES	reject
Transaction ID	М		9.2.1.59		-	
RL Information		1			YES	reject
>RL ID	М		9.2.1.49		-	
>UL CCTrCH Information		0 <maxnoof CCTrCHs&gt;</maxnoof 			GLOBAL	reject
>>CCTrCH ID	М		9.2.3.2		_	
>>UL DPCH Information		1			YES	notify
>>>Repetition Period	0		9.2.3.7		-	
>>>Repetition Length	0		9.2.3.6		_	
>>>TDD DPCH Offset	0		9.2.3.8A		_	
>>>UL Timeslot Information		0 <maxno OfTS&gt;</maxno 		Applicable to 3.84Mcps TDD only	-	
>>>>Time Slot	М		9.2.1.56	•	_	
>>>>Midamble Shift And Burst Type	0		9.2.3.4		-	
>>>>TFCI Presence	0		9.2.1.55		-	
>>>>UL Code Information	0		TDD UL Code Information 9.2.3.10A		_	
>>>UL Timeslot Information LCR		0 <maxno OfTSLCR &gt;</maxno 		Applicable to 1.28Mcps TDD only	GLOBAL	reject
>>>>Time Slot LCR	М		9.2.3.12a		-	
>>>>Midamble Shift LCR	0		9.2.3.4C		-	
>>>>TFCI Presence	0		9.2.1.55		-	
>>>>UL Code Information LCR	0		TDD UL Code Information LCR 9.2.3.10B		-	
>>>>PLCCH Information	0		9.2.3.17		YES	Reject
>>>UL Timeslot Information 7.68Mcps		0 <maxno OfTS&gt;</maxno 		Applicable to 7.68Mcps TDD only	GLOBAL	reject
>>>>Time Slot	Μ		9.2.1.56	<b>*</b>	_	
>>>>Midamble Shift And Burst Type 7.68Mcps	0		9.2.3.23		-	
>>>>TFCI Presence	0		9.2.1.55		_	<u> </u>
>>>>UL Code Information 7.68Mcps	0		TDD UL Code Information 9.2.3.27		_	
>DL CCTrCH Information		0 <maxno ofCCTrCH s&gt;</maxno 			GLOBAL	reject
>>CCTrCH ID	М		9.2.3.2		_	
>>DL DPCH Information		1			YES	notify
>>>Repetition Period	0		9.2.3.7		-	
>>>Repetition Length	0		9.2.3.6		_	
>>>TDD DPCH Offset	0		9.2.3.8A		-	
>>>DL Timeslot Information		0 <maxno OfTS&gt;</maxno 		Applicable to 3.84Mcps TDD only	-	
>>>>Time Slot	М		9.2.1.56		_	
>>>>Midamble Shift	0		9.2.3.4		_	

And Burst Type						
>>>TFCI Presence	0		9.2.1.55		_	
>>>DL Code Information	0		TDD DL Code Information 9.2.3.8C		-	
>>>DL Timeslot Information LCR		0 <maxno OfTSLCR &gt;</maxno 		Applicable to 1.28Mcps TDD only	GLOBAL	reject
>>>>Time Slot LCR	Μ		9.2.3.12a		_	
>>>>Midamble Shift LCR	0		9.2.3.4C		_	
>>>>TFCI Presence	0		9.2.1.55		_	
>>>>DL Code Information LCR	0		TDD DL Code Information LCR 9.2.3.8D		_	
>>>DL Timeslot Information 7.68Mcps		0 <maxno OfTS&gt;</maxno 		Applicable to 7.68Mcps TDD only	GLOBAL	reject
>>>>Time Slot	Μ		9.2.1.56		_	
>>>>Midamble Shift And Burst Type 7.68Mcps	0		9.2.3.23		-	
>>>TFCI Presence	0		9.2.1.55		_	
>>>>DL Code Information 7.68Mcps	0		TDD DL Code Information 7.68Mcps 9.2.3.29		Ι	
>HS-PDSCH Timeslot Specific Information		0 <maxno ofDLts&gt;</maxno 		Applicable to 3.84Mcps TDD only.	GLOBAL	reject
>>Time Slot	М		9.2.1.56		_	
>>Midamble Shift And Burst Type	М		9.2.3.4		_	
>HS-PDSCH Timeslot Specific Information LCR		0 <maxno ofDLtsLCR &gt;</maxno 		Applicable to 1.28Mcps TDD only	GLOBAL	reject
>>Time Slot LCR	М		9.2.3.12a		—	
>>Midamble Shift LCR	М		9.2.3.4C		-	
>HS-PDSCH Timeslot Specific Information 7.68Mcps		0 <maxno ofDLts&gt;</maxno 		Applicable to 7.68Mcps TDD only.	GLOBAL	reject
>>Time Slot	М		9.2.1.56		—	
>>Midamble Shift And Burst Type 7.68Mcps	М		9.2.3.23		_	
>UARFCN	0		9.2.1.66	Applicable to 1.28Mcps TDD only.	YES	ignore

Range bound	Explanation
maxnoofCCTrCHs	Maximum number of CCTrCHs for a UE.
maxnoofTS	Maximum number of Timeslots for a UE for 3.84Mcps TDD or
	7.68Mcps TDD.
maxnoofTSLCR	Maximum number of Timeslots for a UE for 1.28Mcps TDD.
maxnoofDLts	Maximum number of downlink time slots per Radio Link for
	3.84Mcps TDD or 7.68Mcps TDD.
maxnoofDLtsLCR	Maximum number of Downlink time slots per Radio Link for
	1.28Mcps TDD.

# 9.1.22 PHYSICAL CHANNEL RECONFIGURATION COMMAND

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Message Type	М		9.2.1.40		YES	reject
Transaction ID	М		9.2.1.59		-	
CFN	М		9.2.1.9		YES	ignore
Criticality Diagnostics	0		9.2.1.13		YES	ignore

#### 9.1.23 PHYSICAL CHANNEL RECONFIGURATION FAILURE

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Message Type	М		9.2.1.40		YES	reject
Transaction ID	М		9.2.1.59		-	
Cause	М		9.2.1.5		YES	ignore
Criticality Diagnostics	0		9.2.1.13		YES	ignore

#### 9.1.24 UPLINK SIGNALLING TRANSFER INDICATION

#### 9.1.24.1 FDD Message

IE/Group Name	Presence	Range	IE Type and	Semantics Description	Criticality	Assigned Criticality
			Reference	Description		ontiounty
Message Type	Μ		9.2.1.40		YES	ignore
Transaction ID	М		9.2.1.59		_	
UC-ID	М		9.2.1.71		YES	ignore
SAI	М		9.2.1.52		YES	ignore
Cell GAI	0		9.2.1.5A		YES	ignore
C-RNTI	М		9.2.1.14		YES	ignore
S-RNTI	М		9.2.1.53		YES	ignore
D-RNTI	0		9.2.1.24		YES	ignore
Propagation Delay	М		9.2.2.33		YES	ignore
STTD Support Indicator	М		9.2.2.45		YES	ignore
Closed Loop Mode1 Support	Μ		9.2.2.2		YES	ignore
Indicator						
L3 Information	М		9.2.1.32		YES	ignore
CN PS Domain Identifier	0		9.2.1.12		YES	ignore
CN CS Domain Identifier	0		9.2.1.11		YES	ignore
URA Information	0		9.2.1.70B		YES	ignore
Cell GA Additional Shapes	0		9.2.1.5B		YES	ignore
DPC Mode Change Support	0		9.2.2.56		YES	ignore
Indicator						
Common Transport Channel	0		9.2.1.12F		YES	Ignore
Resources Initialisation Not						
Required						

Cell Capability Container FDD	0		9.2.2.D	YES	ignore
SNA Information	0		9.2.1.52Ca	YES	ignore
Cell Portion ID	0		9.2.2.E	YES	ignore
Active MBMS Bearer Service List		0 <max noofActiv eMBMS &gt;</max 		GLOBAL	ignore
>TMGI	Μ		9.2.1.80	_	
>Transmission Mode	Μ		9.2.1.81	_	
Inter-frequency Cell List		0 <max CellsMe as&gt;</max 		GLOBAL	ignore
>DL UARFCN	М		UARFCN 9.2.1.66	_	
>UL UARFCN	0		UARFCN 9.2.1.66	-	
>Primary Scrambling Code	Μ		9.2.1.45	_	
Extended Propagation Delay	0		9.2.2.33a	YES	ignore
HS-DSCH-RNTI	0		9.2.1.30P	YES	ignore
Multiple PLMN List	0		9.2.1.117	YES	ignore
E-RNTI	0		9.2.1.94	YES	ignore
Max UE DTX Cycle	C-DTX- DRXCapab ility		9.2.2.87	YES	ignore
Cell Capability Container FDD Extension	0		9.2.2.123	YES	ignore
Secondary Serving Cell List	0		9.2.2.101	YES	ignore
Dual Band Secondary Serving Cell List	0		Secondary Serving Cell List 9.2.2.101	YES	ignore

Condition	Explanation
DTX-DRXCapability	The IE shall be present if the Continuous Packet Connectivity DTX-DRX
	Support Indicator IE in Cell Capability Container FDD IE is set to 1.

Range bound	Explanation
maxnoofActiveMBMS	Maximum number of MBMS bearer services that are active in parallel.
maxCellsMeas	Maximum number of inter-frequency cells measured by a UE.

# 9.1.24.2 TDD Message

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Message Type	М		9.2.1.40		YES	ignore
Transaction ID	Μ		9.2.1.59		_	
UC-ID	Μ		9.2.1.71		YES	ignore
SAI	Μ		9.2.1.52		YES	ignore
Cell GAI	0		9.2.1.5A		YES	Ignore
C-RNTI	Μ		9.2.1.14		YES	ignore
S-RNTI	Μ		9.2.1.53		YES	ignore
D-RNTI	0		9.2.1.24		YES	ignore
Rx Timing Deviation	Μ		9.2.3.7A		YES	ignore
L3 Information	Μ		9.2.1.32		YES	ignore
CN PS Domain Identifier	0		9.2.1.12		YES	ignore
CN CS Domain Identifier	0		9.2.1.11		YES	ignore
URA Information	0		9.2.1.70B		YES	ignore
Cell GA Additional Shapes	0		9.2.1.5B		YES	ignore
Common Transport Channel Resources Initialisation Not Required	0		9.2.1.12F		YES	ignore
Cell Capability Container TDD	0		9.2.3.1a	Applicable to 3.84Mcps TDD only	YES	ignore
Cell Capability Container TDD LCR	0		9.2.3.1b	Applicable to 1.28Mcps TDD only	YES	ignore
SNA Information	0		9.2.1.52Ca		YES	ignore
Active MBMS Bearer Service List		0 <max noofActiv eMBMS &gt;</max 			GLOBAL	ignore
>TMGI	Μ		9.2.1.80		-	
>Transmission Mode	Μ		9.2.1.81		-	
Cell Capability Container 7.68Mcps TDD	0		9.2.3.31	Applicable to 7.68Mcps TDD only	YES	ignore
Rx Timing Deviation 7.68Mcps	0		9.2.3.30	Applicable to 7.68Mcps TDD only	YES	ignore
Rx Timing Deviation 3.84Mcps Extended	0		9.2.3.35	Applicable to 3.84Mcps TDD only	YES	ignore
Multiple PLMN List	0		9.2.1.117	ĺ	YES	ignore
HS-DSCH-RNTI	0		9.2.1.30P		YES	ignore
E-RNTI	0	1	9.2.1.94		YES	ignore
Cell Portion LCR ID	0		9.2.3.73	Applicable to 1.28Mcps TDD only	YES	ignore

Range bound	Explanation
maxnoofActiveMBMS	Maximum number of MBMS bearer services that are active in
	parallel.

# 9.1.24A GERAN UPLINK SIGNALLING TRANSFER INDICATION

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
Message Type	М		9.2.1.40		YES	ignore
Transaction ID	М		9.2.1.59		_	
UC-ID	M		9.2.1.71	UC-ID may be a GERAN cell identifier.	YES	ignore
SAI	М		9.2.1.52		YES	ignore
S-RNTI	М		9.2.1.53		YES	ignore
D-RNTI	0		9.2.1.24		YES	ignore
L3 Information	М		9.2.1.32		YES	ignore
CN PS Domain Identifier	0		9.2.1.12		YES	ignore
CN CS Domain Identifier	0		9.2.1.11		YES	ignore
URA Information	0		9.2.1.70B	URA information may be GRA information	YES	ignore

#### 9.1.25 DOWNLINK SIGNALLING TRANSFER REQUEST

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Message Type	Μ		9.2.1.40		YES	ignore
Transaction ID	М		9.2.1.59		-	
C-ID	Μ		9.2.1.6	May be a GERAN cell identifier	YES	ignore
D-RNTI	М		9.2.1.24		YES	ignore
L3 Information	Μ		9.2.1.32		YES	ignore
D-RNTI Release Indication	Μ		9.2.1.25		YES	ignore
URA-ID	0		9.2.1.70		YES	ignore
MBMS Bearer Service List		0 <maxno ofMBMS&gt;</maxno 			GLOBAL	ignore
>TMGI	М		9.2.1.80		-	
Old URA-ID	0		URA-ID 9.2.1.70		YES	ignore
SRNC-ID	C-URA		RNC-ID 9.2.1.50	If the Extended SRNC-ID IE is included in the message, the SRNC-ID IE shall be ignored.	YES	ignore
Extended SRNC-ID	0		Extended RNC-ID 9.2.1.50a	The Extended SRNC-ID IE shall be used if the RNC identity has a value larger than 4095.	YES	reject
Enhanced PCH Capability	0		9.2.1.132	FDD and 1.28Mcps TDD only	YES	Ignore

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Condition	Explanation
URA	The IE shall be present if the URA-ID IE or Old URA-ID IE is present.

Range bound	Explanation
maxnoofMBMS	Maximum number of MBMS bearer services that a UE can join.

#### 9.1.26 RELOCATION COMMIT

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Message Type	Μ		9.2.1.40		YES	ignore
Transaction ID	Μ		9.2.1.59		-	
D-RNTI	0		9.2.1.24		YES	ignore
RANAP Relocation Information	0		9.2.1.47		YES	ignore

#### 9.1.27 PAGING REQUEST

IE/Group Name	Presence	Range	IE Type and	Semantics Description	Criticality	Assigned Criticality
			Reference	Decemption		ormounty
Message Type	М		9.2.1.40		YES	ignore
Transaction ID	М		9.2.1.59		_	
CHOICE Paging Area	М				YES	ignore
>URA					-	
>>URA-ID	М		9.2.1.70	May be a GRA-ID.	-	
>Cell				UTRAN only	_	
>>C-ID	М		9.2.1.6		-	
SRNC-ID	Μ		RNC-ID 9.2.1.50	May be a BSC-ID. If the <i>Extended</i> <i>SRNC-ID</i> IE is included in the message, the <i>SRNC-ID</i> IE shall be ignored.	YES	ignore
S-RNTI	М		9.2.1.53	3	YES	ignore
IMSI	М		9.2.1.31		YES	ignore
DRX Cycle Length Coefficient	М		9.2.1.26		YES	ignore
CN Originated Page to Connected Mode UE		01			YES	ignore
>Paging Cause	М		9.2.1.41E		-	
>CN Domain Type	М		9.2.1.11A		-	
>Paging Record Type	М		9.2.1.41F		-	
Extended SRNC-ID	0		Extended RNC-ID 9.2.1.50a	The Extended SRNC-ID IE shall be used if the RNC identity has a value larger than 4095.	YES	reject
Enhanced PCH Capability	0		9.2.1.132	FDD and 1.28Mcps TDD only	YES	Ignore

# 9.1.28 DEDICATED MEASUREMENT INITIATION REQUEST

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Message Type	Μ		9.2.1.40		YES	reject
Transaction ID	Μ		9.2.1.59		_	
Measurement ID	Μ		9.2.1.37		YES	reject
CHOICE Dedicated Measurement Object Type	М				YES	reject
>RL					-	
>>RL Information		1 <maxn oofRLs&gt;</maxn 			EACH	reject
>>>RL-ID	М		9.2.1.49		_	
>>>DPCH ID	0		9.2.3.3	TDD only	-	
>>>DPCH ID 7.68Mcps	0		9.2.3.34	7.68Mcps TDD only	_	
>>>HS-SICH Information		0 <maxn oofHSSI CHs&gt;</maxn 		TDD only	GLOBAL	reject
>>>HS-SICH ID	Μ		9.2.3.3ad		_	
>RLS				FDD only	_	
>>RL Set Information		1 <maxn oofRLSet s&gt;</maxn 			EACH	reject
>>>RL-Set-ID	М		9.2.2.35		_	
>ALL RL			NULL		_	
>ALL RLS			NULL	FDD only	_	
Dedicated Measurement Type	М		9.2.1.18		YES	reject
Measurement Filter Coefficient	0		9.2.1.36		YES	reject
Report Characteristics	М		9.2.1.48		YES	reject
CFN reporting indicator	М		FN reporting indicator 9.2.1.28A		YES	reject
CFN	0		9.2.1.9		YES	reject
Partial Reporting Indicator	0		9.2.1.41Fa		YES	ignore
Measurement Recovery Behavior	0		9.2.1.38A		YES	ignore
Alternative Format Reporting Indicator	0		9.2.1.2D		YES	ignore

Range bound	Explanation
maxnoofRLs	Maximum number of individual RLs a measurement can be started on.
maxnoofRLSets	Maximum number of individual RL Sets a measurement can be started
	on.

### 9.1.29 DEDICATED MEASUREMENT INITIATION RESPONSE

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Message Type	М		9.2.1.40		YES	reject
Transaction ID	M		9.2.1.59		-	10,000
Measurement ID	M		9.2.1.37		YES	ignore
CHOICE Dedicated	0		3.2.1.37	Dedicated	YES	ignore
Measurement Object Type				Measurement Object Type the measurement was initiated with		ignore
>RL or ALL RL				See Note 1	-	
>>RL Information		1 <maxno ofRLs&gt;</maxno 			EACH	ignore
>>>RL ID	Μ		9.2.1.49		-	
>>>DPCH ID	0		9.2.3.3	TDD only	-	
>>>DPCH ID 7.68Mcps	0		9.2.3.34	7.68Mcps TDD only	-	
>>>Dedicated	М		9.2.1.19		_	
Measurement Value	0			Dodicated		
>>>CFIN			9.2.1.9	Dedicated Measuremen t Time Reference	_	
>>>HS-SICH ID	0		9.2.3.3ad	TDD only	YES	reject
>>>Multiple Dedicated Measurement Value Information		0 <maxno ofDPCHsP erRL-1&gt;</maxno 		Applicable to 3.84Mcps TDD only	GLOBAL	ignore
>>>>DPCH ID	М		9.2.3.3		_	
>>>Dedicated	М		9.2.1.19		_	
Measurement Value	101		3.2.1.13			
>>>Multiple Dedicated Measurement Value Information LCR		0 <maxno ofDPCHsL CRPerRL- 1&gt;</maxno 		Applicable to 1.28McpsTD D only	GLOBAL	ignore
>>>>DPCH ID	М		9.2.3.3		_	
>>>>Dedicated	M		9.2.1.19			
	171		9.2.1.19			
Measurement Value >>>Multiple HS-SICH Measurement Value Information		0 <maxno ofHSSICHs -1&gt;</maxno 		TDD only	GLOBAL	ignore
>>>HS-SICH ID	М	1	9.2.3.3ad		_	
>>>Dedicated	M	1	9.2.1.19		_	
			3.2.1.13		_	
Measurement Value >>>Multiple Dedicated Measurement Value Information 7.68Mcps		0 <maxno ofDPCHs7 68PerRL- 1&gt;</maxno 		Applicable to 7.68Mcps TDD only	GLOBAL	ignore
>>>>DPCH ID 7.68Mcps	М		9.2.3.34		-	
>>>>Dedicated Measurement Value	М		9.2.1.19		-	
>RLS or ALL RLS				FDD only See Note 2	_	
>>RL Set Information		1 <maxno ofRLSets&gt;</maxno 			EACH	ignore
>>>RL Set ID	М		9.2.2.35		_	
>>>Dedicated	M		9.2.1.19		_	

Measurement Value						
>>>CFN	0		9.2.1.9	Dedicated	_	
				Measuremen		
				t Time		
				Reference		
Criticality Diagnostics	0		9.2.1.13		YES	Ignore
Measurement Recovery	0		9.2.1.38C		YES	ignore
Support Indicator						-
Note 1: This is a simplified re				ifferent choice ta	gs "RL" and "A	LL RL" in
the ASN.1, each have						
Note 2: This is a simplified representation of the ASN.1: there are two different choice tags "RLS" and "ALL RLS" in					'ALL RLS" in	
the ASN.1, each having exactly the same structure.						

Range bound	Explanation
maxnoofRLs	Maximum number of individual RLs the measurement can be started on.
maxnoofRLSets	Maximum number of individual RL Sets the measurement can be started on.
maxnoofDPCHsPerRL	Maximum number of DPCHs per RL a measurement can be started on for 3.84Mcps TDD
maxnoofDPCHsLCRPerRL	Maximum number of DPCHs per RL a measurement can be started on for 1.28Mcps TDD
maxnoofHSSICHs	Maximum number of HSSICHs per RL a measurement can be started on
maxnoofDPCHs768PerRL	Maximum number of DPCHs per RL a measurement can be started on for 7.68Mcps TDD

### 9.1.30 DEDICATED MEASUREMENT INITIATION FAILURE

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Message Type	М		9.2.1.40		YES	reject
Transaction ID	М		9.2.1.59			
Measurement ID	М		9.2.1.37		YES	ignore
Cause	М		9.2.1.5		YES	ignore
Criticality Diagnostics	0		9.2.1.13		YES	ignore
CHOICE Dedicated Measurement Object Type	0			Dedicated Measuremen t Object Type the measuremen t was initiated with	YES	ignore
>RL or ALL RL					_	
>>Unsuccessful RL Information		1 <maxno ofRLs&gt;</maxno 			EACH	ignore
>>>RL ID	М		9.2.1.49		-	
>>>Individual Cause	0		Cause 9.2.1.5		-	
>>Successful RL		0 <maxno< td=""><td></td><td></td><td>EACH</td><td>ignore</td></maxno<>			EACH	ignore
Information		ofRLs-1>				-
>>>RL ID	М		9.2.1.49		-	
>>>DPCH ID	0		9.2.3.3	TDD only	-	
>>>Dedicated Measurement Value	М		9.2.1.19		-	
>>>CFN	0		9.2.1.9	Dedicated Measuremen t Time Reference	_	
>>>HS-SICH ID	0		9.2.3.3ad	TDD only	YES	reject
>RLS or ALL RLS				FDD only	-	
>>Unsuccessful RL Set Information		1 <maxno ofRLSets&gt;</maxno 			EACH	ignore
>>>RL Set ID	М		9.2.2.35		_	
>>>Individual Cause	0		Cause 9.2.1.5		_	
>>Successful RL Set Information		0 <maxno ofRLSets- 1&gt;</maxno 			EACH	ignore
>>>RL Set ID	М		9.2.2.35		-	
>>>Dedicated Measurement Value	М		9.2.1.19		_	
>>>CFN	0		9.2.1.9	Dedicated Measuremen t Time Reference	-	

Range bound	Explanation
maxnoofRLs	Maximum number of individual RLs the measurement can be started on.
maxnoofRLSets	Maximum number of individual RL Sets the measurement can be started
	on.

### 9.1.31 DEDICATED MEASUREMENT REPORT

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Message Type	Μ		9.2.1.40		YES	ignore
Transaction ID	Μ		9.2.1.59		_	
Measurement ID	Μ		9.2.1.37		YES	ignore
CHOICE Dedicated Measurement Object Type	М			Dedicated Measuremen t Object Type the measuremen t was initiated with	YES	ignore
>RL or ALL RL				See Note 1	_	
>>RL Information		1 <maxnoo fRLs&gt;</maxnoo 			EACH	ignore
>>>RL-ID	М		9.2.1.49		_	
>>>DPCH ID	0		9.2.3.3	TDD only	_	
>>>DPCH ID 7.68Mcps	0		9.2.3.34	7.68Mcps TDD only	_	
>>>Dedicated Measurement Value Information	М		9.2.1.19A		_	
>>HS-SICH ID	0		9.2.3.3ad	TDD only	YES	ignore
>RLS or ALL RLS				FDD only See Note 2	-	
>>RL Set Information		1 <maxnoo fRLSets&gt;</maxnoo 			EACH	ignore
>>>RL Set ID	М		9.2.2.35		_	
>>>Dedicated Measurement Value Information	М		9.2.1.19A		_	
Measurement Recovery Reporting Indicator	0		9.2.1.38B		YES	ignore
Note 1:This is a simplified r the ASN.1, each haveNote 2:This is a simplified r the ASN.1, each have	ving exactly the	e same structur of the ASN.1: th	e. here are two di		-	

Range bound	Explanation
maxnoofRLs	Maximum number of individual RLs the measurement can be started
	on.
maxnoofRLSets	Maximum number of individual RL Sets the measurement can be started on.

### 9.1.32 DEDICATED MEASUREMENT TERMINATION REQUEST

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Message Type	М		9.2.1.40		YES	ignore
Transaction ID	М		9.2.1.59		-	
Measurement ID	М		9.2.1.37		YES	ignore

# 9.1.33 DEDICATED MEASUREMENT FAILURE INDICATION

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Message Type	М		9.2.1.40		YES	ignore
Transaction ID	М		9.2.1.59		_	
Measurement ID	Μ		9.2.1.37		YES	ignore
Cause	Μ		9.2.1.5		YES	ignore
CHOICE Dedicated Measurement Object Type	0			Dedicated Measuremen t Object Type the measuremen t was initiated with	YES	ignore
>RL or ALL RL					_	
>>Unsuccessful RL Information		1 <maxnoof RLs&gt;</maxnoof 			EACH	ignore
>>>RL ID	М		9.2.1.49		-	
>>>Individual Cause	0		Cause 9.2.1.5		-	
>RLS or ALL RLS				FDD only	_	
>>Unsuccessful RL Set Information		1 <maxnoof RLSets&gt;</maxnoof 			EACH	ignore
>>>RL Set ID	М		9.2.2.35		-	
>>>Individual Cause	0		Cause 9.2.1.5		_	

Range bound	Explanation
maxnoofRLs	Maximum number of individual RLs the measurement can be started on.
maxnoofRLSets	Maximum number of individual RL Sets the measurement can be started
	on.

#### 9.1.34 COMMON TRANSPORT CHANNEL RESOURCES RELEASE REQUEST

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Message Type	М		9.2.1.40		YES	ignore
Transaction ID	М		9.2.1.59		_	
D-RNTI	М		9.2.1.24		YES	ignore

# 9.1.35 COMMON TRANSPORT CHANNEL RESOURCES REQUEST

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Message Type	M		9.2.1.40		YES	reject
Transaction ID	M		9.2.1.59			10,000
D-RNTI	M		9.2.1.24		YES	reject
C-ID	0		9.2.1.6		YES	reject
Transport Bearer Request Indicator	M		9.2.1.61	Request a new transport bearer or to use an existing bearer for the user plane.	YES	reject
Transport Bearer ID	М		9.2.1.60	Indicates the lur transport bearer to be used for the user plane.	YES	reject
Permanent NAS UE Identity	0		9.2.1.73		YES	ignore
Binding ID	0		9.2.1.3	Shall be ignored if bearer establishme nt with ALCAP.	YES	ignore
Transport Layer Address	0		9.2.1.62	Shall be ignored if bearer establishme nt with ALCAP.	YES	ignore
MBMS Bearer Service List		0 <max noofMB MS&gt;</max 			GLOBAL	notify
>TMGI	Μ		9.2.1.80		_	
TNL QoS	0		9.2.1.56A	Shall be ignored if bearer establishme nt with ALCAP.	YES	ignore
Enhanced FACH Support Indicator	0		9.2.1.131	FDD and 1.28Mcps TDD only	YES	Ignore
Common E-DCH Support Indicator	0		9.2.2.92	FDD only	YES	Ignore
HS-DSCH Physical Layer Category	0		9.2.1.30Oa		Yes	Ignore
UE with enhanced HS- SCCH support indicator	0		NULL	UE supports enhanced HS-SCCH functionality: - UE supports different HS- SCCH in consecutive TTIs	YES	ignore

Range bound	Explanation			
maxnoofMBMS	Maximum number of MBMS bearer services that a UE can join.			

# 9.1.36 COMMON TRANSPORT CHANNEL RESOURCES RESPONSE

#### 9.1.36.1 FDD Message

IE/Group Name	Presence	Range	IE Type	Semantics	Criticality	Assigned
			and Reference	Description		Criticality
Message Type	М		9.2.1.40		YES	reject
Transaction ID	M		9.2.1.59		_	
S-RNTI	M		9.2.1.53		YES	ignore
C-RNTI FACH Info for UE Selected	0	1	9.2.1.14		YES YES	ignore
S-CCPCH		1			TES	ignore
>FACH Flow Control Information	Μ		9.2.1.26C	If the Enhanced FACH Information Response IE is included in the message, the FACH Flow Control Information IE shall be ignored.	YES	ignore
Transport Layer Address	0		9.2.1.62	- g. e. e a	YES	ignore
Binding Identity	0		9.2.1.3		YES	ignore
Criticality Diagnostics	0		9.2.1.13		YES	ignore
C-ID	М		9.2.1.6		YES	ignore
Active MBMS Bearer Service List		0 <maxnoo fActiveMB</maxnoo 			GLOBAL	ignore
>TMGI	М	MS>	9.2.1.80		_	
>Transmission Mode	M		9.2.1.81		_	
Enhanced FACH Information Response		01	0.2		YES	ignore
>Common HS-DSCH- RNTI Priority Queue Information for Enhanced FACH	Μ		Priority Queue Information for Enhanced FACH/PC H 9.2.1.133		_	
>Dedicated HS-DSCH- RNTI Priority Queue Information for Enhanced FACH	М		Priority Queue Information for Enhanced FACH/PC H 9.2.1.133		_	
>Priority Queue Information for Enhanced PCH	0		Priority Queue Information for Enhanced FACH/PC H 9.2.1.133		_	
>HS-DSCH Initial Capacity Allocation	М		9.2.1.30Na		-	
>HS-DSCH-RNTI	0		9.2.1.30P		-	
Common E-DCH MAC-d Flow Specific Information	0		9.2.2.93		_	

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E-RNTI	0	9.2.1.94	YES	ignore

Explanation
ximum number of MBMS bearer services that are active in allel.

# 9.1.36.2 TDD Message

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Message Type	М		9.2.1.40		YES	reject
Transaction ID	М		9.2.1.59		_	
S-RNTI	M		9.2.1.53		YES	ignore
C-RNTI	0		9.2.1.14		YES	ignore
FACH Info for UE Selected S-CCPCHs		1			YES	ignore
>FACH Flow Control Information	М		9.2.1.26C	If the Enhanced FACH Information Response IE is included in the message, the FACH Flow Control Information IE shall be ignored.	YES	ignore
Transport Layer Address	0		9.2.1.62		YES	ignore
Binding Identity	0		9.2.1.3		YES	ignore
Criticality Diagnostics	0		9.2.1.13		YES	ignore
C-ID	M		9.2.1.6		YES	ignore
Active MBMS Bearer	101	0 <maxno< td=""><td>0.2.1.0</td><td></td><td>GLOBAL</td><td>ignore</td></maxno<>	0.2.1.0		GLOBAL	ignore
Service List		ofActiveMB MS>			GLOBAL	ignore
>TMGI	Μ		9.2.1.80		_	
>Transmission Mode	Μ		9.2.1.81		_	
Enhanced FACH Information Response		0 1			YES	ignore
>Common HS-DSCH- RNTI Priority Queue Information for Enhanced FACH	М		Priority Queue Information for Enhanced FACH/PC H 9.2.1.133		_	
>Dedicated HS-DSCH- RNTI Priority Queue Information for Enhanced FACH	М		Priority Queue Information for Enhanced FACH/PC H 9.2.1.133		_	
>Priority Queue Information for Enhanced PCH	0		Priority Queue Information for Enhanced FACH/PC H 9.2.1.133		_	
>HS-DSCH Initial	М		9.2.1.30Na		_	
Capacity Allocation			0			
>HS-DSCH-RNTI	0	1	9.2.1.30P		_	1
Common E-DCH MAC-d Flow Specific Information LCR	0		9.2.3.58		YES	ignore

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Range bound	Explanation
	Maximum number of MBMS bearer services that are active in parallel.

#### 9.1.37 COMMON TRANSPORT CHANNEL RESOURCES FAILURE

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Message Type	Μ		9.2.1.40		YES	reject
Transaction ID	М		9.2.1.59		-	
S-RNTI	М		9.2.1.53		YES	ignore
Cause	Μ		9.2.1.5		YES	ignore
Criticality Diagnostics	0		9.2.1.13		YES	ignore

# 9.1.38 COMPRESSED MODE COMMAND [FDD]

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Message Type	М		9.2.1.40		YES	ignore
Transaction ID	М		9.2.1.59		_	
Active Pattern Sequence Information	М		9.2.2.A		YES	ignore

#### 9.1.39 ERROR INDICATION

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Message Type	M		9.2.1.40		YES	ignore
Transaction ID	Μ		9.2.1.59		-	
Cause	0		9.2.1.5		YES	ignore
Criticality Diagnostics	0		9.2.1.13		YES	ignore
S-RNTI	0		9.2.1.53		YES	ignore
D-RNTI	0		9.2.1.24		YES	ignore

# 9.1.40 DL POWER TIMESLOT CONTROL REQUEST [TDD]

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Message Type	М		9.2.1.40		YES	ignore
Transaction ID	М		9.2.1.59		—	
DL Time Slot ISCP Info	0		9.2.3.2D	Mandatory for 3.84Mcps TDD and 7.68Mcps TDD, not applicable to 1.28Mcps TDD	YES	ignore
DL Time Slot ISCP Info LCR	0		9.2.3.2F	Mandatory for 1.28Mcps TDD, not applicable to 3.84Mcps TDD or 7.68Mcps TDD	YES	ignore
Primary CCPCH RSCP	0		9.2.3.5		YES	ignore
Primary CCPCH RSCP Delta	0		9.2.3.5a		YES	ignore

#### 9.1.41 RADIO LINK PREEMPTION REQUIRED INDICATION

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Message Type	М		9.2.1.40		YES	ignore
Transaction ID	М		9.2.1.59		-	
RL Information		0 <maxno ofRLs&gt;</maxno 			EACH	ignore
>RL ID	М		9.2.1.49		_	
>E-DCH MAC-d Flow Specific Information		0 <maxno ofEDCHM ACdFlows &gt;</maxno 			EACH	ignore
>>E-DCH MAC-d Flow ID	М		9.2.1.91		-	
HS-DSCH MAC-d Flow Specific Information		0 <maxno ofMACdFI ows&gt;</maxno 			EACH	ignore
>HS-DSCH MAC-d Flow ID	М		9.2.1.300		-	

Range bound	Explanation		
maxnoofRLs	Maximum number of radio links for one UE		
maxnoofMACdFlows	Maximum number of HS-DSCH MAC-d flows		
maxnoofEDCHMACdFlows	Maximum number of E-DCH MAC-d flows		

# 9.1.42 RADIO LINK CONGESTION INDICATION

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Message Type	М		9.2.1.40		YES	ignore
Transaction ID	М		9.2.1.59		-	
Congestion Cause	0		9.2.1.79		YES	ignore
RL Information		1 <maxno ofRLs&gt;</maxno 			EACH	ignore
>RL ID	М		9.2.1.49		-	
>DCH Rate Information		1 <maxno ofDCHs&gt;</maxno 			EACH	ignore
>>DCH ID	М		9.2.1.16		_	
>>Allowed Rate Information	0		9.2.1.2A		-	
>E-DCH MAC-d Flow Specific Information		0 <maxno ofEDCHM ACdFlows &gt;</maxno 			EACH	ignore
>>E-DCH MAC-d Flow ID	М		9.2.1.91		_	
>DCH Indicator For E- DCH-HSDPA Operation	0		9.2.2.67		YES	ignore

Range bound	Explanation
maxnoofRLs	Maximum number of Radio Links for one UE
maxnoofDCHs	Maximum number of DCHs for one UE.
maxnoofEDCHMACdFlows	Maximum number of E-DCH MAC-d flows

# 9.1.43 COMMON MEASUREMENT INITIATION REQUEST

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Message Type	М		9.2.1.40		YES	reject
Transaction ID	M		9.2.1.59		-	10,000
Measurement ID	M		9.2.1.37		YES	reject
CHOICE Common	M		3.2.1.37		YES	reject
Measurement Object Type	101				120	reject
>Cell					_	
>>Reference Cell Identifier	М		UTRAN	May be a GERAN Cell	-	
			Cell Identifier 9.2.1.71	Identifier		
>>Time Slot	0		9.2.1.56	3.84Mcps TDD and 7.68 Mcps TDD only	_	
>>Time Slot LCR	0		9.2.3.12a	1.28Mcps TDD only	-	
>>Neighbouring Cell Measurement Information		0 <maxn oofMeas NCells&gt;</maxn 		UTRAN only	_	
>>>CHOICE Neighbouring Cell Measurement Information					-	
>>>>Neighbouring FDD Cell Measurement Information				FDD only	_	
>>>>Neighbouring FDD Cell Measurement Information	М		9.2.1.41G		_	
>>>Neighbouring TDD Cell Measurement Information				3.84Mcps TDD only	-	
>>>>Neighbouring TDD Cell Measurement Information	М		9.2.1.41H		_	
>>>>Additional Neighbouring Cell Measurement Information					-	
>>>>Neighbouring TDD Cell Measurement InformationLCR				1.28Mcps TDD only	-	
>>>>Neighbou ring TDD Cell Measurement InformationLCR	М		9.2.1.41Dd		YES	reject
>>>Additional Neighbouring Cell Measurement Information 7.68Mcps					_	
>>>>Neighbouring TDD Cell Measurement Information 7.68 Mcps				7.68Mcps TDD only	_	
>>>>>Neighbou ring TDD Cell Measurement	Μ		9.2.3.32		YES	reject

Information 7.68 Mcps						
>>UARFCN	0	9.2	2.1.66	Applicable to 1.28Mcps TDD only.	YES	ignore
>>UpPCH Position LCR	0	9.2	2.3.56	Applicable to 1.28Mcps TDD only.	YES	ignore
Common Measurement Type	М		2.1.12C		YES	reject
Measurement Filter Coefficient	0		2.1.41	UTRAN only	YES	reject
Report Characteristics	М	9.2	2.1.48		YES	reject
SFN reporting indicator	М	ind 9.2	porting dicator 2.1.28A		YES	reject
SFN	0	9.2	2.1.52A	UTRAN only	YES	reject
Common Measurement Accuracy	0		2.1.12A	UTRAN only	YES	reject
Measurement Recovery Behavior	0		2.1.38A	UTRAN only	YES	ignore
GANSS Time ID	0	9.1	2.1.119a	This IE may only be present if the <i>Common</i> <i>Measurement</i> <i>Type</i> IE is set to "UTRAN GANSS Timing of Cell Frames for UE Positioning". If the <i>Common</i> <i>Measurement</i> <i>Type</i> IE is set to "UTRAN GANSS Timing of Cell Frames for UE Positioning" and this IE is absent, the GANSS time is Galileo system time.	YES	ignore

Range bound	Explanation
maxnoofMeasNCell	Maximum number of neighbouring cells on which
	measurements can be performed.

# 9.1.44 COMMON MEASUREMENT INITIATION RESPONSE

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Message Type	М		9.2.1.40		YES	reject
Transaction ID	М		9.2.1.59		-	
Measurement ID	Μ		9.2.1.37		YES	ignore
CHOICE Common Measurement Object Type	0			Common Measuremen t Object Type that the measuremen t was initiated with.	YES	ignore
>Cell					_	
>Common Measurement value	М		9.2.1.12D		_	
SFN	0		9.2.1.52A	Common Measuremen t Time Reference, UTRAN only.	YES	ignore
Criticality Diagnostics	0		9.2.1.13		YES	ignore
Common Measurement Achieved Accuracy	0		Common Measurem ent Accuracy 9.2.1.12A	UTRAN only	YES	ignore
Measurement Recovery Support Indicator	0		9.2.1.38C	UTRAN only	YES	ignore

#### 9.1.45 COMMON MEASUREMENT INITIATION FAILURE

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Message Type	Μ		9.2.1.40		YES	reject
Transaction ID	М		9.2.1.59		-	
Measurement ID	М		9.2.1.37		YES	ignore
Cause	М		9.2.1.5		YES	ignore
Criticality Diagnostics	0		9.2.1.13		YES	ignore

# 9.1.46 COMMON MEASUREMENT REPORT

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Message Type	М		9.2.1.40		YES	ignore
Transaction ID	М		9.2.1.59		_	
Measurement ID	М		9.2.1.37		YES	ignore
CHOICE Common Measurement Object Type	М			Common Measuremen t Object Type that the measuremen t was initiated with.	YES	ignore
>Cell					_	
>>Common Measurement Value Information	M		9.2.1.12E		_	
SFN	0		9.2.1.52A	Common Measuremen t Time Reference, UTRAN only.	YES	ignore
Measurement Recovery Reporting Indicator	0		9.2.1.38B	UTRAN only	YES	ignore

### 9.1.47 COMMON MEASUREMENT TERMINATION REQUEST

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Message Type	М		9.2.1.40		YES	ignore
Transaction ID	М		9.2.1.59		_	
Measurement ID	М		9.2.1.37		YES	ignore

# 9.1.48 COMMON MEASUREMENT FAILURE INDICATION

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Message Type	М		9.2.1.40		YES	ignore
Transaction ID	М		9.2.1.59		_	
Measurement ID	М		9.2.1.37		YES	ignore
Cause	М		9.2.1.5		YES	ignore

# 9.1.49 INFORMATION EXCHANGE INITIATION REQUEST

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Message Type	М		9.2.1.40		YES	reject
Transaction ID	М		9.2.1.59		-	
Information Exchange ID	М		9.2.1.31A		YES	reject
CHOICE Information	М				YES	reject
Exchange Object Type						
>Cell						
>>C-ID	M		9.2.1.6	May be a GERAN cell identifier	-	
>Additional Information Exchange Object Types					_	
>>GSM Cell					_	
>>>CGI	М		9.2.1.5D		_	
>>MBMS Bearer					-	
Service >>>MBMS Bearer		1 <maxno< td=""><td></td><td></td><td>GLOBAL</td><td>reject</td></maxno<>			GLOBAL	reject
Service List		ofMBMS>			GLUBAL	reject
>>>TMGI	М		9.2.1.80			
>>MBMS Bearer	101		0.2.11.00	FDD only	GLOBAL	reject
Service in MBMS Cell				,		,
>>>MBMS Cell List		1 <maxno ofcell&gt;</maxno 			_	
>>>>C-ID	M		9.2.1.6	Cell identifier of cell in RNC initiating Information Exchange Initiation procedure	_	
>>>>MBMS Bearer		1 <maxno< td=""><td></td><td></td><td>-</td><td></td></maxno<>			-	
Service List		ofMBMS>				
>>>>TMGI	М		9.2.1.80		_	
>>MBMS Cell				FDD only	GLOBAL	reject
>>>MBMS Cell List		1 <maxno ofcell&gt;</maxno 			_	
>>>>C-ID	M		9.2.1.6	Cell identifier of cell in receiving RNC not initiating Information Exchange Initiation procedure	_	
Information Type	М		9.2.1.31E		YES	reject
Information Report Characteristics	Μ		9.2.1.31C		YES	reject

Range bound	Explanation
maxnoofMBMS	Maximum number of MBMS bearer services that a UE can join.
Maxnoofcell	Maximum number of cells that can be indicated in the corresponding IE.

# 9.1.50 INFORMATION EXCHANGE INITIATION RESPONSE

IE/Group Name	Presence	Range	IE Type and	Semantics Description	Criticality	Assigned Criticality
			Reference	Decemption		onnounty
Message Type	М		9.2.1.40		YES	reject
Transaction ID	M		9.2.1.59		_	
Information Exchange ID	M		9.2.1.31A		YES	ignore
CHOICE Information	0				YES	ignore
Exchange Object Type	•					ignere
>Cell					-	
>>Requested Data	Μ		9.2.1.48A		-	
Value						
>Additional Information					-	
Exchange Object Types						
>>MBMS Bearer					-	
Service						
>>>MBMS Bearer		1 <maxno< td=""><td></td><td></td><td>GLOBAL</td><td>ignore</td></maxno<>			GLOBAL	ignore
Service List		ofMBMS>				Ū.
>>>>TMGI	Μ		9.2.1.80		_	
>>>Requested	Μ		9.2.1.48A		-	
Data Value						
>>MBMS Bearer				FDD only	GLOBAL	ignore
Service in MBMS Cell				. ,		3
>>>MBMS Cell List		1 <maxno< td=""><td></td><td></td><td>_</td><td></td></maxno<>			_	
		ofcell>				
>>>>C-ID	M		9.2.1.6	Cell identifier of cell in RNC initiating Information Exchange Initiation procedure	_	
>>>>MBMS Bearer Service List		1 <maxno ofMBMS&gt;</maxno 		procedure	_	
>>>>TMGI	М		9.2.1.80		_	
>>>>Requested Data Value	М		9.2.1.48A		_	
					GLOBAL	
>>MBMS Cell				FDD only	GLOBAL	ignore
>>>MBMS Cell List		1 <maxno ofcell&gt;</maxno 			_	
>>>>C-ID	М		9.2.1.6	Cell identifier of cell in sending RNC not initiating Information Exchange Initiation procedure	_	
>>>Requested Data Value	M		9.2.1.48A		_	
Criticality Diagnostics	0		9.2.1.13		YES	ignore

Range bound	Explanation
maxnoofMBMS	Maximum number of MBMS bearer services that a UE can join.
Maxnoofcell	Maximum number of cells that can be indicated in the corresponding IE.

# 9.1.51 INFORMATION EXCHANGE INITIATION FAILURE

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Message Type	М		9.2.1.40		YES	reject
Transaction ID	М		9.2.1.59		_	
Information Exchange ID	М		9.2.1.31A		YES	ignore
Cause	М		9.2.1.5		YES	ignore
Criticality Diagnostics	0		9.2.1.13		YES	ignore

### 9.1.52 INFORMATION REPORT

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Message Type	М		9.2.1.40		YES	ignore
Transaction ID	M		9.2.1.59		-	ignore
Information Exchange ID	M		9.2.1.31A		YES	ignore
CHOICE Information	М				YES	ignore
Exchange Object Type						
>Cell					-	
>Requested Data Value Information	М		9.2.1.48B		_	
>Additional Information					_	
Exchange Object Types						
>>MBMS Bearer				FDD only	GLOBAL	ignore
Service in MBMS Cell				1 00 01119	0202/12	ignore
>>>MBMS Cell List		1 <maxno ofcell&gt;</maxno 			-	
>>>>C-ID	Μ		9.2.1.6	Cell identifier of cell in receiving RNC initiating Information Exchange Initiation procedure	_	
>>>>MBMS Bearer		1 <maxno< td=""><td></td><td></td><td>_</td><td></td></maxno<>			_	
Service List		ofMBMS>				
>>>>TMGI	M		9.2.1.80		-	
>>>>Requested Data Value Information	M		9.2.1.48B		-	
>>MBMS Cell				FDD only	GLOBAL	ignore
>>>MBMS Cell List		1 <maxno ofcell&gt;</maxno 			_	
>>>>C-ID	М		9.2.1.6	Cell identifier of cell in sending RNC not initiating Information Exchange Initiation procedure	_	
>>>Requested Data Value Information	M		9.2.1.48B		-	

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Range bound	Explanation
maxnoofMBMS	Maximum number of MBMS bearer services that a UE can join.
Maxnoofcell	Maximum number of cells that can be indicated in the corresponding IE.

#### 9.1.53 INFORMATION EXCHANGE TERMINATION REQUEST

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Message Type	Μ		9.2.1.40		YES	ignore
Transaction ID	Μ		9.2.1.59		-	
Information Exchange ID	Μ		9.2.1.31A		YES	ignore

#### 9.1.54 INFORMATION EXCHANGE FAILURE INDICATION

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Message Type	М		9.2.1.40		YES	ignore
Transaction ID	М		9.2.1.59		-	
Information Exchange ID	М		9.2.1.31A		YES	ignore
Cause	М		9.2.1.5		YES	ignore

#### 9.1.55 RESET REQUEST

IE/Group Name	Presence	Range	IE Type and Reference	Semantic s Descripti on	Criticality	Assigned Criticality
Message Type	Μ		9.2.1.40		YES	reject
Transaction ID	М		9.2.1.59		-	

RNC-ID	M		9.2.1.50	Identity of the sending RNC. If the <i>Extended</i> <i>RNC-ID</i> IE is included in the message, the <i>RNC-</i> <i>ID</i> IE shall be ignored.	YES	reject
CHOICE Reset Indicator	М				YES	reject
>Context					_	
>>Context Information		1 <maxre setContext &gt;</maxre 			EACH	reject
>>>CHOICE Context Type	M				-	
>>>SRNTI					_	
>>>>S-RNTI	М		9.2.1.53		_	
>>>DRNTI					_	
>>>>D-RNTI	М		9.2.1.24		_	
>All Contexts			NULL		_	
>Context Group					_	
>>Context Group Information		1 <maxre setContext Groups&gt;</maxre 			EACH	reject
>>>S-RNTI Group	М		9.2.1.53a		_	
Extended RNC-ID	0		9.2.1.50a	Identity of the sending RNC. The <i>Extended</i> <i>RNC-ID</i> IE shall be used if the RNC identity has a value larger than 4095.	YES	reject

Range bound	Explanation
maxResetContext	Maximum number of contexts that can be reset by
	one RESET message.
maxResetContextGroups	Maximum number of context groups that can be reset
	by one RESET message.

# 9.1.56 RESET RESPONSE

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Message Type	М		9.2.1.40		YES	reject
Transaction ID	М		9.2.1.59		_	
RNC-ID	M		9.2.1.50	Identity of the sending RNC. If the <i>Extended</i> <i>RNC-ID</i> IE is included in the message, the <i>RNC-ID</i> IE shall be ignored.	YES	ignore
Criticality Diagnostics	0		9.2.1.13		YES	ignore
Extended RNC-ID	0		9.2.1.50a	Identity of the sending RNC. The <i>Extended</i> <i>RNC-ID</i> IE shall be used if the RNC identity has a value larger than 4095.	YES	reject

# 9.1.57 RADIO LINK ACTIVATION COMMAND

## 9.1.57.1 FDD Message

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Message Type	М		9.2.1.46		YES	ignore
Transaction ID	М		9.2.1.62		-	
Delayed activation		1 <maxnoofrl< td=""><td></td><td></td><td>EACH</td><td>ignore</td></maxnoofrl<>			EACH	ignore
Information		S>				
>RL ID	М		9.2.1.49		-	
>Delayed Activation Update	Μ		9.2.1.19Ab		_	

## 9.1.57.2 TDD Message

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Message Type	М		9.2.1.46		YES	ignore
Transaction ID	М		9.2.1.62		-	
Delayed activation		1 <maxnoofrl< td=""><td></td><td></td><td>EACH</td><td>ignore</td></maxnoofrl<>			EACH	ignore
Information		S>				
>RL ID	Μ		9.2.1.49		-	
>Delayed Activation Update	Μ		9.2.1.19Ab		_	

# 9.1.58 RADIO LINK PARAMETER UPDATE INDICATION

# 9.1.58.1 FDD Message

IE/Group name	Presence	Range	IE Type and Reference	Semantic Description	Criticality	Assigned Criticality
Message type	М		9.2.1.40		YES	ignore
Transaction ID	Μ		9.2.1.59		_	
HS-DSCH FDD Update Information	0		9.2.2.19c		YES	ignore
RL Information		0 <max noofRLs &gt;</max 			EACH	ignore
>RL ld	Μ		9.2.1.49		_	
>Phase Reference Update Indicator	0		9.2.2.27B		_	
E-DCH FDD Update Information	0		9.2.2.19e		YES	ignore
Additional HS Cell Information RL Param Upd		0 <max noofHS DSCH- 1&gt;</max 		For secondary serving HS- DSCH cell. Max 1 in this 3GPP release.	EACH	ignore
>HS-PDSCH RL ID	М		RL ID 9.2.1.49		_	
>HS-DSCH FDD Secondary Serving Update Information	0		9.2.2.19ca		_	
Additional E-DCH Cell Information RL Param Upd		0 <max noofED CH-1&gt;</max 		For E-DCH on multiple frequencies in this DRNS. E-DCH on Secondary uplink frequency – max 1 in this 3GPP release.	EACH	ignore
>Additional E-DCH FDD Update Information	М		9.2.2.122		_	
CPC Recovery Report	0		ENUMERA TED(Initiat ed,)		YES	ignore

Range bound	Explanation
maxnoofHSDSCH-1	Maximum number of Secondary Serving HS-DSCH cells for one UE.
maxnoofEDCH-1	Maximum number of uplink frequencies -1 for E-DCH for one UE

## 9.1.58.2 TDD Message

IE/Group name	Presence	Range	IE Type and Reference	Semantic Description	Criticality	Assigned Criticality
Message type	М		9.2.1.40		YES	ignore
Transaction ID	М		9.2.1.59		-	
HS-DSCH TDD Update Information	0		9.2.3.3ac		YES	ignore

# 9.1.59 UE MEASUREMENT INITIATION REQUEST [TDD]

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Message Type	М		9.2.1.40		YES	reject
Transaction ID	Μ		9.2.1.59		-	
Allowed Queing Time	0		9.2.1.2		YES	reject
Measurement ID	Μ		9.2.1.37		YES	reject
UE Measurement Type	Μ		9.2.3.13Fh		YES	reject
UE Measurement Timeslot information HCR	0		9.2.3.13Fe	3.84 Mcps TDD only	YES	reject
UE Measurement Timeslot information LCR	0		9.2.3.13Ff	1.28 Mcps TDD only	YES	reject
UE Measurement Timeslot information 7.68Mcps	0		9.2.3.33	7.68 Mcps TDD only	YES	reject
Measurement Filter Coefficient	0		9.2.1.36		YES	reject
UE Measurement Report Characteristics	М		9.2.3.13Fc		YES	reject
UE Measurement Parameter Modification Allowed	0		9.2.3.13Fb		YES	reject

# 9.1.60 UE MEASUREMENT INITIATION RESPONSE [TDD]

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Message Type	М		9.2.1.40		YES	reject
Transaction ID	M		9.2.1.59		_	
Measurement ID	M		9.2.1.37		YES	ignore
Measurement Filter Coefficient	0		9.2.1.36		YES	reject
UE Measurement Report Characteristics	0		9.2.3.13Fc		YES	reject
Criticality Diagnostics	0		9.2.1.13		YES	ignore

# 9.1.61 UE MEASUREMENT INITIATION FAILURE [TDD]

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Message Type	М		9.2.1.40		YES	reject
Transaction ID	М		9.2.1.59		-	
Measurement ID	М		9.2.1.37		YES	ignore
Cause	М		9.2.1.5		YES	ignore
Criticality Diagnostics	0		9.2.1.13		YES	ignore

# 9.1.62 UE MEASUREMENT REPORT [TDD]

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Message Type	М		9.2.1.40		YES	ignore
Transaction ID	М		9.2.1.59		-	
Measurement ID	Μ		9.2.1.37		YES	ignore
UE Measurement Value Information	Μ		9.2.3.13Fj		YES	ignore

# 9.1.63 UE MEASUREMENT TERMINATION REQUEST [TDD]

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Message Type	Μ		9.2.1.40		YES	ignore
Transaction ID	Μ		9.2.1.59		-	
Measurement ID	М		9.2.1.37		YES	ignore

# 9.1.64 UE MEASUREMENT FAILURE INDICATION [TDD]

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Message Type	М		9.2.1.40		YES	ignore
Transaction ID	М		9.2.1.59		-	
Measurement ID	Μ		9.2.1.37		YES	ignore
Cause	М		9.2.1.5		YES	ignore

# 9.1.65 IUR INVOKE TRACE

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Message Type	М		9.2.1.40		YES	ignore
Transaction ID	М		9.2.1.59		-	Ŭ
D-RNTI	0		9.2.1.24		YES	ignore
Trace Reference	Μ		9.2.1.58c		YES	ignore
UE Identity	Μ		9.2.1.66A		YES	ignore
Trace Recording Session Reference	М		9.2.1.58b		YES	ignore
List Of Interfaces To Trace		0maxnoo fInterfaces			EACH	ignore
>Interface	M		ENUMERA TED (lub, lur,)		_	
Trace Depth	М		9.2.1.58a		YES	ignore

Range bound	Explanation
maxnoofInterfaces	Maximum of Interfaces to be traced.

# 9.1.66 IUR DEACTIVATE TRACE

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Message Type	Μ		9.2.1.40		YES	ignore
Transaction ID	Μ		9.2.1.59		_	
D-RNTI	0		9.2.1.24		YES	ignore
Trace Reference	М		9.2.1.58c		YES	ignore

# 9.1.67 MBMS ATTACH COMMAND

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Message Type	Μ		9.2.1.40		YES	ignore
Transaction ID	М		9.2.1.59		_	
MBMS Bearer Service List		1 <maxno ofMBMS&gt;</maxno 			GLOBAL	ignore
>TMGI	М		9.2.1.80		-	
CHOICE UE State	0				YES	ignore
>CELL_FACH/CELL_PCH					_	
>>D-RNTI	М		9.2.1.24		-	
>URA_PCH					—	
>>SRNC-ID	M		RNC-ID 9.2.1.50	If the Extended SRNC-ID IE is included in the message, the SRNC-ID IE shall be ignored.	_	
>>URA-ID	M		9.2.1.70		—	
>>Extended SRNC-ID	0		Extended RNC-ID 9.2.1.50a	The Extended SRNC-ID IE shall be used if the RNC identity has a value larger than 4095.	YES	reject

Range bound	Explanation
maxnoofMBMS	Maximum number of MBMS bearer services that a UE can join.

# 9.1.68 MBMS DETACH COMMAND

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Message Type	М		9.2.1.40		YES	ignore
Transaction ID	Μ		9.2.1.59		-	
MBMS Bearer Service List		1 <maxno ofMBMS&gt;</maxno 			GLOBAL	ignore
>TMGI	М		9.2.1.80		_	
CHOICE UE State	0				YES	ignore
>CELL_FACH/CELL_PCH					_	
>>D-RNTI	М		9.2.1.24		_	
>URA_PCH					_	
>>SRNC-ID	M		RNC-ID 9.2.1.50	If the Extended SRNC-ID IE is included in the message, the SRNC-ID IE shall be ignored.	_	
>>URA-ID	Μ		9.2.1.70		_	
>>Extended SRNC-ID	0		Extended RNC-ID 9.2.1.50a	The Extended SRNC-ID IE shall be used if the RNC identity has a value larger than 4095.	YES	reject

Range bound	Explanation					
maxnoofMBMS	Maximum number of MBMS bearer services that a UE can join.					

# 9.1.69 DIRECT INFORMATION TRANSFER

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Message Type	М		9.2.1.40		YES	ignore
Transaction ID	Μ		9.2.1.59		_	
RNC-ID	М		9.2.1.50	ID of an RNC which initiates the procedure. If the <i>Extended</i> <i>RNC-ID</i> IE is included in the message, the <i>RNC-ID</i> IE shall be ignored.	YES	ignore
Provided Information	М		9.2.1.85		YES	ignore
Extended RNC-ID	0		9.2.1.50a	The Extended RNC-ID IE shall be used if the RNC identity has a value larger than 4095.	YES	reject

# 9.1.70 ENHANCED RELOCATION REQUEST

IE/Group Name	Presence	Range	IE Type and	Semantics Description	Criticality	Assigned Criticality
			Reference			<b>,</b>
Message Type	М		9.2.1.40		YES	reject
Transaction ID	М		9.2.1.59		-	
Cause	М		9.2.1.5		YES	reject
Permanent NAS UE Identity	М		9.2.1.73		YES	reject
SRNC-ID	0		RNC-ID 9.2.1.50	If the Extended SRNC-ID IE is included in the message, the SRNC-ID IE shall be ignored.	YES	reject
Extended SRNC-ID	0		Extended RNC-ID 9.2.1.50a	The Extended SRNC-ID IE shall be used if the RNC identity has a value larger than 4095.	YES	reject
S-RNTI	М		9.2.1.53		YES	reject
RANAP Enhanced Relocation Information Request	М		9.2.1.124		YES	reject

# 9.1.71 ENHANCED RELOCATION RESPONSE

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Message Type	М		9.2.1.40		YES	reject
Transaction ID	М		9.2.1.59		_	
RANAP Enhanced Relocation Information Response	М		9.2.1.125		YES	ignore

# 9.1.72 ENHANCED RELOCATION FAILURE

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Message Type	Μ		9.2.1.40		YES	reject
Transaction ID	Μ		9.2.1.59		-	
Cause	Μ		9.2.1.5		YES	ignore
Criticality Diagnostics	0		9.2.1.13		YES	ignore

# 9.1.73 ENHANCED RELOCATION CANCEL

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Message Type	Μ		9.2.1.40		YES	ignore
Transaction ID	Μ		9.2.1.59		-	
Cause	М		9.2.1.5		YES	ignore

# 9.1.74 ENHANCED RELOCATION SIGNALLING TRANSFER

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Message Type	Μ		9.2.1.40		YES	ignore
Transaction ID	Μ		9.2.1.59		-	
L3 Information	Μ		9.2.1.32		YES	ignore

# 9.1.75 ENHANCED RELOCATION RELEASE

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Message Type	Μ		9.2.1.40		YES	ignore
Transaction ID	Μ		9.2.1.59		-	
Released CN Domain	М		9.2.1.126		YES	ignore

# 9.1.76 MBSFN MCCH INFORMATION (FDD)

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Message Type	Μ		9.2.1.40		YES	reject
Transaction ID	Μ		9.2.1.59		_	-
MBSFN Cluster Identity	Μ		9.2.1.128		YES	ignore
MCCH Message List		1 <maxno ofMCCHM essages&gt;</maxno 			YES	reject
>L3 Information	М		9.2.1.32	See Note1 below.	-	
CFN	Μ		9.2.1.9		YES	reject
MCCH Configuration Info		01			YES	ignore
>Secondary CCPCH system information MBMS	М		9.2.1.127		-	
MBSFN Scheduling Transmission Time Interval info List		0< maxNrOf MBMSL3>			YES	ignore
>TMGI	Μ		9.2.1.80		_	
>MBSFN Scheduling Transmission Time Interval	М		9.2.1.129		-	
Note 1: The IE Contains one SERVICES INFORM	IATION, MBM	IS UNMODIFI	ED SERVICES		N, MBMS GEN	

SERVICES INFORMATION, MBMS UNMODIFIED SERVICES INFORMATION, MBMS GENERA INFORMATION, MBMS COMMON P-T-M RB INFORMATION, MBMS CURRENT Cell PTM RB INFORMATION.

Range bound	Explanation
maxnoofMCCHMessages	Maximum number of MCCH Messages simultaneous sent on MCCH
maxNrOfMBMSL3	Maximum number of MBMS service in L3 information

# 9.1.77 SECONDARY UL FREQUENCY REPORT

#### 9.1.77.1 FDD Message

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Message Type	М		9.2.1.40		YES	ignore
Transaction ID	М		9.2.1.59		-	
Activation Information	М		9.2.2.109		YES	ignore

# 9.1.78 SECONDARY UL FREQUENCY UPDATE INDICATION

### 9.1.78.1 FDD Message

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Message Type	М		9.2.1.40		YES	ignore
Transaction ID	М		9.2.1.59		-	
Activation Information	М		9.2.2.109		YES	ignore

# 9.2 Information Element Functional Definition and Contents

## 9.2.0 General

Subclause 9.2 presents the RNSAP IE definitions in tabular format. The corresponding ASN.1 definition is presented in subclause 9.3. In case there is a contradiction between the tabular format in subclause 9.2 and the ASN.1 definition, the ASN.1 shall take precedence, except for the definition of conditions for the presence of conditional elements, in which the tabular format shall take precedence.

When specifying information elements which are to be represented by bitstrings, if not otherwise specifically stated in the semantics description of the concerned IE or elsewhere, the following principle applies with regards to the ordering of bits:

- The first bit (leftmost bit) contains the most significant bit (MSB);
- The last bit (rightmost bit) contains the least significant bit (LSB);
- When importing bitstrings from other specifications, the first bit of the bitstring contains the first bit of the concerned information;

# 9.2.1 Common Parameters

This subclause contains parameters that are common to FDD and TDD.

### 9.2.1.1 Allocation/Retention Priority

This parameter indicates the priority level in the allocation and retention of transport channel resources in DRNS. DRNS may use the Allocation/Retention priority information of the transport channels composing the RL to prioritise requests for RL Setup/addition and reconfiguration. In similar way, DRNS may use the allocation/Retention priority information of the transport channels composing the RL to prioritise which RL shall be set to failure, in case prioritisation is possible. See Annex A.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Priority Level	M		INTEGER(0.	This IE indicates the priority of the request. <b>Usage:</b> Value "0" means "Spare"; It shall be treated as a logical error if received. Values between 1 and 14 are ordered in decreasing order of priority, "1" being the highest and "14" the lowest. Value "15" means "No Priority".
Pre-emption Capability	M		ENUMERAT ED(shall not trigger pre- emption, may trigger pre-emption)	
Pre-emption Vulnerability	М		ENUMERAT ED(not pre- emptable, pre- emptable)	

#### 9.2.1.2 Allowed Queuing Time

This parameter specifies the maximum queuing time that is allowed in the DRNS until the DRNS must start to execute the request.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Allowed Queuing Time			INTEGER(1. .60)	Unit: Seconds

### 9.2.1.2A Allowed Rate Information

The *Allowed Rate Information* IE indicates the TFI corresponding to the highest allowed bit rate for the uplink and/or the downlink of a DCH. The SRNC is allowed to use any rate being lower than or equal to the rate corresponding to the indicated TFI.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Allowed UL Rate	0		INTEGER(1. .maxTFcount )	"1": TFI 0, "2": TFI 1, "3": TFI 2, 
Allowed DL Rate	0		INTEGER(1. .maxTFcount )	"1": TFI 0, "2": TFI 1, "3": TFI 2, …

#### 9.2.1.2B Altitude and Direction

This IE contains a description of Altitude and Direction.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Direction of Altitude	М		ENUMERAT ED(Height, Depth)	
Altitude	М		INTEGER( 02 <sup>15</sup> -1)	The relation between the value (N) and the altitude (a) in meters it describes is $N \le a < N+1$ , except for $N=2^{15}-1$ for which the range is extended to include all grater values of (a).

### 9.2.1.2C Antenna Co-location Indicator

The Antenna Co-location Indicator indicates whether the antenna of the serving and neighbouring cells are approximately co-located.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Antenna Co-location			ENUMERAT	
Indicator			ED(co-	
			located,)	

### 9.2.1.2D Alternative Format Reporting Indicator

This IE indicates if DRNS may report a measurement using an alternative format.

IE/Group Name	Presence	Range	IE Type and	Semantics Description
			Reference	
Alternative Format			ENUMERAT	
Reporting Indicator			ED	
			(Alternative	
			format is	
			allowed,)	

### 9.2.1.3 Binding ID

The Binding ID is the identifier of a user data stream.

In case of transport bearer establishment with ALCAP (TS 25.426 [3]) and (TS 25.424 [35]), this IE contains the identifier that is allocated at the DRNS and that is unique for each transport bearer under establishment to/from the DRNS.

If the Transport Layer Address contains an IP address (IETF RFC 2460 [33]), this IE contains the UDP port (IETF RFC 768 [34]) intended to be used for the user plane transport.

IE/Group Name	Presence	Range	IE Type and	Semantics Description
			Reference	
Binding ID			OCTET	If the Binding ID includes an
			STRING	UDP port, the UDP port is
			(14,)	included in octet 1 and 2.
				The first octet of the UDP
				port field shall be included in
				the first octet of the Binding
				ID.

### 9.2.1.4 BLER

This Block Error Rate defines the target radio interface Transport Block Error Rate of the transport channel. BLER is used by the DRNS to determine the needed SIR targets, for admission control and power management reasons.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
BLER			INTEGER(- 630)	Step 0.1. (Range –6.30). It is the Log10 of the BLER

#### 9.2.1.4A Block STTD Indicator

Void.

#### 9.2.1.4B Burst Mode Parameters

The Burst Mode Parameters IE provides all the relevant information in order to able IPDL in the Burst mode.

IE/Group name	Presence	Range	IE Type and Reference	Semantics Description
Burst Start	М		INTEGER(0.	See TS 25.214 [10] and TS 25.224 [22]
Burst Length	М		INTEGER(1 025)	See TS 25.214 [10] and TS 25.224 [22]
Burst freq	М		INTEGER(1. .16)	See TS 25.214 [10] and TS 25.224 [22]

### 9.2.1.5 Cause

The purpose of the cause information element is to indicate the reason for a particular event for the whole protocol.

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IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
CHOICE Cause Group	М			
		Range	ENUMERATED (Unknown C-ID, Cell not Available, Power Level not Supported, UL Scrambling Code Already in Use, DL Radio Resources not Available, UL Radio Resources not Available, Measurement not Supported For The Object, Combining Resources Not Available, Combining Resources Not Available, Combining not Supported, Recuested Configuration not Supported, Synchronisation Failure, Requested Tx Diversity Mode not Supported, Measurement Temporarily not Available, Unspecified, Invalid CM Settings, Reconfiguration CFN not Elapsed, Number of DL Codes Not Supported, Dedicated Transport Channel Type not Supported, UL Shared Channel Type not Supported, UL Shared Channel Type not Supported, UL Spreading Factor not Supported, DL Spreading Factor not Supported, CM not Supported, Transaction not Supported by Destination Node B, RL Already Activated/Allocated, , Number of UL Codes Not Supported, Cell reserved for operator use, DPC Mode Change not Supported, Information temporarily not available, Information Provision not supported, Cell reserved for operator use, DPC Mode Change not Supported, Cell reserved for operator use, DPC Mode Change not Supported, Continuous Packet Connectivity DTX- DRX operation not supported, Continuous Packet Connectivity HS- SCCH less operation not supported, Continuous Packet Connectivity HS- SCCH less operation not supported, Continuous Packet Connectivity HS- SCCH less operation not supported, E-DCH TTI2ms not supported, E-DCH TTI2ms not supported,	
			E-DCH not supported, Continuous Packet Connectivity DTX- DRX operation not supported, Continuous Packet Connectivity HS- SCCH less operation not supported, MIMO not supported,	

		E-DCH MAC-d PDU Size Format not	Π
		available, E-DPCCH Power Boosting not	
		supported,	
		Trelocprep Expiry,	
		Relocation Cancelled,	
		Traffic Load In The Target Cell Higher	
		Than In The Source Cell,	
		Time critical Relocation,	
		Resource optimisation relocation, Relocation desirable for radio reasons	
		Relocation desirable for radio reasons	
		, Directed Retry,	
		Reduce Load in Serving Cell,	
		No lu CS UP relocation,	
		SixtyfourQAM DL and MIMO	
		Combined not available,	
		Multi Cell operation not available,	
		Multi Cell operation not supported, Semi-Persistent scheduling not	
		supported,	
		Continuous Packet Connectivity DRX	
		not supported,	
		Continuous Packet Connectivity DRX	
		not available,	
		Enhanced Relocation not Supported,	
		Relocation Not Supported Due To PUESBINE Feature,	
		Relocation Failure In Target RNC,	
		Relocation Target not allowed,	
		Requested Ciphering and/or Integrity	
		Protection Algorithms not Supported,	
		SixtyfourQAM DL and MIMO	
		Combined not supported,	
		TX diversity for MIMO UE on DL	
		Control Channels not available, Single Stream MIMO not supported,	
		Single Stream MIMO not available,	
		Multi Cell operation with MIMO not	
		available.	
		Multi Cell operation with MIMO not	
		supported,	
		Multi Cell E-DCH operation not	
		available,	
		Multi Cell E-DCH operation not	
		supported, Multi Call apparation with Single Stream	
		Multi Cell operation with Single Stream MIMO not available,	
		Multi Cell operation with Single Stream	
		MIMO not supported,	
		Cell Specific Tx Diversity Handling For	
		Multi Cell Operation Not Available,	
		Cell Specific Tx Diversity Handling For	
Transport Lavar		Multi Cell Operation Not Supported)	
>Transport Layer	M	ENUMERATED	
>>Transport Layer Cause	IVI	(Transport Resource Unavailable,	
		Unspecified,	
		)	
>Protocol			
>>Protocol Cause	М	ENUMERATED	
		(Transfer Syntax Error,	
		Abstract Syntax Error (Reject),	
		Abstract Syntax Error (Ignore and	
		Notify),	
		Message not Compatible with Receiver State,	
		Semantic Error,	
		Unspecified,	
		Abstract Syntax Error (Falsely	
		Constructed Message),)	
>Misc			
>>Miscellaneous Cause	М	ENUMERATED	
		(Control Processing Overload,	
		Hardware Failure, O&M Intervention,	
1		Οαίνι Πιζεινεπίζοπ,	

Not enough User Plane Processing Resources,
Unspecified,)

The meaning of the different cause values is described in the following table. In general, "not supported" cause values indicate that the concerned capability is missing. On the other hand, "not available" cause values indicate that the concerned capability is present, but insufficient resources were available to perform the requested action.

Radio Network Layer cause	Meaning

Cell not Available	The concerned cell is not available
Cell reserved for operator use	The concerned cell is reserved for operator use
Cell Specific Tx Diversity Handling	Cell specific tx diversity handling for multi cell operation not available in
For Multi Cell Operation Not	the concerned cell(s)
Available	
Cell Specific Tx Diversity Handling	The concerned cell(s) do not support the cell specific tx diversity handling
For Multi Cell Operation Not	for multi cell operation
Supported	
CM not Supported	The concerned cell(s) do not support Compressed Mode
Combining not Supported	The DRNS does not support the RL combining for the concerned cells
Combining Resources Not	The value of the received Diversity Control Field IE was set to "Must", but
Available	the DRNS cannot perform the requested combining
Common Transport Channel Type	The concerned cell(s) do not support the RACH and/or FACH Common
not Supported	Transport Channel Type
Continuous Packet Connectivity	CPC resources for DTX-DRX operation not available in the concerned
DTX-DRX operation not available	cell(s).
Continuous Packet Connectivity	HSPA resources for DRX operation not available in the concerned cell(s).
DRX not available	(for 1.28Mcps TDD only)
Continuous Packet Connectivity	The concerned cell(s) do not support the Continuous Packet Connectivity
DRX not supported	DRX operation (for 1.28Mcps TDD only)
Continuous Packet Connectivity	The concerned cell(s) do not support the Continuous Packet Connectivity
DTX-DRX operation not Supported	DTX-DRX operation
Continuous Packet Connectivity	The concerned cell(s) do not support the Continuous Packet Connectivity
HS-SCCH less operation not	HS-SCCH less operation
Supported	
Continuous Packet Connectivity UE	CPC resources for the UE DTX Cycle not available in the concerned
DTX Cycle not available	cell(s).
Dedicated Transport Channel Type	The concerned cell(s) do not support the Dedicated Transport Channel
not Supported	Type
Delayed Activation not Supported	The concerned cell(s) do not support delayed activation of RLs
Directed Retry	The reason for action is Directed Retry
DL Radio Resources not Available	The DRNS does not have sufficient DL radio resources available
DL SF not Supported	The concerned cell(s) do not support the requested DL SF
DL Shared Channel Type not	The concerned cell(s) do not support the Downlink Shared Channel Type
Supported	The concerned calls do not support the DDC mode changes
DPC Mode Change not Supported E-DCH MAC-d PDU Size Format	The concerned cells do not support the DPC mode changes The selected E-DCH MAC-d PDU Size Format is not available in the
not available	concerned cell(s).
E-DCH not supported	The concerned cell(s) do not support E-DCH
E-DCH TTI2ms not supported	The concerned cell(s) do not support the E-DCH 2ms TTI operation
E-DPCCH Power Boosting not	The concerned cell(s) do not support the E-DPCCH Power Boosting.
supported	
Enhanced Relocation not	The DRNS does not support the Enhanced Relocation.
Supported	
F-DPCH not supported	The concerned cell(s) do not support the Fractional DPCH
F-DPCH Slot Format operation not	The concerned cell(s) do not support the F-DPCH Slot Format operation
supported	
HS-DSCH MAC-d PDU Size	The concerned cell(s) do not support the selected HS-DSCH MAC-d PDU
Format not supported	Size Format
Information Provision not supported	The RNS doesn't support provision of the requested information for the
for the object	concerned object types
Information temporarily not	The RNS can temporarily not provide the requested information
available	
Invalid CM Settings	The concerned cell(s) consider the requested Compressed Mode settings
-	invalid
Measurement not Supported For	At least one of the concerned cell(s) does not support the requested
The Object	measurement on the concerned object type
Measurement Repetition Rate not	The requested parameters for a forwarded UE measurement are not
Compatible with Current	compatible with the current measurement schedule in the SRNC.
Measurements	
Measurement Temporarily not	The DRNS can temporarily not provide the requested measurement value
Available	
MIMO not available	MIMO resources not available in the concerned cell(s).
MIMO not supported	The concerned cell(s) do not support the MIMO operation
Multi Cell E-DCH operation not	Multi cell E-DCH operation is not available in the concerned cell(s).
available	
Multi Cell E-DCH operation not	The concerned cell(s) do not support Multi cell E-DCH operation

e com e este el	
supported	Multi Call an anation recourses not available in the concerned call(a)
Multi Cell operation not available	Multi Cell operation resources not available in the concerned cell(s).
Multi Cell operation not supported	The concerned cell(s) do not support Multi Cell operation
Multi Cell operation with MIMO not available	Multi Cell operation with MIMO resources not available in the concerned cell(s).
Multi Cell operation with MIMO not supported	The concerned cell(s) do not support Multi Cell operationwith MIMO
Multi Cell operation with Single	Multi Cell operation with Single Stream MIMO resources not available in
Stream MIMO not available	the concerned cell(s).
Multi Cell operation with Single	The concerned cell(s) do not support Multi Cell operationwith Single
Stream MIMO not supported	Stream MIMO
No Iu CS UP relocation	The relocation is triggered by CS call and the source RNC has no lu CS user plane.
Number of DL Codes not Supported	The concerned cell(s) do not support the requested number of DL codes
Number of UL Codes not Supported	The concerned cell(s) do not support the requested number of UL codes
Power Balancing status not compatible	The power balancing status in the SRNC is not compatible with that of the DRNC.
Power Level not Supported	A DL power level was requested which the concerned cell(s) do not support
Reconfiguration CFN not Elapsed	The requested action cannot be performed due to that a COMMIT message was received previously, but the concerned CFN has not yet elapsed
Reconfiguration not Allowed	The SRNC does currently not allow the requested reconfiguration
Reduce Load in Serving Cell	Load on serving cell needs to be reduced.
Relocation Cancelled	The reason for the action is relocation cancellation.
Relocation Desirable For Radio Reasons	The reason for requesting relocation is radio related.
Relocation Failure In Target RNC	Relocation failed due to a failure in target RNC.
Relocation Not Supported Due To PUESBINE Feature	The DRNS can not support the relocation due to the PUESBINE Feature.
Relocation Target not allowed	Relocation to the indicated target cell is not allowed for the UE in guestion.
Requested Ciphering And/Or Integrity Protection Algorithms Not Supported	The DRNS does not support the requested ciphering and/or integrity protection algorithms.
Requested Configuration not Supported	The concerned cell(s) do not support the requested configuration i.e. power levels, Transport Formats, physical channel parameters,
Requested Tx Diversity mode not Supported	The concerned cell(s) do not support the requested transmit diversity mode
Resource Optimisation Relocation RL Already Activated/ Allocated	The reason for requesting relocation is resource optimisation. The DRNS has already allocated an RL with the requested RL ID for this UE Context
RL Timing Adjustment not Supported	The concerned cell(s) do not support adjustments of the RL timing
Semi-Persistent scheduling not supported	The concerned cell(s) do not support the Semi-Persistent scheduling operation (for 1.28Mcps TDD only)
SixteenQAM UL not Supported	The concerned cell(s) do not support the 16 QAM UL
SixtyfourQAM DL and MIMO Combined not available	SixtyfourQAM DL and MIMO Combined not available in the concerned cell(s)
SixtyfourQAM DL and MIMO	The DRNS does not support SixtyfourQAM DL and MIMO Combined for
Combined not supported	the concerned cells.
Synchronisation Failure	Loss of UL Uu synchronisation
Time Critical Relocation	Relocation is requested for time critical reason i.e. this cause value is reserved to represent all critical cases where the connection is likely to be dropped if relocation is not performed.
Traffic Load In The Target Cell Higher Than In The Source Cell	Relocation to reduce load in the source cell is rejected, as the target cell's traffic load is higher than that in the source cell.
Transaction not Supported by Destination Node B	The requested action cannot be performed due to lack of support of the corresponding action in the destination Node B
T <sub>RELOCprep</sub> Expiry	Relocation Preparation procedure is cancelled when timer $T_{RELOCprep}$ expires.
Single Stream MIMO not supported	The concerned cell(s) do not support the Single Stream MIMO.
Single Stream MIMO not available	Single Stream MIMO resources not available in the concerned cell(s).
TX diversity for MIMO UE on DL	The DRNS does not have sufficient radio resources available to support
Control Channels not available	transmit diversity on downlink control channels when the UE is configured

	in MIMO mode with P-CPICH & S-CPICH as phase references TS 25.211 [8]
UE not Capable to Implement	The UE is not capable to initiate/report a requested measurement due to
Measurement	its current state or capabilities.
UL Radio Resources not Available	The DRNS does not have sufficient UL radio resources available
UL Scrambling Code Already in	The concerned UL scrambling code is already in use for another UE
Use	
UL SF not Supported	The concerned cell(s) do not support the requested minimum UL SF
UL Shared Channel Type not	The concerned cell(s) do not support the Uplink Shared Channel Type
Supported	
Unknown C-ID	The DRNS is not aware of a cell with the provided C-ID
Unknown RNTI	The SRNC or DRNC is not aware of a UE indicated with the provided
	RNTI
Unspecified	Sent when none of the above cause values applies but still the cause is
	Radio Network Layer related

Transport Network Layer cause	Meaning
Transport resource unavailable	The required transport resources are not available
Unspecified	Sent when none of the above cause values applies but still the cause is Transport Network Layer related

Protocol cause	Meaning
Abstract Syntax Error (Reject)	The received message included an abstract syntax error and the
	concerned criticality indicated "reject" (see subclause 10.3)
Abstract Syntax Error (Ignore and	The received message included an abstract syntax error and the
Notify)	concerned criticality indicated "ignore and notify" (see subclause 10.3)
Abstract syntax error (falsely	The received message contained IEs or IE groups in wrong order or with
constructed message)	too many occurrences (see subclause 10.3)
Message not Compatible with	The received message was not compatible with the receiver state (see
Receiver State	subclause 10.4)
Semantic Error	The received message included a semantic error (see subclause 10.4)
Transfer Syntax Error	The received message included a transfer syntax error (see subclause
	10.2)
Unspecified	Sent when none of the above cause values applies but still the cause is
	Protocol related

Miscellaneous cause	Meaning
Control Processing Overload	DRNS control processing overload
Hardware Failure	DRNS hardware failure
Not enough User Plane Processing Resources	DRNS has insufficient user plane processing resources available
O&M Intervention	Operation and Maintenance intervention related to DRNS equipment
Unspecified	Sent when none of the above cause values applies and the cause is not related to any of the categories Radio Network Layer, Transport Network Layer or Protocol.

## 9.2.1.5A Cell Geographical Area Identity (Cell GAI)

The Cell Geographical Area is used to identify the geographical area of a cell. The area is represented as a polygon. See ref. TS 23.032 [25].

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Cell GAI Geographical Co-ordinates		1 <maxnoofpoints></maxnoofpoints>		
>Latitude Sign	M		ENUMERAT ED(North, South)	
>Degrees of Latitude	M		INTEGER( 02 <sup>23</sup> -1)	The IE value (N) is derived by this formula: $N \le 2^{23} X /90 < N+1$ X being the latitude in degree (0° 90°)
>Degrees of Longitude	M		INTEGER( -2 <sup>23</sup> 2 <sup>23</sup> -1)	The IE value (N) is derived by this formula: $N \le 2^{2^4} X / 360 < N+1$ X being the longitude in degree (-180°+180°)

Range bound	Explanation
maxnoofPoints	Maximum no. of points in polygon.

### 9.2.1.5B Cell Geographical Area Additional Shapes (Cell GAI Additional Shapes)

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
CHOICE Cell GAI				
Additional Shapes				
>GA Point With				
Uncertainty				
>>GA Point With	M		9.2.1.30A	Ellipsoid point with
Uncertainty				uncertainty circle
>GA Ellipsoid point				
with uncertainty Ellipse				
>>GA Ellipsoid	M		9.2.1.30B	Ellipsoid point with
point with uncertainty				uncertainty Ellipse
Ellipse				
>GA Ellipsoid point				
with altitude				
>>GA Ellipsoid	M		9.2.1.30C	Ellipsoid point with altitude
point with altitude				
>GA Ellipsoid point				
with altitude and				
uncertainty Ellipsoid				
>>GA Ellipsoid	M		9.2.1.30D	Ellipsoid point with altitude
point with altitude				and uncertainty Ellipsoid
and uncertainty				
Ellipsoid				
>GA Ellipsoid Arc				
>>GA Ellipsoid Arc	М		9.2.1.30E	Ellipsoid Arc

This IE is used to provide several descriptions of the geographical area of a cell.

## 9.2.1.5C Cell Capacity Class Value

The *Cell Capacity Class Value* IE contains the capacity class for both the uplink and downlink. *Cell Capacity Class Value* IE is the value that classifies the cell capacity with regards to the other cells. *Cell Capacity Class Value* IE only indicates resources that are configured for traffic purposes.

IE/Group Name	Presence	Range	IE Type and	Semantics Description
			Reference	
Uplink Cell Capacity Class Value	М		INTEGER(1. .100,)	Value 1 shall indicate the minimum uplink cell capacity, and 100 shall indicate the maximum uplink cell capacity. . There should be linear relation between uplink cell capacity and Uplink Cell Capacity Class Value.
Downlink Cell Capacity Class Value	М		INTEGER(1. .100,)	Value 1 shall indicate the minimum downlink cell capacity, and 100 shall indicate the maximum downlink cell capacity. There should be linear relation between downlink cell capacity and Downlink Cell Capacity Class Value.

## 9.2.1.5D Cell Global Identifier (CGI)

The Cell Global Identifier IE contains the Cell Global Identity as defined in ref. TS 23.003 [1].

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
LAI		1		
>PLMN Identity	M		OCTET STRING (3)	<ul> <li>digits 0 to 9, two digits per octet,</li> <li>each digit encoded 0000 to 1001,</li> <li>1111 used as filler</li> <li>bit 4 to 1 of octet n encoding digit 2n-1</li> <li>bit 8 to 5 of octet n encoding digit 2n</li> <li>The PLMN Identity consists of 3 digits from MCC followed by either</li> <li>a filler plus 2 digits from MNC (in case of 2 digit MNC) or</li> <li>3 digits from MNC (in case of a 3 digit MNC).</li> </ul>
>LAC	Μ		OCTET STRING (2)	0000 and FFFE not allowed
CI	М		OCTET STRING (2)	

### 9.2.1.6 Cell Identifier (C-ID)

The C-ID (Cell Identifier) is the identifier of a cell in one RNS.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
C-ID			INTEGER (065535)	

#### 9.2.1.7 Cell Individual Offset

Cell individual offset is an offset that will be applied by UE to the measurement results for a Primary-CPICH[FDD]/ Primary-CCPCH[TDD] or for GSM Carrier RSSI according to TS 25.331 [16].

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Cell Individual Offset			INTEGER( -20+20)	-20 -> -10dB -19 -> -9.5dB  +20 -> +10dB

### 9.2.1.8 Cell Parameter ID

The Cell Parameter ID identifies unambiguously the [3.84 Mcps TDD and 7.68Mcps TDD – Code Groups, Scrambling Codes, Midambles and Toffset] [1.28 Mcps TDD – SYNC-DL and SYNC-UL sequences, the scrambling codes and the midamble codes] (see ref. ITU-T Rec. X.691 [20]).

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Cell Parameter ID			INTEGER(0. .127,)	

### 9.2.1.9 CFN

Connection Frame Number for the radio connection, see ref. TS 25.402 [17].

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
CFN			INTEGER(0. . 255)	

## 9.2.1.10 CFN Offset

Void

### 9.2.1.11 CN CS Domain Identifier

Identification of the CN node in the CS Domain.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
PLMN Identity	M		OCTET STRING (3)	<ul> <li>digits 0 to 9, two digits per octet,</li> <li>each digit encoded 0000 to 1001,</li> <li>1111 used as filler</li> <li>bit 4 to 1 of octet n encoding digit 2n-1</li> <li>bit 8 to 5 of octet n encoding digit 2n</li> <li>The PLMN Identity consists of 3 digits from MCC followed by either</li> <li>a filler plus 2 digits from MNC (in case of 2 digit MNC) or</li> <li>3 digits from MNC (in case of a 3 digit MNC).</li> </ul>
LAC	M		OCTET STRING (2)	0000 and FFFE not allowed

## 9.2.1.11A CN Domain Type

Identifies the type of core network domain.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
CN Domain Type			ENUMERAT ED(CS domain, PS domain, Don't care,)	See in TS 25.331 [16]

### 9.2.1.12 CN PS Domain Identifier

Identification of the CN Node in the PS Domain.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
PLMN Identity	M		OCTET STRING (3)	<ul> <li>digits 0 to 9, two digits per octet,</li> <li>each digit encoded 0000 to 1001,</li> <li>1111 used as filler</li> <li>bit 4 to 1 of octet n encoding digit 2n-1</li> <li>bit 8 to 5 of octet n encoding digit 2n</li> <li>The PLMN Identity consists of 3 digits from MCC followed by either</li> <li>a filler plus 2 digits from MNC (in case of 2 digit MNC) or</li> <li>3 digits from MNC (in case of a 3 digit MNC).</li> </ul>
LAC	М		OCTET STRING (2)	0000 and FFFE not allowed
RAC	M		OCTET STRING (1)	

### 9.2.1.12A Common Measurement Accuracy

The Common Measurement Accuracy IE indicates the accuracy of the common measurement.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
CHOICE Common Measurement Accuracy	М			
>T <sub>UTRAN-GPS</sub> Measurement Accuracy Class				
>>T <sub>UTRAN-GPS</sub> Measurement Accuracy Class	М		T <sub>UTRAN-GPS</sub> Accuracy Class 9.2.1.59B	
>T <sub>UTRAN-GANSS</sub> Measurement Accuracy Class				
>>Tutran-ganss Measurement Accuracy Class	М		Tutran-ganss Accuracy Class 9.2.1.112	

## 9.2.1.12B Common Measurement Object Type

Void.

# 9.2.1.12C Common Measurement Type

The Common Measurement Type identifies which measurement that shall be performed.

IE/Group Name	Presence	Range	IE Type and	Semantics Description
Common Measurement Type			Reference ENUMERATED (UTRAN GPS Timing of Cell Frames for UE Positioning , SFN-SFN Observed Time Difference, load, transmitted carrier power, received total wide band power, UL timeslot ISCP, , RT Load, NRT Load Information, UpPTS interference, UTRAN GANSS Timing of Cell Frames for UE Positioning)	UL timeslot ISCP shall only be used by TDD. For measurements, which are requested on the lur-g interface, only load, RT Load and NRT Load information are used. "UpPTS interference" is used by 1.28Mcps TDD only "UpPTS interference" means "UpPCH interference" in the whole 25.423, refer to TS 25.225 [14] and TS 25.224 [22].

# 9.2.1.12D Common Measurement Value

The Common Measurement Value shall be the most recent value for this measurement, for which the reporting criteria were met.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
CHOICE Common Measurement Value	М				_	<b>,</b>
> T <sub>UTRAN-GPS</sub> Measurement Value Information				UTRAN only	-	
>>T <sub>UTRAN-GPS</sub> Measurement Value Information	M		9.2.1.59D		_	
> SFN-SFN Measurement Value Information				UTRAN only	_	
>>SFN-SFN Measurement Value Information	Μ		9.2.1.52C		_	
>Load Value					—	
>>Load Value	М		9.2.1.33A		-	
>Transmitted Carrier Power Value				UTRAN only	_	
>>Transmitted Carrier Power Value	М		Transmitted Carrier Power 9.2.1.59A		_	
>Received Total Wide Band Power Value				UTRAN only	_	
>>Received Total Wide Band Power Value	М		Received Total Wide Band Power 9.2.2.35A		-	
>UL Timeslot ISCP Value				TDD Only	_	
>>UL Timeslot ISCP Value	М		UL Timeslot ISCP 9.2.3.13A		-	
>Additional Common Measurement Values					-	
>>RT Load Value					_	
>>>RT Load Value	М		9.2.1.50B		YES	ignore
>>NRT Load Information Value					-	
>>>NRT Load Information Value	М		9.2.1.411		YES	ignore
>>UpPTS interference				1.28Mcps TDD Only	-	
>>>UpPTS interference Value	М		INTEGER (0127,)	According to mapping in TS 25.123 [24]	YES	reject
>> T <sub>UTRAN-GANSS</sub> Measurement Value Information				UTRAN only	_	
>>>T <sub>UTRAN-GANSS</sub> Measurement Value Information	М		9.2.1.114		YES	reject

### 9.2.1.12E Common Measurement Value Information

The *Common Measurement Value Information* IE provides information both on whether the Common Measurement Value is provided in the message or not and if provided also the Common Measurement Value itself.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
CHOICE Measurement Availability	М			
>Measurement Available				
>>Common Measurement Value	М		9.2.1.12D	
>Measurement not Available			NULL	

### 9.2.1.12F Common Transport Channel Resources Initialisation Not Required

If present, this IE indicates that as far as the DRNC is concerned, there is no need to initiate a Common Transport Channel Resources Initialisation procedure if the SRNC wants to allocate common transport channel resources in the new cell.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Common Transport			ENUMERAT	
Channel Resources			ED(Not	
Initialisation Not Required			Required)	

### 9.2.1.12G Coverage Indicator

The Coverage Indicator indicates whether the serving and the neighbouring cell are overlapped, i.e. the cells have approximately same coverage area or whether the neighbouring cell covers or contained in the serving cell.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Coverage Indicator			ENUMERAT ED(Overlap, Covers, Contained in,)	

### 9.2.1.13 Criticality Diagnostics

The *Criticality Diagnostics* IE is sent by an RNC when parts of a received message have not been comprehended or were missing, or if the message contained logical errors. When applicable, it contains information about which IEs that were not comprehended or were missing.

For further details on how to use the Criticality Diagnostics IE, see Annex C.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Procedure ID		01		Procedure ID is to be used if Criticality Diagnostics is part of Error Indication procedure, and not within the response message of the same procedure that caused the error	_	
>Procedure Code	М		INTEGER(0255		-	
>Ddmode	М		ENUMERATED( FDD, TDD, Common)	Common = common to FDD and TDD. Common Ddmode is also applicable for lur- g procedures listed in section 7.	_	
Triggering Message	0		ENUMERATED(i nitiating message, successful outcome, unsuccessful outcome, outcome, outcome)	The Triggering Message is used only if the Criticality Diagnostics is part of Error Indication.	-	
Procedure Criticality	0		ENUMERATED(r eject, ignore, notify)	This Procedure Criticality is used for reporting the Criticality of the Triggering message (Procedure).	_	
Transaction ID	0		Transaction ID		-	
Information Element Criticality Diagnostics		0 <max noof errors&gt;</max 			_	
>IE Criticality	М		ENUMERATED(r eject, ignore, notify)	The IE Criticality is used for reporting the criticality of the triggering IE. The value "Ignore" shall never be used.	_	
>IE ID	M		INTEGER(0655 35)	The IE ID of the not understood or missing IE as defined in the ASN.1 part of the specification.	-	
>Repetition Number	0		INTEGER(0255 )	The Repetition Number IE gives • in case of a not understood IE: The number of occurrences of the reported IE up to and including the not understood occurrence • in case of a missing IE: The number of occurrences up to but not including the missing occurrence. Note: All the counted		

			occurrences of the reported IE must have the same topdown hierarchical message structure of IEs with assigned criticality above them.		
>Message Structure	0	9.2.1.39A	The Message Structure IE describes the structure in which the not understood or missing IE was detected. This IE is included if the not understood IE is not the top level of the message.	YES	ignore
>Type of Error	М	ENUMERATED( not understood, missing,)		YES	ignore

Range bound	Explanation		
maxnooferrors	Maximum number of IE errors allowed to be reported with a single		
	message.		

#### 9.2.1.14 C-RNTI

C-RNTI (Cell RNTI) is the UE identifier allocated by the DRNS to be used over the radio interface. It is unique in the cell. One UE Context has one unique C-RNTI value allocated in the DRNS.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
C-RNTI			INTEGER(0. .65535)	

### 9.2.1.14A CTFC

The CTFC is an integer number calculated in accordance with TS 25.331 [16], subclause 14.10. Regarding the channel ordering, for all transport channels, 'TrCH1' corresponds to the transport channel having the lowest transport channel identity among all configured transport channels on this CCTrCH. 'TrCH2' corresponds to the transport channel having the next lowest transport channel identity, and so on.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
CHOICE CTFC Format				
>2 bits long				
>>CTFC value	М		INTEGER (03)	
>4 bits long				
>>CTFC value	М		INTEGER (015)	
>6 bits long				
>>CTFC value	М		INTEGER (063)	
>8 bits long				
>>CTFC value	М		INTEGER (0255)	
>12 bits long				
>>CTFC value	М		INTEGER (04095)	
>16 bits long				
>>CTFC value	М		INTEGER (065535)	
>max nb bits long				
>>CTFC value	М		INTEGER (0maxCTFC)	

Range Bound	Explanation
MaxCTFC	Maximum number of the CTFC value is calculated according to the following: $\sum_{i=1}^{I} (L_i - 1)P_i$
	with the notation according to ref. TS 25.331 [16]

#### 9.2.1.15 DCH Combination Indicator

Void

#### 9.2.1.16 DCH ID

The DCH ID is the identifier of an active dedicated transport channel. It is unique for each active DCH among the active DCHs simultaneously allocated for the same UE.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
DCH ID			INTEGER (0255)	

#### 9.2.1.16A DCH Information Response

The DCH Information IE provides information for DCHs that have been established or modified.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
DCH Information Response		1 <maxno ofDCHs&gt;</maxno 		Several DCHs belonging to the same set of coordinated DCHs may be included.	-	
>DCH ID	Μ		9.2.1.16		-	
>Binding ID	0		9.2.1.3		_	
>Transport Layer Address	0		9.2.1.62		_	
>Allowed Rate Information	0		9.2.1.2A		YES	ignore
>Transport Bearer Not Setup Indicator	0		9.2.2.4T	FDD Only	YES	Ignore

Range bound	Explanation
maxnoofDCHs	Maximum number of DCHs for one UE.

#### 9.2.1.17 Dedicated Measurement Object Type

Void.

#### 9.2.1.18 Dedicated Measurement Type

The Dedicated Measurement Type identifies the type of measurement that shall be performed.

IE/Group Name	Presence	Range	IE Type and	Semantics Description
Dedicated Measurement Type			ReferenceENUMERATED(SIR, SIRError,TransmittedCode Power,RSCP, RxTimingDeviation,Round TripTime,, RxTimingDeviationLCR, AngleOf ArrivalLCR,HS-SICHReceptionQuality, RxTimingDeviation768, RxTimingDeviation384Extended)	RSCP and HS-SICH Receptions Quality are used by TDD only, Rx Timing Deviation and Rx Timing Deviation 384 Extended are used by 3.84 Mcps TDD only, Rx Timing Deviation LCR is used by 1.28 TDD only, Round Trip Time, SIR Error are used by FDD only. Angle Of Arrival LCR is used by 1.28Mcps TDD only. Rx Timing Deviation 768 is used by 7.68Mcps TDD only.

NOTE: For definitions of the measurement types refer to ref. TS 25.215 [11] and TS 25.225 [14].

#### 9.2.1.19 Dedicated Measurement Value

The Dedicated Measurement Value shall be the most recent value for this measurement, for which the reporting criteria were met.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
CHOICE Dedicated Measurement Value	М				-	
>SIR Value					_	
>>SIR Value	М		INTEGER( 063)	According to mapping in ref. TS 25.133 [23] and TS 25.123 [24]	-	
>SIR Error Value				FDD Only	_	
>>SIR Error Value	М		INTEGER( 0125)	According to mapping in TS 25.133 [23]	_	
>Transmitted Code Power Value					-	
>>Transmitted Code Power Value	Μ		INTEGER( 0127)	According to mapping in ref. TS 25.133 [23] and TS 25.123 [24] Values 0 to 9 and 123 to 127 shall not be used.	_	
>RSCP				TDD Only	_	
>>RSCP	М		INTEGER( 0127)	According to mapping in ref. TS 25.123 [24]	-	
>Rx Timing Deviation Value				3.84Mcps TDD Only	-	
>>Rx Timing Deviation	Μ		INTEGER( 08191)	According to mapping in TS 25.123 [24]	-	
>Round Trip Time				FDD Only	_	
>>Round Trip Time	М		INTEGER( 032767)	According to mapping in TS 25.133 [23]	_	
>Additional Dedicated Measurement Values					-	
>>Rx Timing Deviation Value LCR				1.28Mcps TDD Only	YES	reject
>>>Rx Timing Deviation LCR	Μ		INTEGER( 0511)	According to mapping in TS 25.123 [24]	_	
>>Angle of Arrival Value LCR				1.28Mcps TDD only	YES	reject
>>>AOA LCR	Μ		INTEGER( 0719)	According to mapping in TS 25.123 [24]	-	
>>>AOA LCR Accuracy Class	М		ENUMER ATED(A, B, C, D, E, F, G, H,)	According to mapping in TS 25.123 [24]	_	
>>HS-SICH reception quality				Applicable to TDD only	_	
>>>HS-SICH reception quality Value		1			YES	reject

>>>>Failed HS-SICH	M	INTEGER (020)	According to mapping in TS 25.123 [24]	-	
>>>Missed HS-SICH	M	INTEGER (020)	According to mapping in TS 25.123 [24]	_	
>>>Total HS-SICH	Μ	INTEGER (020)	According to mapping in TS 25.123 [24]	-	
>>Rx Timing Deviation Value 7.68Mcps			7.68Mcps TDD Only	YES	reject
>>>Rx Timing Deviation 7.68Mcps	Μ	INTEGER( 065535)	According to mapping in TS 25.123 [24]	_	
>>Rx Timing Deviation Value 3.84Mcps Extended			3.84 Mcps TDD Only	YES	reject
>>>Rx Timing Deviation 3.84Mcps Extended	Μ	INTEGER( 032767)	According to mapping in TS 25.123 [24]	_	
>>Extended Round Trip Time			FDD Only	YES	ignore
>>>Extended Round Trip Time Value	M	INTEGER (3276710 3041)	Continuation of intervals with step size as defined in TS 25.133 [23].	_	

### 9.2.1.19A Dedicated Measurement Value Information

The *Dedicated Measurement Value Information* IE provides information both on whether or not the Dedicated Measurement Value is provided in the message and if provided also the Dedicated Measurement Value itself.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
CHOICE Measurement Availability Indicator	Μ				-	
>Measurement Available					-	
>>Dedicated Measurement Value	Μ		9.2.1.19		_	
>>CFN	0		9.2.1.9	Dedicated Measuremen t Time Reference	-	
>Measurement not Available			NULL		-	

#### 9.2.1.19Aa Delayed Activation

The *Delayed Activation* IE indicates that the activation of the DL power shall be delayed until an indicated CFN or until a separate activation indication is received.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
CHOICE Delayed Activation	Μ			
>CFN				
>>Activation CFN	Μ		CFN 9.2.1.7	
>Separate Indication			NULL	

#### 9.2.1.19Ab Delayed Activation Update

The Delayed Activation Update IE indicates a change of the activation of the DL power for a specific RL.

IE/Group Name		Presence	Range		IE Type and Reference		Semantics Description
CHOICE Delayed Activation Update		М					
>Activate							
>>CHOICE Activation Type		Μ					
>>>Synchronised							
>>>Activation CFN		М			CFN 9.2.1.7		
>>>Unsynchronised					NULL		
>>Initial DL TX Power	Μ			_	L Power		
				9.	2.1.21		
>>First RLS Indicator	0			9.	2.2.16A	F	DD Only
>>Propagation Delay	0			9.	2.2.35	F	DD Only
>>Extended Propagation Delay	0			9.	2.2.33a	F	DD Only
>Deactivate							
>>CHOICE Deactivation type		Μ					
>>>Synchronised							
>>>>Deactivation CFN		М			CFN 9.2.1.7		
>>>Unsynchronised					NULL		

### 9.2.1.19B DGPS Corrections

The *DGPS Corrections* IE contains DGPS information used by the UE Positioning A-GPS method. For further details on the meaning of parameters, see RTCM-SC104 [31].

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
GPS TOW	M		INTEGER(060479 9)	Time in seconds. This field indicates the baseline time for which the corrections are valid	-	
Status/Health	М		ENUMERATED (UDRE scale 1.0, UDRE scale 0.75, UDRE scale 0.5, UDRE scale 0.3, UDRE scale 0.1, no data, invalid data)	This field indicates the status of the differential corrections	-	
Satellite DGPS		1 <ma< td=""><td>,</td><td></td><td>-</td><td></td></ma<>	,		-	
Corrections Information		xNoSa t>				
>SatID	М		SAT ID 9.2.1.50A		-	
>IODE	M		BIT STRING(8)	This IE is the sequence number for the ephemeris for the particular satellite. It can be used to determine if new ephemeris is used for calculating the corrections that are provided. This eight-bit IE is incremented for each new set of ephemeris for the satellite and may occupy the numerical range of [0, 239] during normal operations.	-	
>UDRE	M		ENUMERATED (UDRE ≤1.0m, 1.0m < UDRE ≤ 4.0m, 4.0m < UDRE ≤ 8.0m, 8.0m < UDRE,)	User Differential Range Error. This field provides an estimate of the uncertainty $(1-\sigma)$ in the corrections for the particular satellite. The value in this field shall be multiplied by the UDRE Scale Factor in the common Corrections Status/Health field to determine the final UDRE estimate for the particular satellite	_	
>PRC	М		INTEGER( -20472047)	Scaling factor 0.32 meters	-	
>Range Correction Rate	М		INTEGER(-127 127)	Scaling factor 0.032 m/s	-	
>DGNSS Validity Period	0		9.2.1.138		YES	ignore

Range Bound	Explanation
maxNoSat	Maximum number of satellites for which information can be
	provided

## 9.2.1.19C Discard Timer

The *Discard Timer* IE defines the time to live for a MAC-hs SDU starting from the instant of its arrival into an HSDPA Priority Queue. The DRNS shall use this information to discard out-of-date MAC-hs SDUs from the HSDPA Priority Queues.

IE/Group Name	Presence	Range	IE type and	Semantics description
			reference	
Discard Timer			ENUMERAT	Unit: ms
			ED (20, 40,	
			60, 80, 100,	
			120, 140,	
			160, 180,	
			200, 250,	
			300, 400,	
			500, 750,	
			1000, 1250,	
			1500, 1750,	
			2000, 2500,	
			3000, 3500,	
			4000, 4500,	
			5000, 7500,	
			)	

#### 9.2.1.20 Diversity Control Field

The Diversity Control Field indicates if the current RL may, must or must not be combined with the already existing RLs.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Diversity Control Field			ENUMERAT ED(May, Must, Must not, )	

### 9.2.1.21 Diversity Indication

Void.

#### 9.2.1.21A DL Power

The *DL Power* IE indicates a power level relative to the [FDD – primary CPICH power] [TDD – PCCPCH power] configured in a cell. [FDD – If referred to a DPCH, it indicates the power of the transmitted DPDCH symbols. If referred to an F-DPCH, it indicates the Reference F-DPCH TX Power.] If Transmit Diversity is applied to a downlink physical channel, the *DL Power* IE indicates the power offset between the linear sum of the power for this downlink physical channel on all branches and the [FDD – primary CPICH power] [TDD – PCCPCH power] configured in a cell.

[TDD – If referred to a DPCH, it indicates the power of a spreading factor 16 code, the power for a spreading factor 1 code would be 12 dB higher.]

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
DL Power			INTEGER (- 350150)	Value = DL Power /10 Unit dB Range –35.0 +15.0 Step 0.1dB

### 9.2.1.22 Downlink SIR Target

Void

#### 9.2.1.23 DPCH Constant Value

DPCH Constant Value is the power margin used by a UE to set the proper uplink power.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
DPCH Constant Value			INTEGER (- 1010)	Unit dB Granularity 1 dB.

### 9.2.1.24 D-RNTI

The D-RNTI identifies the UE Context in the DRNC.

	IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
I	D-RNTI			INTEGER(0. .2^20 –1)	

### 9.2.1.25 D-RNTI Release Indication

The D-RNTI Release Indication indicates whether or not a DRNC shall release the D-RNTI allocated for a particular UE.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
D-RNTI Release Indication			ENUMERAT	
			ED(Release	
			D-RNTI, not	
			Release	
			D-RNTI)	

### 9.2.1.26 DRX Cycle Length Coefficient

The DRX Cycle Length Coefficient is used as input for the formula to establish the paging occasions to be used in DRX.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
DRX Cycle Length Coefficient			INTEGER (39)	Refers to 'k' in the formula as specified in ref. TS 25.304 [15], Discontinuous Reception.

#### 9.2.1.26A DSCH ID

Void.

9.2.1.26Aa DSCH Initial Window Size

Void.

9.2.1.26B DSCH Flow Control Information

Void.

#### 9.2.1.26Ba DSCH-RNTI

Void.

## 9.2.1.26Bb Extended GSM Cell Individual Offset

Extended GSM Cell individual offset is an offset that will be applied by UE to the measurement results for GSM carrier RSSI according to TS 25.331 [16]. It shall be used when the offset exceeds the range of values that can be indicated using the *Cell Individual Offset* IE (Subclause 9.2.1.7).

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Extended GSM Cell Individual			INTEGER (-	Unit in dB. Step size is 1 dB.
Offset			5011	
			1150)	

## 9.2.1.26C FACH Flow Control Information

The FACH Flow Control Information IE provides flow control information for each scheduling priority class for the FACH FP over Iur.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
FACH Flow Control Information		116			_	
>FACH Scheduling Priority	M		Scheduling Priority Indicator 9.2.1.51A		_	
>MAC-c/sh SDU Length		1 <maxnb MAC- c/shSDUL ength&gt;</maxnb 			-	
>>MAC-c/sh SDU Length	М		9.2.1.34		_	
>FACH Initial Window Size	М		9.2.1.27		-	

Range bound	Explanation
maxNbMAC-c/shSDULength	Maximum number of different MAC-c/sh SDU lengths.

### 9.2.1.27 FACH Initial Window Size

Indicates the initial number of MAC-c/sh SDUs that may be transmitted before an acknowledgement is received from the DRNC.

IE/Group Nar	me Presence	Range	IE Type and Reference	Semantics Description
FACH Initial Windov	w Size		INTEGER(0. .255)	Number of frames (MAC-c/sh SDUs.) 255 = Unlimited number of FACH data frames.

### 9.2.1.28 FACH Priority Indicator

Void

#### 9.2.1.28A FN Reporting Indicator

Frame Number reporting indicator.

Indicates if the SFN or CFN shall be included together with the reported measurement value.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
FN reporting indicator			ENUMERAT ED(FN	
			reporting required, FN	
			reporting not required)	

## 9.2.1.29 Frame Handling Priority

This parameter indicates the priority level to be used during the lifetime of the DCH, [TDD – DSCH] for temporary restriction of the allocated resources due overload reason.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Frame Handling Priority			INTEGER	0=Lowest Priority,
			(015)	
				15=Highest Priority

### 9.2.1.30 Frame Offset

Frame Offset is the required offset between the dedicated channel downlink transmission frames (CFN, Connection Frame Number) and the broadcast channel frame offset (Cell Frame Number). The Frame Offset is used in the translation between Connection Frame Number (CFN) on Iub/Iur and least significant 8 bits of SFN (System Frame Number) on Uu. The Frame Offset is UE and cell specific.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Frame Offset			INTEGER (0255)	Frames

## 9.2.1.30A GA Point with Uncertainty

This IE contains one of the possible descriptions of a Cell Geographical Area.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Geographical Coordinates	Μ		9.2.1.30F	
Uncertainty Code	М		INTEGER( 0127)	The uncertainty "r" is derived from the "uncertainty code" k by $r = 10x(1.1^{k}-1)$

### 9.2.1.30B GA Ellipsoid Point with Uncertainty Ellipse

This IE contains one of the possible descriptions of a Cell Geographical Area.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Geographical Coordinates	М		9.2.1.30F	
Uncertainty Ellipse	М		9.2.1.68A	
Confidence	М		INTEGER(	
			0127)	

## 9.2.1.30C GA Ellipsoid Point with Altitude

This IE contains one of the possible descriptions of a Cell Geographical Area.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Geographical Coordinates	М		9.2.1.30F	
Altitude and direction	М		9.2.1.2B	

## 9.2.1.30D GA Ellipsoid Point with Altitude and Uncertainty Ellipsoid

This IE contains one of the possible descriptions of a Cell Geographical Area.

IE/Group Name	Presence	Range	IE Type and	Semantics Description
			Reference	
Geographical Coordinates	М		9.2.1.30F	
Altitude and direction	М		9.2.1.2B	
Uncertainty Ellipse	М		9.2.1.68A	
Uncertainty Altitude	М		INTEGER(	
			0127)	
Confidence	М		INTEGER(	
			0127)	

## 9.2.1.30E GA Ellipsoid Arc

This IE contains one of the possible descriptions of a Cell Geographical Area.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Geographical Coordinates	M		9.2.1.30F	
Inner radius	M		INTEGER( 02 <sup>16</sup> -1)	The relation between the value (N) and the radius I in meters it describes is $5N \le r$ < $5(N+1)$ , except for N=2 <sup>16</sup> -1 for which the range is extended to include all grater values of I.
Uncertainty radius	М		INTEGER( 0127)	The uncertainty "r" is derived from the "uncertainty code" k by $r = 10x(1.1^{k}-1)$
Offset angle	М		INTEGER( 0179)	The relation between the value (N) and the angle (a) in degrees it describes is $2N \le a < 2(N+1)$
Included angle	М		INTEGER( 0179)	The relation between the value (N) and the angle (a) in degrees it describes is $2N < a \le 2(N+1)$
Confidence	М		INTEGER( 0127)	

## 9.2.1.30F Geographical Coordinates

This IE contains the description of geographical coordinates.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Latitude Sign	М		ENUMERAT ED(North, South)	
Degrees Of Latitude	M		INTEGER( 02 <sup>23</sup> -1)	The IE value (N) is derived by this formula: $N \le 2^{23} X / 90 < N+1$ X being the latitude in degree (0° 90°)
Degrees Of Longitude	М		INTEGER( -2 <sup>23</sup> 2 <sup>23</sup> -1)	The IE value (N) is derived by this formula: N≤2 <sup>24</sup> X /360 < N+1 X being the longitude in degree (-180°+180°)

## 9.2.1.30Fa GERAN Cell Capability

The GERAN Cell Capability IE is used to transfer the capabilities of a certain GERAN cell via the Iur interface.

IE/Group Name	Presence	Range	IE type and reference	Semantics description
GERAN Cell Capability	Μ		BIT STRING (16)	Each bit indicates whether a cell supports a particular functionality or not. The value 1 of a bit indicates that the corresponding functionality is supported in a cell and value 0 indicates that the corresponding functionality is not supported in a cell. Each bit is defined as follows. The first bit: A/Gb mode. The second bit: lu mode. Note that undefined bits are considered as a spare bit and spare bits shall be set to 0 by the transmitter and shall be ignored by the receiver.

## 9.2.1.30Fb GERAN Classmark

The *GERAN Classmark* IE is used to transfer the capabilities of a certain GERAN Iu-mode capable cell via the Iur interface.

IE/Group Name	Presence	Range	IE type and reference	Semantics description
GERAN Classmark	М		OCTET STRING	Contents defined in TS 48.008 [38]

## 9.2.1.30Fc GERAN System Information

The GERAN System Information IE provides GERAN specific information.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
GERAN System Info		1 <maxnrofger ANSI&gt;</maxnrofger 		
>GERAN System Info Block	М		OCTET STRING (123)	The first octet contains octet 1 of the GERAN system information block, the second octet contains octet 2 of the GERAN system information block and so on.

Range bound	Explanation
maxNrOfGERANSI	Maximum number of GERAN SI blocks that can be provided as part of NACC information

## 9.2.1.30G GPS Almanac

This IE provides the information regarding the GPS Almanac. For further details on the meaning of parameters, see ICD-GPS-200 [30].

IE/Group name	Presence	Range	IE Type and Reference	Semantics Description
WN <sub>a</sub>	М		BIT STRING(8)	
Satellite Almanac Information	М	1 <maxno OfSatAlma nac&gt;</maxno 		See Note 1.
>DataID	М		INTEGER (03)	
>SatID	М		SAT ID 9.2.1.50A	
>e	М		BIT STRING(16)	
>t <sub>oa</sub>	М		BIT STRING(8)	
>δi	М		BIT STRING(16)	
>OMEGADOT	М		BIT STRING(16)	
>SV Health	М		BIT STRING(8)	
>A <sup>1/2</sup>	М		BIT STRING(24)	
>OMEGA <sub>0</sub>	М		BIT STRING(24)	
>M <sub>0</sub>	М		BIT STRING(24)	
>00	М		BIT STRING(24)	
>af <sub>0</sub>	М		BIT STRING(11)	
>af <sub>1</sub>	М		BIT STRING(11)	
SV Global Health	0		BIT STRING(364)	

Range Bound	Explanation		
maxNoOfSatAlmanac	Maximum number of satellite almanacs for which information		
	can be provided		

## 9.2.1.30H GPS Ionospheric Model

This IE provides the information regarding the GPS Ionospheric Model. For further details on the meaning of parameters, see ICD-GPS-200 [30].

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
α0	M		BIT STRING(8)	
α <sub>1</sub>	M		BIT STRING(8)	
α <sub>2</sub>	M		BIT STRING(8)	
α <sub>3</sub>	M		BIT STRING(8)	
βο	M		BIT STRING(8)	
β <sub>1</sub>	M		BIT STRING(8)	
β <sub>2</sub>	M		BIT STRING(8)	
β <sub>3</sub>	M		BIT STRING(8)	

## 9.2.1.30I GPS Navigation Model and Time Recovery

This IE contains subframes 1 to 3 of the GPS navigation message. For further details on the meaning of parameters, see ICD-GPS-200 [30].

IE/Group Name	Presence	ce Range IE Type and Reference		Semantics Description
Navigation Message 1to3		1 <maxnosat></maxnosat>		
>Transmission TOW	M		INTEGER010485 75)	Time of the Week when the message is broadcast.
>SatID	М		SAT ID 9.2.1.50A	
>TLM Message	М		BIT STRING(14)	
>TIm Revd I	М		BIT STRING(2)	
>HO-Word	М		BIT STRING(22)	
>WN	М		BIT STRING(10)	
>C/A or P on L2	М		BIT STRING(2)	
>User Range Accuracy Index	М		BIT STRING(4)	
>SV Health	М		BIT STRING(6)	
>IODC	М		BIT STRING(10)	
>L2 P Data Flag	М		BIT STRING(1)	
>SF 1 Reserved	М		BIT STRING(87)	
>T <sub>GD</sub>	М		BIT STRING(8)	
>t <sub>oc</sub>	М		BIT STRING(16)	
>af <sub>2</sub>	М		BIT STRING(8)	
>af <sub>1</sub>	М		BIT STRING(16)	
>af <sub>0</sub>	М		BIT STRING(22)	
>C <sub>rs</sub>	М		BIT STRING(16)	
>∆n	М		BIT STRING(16)	
>M0	М		BIT STRING(32)	
>C <sub>uc</sub>	М		BIT STRING(16)	
>e	М		BIT STRING(32)	
>C <sub>us</sub>	М		BIT STRING(16)	
>C <sub>us</sub> >(A) <sup>1/2</sup>	М		BIT STRING(32)	
>t <sub>oe</sub>	М		BIT STRING(16)	
>Fit Interval Flag	М		BIT STRING(1)	
>AODO	М		BIT STRING(5)	
>C <sub>ic</sub>	М		BIT STRING(16)	
>OMEGA <sub>0</sub>	М		BIT STRING(32)	
>C <sub>is</sub>	М		BIT STRING(16)	
>i <sub>0</sub>	М		BIT STRING(32)	
>C <sub>rc</sub>	М		BIT STRING(16)	
>00	М		BIT STRING(32)	
>OMEGAdot	М		BIT STRING(24)	
>ldot	М		BIT STRING(14)	
>Spare/zero fill	М		BIT STRING(20)	

Range Bound	Explanation
maxNoSat	Maximum number of satellites for which information can be
	provided

## 9.2.1.30J GPS Real-Time Integrity

This IE provides the information regarding the status of the GPS constellation. For further details on the meaning of parameters, see ICD-GPS-200 [30].

IE/Group name	Presence	Range	IE Type and Reference	Semantics Description
CHOICE Bad Satellites Presence	Μ			
>Bad Satellites				
>>Satellite Information		1 <maxn oSat&gt;</maxn 		
>>>BadSatID	М		SAT ID 9.2.1.50A	
>No Bad Satellites			NULL	

Range Bound	Explanation
MaxNoSat	Maximum number of satellites for which information can be
	provided

### 9.2.1.30K GPS Receiver Geographical Position (GPS RX Pos)

The GPS Receiver Geographical Position is used to identify the geographical coordinates of a GPS receiver relevant for a certain Information Exchange Object.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Geographical Coordinates	М		9.2.1.30F	
Altitude and direction	М		9.2.1.2B	

### 9.2.1.30L GPS UTC Model

This IE provides the information regarding the GPS UTC Model. For further details on the meaning of parameters, see ICD-GPS-200 [30].

IE/Group name	Presence	Range	IE Type and Reference	Semantics Description
A <sub>1</sub>	Μ		BIT STRING(24)	
A <sub>0</sub>	Μ		BIT STRING(32)	
t <sub>ot</sub>	М		BIT STRING(8)	
$\Delta t_{LS}$	Μ		BIT STRING(8)	
WNt	Μ		BIT STRING(8)	
WN <sub>LSF</sub>	Μ		BIT STRING(8)	
DN	Μ		BIT STRING(8)	
$\Delta t_{LSF}$	Μ		BIT STRING(8)	

### 9.2.1.30M Guaranteed Rate Information

The *Guaranteed Rate Information* IE indicates the TFI corresponding to the guaranteed bit rate for the uplink and/or the downlink of a DCH.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Guaranteed UL Rate	0		INTEGER(1. .maxTFcount )	"1": TFI 0, "2": TFI 1, "3": TFI 2, …
Guaranteed DL Rate	0		INTEGER(1. .maxTFcount )	"1": TFI 0, "2": TFI 1, "3": TFI 2, …

### 9.2.1.30N HCS Prio

The HCS Prio is the characteristics of the cell as defined in TS 25.304 [15].

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
HCS Prio			INTEGER (07)	0=Lowest Priority,
				7=Highest Priority

## 9.2.1.30NA HS-DSCH Information To Modify Unsynchronised

The *HS-DSCH Information To Modify Unsynchronised* IE is used for modification of HS-DSCH information in a UE Context with the Unsynchronised Radio Link Reconfiguration procedure.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
HS-DSCH MAC-d Flow Specific Information		0 <maxn oofMACd Flows&gt;</maxn 		•	-	
>HS-DSCH MAC-d Flow ID	M		9.2.1.30O		_	
>Allocation/Retention Priority	0		9.2.1.1		_	
>Transport Bearer Request Indicator	М		9.2.1.61		_	
>Traffic Class	0		9.2.1.58A		—	
>Binding ID	0		9.2.1.3	Shall be ignored if bearer establishment with ALCAP.	-	
>Transport Layer Address	0		9.2.1.62	Shall be ignored if bearer establishment with ALCAP.	_	
>TNL QoS	0		9.2.1.56A	Shall be ignored if bearer establishment with ALCAP.	YES	ignore
Priority Queue Information		0 <maxn oofPrioQ ueues&gt;</maxn 			-	
>Priority Queue ID	М		9.2.1.45A		-	
>Scheduling Priority Indicator	0		9.2.1.51A		-	
>Discard Timer	0		9.2.1.19C		—	
>MAC-hs Guaranteed Bit Rate	0		9.2.1.34Aa		-	
CQI Power Offset	0		9.2.2.24b	For FDD only	—	
ACK Power Offset	0		9.2.2.b	For FDD only	_	
NACK Power Offset	0		9.2.2.26a	For FDD only	—	
HS-SCCH Power Offset	0		9.2.2.19d	For FDD only	_	
TDD ACK NACK Power Offset	0		9.2.3.71	For TDD only	-	
HARQ Preamble Mode	0		9.2.2.57	For FDD only	YES	ignore
MIMO Mode Indicator	0		9.2.1.135	For FDD and 1.28Mcps TDD only	YES	reject
Sixtyfour QAM Usage Allowed Indicator	0		9.2.2.79A	For FDD only	YES	ignore
Enhanced HS Serving CC Abort	0		ENUMERAT ED (Abort Enhanced HS Serving CC,)	For FDD only	YES	reject
UE Support Indicator Extension	0		9.2.2.103		YES	ignore
Power Offset For S-CPICH for MIMO Request Indicator	0		9.2.2.105	For FDD only	YES	ignore
Single Stream MIMO Mode Indicator	0		9.2.2.107	For FDD only	YES	reject

# 9.2.1.30Na HS-DSCH Initial Capacity Allocation

The *HS-DSCH Initial Capacity Allocation* IE provides flow control information for each scheduling priority class for the HS-DSCH FP over Iur.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
HS-DSCH Initial Capacity Allocation		1< maxnoof PrioQueu es>			_	
>Scheduling Priority Indicator	М		9.2.1.51A		_	
>Maximum MAC-d PDU Size	М		MAC-d PDU Size 9.2.1.34A	Shall be ignored if <i>Maximum</i> <i>MAC-d PDU</i> <i>Size Extended</i> IE is present.	_	
>HS-DSCH Initial Window Size	М		9.2.1.30Nb		_	
>Maximum MAC-d PDU Size Extended	0		MAC PDU Size Extended 9.2.1.34D		YES	ignore

Range Bound	Explanation
maxnoofPrioQueuess	Maximum number of Priority Queues

### 9.2.1.30Nb HS-DSCH Initial Window Size

Indicates the initial number of MAC-d PDUs (or octets in case *HS-DSCH MAC-d PDU Size Format* = "Flexible MAC-d PDU Size") that may be transmitted before new credits are received from the DRNC.

IE/Group Name	Presence	Range	IE type and reference	Semantics description
HS-DSCH Initial Window Size			INTEGER (1255)	Number of MAC-d PDUs If HS-DSCH MAC-d PDU Size Format = "Flexible MAC-d PDU Size" the credit shall be determined in octets: credit (in octets) = Maximum MAC-d PDU Size extended * HS-DSCH Initial Window Size

## 9.2.1.300 HS-DSCH MAC-d Flow ID

HS-DSCH MAC-d Flow ID is the unique identifier for one MAC-d flow.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
HS-DSCH MAC-d Flow ID			INTEGER	
			(07)	

## 9.2.1.30OA HS-DSCH MAC-d Flows Information

The *HS-DSCH MAC-d Flows Information* IE is used for the establishment of HS-DSCH MAC-d flows for a UE Context.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
HS-DSCH MAC-d Flow Specific Information		1 <maxn oofMACd Flows&gt;</maxn 			_	
>HS-DSCH MAC-d Flow ID	М		9.2.1.300		-	
>Allocation/Retention Priority	М		9.2.1.1		-	
>Traffic Class	М		9.2.1.58A		_	
>Binding ID	0		9.2.1.3	Shall be ignored if bearer establishment with ALCAP.	_	
>Transport Layer Address	0		9.2.1.62	Shall be ignored if bearer establishment with ALCAP.	_	
>TNL QoS	0		9.2.1.56A	Shall be ignored if bearer establishment with ALCAP.	YES	ignore
>TrCH Source Statistics Descriptor	0		9.2.1.65		YES	ignore
Priority Queue		1 <maxn< td=""><td></td><td></td><td>-</td><td>1</td></maxn<>			-	1
Information		oofPrioQ				
		ueues>	0.0.4.454			
>Priority Queue ID >Associated HS-DSCH	M		9.2.1.45A HS-DSCH	The HS-DSCH	-	
MAC-d Flow	М		MAC-d Flow ID 9.2.1.30O 9.2.1.51A	MAC-d Flow ID shall be one of the flow IDs defined in the HS-DSCH MAC-d Flow Specific Information of this IE. Multiple Priority Queues can be associated with the same HS- DSCH MAC-d Flow ID.		
Indicator	IVI		9.2.1.51A		_	
>T1	M		9.2.1.54A		_	
>Discard Timer	0		9.2.1.19C		-	
>MAC-hs Window Size >MAC-hs Guaranteed Bit Rate	M O		9.2.1.34C 9.2.1.34Aa			
Nate >MAC-d PDU Size Index		1 <maxn oofMACd PDUinde xes&gt;</maxn 			_	
>>SID	М		9.2.1.52D	Shall be ignored if <i>Maximum</i> <i>MAC-d PDU</i> <i>Size extended</i> IE is present.	-	
>>MAC-d PDU Size	М		9.2.1.34A	Shall be ignored if <i>Maximum</i> MAC-d PDU	_	

			Size extended IE is present.		
>RLC Mode	М	9.2.1.48D		-	
>Maximum MAC-d PDU Size extended	0	MAC PDU Size Extended 9.2.1.34D		YES	reject
>DL RLC PDU Size Format	0	9.2.1.136		YES	ignore
>UE Aggregate Maximum Bit Rate Enforcement Indicator	0	NULL		YES	ignore

Range Bound	Explanation
maxnoofMACdFlows	Maximum number of HS-DSCH MAC-d flows
maxnoofPrioQueues	Maximum number of Priority Queues
maxnoofMACdPDUindexes	Maximum number of different MAC-d PDU SIDs

## 9.2.1.30OB HS-DSCH MAC-d Flows To Delete

The HS-DSCH MAC-d Flows To Delete IE is used for the removal of HS-DSCH MAC-d flows from a UE Context.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
HS-DSCH MAC-d Flows To Delete		1 <maxno ofMACdFI ows&gt;</maxno 		
>HS-DSCH MAC-d Flow ID	М		9.2.1.30O	

Range Bound	Explanation
maxnoofMACdFlows	Maximum number of HS-DSCH MAC-d flows

## 9.2.1.30OC HS-DSCH MAC-d PDU Size Format

The *HS-DSCH MAC-d PDU Size Format* IE provides information about the type of MAC-d PDU Size Format used for HS-DSCH. "Indexed MAC-d PDU Size" uses MAC-d PDU sizes based on *SID* IE and *MAC-d PDU Size* IE of *MAC-d PDU Size* IIE of *MAC-d PDU Size* IIE. "Flexible MAC-d PDU Size" uses a flexible MAC-d PDU size with a maximum PDU size as defined by *Maximum MAC-d PDU Size extended* IE of *Priority Queue Information* IE. The actual MAC-d PDU size is determined as specified in TS 25.425 [32] and TS 25.321 [41].

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
HS-DSCH MAC-d PDU Size Format			ENUMERATED (Indexed MAC-d	
			PDU Size, Flexible MAC-d PDU Size)	

## 9.2.1.30Oa HS-DSCH Physical Layer Category

The *HS-DSCH Physical Layer Category* IE defines a set of UE radio access capabilities related to HSDPA, as defined in 25.306 [42].

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
HS-DSCH Physical Layer Category			INTEGER (164,)	

### 9.2.1.30P HS-DSCH-RNTI

The HS-DSCH-RNTI is needed for the UE-specific CRC in HS-SCCH and HS-DSCH.

IE/Gro	oup Name	Presence	Range	IE Type and Reference	Semantics Description
HS-DSCH-RN	ITI			INTEGER (065535)	

## 9.2.1.30Q HS-DSCH Information To Modify

The HS-DSCH Information To Modify IE is used for modification of HS-DSCH information in a UE Context.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
HS-DSCH MAC-d Flow		0	Reference			
Specific Information		0 <maxn oofMACd Flows&gt;</maxn 			_	
>HS-DSCH MAC-d Flow ID	М		9.2.1.300		_	
>Allocation/Retention Priority	0		9.2.1.1		-	
>Transport Bearer Request Indicator	М		9.2.1.61		-	
>Traffic Class	0		9.2.1.58A		_	
>Binding ID	0		9.2.1.3	Shall be ignored if bearer establishment with ALCAP.	_	
>Transport Layer Address	0		9.2.1.62	Shall be ignored if bearer establishment with ALCAP.	_	
>TNL QoS	0		9.2.1.56A	Shall be ignored if bearer establishment with ALCAP.	YES	ignore
Priority Queue Information		0 <maxn oofPrioQ ueues&gt;</maxn 			_	
>CHOICE Priority Queue	М				_	
>>Add Priority Queue					_	
>>>Priority Queue ID	М		9.2.1.45A		_	
>>>Associated HS-DSCH MAC-d Flow	M		HS-DSCH MAC-d Flow ID 9.2.1.300	Shall only refer to a HS- DSCH MAC-d flow already existing in the old configuration. Multiple Priority Queues can be associated with the same HS-DSCH MAC-d Flow ID.		
>>>Scheduling Priority Indicator					_	
>>>T1	M		9.2.1.54A		_	
>>>Discard Timer	0		9.2.1.19C		_	
>>>MAC-hs Window Size >>>MAC-hs Guaranteed Bit Rate	M O		9.2.1.34C 9.2.1.34Aa		-	
>>>MAC-d PDU Size Index		1 <maxn oofMACd PDUinde xes&gt;</maxn 			_	
>>>SID	М		9.2.1.52D	Shall be ignored if <i>Maximum</i> <i>MAC-d PDU</i> <i>Size extended</i> IE is present.	-	
>>>>MAC-d PDU Size	M		9.2.1.34A	Shall be ignored if	-	

IE/Group Name	Presence	Range	IE Type and	Semantics Description	Criticality	Assigned Criticality
			Reference	Maximum		
				MAC-d PDU		
				Size extended		
				IE is present.		
>>>RLC Mode	М		9.2.1.48D		_	
>>>Maximum MAC-d	0		MAC PDU		YES	reject
PDU Size extended			Size			,
			Extended			
			9.2.1.34D			
>>>DL RLC PDU Size	0		9.2.1.136		Yes	ignore
Format						
>>Modify Priority Queue					_	
>>>Priority Queue ID	М		9.2.1.45A	Shall only	-	
				refer to a		
				Priority Queue		
				already		
				existing in the old		
				configuration.		
>>>Scheduling Priority	0	1	9.2.1.51A	connguration.	_	
Indicator		1	0.2.1.017			
>>>T1	0		9.2.1.54A		_	
>>>Discard Timer	0		9.2.1.19C		_	
>>>MAC-hs Window Size	0		9.2.1.34C		_	
>>>MAC-hs Guaranteed	0		9.2.1.34Aa		_	
Bit Rate	_					
>>>MAC-d PDU Size		0 <maxn< td=""><td></td><td></td><td>_</td><td></td></maxn<>			_	
Index		oofMACd				
		PDUinde				
		xes>				
>>>SID	М		9.2.1.52D	Shall be	-	
				ignored if		
				Maximum		
				MAC-d PDU Size extended		
				IE is present.		
>>>>MAC-d PDU Size	M		9.2.1.34A	Shall be		
			3.2.1.3 <del>4</del> A	ignored if		
				Maximum		
				MAC-d PDU		
				Size extended		
		1		IE is present.		
>>>Maximum MAC-d	0		MAC PDU		YES	reject
PDU Size extended		1	Size			
			Extended			
	L	<b> </b>	9.2.1.34D			
>>>DL RLC PDU Size	0		9.2.1.136		Yes	ignore
Format		<del> </del>				
>>Delete Priority Queue >>>Priority Queue ID	M	<del> </del>	0.2.4.45.4	Shall anti-	_	
>>>rnonty Queue ID	М	1	9.2.1.45A	Shall only	_	
		1		refer to a Priority Queue		
		1		already		
		1		existing in the		
		1		old		
				configuration.		
MAC-hs Reordering Buffer Size	0	1	9.2.1.34Ab	<u> </u>	_	
for RLC-UM		1				
CQI Feedback Cycle k	0	1	9.2.2.24a	For FDD only	_	
CQI Repetition Factor	0		9.2.2.24c	For FDD only	_	
ACK-NACK Repetition Factor	0		9.2.2.a	For FDD only	_	
CQI Power Offset	0		9.2.2.24b	For FDD only	I	
ACK Power Offset	0		9.2.2.b	For FDD only	—	· · · · · · · · · · · · · · · · · · ·
NACK Power Offset	0		9.2.2.26a	For FDD only		

IE/Group Name	Presence	Range	IE Type and	Semantics Description	Criticality	Assigned Criticality
	_		Reference			
HS-SCCH Power Offset	0		9.2.2.19d	For FDD only	-	
HS-SCCH Code Change Grant	0		9.2.1.30S		-	
TDD ACK NACK Power Offset	0		9.2.3.71	For TDD only	-	
HARQ Preamble Mode	0		9.2.2.57	For FDD only	YES	ignore
HS-PDSCH Code Change Grant	0		9.2.1.30W	For FDD only	YES	ignore
MIMO Mode Indicator	0		9.2.1.135	For FDD and 1.28Mcps TDD only	YES	reject
HS-DSCH MAC-d PDU Size Format	0		9.2.1.300 C		YES	reject
Sixtyfour QAM Usage Allowed Indicator	0		9.2.2.79A	For FDD only	YES	ignore
UE Capabilities Information	0				YES	ignore
>HS-DSCH Physical Layer Category	М		9.2.1.30O a		-	0
>1.28 Mcps TDD uplink physical channel capability	0		9.2.3.10D	Applicable to 1.28Mcps TDD only	YES	ignore
>Number of Supported Carriers	0		ENUMER ATED ( One-one carrier, One-three carrier, Three- three carrier, One-six carrier, Tree-six carrier, Six-six carrier,)	Applicable to 1.28Mcps TDD only This IE indicates the number of carrier that UE can support at the same time,where " One-three carrier" means the number of supported carrier is one for the uplink,and three for the downlink.	YES	reject
>Multi-carrier HS-DSCH Physical Layer Category	0		9.2.1.30O a	Applicable to 1.28Mcps TDD only	YES	ignore
>MIMO SF Mode Supported For HS-PDSCH dual stream	0		ENUMER ATED (SF1, SF1/SF16)	Applicable to 1.28Mcps TDD only	YES	ignore
>UE TS0 Capability LCR	0		ENUMER ATED (TS0 Capable, TS0 Non- Capable)	Applicable to 1.28Mcps TDD only	YES	ignore
Enhanced HS Serving CC Abort	0		ENUMER ATED (Abort Enhanced HS Serving CC,)	For FDD only	YES	reject
UE Support Indicator Extension	0		9.2.2.103		YES	ignore
Power Offset For S-CPICH for MIMO Request Indicator	0		9.2.2.105	For FDD only	YES	ignore
Single Stream MIMO Mode Indicator	0		9.2.2.107	For FDD only	YES	reject

Range bound	Explanation
maxnoofMACdFlows	Maximum number of MAC-d flows.
maxnoofPrioQueues	Maximum number of Priority Queues.
maxnoofMACdPDUindexes	Maximum number of MAC-d PDU Size Indexes
	(SIDs).

## 9.2.1.30R HS-SCCH Code Change Indicator

The HS-SCCH Code Change Indicator indicates whether the HS-SCCH Code change is needed or not.

IE/Group Name	Presence	Range	IE type and reference	Semantics description
HS-SCCH Code Change			ENUMERAT	
Indicator			ED (HS-	
			SCCH Code	
			Change	
			needed)	

### 9.2.1.30S HS-SCCH Code Change Grant

The HS-SCCH Code Change Grant IE indicates that modification of HS-SCCH Codes is granted.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
HS-SCCH Code Change			ENUMERAT	
Grant			ED(Change	
			Granted)	

### 9.2.1.30T IMEI

The IMEI is a permanent UE Equipment Identity, see ref. TS 23.003 [1].

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
IMEI			OCTET STRING (SIZE (8))	<ul> <li>hexadecimal digits 0 to F, two hexadecimal digits per octet,</li> <li>each hexadecimal digit encoded 0000 to 1111,</li> <li>1111 used as filler for bits 8 to 5 of last octet</li> <li>bit 4 to 1 of octet n encoding digit 2n-1</li> <li>bit 8 to 5 of octet n encoding digit 2n</li> </ul>
				Number of hexadecimal digits shall be 15.

### 9.2.1.30U IMEISV

The IMEISV is a permanent UE Equipment Identity, see ref. TS 23.003 [1].

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
IMEISV			OCTET STRING (SIZE (8))	<ul> <li>hexadecimal digits 0 to F, two hexadecimal digits per octet,</li> <li>each hexadecimal digit encoded 0000 to 1111,</li> <li>1111 used as filler for bits 8 to 5 of last octet</li> <li>bit 4 to 1 of octet n encoding digit 2n-1</li> <li>bit 8 to 5 of octet n encoding digit 2n</li> <li>Number of hexadecimal digits shall be 16.</li> </ul>

## 9.2.1.30V HS-PDSCH Code Change Indicator [FDD]

The HS-PDSCH Code Change Indicator indicates whether the HS-PDSCH Code change is needed or not.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
HS-PDSCH Code Change Indicator			ENUMERATED (HS- PDSCH Code	
			Change needed)	

## 9.2.1.30W HS-PDSCH Code Change Grant [FDD]

The HS-PDSCH Code Change Grant IE indicates that modification of HS-PDSCH Codes is granted.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
HS-PDSCH Code Change			ENUMERATED(Chan	
Grant			ge Granted)	

## 9.2.1.31 IMSI

The IMSI is the permanent UE user Identity, see ref. TS 23.003 [1].

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
IMSI			OCTET STRING (SIZE(38))	-Decimal digits coded in BCD -"1111" used as filler -bit 4 to 1 of octet n is encoding digit 2n-1 -bit 8 to 5 of octet n is encoding digit 2n

## 9.2.1.31A Information Exchange ID

The Information Exchange ID uniquely identifies any requested information per RNS.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Information Exchange ID	М		INTEGER(0 2^20-1)	

## 9.2.1.31B Information Exchange Object Type

Void.

## 9.2.1.31C Information Report Characteristics

The information report characteristics define how the reporting shall be performed.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
CHOICE Information Report Characteristics Type	М			
>On Demand			NULL	
>Periodic				
>>CHOICE Information Report Periodicity Scale	М			The frequency with which the Node B shall send information reports.
>>>minute				
>>>Report Periodicity Value	М		INTEGER (160,)	
>>>hour				
>>>Report Periodicity Value	M		INTEGER (124,)	
>On Modification				
>>Information Threshold	0		9.2.1.31D	

## 9.2.1.31D Information Threshold

The Information Threshold indicates which kind of information shall trigger the Information Reporting procedure.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
CHOICE Information Type Item	М				-	
>DGPS Corrections						
>>PRC Deviation	М		ENUMERATED( 1, 2, 5, 10,)	PRC deviation in meters from the previously reported value, which shall trigger a report	_	
>DGANSS						
>>PRC Deviation	М		ENUMERATED (1, 2, 5, 10,)	PRC deviation in meters from the previously reported value, which shall trigger a report	_	

### 9.2.1.31E Information Type

The Information Type indicates which kind of information the RNS shall provide.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Information Type Item	M		Reference ENUMERATED (UTRAN Access Point Position with Altitude, UTRAN Access Point Position, IPDL Parameters, GPS Information, DGPS Corrections, GPS RX Pos, SFN-SFN Measurement Reference Point Position,, Cell Capacity Class, NACC Related Data, MBMS Bearer Service Full Address, Inter-frequency Cell Information, GANSS Information, DGANSS Corrections, GANSS RX Pos, MBMS Counting Information, MBMS Transmission Mode, MBMS Neighbouring Cell Information, MBMS RLC Sequence	Description           For information exchange on the lur-g interface, only the Cell Capacity Class is used.           MBMS Counting Information, MBMS Transmission Mode, MBMS Neighbouring Cell Information and MBMS RLC Sequence Numbe shall only be used by FDD.		Criticality
GPS Information	C-GPS	1 <maxn oofGPST</maxn 	Number)		_	
>GPS Information Item		ypes>	ENUMERATED (GPS Navigation Model and Time Recovery, GPS Ionospheric Model, GPS UTC Model, GPS Almanac, GPS Real-Time Integrity, )			
GANSS Information >GANSS	C-GANSS	01			YES –	Ignore
Common Data						
>>Ionospheric Model	0		BOOLEAN	True means requested	_	
>>Additional Ionospheric Model	0		Additional Ionospheric Model Request 9.2.1.122d	Presence means requested.	YES	Ignore
>>Earth Orientation Parameters	0		Earth Orientation Parameters Request 9.2.1.122e		YES	Ignore

>GANSS Generic Data		0 <maxn oofGANS S&gt;</maxn 			_	
>>GANSS ID	0		9.2.1.119		_	
>>GANSS	0		BOOLEAN	True means	_	
Navigation Model And Time Recovery				requested		
>>GANSS Time Model GNSS- GNSS	0		BIT STRING(9)	Defines the time model required. Bit 1 is the MSB and bit 9 is the LSB (see	_	
				section 9.2.0). Bit 1:GPS, Bit 2:Galileo, Bit 3:QZSS, Bit 4:GLONASS. Other bits are reserved.		
>>GANSS UTC Model	0		BOOLEAN	True means requested	_	
>>GANSS	0		BOOLEAN	True means requested	_	
Almanac >>GANSS Real	0		BOOLEAN	True means	_	
Time Integrity >>GANSS Data Bit Assistance		01		requested	_	
>>>GANSS TOD	М		INTEGER (086399)	The GANSS Time Of Day for which the data bits are requested	_	
>>>Data Bit Assistance		1			_	
>>>>DGANS S Signal ID	М		BIT STRING(8)	Defined in TS 25.331 [16]	_	
>>>>GANSS Data Bit Interval	М		INTEGER (015)	Defined in TS 25.331 [16]	-	
>>>Satellite Information		0 <max GANSS Sat&gt;</max 			-	
>>>Sat ID	М		INTEGER(063)	Identifies the satellite and is equal to (SV ID No – 1)	-	
>>GANSS Additional Navigation Models And Time Recovery	0		GANSS Additional Navigation Models And Time Recovery Request 9.2.1.122f		YES	Ignore
>>GANSS Additional UTC Models	0		GANSS Additional UTC Models Request 9.2.1.122g		YES	Ignore
>>GANSS Auxiliary Information	0		GANSS Auxiliary Information Request 9.2.1.122h		YES	Ignore
>>SBAS ID	C-GANSS- ID		9.2.1.122b		YES	Ignore
DGANSS Corrections Req	C- DGANSS Correction s	1			YES	ignore

>DGANSS Signal	М		BIT STRING(8)	Defined in TS 25.331	-	
ID				[16]		
>GANSS ID	0		9.2.1.119		YES	Ignore
MBMS RLC	C-			FDD only	YES	Ignore
Sequence Number	MBMSRL			-		-
Information	CSequenc					
	eNumber					
>MBMS Cell List		1 <max< td=""><td></td><td></td><td>_</td><td></td></max<>			_	
		noofcell				
		>				
>>C-ID	Μ		9.2.1.6		_	
>>MBMS Bearer		1 <max< td=""><td></td><td></td><td>_</td><td></td></max<>			_	
Service List		noofMB				
		MS>				
>>>TMGI	М		9.2.1.80		_	
>>>Time	М		9.2.2.98		_	
Stamp						

Condition	Explanation
DGANSSCorrections	The IE shall be present if the Information Type Item IE
	indicates "DGANSS Corrections".
GPS	This IE shall be present if the Information Type Item IE
	indicates "GPS Information".
GANSS	This IE shall be present if the Information Type Item IE
	indicates "GANSS Information".
GANSS-ID	This IE shall be present if the GANSS ID IE indicates "SBAS".
MBMSRLCSequenceNumber	This IE shall be present if the Information Type Item IE
	indicates "MBMS RLC Sequence Number ".

Range Bound	Explanation
maxGANSSSat	Maximum number of satellites for which data is included in the IE
maxnoofGPSTypes	Maximum number of GPS Information Types supported in one Information Exchange.
maxnoofGANSS	Maximum number of GANSS Systems.
maxnoofMBMS	Maximum number of MBMS bearer services that a UE can join.
Maxnoofcell	Maximum number of cells that can be indicated in the corresponding IE.

# 9.2.1.31F IPDL Parameters

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
CHOICE IPDL Parameters					-	
>IPDL FDD Parameters						
>>IPDL FDD parameters	М		9.2.2.21B		_	
>IPDL TDD Parameters				Applicable to 3.84Mcps TDD and 7.68Mcps TDD only		
>>IPDL TDD parameters	М		9.2.3.4B		-	
>Additional IPDL Parameters						
>>IPDL TDD Parameters LCR				Applicable to 1.28Mcps TDD only	_	
>>>IPDL TDD parameters LCR	М		9.2.3.4Bb		YES	reject

## 9.2.1.31G Inter-frequency Cell Information

This IE contains the inter-frequency cell information of a cell in the DRNS broadcased in SIB11 or SIB12.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
SIB11		02		
>Inter-frequency Cell Indication- SIB11	М		Integer(01)	Value tag in 10.3.7.45 in TS 25.331 [16] with the same IE name.
>Inter-frequency Cell List in SIB11		0 <maxcellsib11 OrSIB12&gt;</maxcellsib11 		
>>Inter-frequency Cell Id	М		Integer(031)	The order of the inter- frequency cell in SIB11.
>>DL UARFCN	Μ		UARFCN 9.2.1.66	
>>UL UARFCN	0		UARFCN 9.2.1.66	If this IE is not present, the default duplex distance defined for the operating frequency band shall be used , see TS 25.101 [43]
>>Primary Scrambling Code	М		9.2.1.45	
SIB12		02		
>Inter-frequency Cell Indication- SIB12	М			Value tag in 10.3.7.45 in TS 25.331 [16] with the same IE name.
>Inter-frequency Cell List in SIB12		0 <maxcellsib11 OrSIB12&gt;</maxcellsib11 		
>>Inter-frequency Cell Id			Integer(031)	The order of the inter- frequency cell in SIB12.
>>DL UARFCN	М		UARFCN 9.2.1.66	
>>UL UARFCN	0		UARFCN 9.2.1.66	If this IE is not present, the default duplex distance defined for the operating frequency band shall be used, see TS 25.101 [43]
>>Primary Scrambling Code	М		9.2.1.45	

Range bound	Explanation
maxCellSIB110rSIB12	Maximum number of inter-frequency cells broadcased in SIB11 or
	SIB12.

### 9.2.1.32 L3 Information

This parameter contains the Layer 3 Information from a Uu message as received from the UE over the Uu interface or the Layer 3 Information for a Uu message to be sent to a UE by the DRNC, as defined in ref. TS 25.331 [16].

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
L3 Information			BIT STRING	The content is defined in ref. TS 25.331 [16]

### 9.2.1.33 Limited Power Increase

Void.

### 9.2.1.33A Load Value

The *Load Value* IE contains the total load on the measured object relative to the maximum planned load for both the uplink and downlink. It is defined as the load percentage of the Cell Capacity Class.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Uplink Load Value	М		INTEGER(0. .100)	Value 0 shall indicate the minimum load, and 100 shall indicate the maximum load. Load should be measured on a linear scale.
Downlink Load Value	М		INTEGER(0. .100)	Value 0 shall indicate the minimum load, and 100 shall indicate the maximum load. Load should be measured on a linear scale.

### 9.2.1.34 MAC-c/sh SDU Length

Indicates the MAC-c/sh SDU Length. Which is used for FACH, [TDD – DSCH and USCH]. There may be multiple MAC-c/sh SDU Lengths per priority class.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
MAC-c/sh SDU Length			INTEGER(1. .5000)	Size of the MAC-c/sh SDU in number of bits.

### 9.2.1.34A MAC-d PDU Size

The MAC-d PDU Size IE provides the size in bits of the MAC-d PDU.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
MAC-d PDU Size			INTEGER (15000,)	In case of E-DCH, value 8 and values not multiple of 8 shall not be used.

## 9.2.1.34Aa MAC-hs Guaranteed Bit Rate

The *MAC-hs Guaranteed Bit Rate* IE indicates the guaranteed number of bits per second that Node B should deliver over the air interface under normal operating conditions (provided there is data to deliver). If the *MAC-hs Guaranteed Bit Rate* IE is received with the value set to 0 during RL set up or modification, no guarantee is applied.

IE/Group Name	Presence	Range	IE type and reference	Semantics description
MAC-hs Guaranteed Bit			INTEGER	Unit: bit/s
Rate			(02^24-1,,	
			2^24256,000,	
			000)	

### 9.2.1.34Ab MAC-hs Reordering Buffer Size for RLC-UM

The *MAC-hs Reordering Buffer Size for RLC-UM* IE indicates the portion of the buffer in the UE that can be used for RLC-UM traffic (i.e. for Priority Queues whose *RLC Mode* IE is set to "RLC-UM").

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
MAC-hs Reordering Buffer Size for RLC-UM			INTEGER (0300,)	Unit: kBytes And N kBytes = N*1024 Bytes. The DRNS shall use this value to avoid the overflow of the UE buffer.

## 9.2.1.34B MAC-hs Reset Indicator

The MAC-hs Reset Indicator IE indicates that a reset of the MAC-hs is not required.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
MAC-hs Reset Indicator			ENUMERATED (MAC-hs Not Reset)	

## 9.2.1.34C MAC-hs Window Size

The *MAC-hs Window Size* IE is used for MAC-hs/MAC-ehs PDU retransmission as defined in TS 25.321 [41]. [FDD – the values 64 and 128 is only allowed when the MAC header type is MAC-ehs and under conditions defined in TS 25.425 [32]].

IE/Group Name	Presence	Range	IE type and reference	Semantics description
MAC-hs Window Size			ENUMERAT	
			ED (4, 6, 8,	
			12, 16, 24,	
			32,)	

## 9.2.1.34D MAC PDU Size Extended

The *MAC PDU Size Extended* IE provides the size in octets of the MAC level PDU when an extended MAC level PDU size is required.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
MAC PDU Size Extended			INTEGER (11504,,1505)	In case of E-DCH, value 1 shall not be used

### 9.2.1.35 Maximum Allowed UL Tx Power

Maximum Allowed UL Tx Power is the maximum power that a UE in a particular cell is allowed to transmit.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Maximum Allowed UL Tx			INTEGER(-	dBm
Power			50+33)	

### 9.2.1.35A Measurement Availability Indicator

Void

#### 9.2.1.35B Measurement Change Time

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Measurement Change Time	Μ		INTEGER	Unit: ms
			(16000,)	Range: 1060000 ms
				Step: 10 ms

#### 9.2.1.36 Measurement Filter Coefficient

The Measurement Filter Coefficient determines the amount of filtering to be applied for measurements.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Measurement Filter Coefficient			ENUMERAT ED(0, 1, 2, 3, 4, 5, 6, 7, 8, 9, 11, 13, 15, 17, 19,)	

### 9.2.1.36A Measurement Hysteresis Time

The Measurement Hysteresis Time provides the duration during which a reporting criterion has to be fulfilled for the Measurement Reporting procedure to be triggered.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Measurement Hysteresis Time			INTEGER (16000,)	Unit: ms Range: 1060000 ms Step: 10 ms

### 9.2.1.37 Measurement ID

The Measurement ID uniquely identifies a dedicated measurement within a UE Context or a common measurement within a Distant RNC Context [TDD – or a UE measurement within a UE Context].

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Measurement ID			INTEGER(0 2^20-1)	

### 9.2.1.38 Measurement Increase/Decrease Threshold

The Measurement Increase/Decrease Threshold defines the threshold that shall trigger Event C or D.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
CHOICE Measurement Increase/Decrease Threshold >SIR	M				-	
>>SIR	М		INTEGER(062)	0: 0 dB 1: 0.5 dB 2: 1 dB  62: 31dB	-	
>SIR Error				FDD Only		
>>SIR Error	М		INTEGER(0124)	0: 0 dB 1: 0.5 dB 2: 1 dB  124: 62 dB	-	
>Transmitted Code Power				124. 02 0B		
>>Transmitted Code Power	М		INTEGER(0112 ,)	0: 0 dB 1: 0.5 dB 2: 1 dB  112: 56 dB	_	
> <i>RSCP</i> >>RSCP	M		INTEGER(0126	TDD Only 0: 0 dB 1: 0.5 dB	_	
			)	2: 1 dB  126: 63 dB		
>Round Trip Time				FDD Only		
>>Round Trip Time	М		INTEGER(0327 66)	0: 0 chips 1: 0.0625 chips 2: 0.1250 chips  32766: 2047.875	_	
>Additional Measurement Thresholds				chips		
>>Load						
>>>Load	М		INTEGER(0100 )	Units are the same as for the Uplink <i>Load</i> <i>Value</i> IE and <i>Downlink Load Value</i> IE.	_	
>>Transmitted Carrier Power						
>>>Transmitted Carrier Power	Μ		INTEGER(0100 )	According to mapping in TS 25.133 [23] and TS 25.123 [24].	YES	reject
>>Received Total Wide Band Power						
>>>Received Total Wide Band Power	М		INTEGER(0620 )	0: 0dB 1: 0.1dB 2: 0.2dB  620: 62dB	YES	reject
>>UL Timeslot ISCP				TDD Only		
>>>UL Timeslot ISCP	М		INTEGER(0126 )	0: 0dB 1: 0.5dB 2: 1dB	YES	reject
				 126: 63dB		

>>RT Load					
>>>RT Load	М	INTEGER(0100 )	Units are the same as for the <i>Uplink RT</i> <i>Load Value</i> IE and <i>Downlink RT Load</i> <i>Value</i> IE.	YES	reject
>>NRT Load Information					
>>>NRT Load Information	Μ	INTEGER(03)		YES	reject
>>UpPTS interference			1.28Mcps TDD Only		
>>>UpPTS interference Value	М	INTEGER (0127,)	According to mapping in TS 25.123 [24]	YES	reject

## 9.2.1.38A Measurement Recovery Behavior

This IE controls the Measurement Recovery Behavior.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Measurement Recovery Behavior			NULL	

### 9.2.1.38B Measurement Recovery Reporting Indicator

This IE indicates the Measurement Recovery Reporting.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Measurement Recovery			NULL	
Reporting Indicator				

## 9.2.1.38C Measurement Recovery Support Indicator

This IE indicates the Measurement Recovery Support.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Measurement Recovery Support Indicator			NULL	

## 9.2.1.39 Measurement Threshold

The Measurement Threshold defines which threshold that shall trigger Event A, B, E, F or On Modification.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
CHOICE Measurement Threshold					-	
>SIR						
>>SIR	М		INTEGER(063)	According to mapping in ref. TS 25.133 [23] and TS 25.123 [24].	_	
>SIR Error				FDD Only		
>>SIR Error	М		INTEGER(0125 )	According to mapping in TS 25.133 [23]	_	
>Transmitted Carrier Power						
>>Transmitted Code Power	М		INTEGER(0127 )	According to mapping in ref. TS 25.133 [23] and TS 25.123 [24].	_	
>RSCP				TDD Only		
>>RSCP	М		INTEGER(0127 )	According to mapping in ref. TS 25.123 [24]	-	
>Rx Timing Deviation				Applicable to 3.84Mcps TDD Only		
>>Rx Timing Deviation	М		INTEGER(0819 1)	According to mapping in TS 25.123 [24]	—	
>Round Trip Time				FDD Only		
>>Round Trip Time	М		INTEGER(0327 67)	According to mapping in TS 25.133 [23]	-	
>Additional Measurement						
Thresholds						
>>T <sub>UTRAN-GPS</sub> Measurement Threshold Information						
>>>Tutran-gps	М		9.2.1.59C		YES	reject
Measurement Threshold Information			0.2.1.000		120	Tojoot
>>SFN-SFN Measurement Threshold Information						
>>>SFN-SFN Measurement Threshold Information	М		9.2.1.52B		YES	reject
>>Load	1		1			
>>>Load	М		INTEGER(0100 )	0 is the minimum indicated load, and 100 is the maximum indicated load.	YES	reject
>>Transmitted Carrier Power						
>>>Transmitted Carrier Power	M		INTEGER(0100 )	According to mapping in TS 25.133 [23] and TS 25.123 [24].	YES	reject
>>Received Total Wide Band Power						
>>>Received Total Wide Band Power >>UL Timeslot	M		INTEGER(0621 )	According to mapping in TS 25.133 [23] and TS 25.123 [24]. TDD Only	YES	reject
ISCP						
>>>UL Timeslot ISCP	М		INTEGER(0127	According to mapping in TS 25.123 [24]	YES	reject
>>RT Load			ľ			

>>>RT Load	М	INTEGER(0100		YES	reject
>>NRT Load Information					
>>>NRT Load Information	М	INTEGER(03)		YES	reject
>>Rx Timing Deviation LCR			Applicable to 1.28Mcps TDD Only		
>>>Rx Timing Deviation LCR	М	INTEGER(0511 )	According to mapping in TS 25.123 [24]	YES	reject
>>HS-SICH reception quality			Applicable to TDD Only		
>>>HS-SICH reception quality	M	INTEGER (020)	According to mapping in TS 25.123 [24]	YES	reject
>>UpPTS interference			1.28Mcps TDD Only		
>>>UpPTS interference Value	M	INTEGER (0127,)	According to mapping in TS 25.123 [24]	YES	reject
>>Rx Timing Deviation 768			Applicable to 7.68Mcps TDD Only		
>>>Rx Timing Deviation 768	М	INTEGER(0655 35)	According to mapping in TS 25.123 [24]	YES	reject
>>Rx Timing Deviation 384 Extended			Applicable to 3.84Mcps TDD Only		
>>>Rx Timing Deviation 384 Extended	M	INTEGER(0327 67)	According to mapping in TS 25.123 [24]	YES	reject
>>Extended Round Trip Time			FDD Only		
>>>Extended Round Trip Time Value	М	INTEGER (32767103041)	Continuation of intervals with step size as defined in TS 25.133 [23].	YES	reject
>>T <sub>UTRAN-GANSS</sub> Measurement Threshold Information					
>>>T <sub>UTRAN-</sub> GANSS Measurement Threshold Information	М	9.2.1.113		YES	reject

# 9.2.1.39A Message Structure

The *Message Structure* IE gives information for each level with assigned criticality in an hierarchical message structure from top level down to the lowest level above the reported level for the occurred error (reported in the *Information Element Criticality Diagnostics* IE).

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IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Message structure		1 <maxnoo flevels&gt;</maxnoo 		The first repetition of the Message Structure IE corresponds to the top level of the message. The last repetition of the Message Structure IE corresponds to the level above the reported level for the occurred error of the message.	_	
>IE ID	M		INTEGER( 065535)	The IE ID of this level's IE containing the not understood or missing IE.	_	
>Repetition Number	0		INTEGER( 1256)	The Repetition Number IE gives, if applicable, the number of occurrences of this level's reported IE up to and including the occurrence containing the not understood or missing IE. Note: All the counted occurrences of the reported IE must have the same topdown hierarchical message structure of IEs with assigned criticality above them.	_	

Range bound	Explanation
maxnooflevels	Maximum no. of message levels to report. The value for
	maxnooflevels is 256.

## 9.2.1.40 Message Type

The Message Type uniquely identifies the message being sent.

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"5" = Downlink Signalling Transfer "6" = Error Indication "7" = Dedicated Measurement Failure "8" = Dedicated Measurement Initiation "9" = Dedicated Measurement Report "10" = Dedicated Measurement Termination "11" = Paging	E/Group Name	sence Range	IE Type and Reference	Semantics Description
>Procedure Code       M         INTEGER (0255)       "0" = Common Transport Channel Resources Initialisation "1" = Common Transport Channel Resources Release "2" = Compressed Mode Command "3" = Downlink Power Control "4" = Downlink Power Timeslot Control "4" = Downlink Signalling Transfer "6" = Error Indication "7" = Dedicated Measurement Failure "8" = Dedicated Measurement Initiatio "9" = Dedicated Measurement Report "10" = Dedicated Measurement Termination "11" = Paging	ocedure ID	1		
<ul> <li>"14" = Radio Link Addition</li> <li>"15" = Radio Link Deletion</li> <li>"16" = Radio Link Failure</li> <li>"17" = Radio Link Failure</li> <li>"17" = Radio Link Setup</li> <li>"20" = Relocation Commit</li> <li>"21" = Synchronised Radio Link</li> <li>Reconfiguration Concellation</li> <li>"22" = Synchronised Radio Link</li> <li>Reconfiguration Commit</li> <li>"23" = Synchronised Radio Link</li> <li>Reconfiguration Preparation</li> <li>"24" = UnSynchronised Radio Link</li> <li>Reconfiguration Preparation</li> <li>"25" = Uplink Signalling Transfer</li> <li>"26" = Common Measurement Failure</li> <li>"27" = Common Measurement Reporting</li> <li>"28" = Common Measurement Reporting</li> <li>"30" = Information Exchange Failure</li> <li>"31" = Information Exchange</li> <li>Termination</li> <li>"33" = Information Exchange</li> <li>Termination</li> <li>"36" = Radio Link Activation</li> <li>"37" = GERAN Uplink Signalling Transfer</li> <li>"36" = Radio Link Congestion</li> <li>"37" = GERAN Uplink Signalling Transfer</li> <li>"38" = Radio Link Congestion</li> <li>"37" = UE Measurement Initiation</li> <li>"37" = UE Measurement Reporting</li> <li>"41" = UE Measurement Reporting</li> <li>"42" = UE Measurement Reporting</li> <li>"43" = Linko Reparated Reporting</li> <li>"43" = Direct Information Transfer</li> <li>"48" = Direct Information Transfer</li> <li>"49" = Enhanced Relocation</li></ul>				Resources Initialisation "1" = Common Transport Channel Resources Release "2" = Compressed Mode Command "3" = Downlink Power Control "4" = Downlink Power Timeslot Control "5" = Downlink Signalling Transfer "6" = Error Indication "7" = Dedicated Measurement Failure "8" = Dedicated Measurement Reporting "10" = Dedicated Measurement Reporting "10" = Dedicated Measurement Reporting "10" = Dedicated Measurement Reporting "11" = Paging "12" = Physical Channel Reconfiguration "14" = Radio Link Addition "15" = Radio Link Peletion "16" = Radio Link Peletion "16" = Radio Link Restoration "19" = Radio Link Restoration "19" = Radio Link Restoration "19" = Radio Link Restoration "19" = Radio Link Restoration "20" = Relocation Commit "21" = Synchronised Radio Link Reconfiguration Cancellation "22" = Synchronised Radio Link Reconfiguration Commit "23" = Synchronised Radio Link Reconfiguration Preparation "24" = UnSynchronised Radio Link Reconfiguration "25" = Uplink Signalling Transfer "26" = Common Measurement Failure "27" = Common Measurement Failure "27" = Common Measurement Reporting "28" = Common Measurement Reporting "33" = Information Exchange Failure "31" = Information Exchange Initiation "32" = Information Exchange Initiation "32" = Information Reporting "33" = Information Exchange Initiation "34" = Radio Link Congestion "35" = Reset "36" = Radio Link Activation "37" = GERAN Uplink Signalling Transfer "40" = UE Measurement Failure "40" = UE Measurement Failure "40" = UE Measurement Failure "40" = UE Measurement Reporting "42" = UF Measurement Termination "43" = Iur Deactivate Trace "44" = Iur Invoke Trace "45" = MBMS Attach "46" = MBMS Detach "48" = Direct Information Transfer

			<ul> <li>"52" = Enhanced Relocation Release</li> <li>"53" = MBSFN MCCH Information</li> <li>"54" = Secondary UL Frequency</li> <li>Reporting</li> <li>"55" = Secondary UL Frequency Update</li> </ul>
>Ddmode	М	ENUMERATED(FDD,	Common = common to FDD and TDD.
		TDD, Common,)	
Type of Message	Μ	ENUMERATED(Initiati	
		ng Message,	
		Successful	
		Outcome,	
		Unsuccessful	
		Outcome, Outcome)	

#### 9.2.1.41 Multiple URAs Indicator

The Multiple URAs Indicator indicates whether the accessed cell has multiple URAs.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Multiple URAs Indicator			ENUMERAT ED(Multiple URA s exist, Single URA Exists)	

### 9.2.1.41a NACC Related Data

The NACC related data IE provides NACC related information for the indicated GSM cell.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
CHOICE GERAN System Info Type	Μ			
>S/				
>>SI	М		9.2.1.30Fc	GERAN system information SI3, SI13, SI1 TS 44.060 [47]
>PSI				
>>PSI	М		9.2.1.30Fc	GERAN system information PSI1, PSI2, PSI4 TS 44.060 [47]

### 9.2.1.41A Neighbouring UMTS Cell Information

The *Neighbouring UMTS Cell Information* IE provides information for UMTS Cells that are neighbouring cells to a cell in the DRNC. The neighbouring cell information is provided for each RNC (including the DRNC) that has cells that are neighbouring cells to the cell in the DRNC.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Neighbouring UMTS Cell Information		1 <maxnoof neighbourin gRNCs&gt;</maxnoof 			EACH	ignore
>RNC-ID	M		9.2.1.50	If the Extended RNC-ID IE is included in the Neighbourin g UMTS Cell Information IE, the RNC- ID IE shall be ignored.	_	
>CN PS Domain Identifier	0		9.2.1.12		—	
>CN CS Domain Identifier	0		9.2.1.11		-	
>Neighbouring FDD Cell Information	0		9.2.1.41B		-	
>Neighbouring TDD Cell Information	0		9.2.1.41D		_	
>Neighbouring TDD Cell Information LCR	0		9.2.1.72		YES	ignore
>Extended RNC-ID	0		9.2.1.50a	The Extended RNC-ID IE shall be used if the RNC identity has a value larger than 4095.	YES	reject

Range bound	Explanation
maxnoofneighbouringRNCs	Maximum number of neighbouring RNCs.

# 9.2.1.41B Neighbouring FDD Cell Information

The *Neighbouring FDD Cell Information* IE provides information for FDD cells that are neighbouring cells to a cell in the DRNC.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Neighbouring FDD Cell Information		1 <max noofFDD neighbou rs&gt;</max 			_	
>C-ID	Μ		9.2.1.6		_	
>UL UARFCN	M		UARFCN 9.2.1.66	Corresponds to Nu in ref. TS 25.104 [6]	-	
>DL UARFCN	M		UARFCN 9.2.1.66	Corresponds to Nd in ref. TS 25.104 [6]	-	
>Frame Offset	0		9.2.1.30		-	
>Primary Scrambling Code	Μ		9.2.1.45		-	
>Primary CPICH Power	0		9.2.1.44		-	
>Cell Individual Offset	0		9.2.1.7		_	
>Tx Diversity Indicator	М		9.2.2.50			
>STTD Support Indicator	0		9.2.2.45		_	
>Closed Loop Mode1 Support Indicator	0		9.2.2.2		Ι	
>Not Used	0		NULL		-	
>Restriction State Indicator	0		9.2.1.48C		YES	ignore
>DPC Mode Change Support Indicator	0		9.2.2.56		YES	ignore
>Coverage Indicator	0		9.2.1.12G		YES	ignore
>Antenna Co-location Indicator	0		9.2.1.2C		YES	ignore
>HCS Prio	0		9.2.1.30N		YES	ignore
>Cell Capability Container FDD	0		9.2.2.D		YES	ignore
>SNA Information	0		9.2.1.52Ca		YES	ignore
>Frequency Band Indicator	0		9.2.2.59		YES	ignore
>Max UE DTX Cycle	C-CPC- DTX- DRXCapab le		9.2.2.87		YES	ignore
>Multiple PLMN List	0		9.2.1.117		YES	ignore
>Secondary Serving Cell List	C-MC- Capable		9.2.2.101		YES	ignore
>Dual Band Secondary Serving Cell List	C-DB- Capable		Secondary Serving Cell List 9.2.2.101		YES	ignore
>Cell Capability Container Extension FDD	0		9.2.2.123		YES	ignore
>Cell List Validity Indicator	0		ENUMERAT ED (Ignore Secondary Serving Cell List, Ignore Dual Band Secondary Serving Cell List, Ignore Both)		YES	ignore

Range bound	Explanation
maxnoofFDDneighbours	Maximum number of neighbouring FDD cell for one cell.

Condition	Explanation
CPC-DTX-DRXCapable	The IE shall be present if the the fifteenth bit Continuous Packet
	Connectivity DTX-DRX Support Indicator in the Cell Capability Container
	FDD IE is set to the value "1".
MC-Capable	The IE shall be present if the the Multi Cell Support Indicator in the Cell
	Capability Container FDD IE is set to the value "1".
DB-Capable	The IE shall be present if the the Dual Band Support Indicator in the Cell
	Capability Container FDD IE is set to the value "1".

# 9.2.1.41C Neighbouring GSM Cell Information

The *Neighbouring GSM Cell Information* IE provides information for all GSM Cells that are a neighbouring cell to a cell in the DRNC.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Neighbouring GSM Cell Information		1 <max noofGS Mneighb ours&gt;</max 			GLOBAL	ignore
>CGI		1		Cell Global Identity as defined in ref. TS 23.003 [1].	_	
>>LAI		1			_	
>>>PLMN Identity	M		OCTET STRING (3)	<ul> <li>digits 0 to 9, two digits per octet,</li> <li>each digit encoded 0000 to 1001,</li> <li>1111 used as filler</li> <li>bit 4 to 1 of octet n encoding digit 2n-1</li> <li>bit 8 to 5 of octet n encoding digit 2n</li> <li>The PLMN Identity consists of 3 digits from MCC followed by either</li> <li>a filler plus 2 digits from MNC (in case of 2 digit MNC) or</li> <li>3 digits from MNC (in case of a 3 digit MNC).</li> </ul>		
>>>LAC	Μ		OCTET	0000 and FFFE not	-	
>>Cl	M		STRING (2) OCTET STRING (2)	allowed	-	
>Cell Individual Offset	0		9.2.1.7	The Cell Individual Offset to be used for Ues using DCHs. If the Extended GSM Cell Individual Offset IE is present, the Cell Individual Offset IE shall be set to a) –10dB if the Extended GSM Cell Individual Offset IE is < -10dB and b) 10dB if the Extended GSM Cell Individual Offset IE is > 10dB.	_	
>BSIC		1		Base Station Identity Code as defined in ref. TS 23.003 [1].	-	
>>NCC	М		BIT STRING(3)	Network Colour Code.	-	
>>BCC	М		BIT STRING(3)	Base Station Colour Code.	-	
>Band Indicator	М		ENUMERAT ED(DCS 1800 band, PCS 1900	Indicates whether or not the BCCH ARFCN belongs to the 1800 band or 1900 band of GSM	-	
			band,)			
>BCCH ARFCN >Coverage Indicator	M 0		band,) INTEGER(0. .1023) 9.2.1.12G	frequencies. BCCH Frequency as defined in ref. TS 05.05 [29].	- YES	ignore

Indicator						
>HCS Prio	0	9.2	.1.30N		YES	ignore
> SNA Information	0	9.2	.1.52Ca		YES	ignore
>GERAN Cell Capability	0	9.2	.1.30Fa		YES	ignore
>GERAN Classmark	0	9.2	.1.30Fb		YES	ignore
>Extended GSM Cell Individual Offset	0	9.2	.1.26Bb	The Extended GSM Cell Individual Offset to be used for Ues using DCHs, for values that exceed the range of the <i>Cell</i> <i>Individual Offset</i> IE.	YES	ignore

Range bound	Explanation
maxnoofGSMneighbours	Maximum number of neighbouring GSM cells for one cell.

# 9.2.1.41D Neighbouring TDD Cell Information

The *Neighbouring TDD Cell Information* IE provides information for 3.84Mcps TDD or 7.68Mcps TDD cells that are neighbouring cells to a cell in the DRNC.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Neighbouring TDD Cell Information		1 <maxnoo fTDDneighb ours&gt;</maxnoo 			-	
>C-ID	М		9.2.1.6		_	
>UARFCN	М		9.2.1.66	Corresponds to Nt in ref. TS 25.105 [7]	-	
>Frame Offset	0		9.2.1.30		-	
>Cell Parameter ID	М		9.2.1.8		_	
>Sync Case	М		9.2.1.54		_	
>Time Slot For SCH	C-Case1		Time Slot 9.2.1.56		-	
>SCH Time Slot	C-Case2		9.2.1.51		_	
>SCTD Indicator	М		9.2.1.78		_	
>Cell Individual Offset	0		9.2.1.7		_	
>DPCH Constant Value	0		9.2.1.23		-	
>PCCPCH Power	0		9.2.1.43		_	
>Restriction State Indicator	0		9.2.1.48C		YES	ignore
>Coverage Indicator	0		9.2.1.12G		YES	ignore
>Antenna Co-location Indicator	0		9.2.1.2C		YES	ignore
>HCS Prio	0		9.2.1.30N		YES	ignore
>Cell Capability Container TDD	0		9.2.3.1a		YES	ignore
>Cell Capability Container 7.68Mcps TDD	0		9.2.3.31		YES	ignore
> SNA Information	0		9.2.1.52Ca		YES	ignore
>Multiple PLMN List	0		9.2.1.117		YES	ignore

Condition	Explanation
Case1	The IE shall be present if the Sync Case IE is set to "Case1".
Case2	The IE shall be present if the Sync Case IE is set to "Case2".

Range bound	Explanation
maxnoofTDDneighbours	Maximum number of neighbouring 3.84Mcps TDD or 7.68Mcps TDD cell for one cell.

# 9.2.1.41Dd Neighbouring TDD Cell Measurement Information LCR

This IE provides information on the 1.28Mcps TDD neighbouring cells used for the purpose of Measurements. Since the measurement can be performed on every time slot and midamble shift, the *Time slot LCR* IE and *Midamble shift LCR* IE shall be included if available.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
UTRAN Cell Identifier	М		9.2.1.71	
UARFCN	М		9.2.1.66	Corresponds to Nt TS 25.304 [15]
Cell Parameter ID	М		9.2.1.8	
Time Slot LCR	0		9.2.3.12a	
Midamble shift LCR	0		9.2.3.4C	

# 9.2.1.41De Neighbouring E-UTRA Cell Information

The *Neighbouring E-UTRA Cell Information* IE provides information for all E-UTRA Cells that are a neighbouring cell to a cell in the DRNC.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Neighbouring E-UTRA Cell Information		1 <max noofEUT RAneigh bours&gt;</max 		2000.1900.0	_	<u></u>
>ECGI		1		EUTRAN Cell Global Identity as defined in ref. TS 36.401 [61].	_	
>>PLMN Identity	M		OCTET STRING (3)	<ul> <li>digits 0 to 9, two digits per octet,</li> <li>each digit encoded 0000 to 1001,</li> <li>1111 used as filler</li> <li>bit 4 to 1 of octet n encoding digit 2n-1</li> <li>bit 8 to 5 of octet n encoding digit 2n</li> <li>The PLMN Identity consists of 3 digits from MCC followed by either</li> <li>a filler plus 2 digits from MNC (in case of 2 digit MNC) or</li> <li>3 digits from MNC (in case of a 3 digit MNC).</li> </ul>	_	
>>E-UTRAN Cell Identifier	M		BIT STRING (28)	The leftmost bits of the <i>E-UTRAN Cell</i> <i>Identifier</i> IE value correspond to the value of the eNB ID.	_	
>CHOICE EARFCN Information	М				-	
>>FDD						
>>>EARFCN-FDD		1				
>>>UL EARFCN	М		9.2.1.41Df EARFCN	Corresponds to NuL in TS 36.104 [62]	-	
>>>DL EARFCN	М		9.2.1.41Df EARFCN	Corresponds to NdL in TS 36.104 [62]	-	
>>TDD		1				
>>> EARFCN	М		9.2.1.41Df EARFCN	Corresponds to NdL in TS 36.104 [62]	_	

Range bound	Explanation
maxnoofLTEneighbours	Maximum number of neighbouring LTE cells for one cell.

#### 9.2.1.41Df EARFCN

The EARFCN (E-UTRA Absolute Radio Frequency Channel Number) defines the carrier.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
EARFCN			INTEGER	Defined in TS 36.104 [62].
			(0maxEAR	
			FCN)	

# 9.2.1.41E Paging Cause

Cause for a CN originated page.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Paging Cause			ENUMERAT ED( Terminating Conversatio nal Call, Terminating Streaming Call, Terminating Interactive Call, Terminating Background Call, Terminating Low Priority Signalling, , Terminating High Priority Signalling, Terminating - cause unknown	See in TS 25.331 [16]

# 9.2.1.41F Paging Record Type

IE/Group Name	Presence	Range	IE Type and	Semantics Description
			Reference	
Paging Record Type			ENUMERAT	See ref. TS 25.331 [16]
			ED(IMSI	
			(GSM-MAP),	
			TMSI (GSM-	
			MAP), P-	
			TMSI (GSM-	
			MAP), IMSI	
			(DS-41),	
			TMSI (DS-	
			41),)	

# 9.2.1.41Fa Partial Reporting Indicator

This IE indicates if DRNS may report partially successful measurements.

IE/Group Name	Presence	Range	IE type and reference	Semantics description
Partial Reporting Indicator			ENUMERAT ED(partial reporting allowed)	

### 9.2.1.41G Neighbouring FDD Cell Measurement Information

This IE provides information on the FDD neighbouring cells used for the purpose of Measurements.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
UTRAN Cell Identifier	М		9.2.1.71	
UARFCN	М		9.2.1.66	Corresponds to Nd TS 25.104 [6]
Primary Scrambling Code	М		9.2.1.45	

### 9.2.1.41H Neighbouring TDD Cell Measurement Information

This IE provides information on the 3.84Mcps TDD neighbouring cells used for the purpose of Measurements. Since the measurement can be performed on every time slot and midamble shift, the *Time slot* IE and *Midamble shift and burst type* IE shall be included if available.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
UTRAN Cell Identifier	Μ		9.2.1.71	
UARFCN	Μ		9.2.1.66	Corresponds to Nt TS 25.304 [15]
Cell Parameter ID	Μ		9.2.1.8	
Time slot	0		9.2.1.56	
Midamble Shift And Burst Type	0		9.2.3.4	

#### 9.2.1.411 NRT Load Information Value

The *NRT Load Information* IE indicates the load situation on the cell for the Non Real-Time traffic. Non Real Time traffic corresponds to the Interactive and Background traffic classes.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Uplink NRT Load Information Value	M		INTEGER(0. .3)	Mapping of the status: 0: low: The Uplink NRT load is low. 1: medium: The Uplink NRT load is medium. 2: high: Uplink NRT load is high. Probability to admit a new user is low. 3: overloaded: Uplink NRT overload. The probability to admit a new user is low, packets are discarded and the source is recommended to reduce the data flow.
Downlink NRT Load Information Value	M		INTEGER(0. .3)	Mapping of the status: 0: low: The Downlink NRT load is low. 1: medium: The Downlink NRT load is medium. 2: high: Downlink NRT load is high. Probability to admit a new user is low. 3: overloaded: Downlink NRT overload. The probability to admit a new user is low, packets are discarded and the source is recommended to reduce the data flow.

#### 9.2.1.42 Payload CRC Present Indicator

This parameter indicates whether FP payload 16 bit CRC is used or not.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Payload CRC Presence			ENUMERAT	
Indicator			ED(CRC	
			Included,	
			CRC not	
			included)	

### 9.2.1.43 PCCPCH Power

Primary CCPCH power is the power that shall be used for reference power value in a TDD cell. The reference point is the antenna connector. If Transmit Diversity is applied to the Primary CCPCH, the PCCPCH Power is the linear sum of the power that is used for transmitting the PCCPCH on all branches.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
PCCPCH Power			NTEGER (- 150400,)	Unit dBm Range $-15.0$ to 40.0 dBm, Step size 0.1 dB. -15.0 shall indicate P $\leq$ -15dBm +40.0 shall indicate P $\geq$ 40dBm.

### 9.2.1.44 Primary CPICH Power

Primary CPICH power is the power that is used for transmitting the Primary CPICH in a cell. The reference point is the antenna connector. If Transmit Diversity is applied to the Primary CPICH, the Primary CPICH Power is the linear sum of the power that is used for transmitting the Primary CPICH on all branches.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Primary CPICH Power			INTEGER (- 100500)	Value = Primary CPICH Power/10 Unit dBm Range –10.0+50.0 Step 0.1 dB

### 9.2.1.45 Primary Scrambling Code

The Primary scrambling code to be used in the cell.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Primary Scrambling Code			INTEGER(0 511)	

### 9.2.1.45A Priority Queue ID

The *Priority Queue ID* IE provides the identity of the Priority Queue. The Priority Queue ID is unique across all MACd flows that are currently allocated for one UE Context or across all Common MAC flows within a cell.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Priority Queue ID			INTEGER (07)	

### 9.2.1.45B Process Memory Size

The *Process Memory Size* IE is the size of an HARQ process in the DRNS expressed in bits. It provides the maximum number of soft channel bits in the virtual IR buffer TS 25.212 [9] or TS 25.222 [46].

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Process Memory Size			ENUMERATED (	
			800, 1600, 2400, 3200,	
			4000, 4800, 5600, 6400,	
			7200, 8000, 8800, 9600,	
			10400, 11200, 12000,	
			12800, 13600, 14400,	
			15200, 16000, 17600,	
			19200, 20800, 22400,	
			24000, 25600, 27200,	
			28800, 30400, 32000,	
			36000, 40000, 44000,	
			48000, 52000, 56000,	
			60000, 64000, 68000,	
			72000, 76000, 80000,	
			88000, 96000, 104000,	
			112000, 120000, 128000,	
			136000, 144000, 152000,	
			160000, 176000, 192000,	
			208000, 224000, 240000,	
			256000, 272000, 288000,	
			304000,)	

#### 9.2.1.46 Puncture Limit

The maximum amount of puncturing for a transport channel in rate matching.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Puncture Limit			INTEGER (015)	0: 40% 1: 44 %  14: 96% 15: 100% (no puncturing) [FDD – Value 0 is not applicable for E-DPCH.]

#### 9.2.1.46A QE-Selector

The QE-Selector indicates from which source the value for the quality estimate (QE) shall be taken.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
QE-Selector			ENUMERAT	
			ED(selected,	
			non-	
			selected)	

### 9.2.1.47 RANAP Relocation Information

This parameter is transparent to the RNSAP. The parameter contains information for the Relocation procedure as defined in TS 25.413 [2].

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
RANAP Relocation Information			BIT STRING	The content is defined in ref. TS 25.413 [2].

## 9.2.1.48 Report Characteristics

The Report Characteristics, defines how the reporting shall be performed.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
CHOICE Report	М				_	
Characteristics >On Demand			NULL			
>Periodic			NOLL		_	
>>Report Periodicity	М		9.2.1.48a	The periodicity with which the DRNS shall send measuremen t reports.	-	
>Event A	M		0.04.00	The		
>>Measurement Threshold	M		9.2.1.39	The threshold for which the DRNS shall trigger a measuremen t report.	_	
>Measurement Hysteresis Time	0		9.2.1.36A		-	
>Event B						
>>Measurement Threshold	M		9.2.1.39	The threshold for which the DRNS shall trigger a measuremen t report.	_	
>>Measurement Hysteresis Time	0		9.2.1.36A		-	
>Event C >Measurement Increase/Decrease Threshold	M		9.2.1.38		_	
>>Measurement Change Time	М		9.2.1.35B	The time within which the measuremen t entity shall rise, in order to trigger a measuremen t report.	_	
>Event D						
>>Measurement Increase/Decrease Threshold	M		9.2.1.38		_	
>>Measurement Change Time >Event E	M		9.2.1.35B	The time within which the measuremen t entity shall fall, in order to trigger a measuremen t report.	_	
>>Measurement	M		Measureme		_	<u> </u>
Threshold 1			nt Threshold 9.2.1.39			
>>Measurement Threshold 2	0		Measureme nt Threshold		_	

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
			9.2.1.39			
>>Measurement Hysteresis Time	0		9.2.1.36A	The hysteresis time in ms	_	
>>Report Periodicity	0		9.2.1.48a	The periodicity with which the DRNS shall send measuremen t reports.	_	
>Event F						
>>Measurement Threshold 1	М		Measureme nt Threshold 9.2.1.39		_	
>>Measurement Threshold 2	0		Measureme nt Threshold 9.2.1.39		-	
>>Measurement Hysteresis Time	0		9.2.1.36A	The hysteresis time in ms	_	
>>Report Periodicity	0		9.2.1.48a	The periodicity with which the DRNS shall send measuremen t reports.	_	
>Additional Report Characteristics						
>>On Modification						
>>> On Modification		1			YES	reject
>>>>Measure ment Threshold	М		9.2.1.39			

#### 9.2.1.48a Report Periodicity

The Report Periodicity defines the frequency at which the Node B shall send measurement reports.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
CHOICE Report Periodicity Scale	М			
>millisecond				
>>Report Periodicity Value	М		INTEGER (16000,)	Unit: ms Range: 1060000 ms Step: 10 ms
>minute				
>>Report Periodicity Value	М		INTEGER (160,)	Unit: min Range: 160 min Step: 1 min

#### 9.2.1.48A Requested Data Value

The Requested Data Value contains the relevant data concerned the ongoing information exchange. *Requested Data Value* IE shall include at least one of the following IE.

IE/Group Name	Presence	Range	IE Type	Semantics	Criticality	Assigned
			and Reference	Description		Criticality
UTRAN Access Point Position	0		9.2.1.75		-	
with Altitude	0		0.04.045			
IPDL Parameters	0		9.2.1.31F		—	
DGPS Corrections GPS Navigation Model and	0		9.2.1.19B 9.2.1.30I			
Time Recovery	0		9.2.1.301		_	
GPS Ionospheric Model	0		9.2.1.30H			
GPS UTC Model	0		9.2.1.30L		_	
GPS Almanac	0		9.2.1.30G		-	
GPS Real-Time Integrity	0		9.2.1.30J		-	
GPS RX Pos	0		9.2.1.30K		-	
SFN-SFN Measurement	0		9.2.1.74		_	
Reference Point Position						
Cell Capacity Class Value	0		9.2.1.5C		YES	ignore
NACC Related Data	0		9.2.1.41a		YES	ignore
MBMS Bearer Service Full Address	0		9.2.1.84		YES	ignore
Inter-frequency Cell Information	0		9.2.1.31G		YES	ignore
GANSS Common Data		01			YES	ignore
>GANSS Ionospheric	0	01	9.2.1.105		-	ignore
	0		0.0.4.400			
>GANSS RX Pos	0		9.2.1.109		-	1
>GANSS Additional lonospheric Model			9.2.1.105a		YES	Ignore
>GANSS Earth Orientation Parameters	0		9.2.1.122a		YES	Ignore
GANSS Generic Data		0 <maxno ofGANSS &gt;</maxno 			GLOBAL	ignore
>GANSS ID	0	-	9.2.1.119		_	
>DGANSS Corrections	0		9.2.1.102		_	
>GANSS Navigation Model And Time Recovery	0		9.2.1.120		-	
>GANSS Time Model	0		9.2.1.110		_	
>GANSS UTC Model	0		9.2.1.111			
>GANSS Almanac	0		9.2.1.103			
>GANSS Real Time	0		9.2.1.108		_	
Integrity						
>GANSS Data Bit	0		9.2.1.118		_	
Assistance						
>GANSS Additional Time Models	0		9.2.1.110a		YES	Ignore
>GANSS Additional Navigation Models And Time Recovery	0		9.2.1.120a		YES	Ignore
>GANSS Additional UTC	0		9.2.1.111a		YES	Ignore
Models >GANSS Auxiliary	0		9.2.1.122c		YES	Ignore
Information >SBAS ID	C-GANSS-		9.2.1.122b		YES	Ignore
	ID					
Counting Information	0		9.2.2.94	FDD only	YES	ignore
Transmission Mode Information	0		9.2.2.95	FDD only	YES	ignore
MBMS Neighbouring Cell Information	0		9.2.2.96	FDD only	YES	ignore
RLC Sequene Number	0	+	9.2.2.97	FDD only	YES	ignore

Condition	Explanation
GANSS-ID	This IE shall be present if the GANSS ID IE indicates "SBAS".

Range Bound	Explanation
maxnoofGANSS	Maximum number of GANSS Systems

#### 9.2.1.48B Requested Data Value Information

The *Requested Data Value Information* IE provides information on whether or not the Requested Data Value is available in the message and also the Requested Data Value itself if available. In case of "Periodic" and "On Modification" reporting, "Information Not Available" shall be used when at least one part of the requested information was not available at the moment of initiating the Information Reporting procedure.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
CHOICE Information	М				-	
Availability Indicator						
>Information Available					-	
>>Requested Data	М		9.2.1.48A		-	
Value						
>Information not			NULL		_	
Available						

#### 9.2.1.48C Restriction State Indicator

The Restriction state indicator is the identifier indicates whether the cell is "Cell Reserved for Operator Use" or not. It is provided by DRNS and reported to SRNC.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Restriction state indicator			ENUMERAT ED(Cell Not Reserved for Operator Use, Cell Reserved for Operator Use,)	

#### 9.2.1.48D RLC Mode

The RLC Mode IE indicates the RLC Mode used for a Priority Queue.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
RLC Mode			ENUMERAT	
			ED (	
			RLC-AM,	
			RLC-UM,)	

#### 9.2.1.49 RL ID

The RL ID is the unique identifier for one RL associated with a UE.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
RL ID			INTEGER (031)	

# 9.2.1.49A RL Specific DCH Information

The *RL Specific DCH Information* IE provides RL Specific DCH Information for DCHs. In case of a set of co-ordinated DCHs requiring a new transport bearer on Iur, the *Transport Layer Address* IE and the *Binding ID* IE in the *RL Specific DCH Information* IE shall be included only for one of the DCHs in the set of co-ordinated DCHs.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
RL Specific DCH Information		1 <maxno ofDCHs&gt;</maxno 			Ι	
>DCH ID	Μ		9.2.1.16		_	
>Binding ID	0		9.2.1.3	Shall be ignored if bearer establishme nt with ALCAP.	_	
>Transport Layer Address	0		9.2.1.62	Shall be ignored if bearer establishme nt with ALCAP.	_	
>Transport Bearer Not Requested Indicator	0		9.2.2.4S	FDD Only	YES	Ignore

Range bound	Explanation
maxnoofDCHs	Maximum number of DCHs for one UE.

### 9.2.1.50 RNC-ID

This is the identifier of one RNC in UTRAN.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
RNC-ID			INTEGER(0. .4095)	

#### 9.2.1.50a Extended RNC-ID

This is the identifier of one RNC in UTRAN.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Extended RNC-ID			INTEGER(4	Note: Application of the
			09665535)	Extended RNC-ID IE to very
				large networks is FFS.

#### 9.2.1.50A SAT ID

The SAT ID indicates the identity of the satellite.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
SAT ID			INTEGER(0. .63)	Identifies the satellite and is equal to (SV ID No – 1) where SV ID No is defined in ICD-GPS- 200 [30].

## 9.2.1.50B RT Load Value

The *RT Load Value* IE indicates in percents the ratio of the load generated by Real Time traffic, relative to the measured Load Value. Real Time traffic corresponds to the Conversational and Streaming traffic classes.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Uplink RT Load Value	М		INTEGER(0. .100)	
Downlink RT Load Value	М		INTEGER(0. .100)	

### 9.2.1.51 SCH Time Slot

The *SCH Time Slot* IE represents the first time slot (k) of a pair of time slots inside a Radio Frame that is assigned to the Physical Channel SCH. The *SCH Time Slot* IE is only applicable if the value of *Sync Case* IE is Case 2 since in this case the SCH is allocated in TS#k and TS#k+8.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
SCH Time Slot			INTEGER(0. .6)	

### 9.2.1.51A Scheduling Priority Indicator

Indicates the relative priority of the FACH, [TDD – DSCH, USCH,] HS-DSCH [FDD – or E-DCH] data frame. Used by the DRNC when scheduling FACH, [TDD – DSCH, USCH,] HS-DSCH [FDD – or E-DCH] traffic.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Scheduling Priority Indicator			INTEGER(0. .15)	Relative priority of the FACH, [TDD – DSCH, USCH,] HS- DSCH [FDD – or E-DCH] data frame: 0=Lowest Priority  15=Highest Priority

# 9.2.1.52 Service Area Identifier (SAI)

This information element is used to identify an area consisting of one or more cells belonging to the same Location Area. Such an area is called a Service Area and can be used for indicating the location of a UE to the CN. For this protocol, only a Service Area that is defined to be applicable to the PS and CS domains shall be used.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
PLMN Identity	М		OCTET STRING (3)	<ul> <li>digits 0 to 9, two digits per octet,</li> <li>each digit encoded 0000 to 1001,</li> <li>1111 used as filler</li> <li>bit 4 to 1 of octet n encoding digit 2n-1</li> <li>bit 8 to 5 of octet n encoding digit 2n</li> <li>The PLMN Identity consists of 3 digits from MCC followed by either</li> <li>a filler plus 2 digits from MNC (in case of 2 digit MNC) or</li> <li>3 digits from MNC (in case of a 3 digit MNC).</li> </ul>
LAC	М		OCTET STRING (2)	0000 and FFFE not allowed
SAC	М		OCTET STRING (2)	

#### 9.2.1.52A SFN

System Frame Number of the cell, see ref. TS 25.402 [17].

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
SFN			INTEGER(0. .4095)	

## 9.2.1.52B SFN-SFN Measurement Threshold Information

The SFN-SFN Measurement Threshold Information defines the related thresholds SFN-SFN Observed Time Difference measurements which shall trigger the Event On Modification.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
SFN-SFN Change Limit	0		INTEGER(1. .256)	Change of SFN-SFN value compared to previously reported value, which shall trigger a new report. Unit in 1/16 chip.
Predicted SFN-SFN Deviation Limit	0		INTEGER(1. .256)	Deviation the Predicted SFN- SFN from the latest measurement result, which shall trigger a new report. Unit in 1/16 chip.

### 9.2.1.52C SFN-SFN Measurement Value Information

The *SFN-SFN Measurement Value Information* IE indicates the measurement result related to SFN-SFN Observed Time Difference measurements as well as other related information.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Successful Neighbouring cell SFN-SFN Observed Time Difference Measurement Information		1 <maxnoofmeasn Cell&gt;</maxnoofmeasn 		
>UTRAN Cell Identifier	М		9.2.1.71	
>SFN-SFN Value	М		9.2.1.77	
>SFN-SFN Quality	0		INTEGER(0. .255)	Indicates the standard deviation (std) of the SFN-SFN otd (observed time difference) measurements in 1/16 chip. SFN-SFN Quality = $\sqrt{E[(x-\mu)^2]}$ = std of reported SFN-SFN Value, where x is the reported SFN- SFN Value and $\mu$ = E[x] is the expectation value of x.
>SFN-SFN Drift Rate	М		INTEGER(- 100100)	Indicates the SFN-SFN drift rate in 1/256 chip per second. A positive value indicates that the Reference cell clock is running at a greater frequency than the measured neighbouring cell.
>SFN-SFN Drift Rate Quality	0		INTEGER(0. .100)	Indicates the standard deviation (std) of the SFN-SFN drift rate measurements in 1/256 chip per second. SFN-SFN Drift Rate Quality = $\sqrt{E[(x-\mu)^2]}$ = std of reported SFN-SFN Drift Rate, where x is the reported SFN- SFN Drift Rate and $\mu$ = E[x] is the expectation value of x.
>SFN-SFN Measurement Time Stamp	М		9.2.1.76	
Unsuccessful Neighbouring cell SFN- SFN Observed Time Difference Measurement Information		0 <maxnoofmeasn Cell-1&gt;</maxnoofmeasn 		
>UTRAN Cell Identifier	М		9.2.1.71	

Range bound	Explanation
maxnoofMeasNCell	Maximum number of neighbouring cells on which
	measurements can be performed.

# 9.2.1.52Ca Shared Network Area (SNA) Information

This information element contains a list of Shared Network Areas, identified by the Shared Network Area Code (SNAC, see TS 23.003 [1]) which a certain cell belongs to. For a broader description of the SNA access control see TS 25.401 [40].

IE/Group Name	Presence	Range	IE type and reference	Semantics description
PLMN Identity	Μ		OCTET STRING (3)	<ul> <li>digits 0 to 9, two digits per octet,</li> <li>each digit encoded 0000 to 1001,</li> <li>1111 used as filler</li> <li>bit 4 to 1 of octet n</li> <li>encoding digit 2n-1</li> <li>bit 8 to 5 of octet n</li> <li>encoding digit 2n</li> <li>The PLMN Identity consists of 3 digits from MCC followed by either</li> <li>a filler plus 2 digits from MNC (in case of 2 digit MNC) or</li> <li>3 digits from MNC (in case of a 3 digit MNC).</li> </ul>
List of SNAs		0 <maxnoofsnas &gt;</maxnoofsnas 		
> SNAC	М		INTEGER (0 65535)	

Range bound	Explanation
maxnoofSNAs	Maximum number of SNAs one cell can be part of.

#### 9.2.1.52D SID

The SID IE provides the identity of the Size Index.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
SID			INTEGER	
			(07)	

#### 9.2.1.53 S-RNTI

The S-RNTI identifies the UE in the SRNC.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
S-RNTI			INTEGER(0. .2^20 –1)	

#### 9.2.1.53a S-RNTI Group

The S-RNTI Group identifies a group of Ues in the SRNC.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
S-RNTI	М		9.2.1.53	
S-RNTI bit mask index	М		Enumerated(	
			b1,	
			b2,b19,)	

The S-RNTI group is identified by all S-RNTI values whose bits starting from the most significant bit down to, and including, the bit indicated by S-RNTI bit mask index, are equal to the corresponding bits of the S-RNTI in this IE.

The bits of the S-RNTI in this IE that are less significant than the bit position indicated by the S-RNTI bit mask index shall be ignored.

#### 9.2.1.54 Sync Case

The SCH and PCCPCH in a TDD cell are mapped on one or two downlink slots per frame. There are two cases of Sync Case as follows:

Case 1)	SCH and PCCPCH allocated in a single TS#k
Case 2)	SCH allocated in two TS: TS#k and TS#k+8
	PCCPCH allocated in TS#k

[1.28Mcps TDD – There is no Sync Case indication needed for 1.28Mcps TDD. If the *Sync Case* IE must be included in a message from DRNC to SRNC used for 1.28Mcps TDD, the DRNC shall indicate Sync Case 1 and the SRNC shall ignore it.]

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Sync Case			INTEGER	

### 9.2.1.54A T1

The T1 IE is used as described in ref TS 25.321 [41] subclause 11.6.2.3.

IE/Group Name	Presence	Range	IE type and	Semantics description
			reference	
T1			ENUMERAT	Unit: ms
			ED (10, 20,	Node B may use this value to
			30, 40, 50,	stop the re-transmission of
			60, 70, 80,	the corresponding MAC-hs
			90, 100, 120,	PDU.
			140, 160,	
			200, 300,	
			400,)	

#### 9.2.1.55 TFCI Presence

The TFCI Presence parameter indicates whether the TFCI shall be included. [TDD – If it is present in the timeslot, it will be mapped to the channelisation code defined by TS 25.221 [12].]

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
TFCI Presence			ENUMERATE	
			D(Present,	
			not present)	

#### 9.2.1.56 Time Slot

The Time Slot represents the time interval assigned to a Physical Channel referred to the start of a Radio Frame.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Time Slot			INTEGER	
			(014)	

# 9.2.1.56A TNL QoS

This IE indicates the TNL QoS characteristics of the transport bearer for the uplink data traffic.

When the DS field IE is used, the value of this IE is configurable by the operator.

When the *Generic Traffic Category* IE is used, generic traffic categories are implementation-specific (e.g. they may be determined by the sender from the application parameters). The value assigned to each of these categories and sent in the *Generic Traffic Category* IE is configurable by the operator, as well as the mapping of this value to DS field (IETF RFC 2474 [44]) at the DRNS side.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
CHOICE TNL QoS type	М			
>DS Field				
>>DS field	М		BIT STRING (8)	DS field as defined in IETF RFC 2474 [44]. Typically used when the DRNS and its SRNC are in the same DS domain as defined in IETF RFC 2475 [45].
>Generic Traffic Category				
>>Generic Traffic Category	Μ		BIT STRING (8)	

### 9.2.1.57 ToAWE

ToAWE is the window endpoint. DL data frames are expected to be received before this window endpoint. ToAWE is defined with a positive value relative Latest Time of Arrival (LtoA). A data frame arriving after ToAWE gives a Timing Adjustment Control frame response.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
ToAWE			INTEGER (02559)	Unit: msec.

### 9.2.1.58 ToAWS

ToAWS is the window startpoint. DL data frames are expected to be received after this window startpoint. ToAWS is defined with a positive value relative Time of Arrival Window Endpoint (ToAWE). A data frame arriving before ToAWS gives a Timing Adjustment Control frame response.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
ToAWS			INTEGER	Unit: msec.
			(01279)	

#### 9.2.1.58a Trace Depth

The Trace Depth IE is Trace Configuration Parameter what should be traced by the DRNC on the indicated interfaces.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Trace Depth			ENUMERATED( Minimum, Medium, Maximum,…)	Meaning of this parameter is described in TS 32.422 [49]

# 9.2.1.58b Trace Recording Session Reference

The *Trace Recording Session Reference* IE provides a Trace Recording Session Reference allocated by the triggering entity.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Trace Recording Session Reference			INTEGER (065535)	

#### 9.2.1.58c Trace Reference

The Trace Reference IE provides a Trace Reference allocated by the triggering entity.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Trace Reference			OCTET STRING (SIZE(23))	

### 9.2.1.58A Traffic Class

This IE indicates the type of application the Radio Bearer is optimised for.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Traffic Class			ENUMERATED (conversational, streaming, interactive, background, )	

#### 9.2.1.59 Transaction ID

The Transaction ID is used to associate all the messages belonging to the same procedure. Messages belonging to the same procedure shall use the same Transaction ID.

The Transaction ID is determined by the initiating peer of a procedure.

For procedures addressed to a specific UE Context, the Transaction ID shall uniquely identify a procedure among all ongoing parallel procedures for the same UE using the same procedure code, and initiated by the same protocol peer.

For procedures not addressed to a specific UE Context, the Transaction ID shall uniquely identify a procedure among all ongoing parallel procedures using the same procedure code, and initiated by the same protocol peer.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
CHOICE Transaction ID Length				The Transaction ID shall be interpreted for its integer value, not for the type of encoding ("short" or "long").
>Short				
>>Transaction ID Value	M		INTEGER (0127)	
>Long				
>>Transaction ID Value	М		INTEGER (032767)	

### 9.2.1.59A Transmitted Carrier Power

The *Transmitted Carrier Power* IE contains the Transmitted Carrier Power in a cell, as defined in TS 25.215 [11] & TS 25.225 [14].

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Transmitted Carrier Power			INTEGER(0. .100)	According to mapping in TS 25.133 [23] and TS 25.123 [24].

### 9.2.1.59B T<sub>UTRAN-GPS</sub> Accuracy Class

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
T <sub>UTRAN-GPS</sub> Accuracy Class			ENUMERAT ED(Accuracy Class A, Accuracy Class B, Accuracy Class C,)	More information about Measurement Accuracy Class is included in TS 25.133 [23].

# 9.2.1.59C T<sub>UTRAN-GPS</sub> Measurement Threshold Information

The T<sub>UTRAN-GPS</sub> Measurement Threshold Information defines the related thresholds for UTRAN GPS Timing of Cell Frames for UE Positioning measurements shall trigger the Event On Modification.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
T <sub>UTRAN-GPS</sub> Change Limit	0		INTEGER(1. .256)	Change of T <sub>UTRAN-GPS</sub> value compared to previously reported value, which shall trigger a new report. Unit in 1/16 chip.
Predicted T <sub>UTRAN-GPS</sub> Deviation Limit	0		INTEGER(1. .256)	Deviation of the Predicted $T_{UTRAN-GPS}$ from the latest measurement result, which shall trigger a new report. Unit in 1/16 chip.

### 9.2.1.59D T<sub>UTRAN-GPS</sub> Measurement Value Information

The T<sub>UTRAN-GPS</sub> *Measurement Value Information* IE indicates the measurement results related to the UTRAN GPS Timing of Cell Frames for UE Positioning measurements.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Tutran-gps >MS	M	1	INTEGER	Indicates the UTRAN GPS Timing of Cell Frames for UE Positioning. According to mapping in TS 25.133 [23] and TS 25.123 [24]; significant values range from 0 to 37158911999999. Most Significant Part
>LS	M		(016383) INTEGER (04294967 295)	Least Significant Part
T <sub>UTRAN-GPS</sub> Quality	0		INTEGER(0. .255)	Indicates the standard deviation (std) of the T <sub>UTRAN-GPS</sub> measurements in 1/16 chip. T <sub>UTRAN-GPS</sub> Quality = $\sqrt{E[(x-\mu)^2]}$ = std of reported T <sub>UTRAN-GPS</sub> Value, where x is the reported T <sub>UTRAN-GPS</sub> Value and $\mu$ = E[x] is the expectation value of x.
T <sub>UTRAN-GPS</sub> Drift Rate	М		INTEGER(- 5050)	Indicates the T <sub>UTRAN-GPS</sub> drift rate in 1/256 chip per second. A positive value indicates that the UTRAN clock is running at a lower frequency than GPS clock.
T <sub>UTRAN-GPS</sub> Drift Rate Quality	0		INTEGER(0. .50)	Indicates the standard deviation (std) of the T <sub>UTRAN-GPS</sub> drift rate measurements in 1/256 chip per second. T <sub>UTRAN-GPS</sub> Drift Rate Quality = $\sqrt{E[(x-\mu)^2]}$ = std of reported T <sub>UTRAN-GPS</sub> Drift Rate, where x is the reported T <sub>UTRAN-GPS</sub> Drift Rate and $\mu = E[x]$ is the expectation value of x.

# 9.2.1.60 Transport Bearer ID

The Transport Bearer ID uniquely identifies an Iur transport bearer.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Transport Bearer ID			INTEGER(0. .4095)	

## 9.2.1.61 Transport Bearer Request Indicator

Indicates whether a new Iur transport bearer needs to be established for carrying the corresponding data stream(s), or whether an existing transport bearer will be used.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Transport Bearer Request			ENUMERAT	
Indicator			ED(Bearer	
			Requested,	
			Bearer not	
			Requested,	
			)	

### 9.2.1.62 Transport Layer Address

In case of transport bearer establishment with ALCAP (TS 25.426 [3]) and (TS 25.424 [35]), this IE contains the address to be used for Transport Network Control Plane signalling to establish the transport bearer according to TS 25.426 [3] and TS 25.424 [35].

In order to allow transport bearer establishment without ALCAP, this IE contains the address of the transport bearer to be used for the user plane transport.

For details on the Transport Address used see TS 25.426 [3].

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Transport Layer Address			BIT	
			STRING(11	
			60, …)	

### 9.2.1.63 Transport Format Combination Set (TFCS)

The Transport Format Combination Set is defined as a set of Transport Format Combinations on a Coded Composite Transport Channel. It is the allowed Transport Format Combinations of the corresponding Transport Channels. The DL Transport Format Combination Set is applicable to DL Transport Channels.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
CHOICE TFCS Values	М			
>Always Used				This choice is always made.
>>TFCS		1 <maxnooftfcs &gt;</maxnooftfcs 		The first instance of the parameter corresponds to TFCI zero, the second to 1 and so on. [TDD – The first entry (for TFCI 0) should be ignored by the receiver.]
>>>CTFC	М		9.2.1.14A	
>>>CHOICE Gain Factors	C- PhysChan			
>>>Signalled Gain Factors				
>>>>Gain Factor β <sub>C</sub>	Μ		INTEGER(0 15)	$ [FDD - For UL DPCCH or control part of PRACH ref. TS 25.213 [21].] [TDD - \beta for UL DPCHmapping in accordance to TS25.223 [13].] $
>>>>Gain Factor β <sub>D</sub>	Μ		INTEGER(0 15)	[FDD – For UL DPDCH or data part of PRACH ref. TS 25.213 [21].] [TDD – Should be set to 0 by the sender, and shall be ignored by the receiver.]
>>>>Reference TFC nr	0		INTEGER(0 15)	If this TFC is a reference TFC, this IE indicates the reference number
>>>Computed Gain Factors				
>>>>Reference TFC nr	М		INTEGER(0 15)	Indicates the reference TFC to be used to calculate the gain factors for this TFC
>Not Used			NULL	This choice shall never be made by the SRNC and the DRNC shall consider the procedure as failed if it is received.

Condition	Explanation		
PhysChan	The choice shall be present if the TFCS concerns a UL DPCH		
	[FDD – or PRACH channel].		

Range bound	Explanation
maxnoofTFCs	The maximum number of Transport Format Combinations.

# 9.2.1.64 Transport Format Set

The Transport Format Set is defined as the set of Transport Formats associated to a Transport Channel, e.g. DCH.

[TDD – The Transport Format Set for each transport channel within the same CCTrCH shall have the same value for the  $2^{nd}$  Interleaving Mode IE.]

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Dynamic Transport Format Information		1 <maxtfcount></maxtfcount>		The first instance of the parameter corresponds to TFI zero, the second to 1 and so on.
>Number of Transport Blocks	М		INTEGER (0512)	
>Transport Block Size	C – Blocks		INTEGER (05000)	Unit: Bits
>CHOICE Mode	Μ			
>>TDD				
>>>Transmission Time Interval Information	C- TTIdynamic	1 <maxttlcount></maxttlcount>		
>>>>Transmission Time Interval	Μ		ENUMERAT ED(10, 20, 40, 80,)	Unit: msec
Semi-static Transport Format Information		1		
>Transmission Time Interval	Μ		ENUMERAT ED (10, 20, 40, 80, dynamic, )	Unit: msec Value "dynamic" for TDD only. For FDD DCH, the value "80" is applicable only when <i>DL</i> <i>DPCH Slot Format</i> IE indicates a slot format with SF=512.
>Type of Channel Coding	М		ENUMERAT ED (No codingTDD, Convolutiona I, Turbo,)	[FDD – The value "No codingTDD" shall be treated as logical error if received]
>Coding Rate	C – Coding		ENUMERAT ED (1/2, 1/3,)	
>Rate Matching Attribute	М		INTEGER (1maxRM)	
>CRC size	М		ENUMERAT ED (0, 8, 12, 16, 24,)	
>CHOICE Mode >>TDD	М			
>>>2 <sup>nd</sup> Interleaving Mode	М		ENUMERAT ED(Frame related, Timeslot related,)	

Condition	Explanation		
Blocks	The IE shall be present if the Number of Transport Blocks IE is set		
	to a value greater than 0.		
Coding	The IE shall be present if Type of Channel Coding IE is set to		
	"Convolutional" or "Turbo".		
TTIdynamic	The IE shall be present if the Transmission Time Interval IE in the		
-	Semi-static Transport Format Information IE is set to "dynamic".		

Range bound	Explanation
maxTFcount	The maximum number of different transport formats that can be
	included in the Transport format set for one transport channel.
maxRM	The maximum number that could be set as rate matching attribute
	for a transport channel.
maxTTIcount	The amount of different TTI that are possible for that transport
	format is.

### 9.2.1.65 TrCH Source Statistics Descriptor

Defines the statistics of the data transmitted in the transport channel. This information may be used in reserving resources in the DRNS.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
TrCH Source Statistics Descriptor			ENUMERAT ED(Speech, RRC, Unknown, )	"Speech" = Statistics of the data corresponds to speech. "RRC" = Statistics of the data corresponds to RRC signalling "Unknown" = The statistics of the data is unknown

### 9.2.1.66 UARFCN

The UTRA Absolute Radio Frequency Channel Number defines the carrier.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
UARFCN			INTEGER(0. .16383,)	Corresponds to: 0.0Hz 3276.6MHz see ref. TS 25.104 [6] and ref. TS 25.105 [7].

#### 9.2.1.66A UE Identity

The UE Identity IE identifies the UE by one of its Permanent NAS Identifier.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
CHOICE UE Identity	Μ			
>IMSI				
>>IMSI	М		9.2.1.31	
>IMEI				
>>IMEI	М		9.2.1.30T	
>IMEISV				
>>IMEISV	М		9.2.1.30U	

### 9.2.1.67 UL FP Mode

This parameter defines if normal or silent mode of the Frame Protocol shall be used for the UL.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
UL FP Mode			ENUMERAT	
			ED(Normal,	
			Silent,)	

### 9.2.1.68 UL Interference Level

Void

### 9.2.1.68A Uncertainty Ellipse

This IE contains the uncertainty ellipse used to describe a possible shape of the geographical area of a cell.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Uncertainty semi-major	М		INTEGER( 0127)	The uncertainty "r" is derived from the "uncertainty code" k by $r = 10x(1.1^{k}-1)$
Uncertainty semi-minor	М		INTEGER( 0127)	The uncertainty "r" is derived from the "uncertainty code" k by $r = 10x(1.1^{k}-1)$
Orientation of major axis	М		INTEGER( 0179)	The relation between the IE value (N) and the angle (a) in degrees it describes is $2N \le a < 2(N+1)$ . The values 90179 shall not be used.

### 9.2.1.68B Unidirectional DCH Indicator

The Unidirectional DCH Indicator IE indicates that the DCH is unidirectional.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Unidirectional DCH Indicator			ENUMERATED (Downlink DCH only, Uplink DCH only)	

# 9.2.1.69 Uplink SIR

The UL SIR indicates a received UL SIR.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Uplink SIR			INTEGER (- 82173)	Value = Uplink SIR/10 Unit dB Range -8.2+17.3 Step 0.1 dB

# 9.2.1.70 URA ID

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
URA ID			INTEGER(0. .65 535)	

### 9.2.1.70A UTRAN Access Point Position

The UTRAN Access Point Position indicates the exact geographical position of the base station antenna.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Latitude Sign	М		ENUMERAT ED(North, South)	
Degrees of Latitude	М		INTEGER( 02 <sup>23</sup> -1)	The IE value (N) is derived by this formula: $N \le 2^{2^3} X /90 < N+1$ X being the latitude in degree (0° 90°)
Degrees of Longitude	М		INTEGER( -2 <sup>23</sup> 2 <sup>23</sup> -1)	The IE value (N) is derived by this formula: $N \le 2^{2^4} X / 360 < N+1$ X being the longitude in degree (-180°+180°)

### 9.2.1.70B URA Information

The URA Information IE contains URA Information for one cell.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
URA ID	М		9.2.1.70		-	
Multiple URAs Indicator	М		9.2.1.41		_	
RNCs with Cells in the Accessed URA		0 <maxrncin URA-1&gt;</maxrncin 		Other RNCs having at least one cell in the URA identified by the URA ID IE.	_	
>RNC-ID	M		9.2.1.50	If the Extended RNC-ID IE is included in the URA Information IE, the RNC-ID IE shall be ignored.	_	
>Extended RNC-ID	0		9.2.1.50a	The Extended RNC-ID IE shall be used if the RNC identity has a value larger than 4095.	YES	reject

Range Bound	Explanation
maxRNCinURA	Maximum number of RNC in one URA.

## 9.2.1.70C User Plane Congestion Fields Inclusion

The *User Plane Congestion Fields Inclusion* IE is used by the DRNC to indicate to the SRNC to include in the HS-DSCH Data Frames the User Plane fields related to TNL Congestion Control for HSDPA (namely the Frame Sequence Number and the DRT, see TS 25.425 [32]).

	IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
	User Plane Congestion Fields Inclusion			ENUMERATED ( Shall be included)	
_ 1	1101031011			Shall be included)	

# 9.2.1.71 UTRAN Cell Identifier (UC-ID)

The UC-ID (UTRAN Cell identifier) is the identifier of a cell in one UTRAN.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
RNC-ID	M		9.2.1.50	If the <i>Extended RNC-ID</i> IE is included in the <i>UC-ID</i> IE, the <i>RNC-ID</i> IE shall be ignored.
C-ID	М		9.2.1.6	
Extended RNC-ID	0		9.2.1.50a	The Extended RNC-ID IE shall be used if the RNC identity has a value larger than 4095.

# 9.2.1.72 Neighbouring TDD Cell Information LCR

The *Neighbouring TDD Cell Information LCR* IE provides information for 1.28Mcps TDD cells that are neighbouring cells to a cell in the DRNC.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Neighbouring TDD Cell Information LCR		1 <maxno ofLCRTDD neighbour s&gt;</maxno 			-	
>C-ID	М		9.2.1.6		_	
>UARFCN	М		9.2.1.66	Corresponds to Nt in ref. TS 25.105 [7]	-	
>Frame Offset	0		9.2.1.30		-	
>Cell Parameter ID	М		9.2.1.8			
>SCTD Indicator	М		9.2.1.78		-	
>Cell Individual Offset	0		9.2.1.7		-	
>DPCH Constant Value	0		9.2.1.23		-	
>PCCPCH Power	0		9.2.1.43		-	
>Restriction State Indicator	0		9.2.1.48C		-	
>Coverage Indicator	0		9.2.1.12G		YES	ignore
>Antenna Co-location	0		9.2.1.2C		YES	ignore
>HCS Prio	0		9.2.1.30N		YES	ignore
>Cell Capability Container TDD LCR	0		9.2.3.1b		YES	ignore
> SNA Information	0		9.2.1.52Ca		YES	ignore
>Multiple PLMN List	0		9.2.1.117		YES	ignore

Range bound	Explanation
maxnoofLCRTDDneighbours	Maximum number of neighbouring 1.28Mcps TDD cell for one cell.

### 9.2.1.73 Permanent NAS UE Identity

This element is used to identify the UE in UTRAN.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Choice Permanent NAS UE Identity				
>IMŠI				
>>IMSI	Μ		9.2.1.31	

### 9.2.1.74 SFN-SFN Measurement Reference Point Position

The SFN-SFN Measurement Reference Point Position indicates the exact geographical position of the SFN-SFN measurement reference point. The altitude shall be included when available.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Geographical Coordinates	Μ		9.2.1.30F	
Altitude and direction	0		9.2.1.2B	

#### 9.2.1.75 UTRAN Access Point Position with Altitude

The UTRAN Access Point Position with Altitude indicates the exact geographical position of the base station antenna. The altitude shall be included when available.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Geographical Coordinates	Μ		9.2.1.30F	
Altitude and direction	0		9.2.1.2B	

#### 9.2.1.76 SFN-SFN Measurement Time Stamp

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
CHOICE Mode	М			
>FDD				
>>SFN	М		9.2.1.52A	Indicates the SFN of the reference cell at which the measurement has been performed.
>TDD				
>>SFN	М		9.2.1.52A	Indicates the SFN of the reference cell at which the measurement has been performed.
>>Time Slot	М		9.2.1.56	Indicates the Time Slot of the reference cell at which this measurement has been performed.

#### 9.2.1.77 SFN-SFN Value

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
CHOICE Mode	М			
>FDD				
>>SFN-SFN	М		INTEGER(0. . 614399)	According to mapping in TS 25.133 [23].
>TDD				1.28Mcps or 3.84Mcps TDD
>>SFN-SFN	М		INTEGER(0. . 40961)	According to mapping in TS 25.123 [24].
>TDD 7.68Mcps				
>>SFN-SFN	М		INTEGER(0. . 81923)	According to mapping in TS 25.123 [24].

### 9.2.1.78 SCTD Indicator

Indicates if SCTD antenna diversity is applied or not to the PCCPCH and PICH [3.84Mcps TDD].

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
SCTD Indicator			ENUMERAT ED(active, inactive)	

### 9.2.1.79 Congestion Cause

The Congestion Cause IE indicates the cause of a congestion situation:

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Congestion Cause			ENUMERATED (UTRAN Dynamic Resources, UTRAN Semistatic Resources, )	

The meaning of the different congestion cause values is described in the following table:

Congestion cause	Meaning
UTRAN Dynamic Resources	UL and/or DL resource congestion situation mainly caused by the UL and/or DL UTRAN Dynamic Resources. This type of congestion situation is, e.g. related to the limitation of the DL transmitted carrier power of the cell(s), or the UL Interference situation in the concerned cell(s).
UTRAN Semistatic Resources	UL and/or DL resource congestion situation mainly related to UTRAN Semistatic Resources (e.g. channelisation codes, Node-B resources,).

### 9.2.1.80 TMGI

The TMGI is the unique identifier for an MBMS bearer service, see ref.TS 23.003 [1].

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
PLMN Identity	M		OCTET STRING (3)	<ul> <li>digits 0 to 9, two digits per octet,</li> <li>each digit encoded 0000 to 1001,</li> <li>1111 used as filler</li> <li>bit 4 to 1 of octet n encoding digit 2n-1</li> <li>bit 8 to 5 of octet n encoding digit 2n</li> <li>The PLMN Identity consists of 3 digits from MCC followed by either</li> <li>a filler plus 2 digits from MNC (in case of 2 digit MNC) or a 3 digits from MNC (in case of a 3 digit MNC).</li> </ul>
Service ID	М		OCTET STRING (3)	

#### 9.2.1.81 Transmission Mode

The Transmission Mode IE indicates the transmission mode used for MBMS data transmission in one cell.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Transmission Mode			ENUMERAT ED(PTP, PTM, Not Provided).	PTP: The MBMS data is transmitted through point to point channel. PTM: The MBMS data is transmitted through point to multipoint channel. Not Provided: The MBMS data is not transmitted in the DRNC.

### 9.2.1.82 Access Point Name

The APN and IP Multicast Address uniquely identify an MBMS bearer service.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
APN	М		OCTET STRING (1255)	

#### 9.2.1.83 IP Multicast Address

The APN and IP Multicast Address uniquely identify an MBMS bearer service.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
IP Multicast Address	M		OCTET STRING (416)	

#### 9.2.1.84 MBMS Bearer Service Full Address

This IE provides the full address of an MBMS Bearer Service otherwise identified by its TMGI.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Access Point Name	М		9.2.1.82	
IP Multicast Address	М		9.2.1.83	

### 9.2.1.85 Provided Information

This IE contains the relevant data concerned the direct information transfer procedure. *Provided Information* IE shall include at least one of the following IEs.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
MBMS Channel Type Information	0		9.2.1.86			
MBMS Preferred Frequency Layer Information	0		9.2.1.87			
UpPCH Information LCR	0		9.2.3.55	Applicable to 1.28Mcps TDD only.	YES	ignore

# 9.2.1.86 MBMS Channel Type Information

This IE contains the channel types of a MBMS Bearer Service indicated by *TMGI* IE in one or more cells. *MBMS Channel Type Information* IE shall include at least one *C-ID* IE and *Affected UE Information for MBMS* IE in the *PTM Cell List* IE, the *PTP Cell List* IE and/or *Not Provided Cell List* IE.

IE/Group Name	Presence	Range	IE Type and	Semantics Description
•			Reference	
TMGI	Μ		9.2.1.80	
PTM Cell List		0 <maxnoofcells></maxnoofcells>		
>C-ID	Μ		9.2.1.6	
>Affected UE Information		0 <maxnoofues></maxnoofues>		
for MBMS				
>>S-RNTI	Μ		9.2.1.53	
PTP Cell List		0 <maxnoofcells></maxnoofcells>		
>C-ID	Μ		9.2.1.6	
>Affected UE Information		0 <maxnoofues></maxnoofues>		
for MBMS				
>>S-RNTI	Μ		9.2.1.53	
Not Provided Cell List		0 <maxnoofcells></maxnoofcells>		
>C-ID	Μ		9.2.1.6	
>Affected UE Information		0 <maxnoofues></maxnoofues>		
for MBMS				
>>S-RNTI	Μ		9.2.1.53	

Range Bound	Explanation
maxnoofCells	Maximum number of cells that can be indicated in the corresponding IE.
maxnoofUEs	Maximum number of S-RNTIs that can be indicated per cell in the respective IEs.

#### 9.2.1.87 MBMS Preferred Frequency Layer Information

This IE contains the preferred frequency layer of a MBMS Bearer Service indicated by *TMGI* IE in one or more cells that host at least one CELL\_DCH UE whose UE Link contains the concerned MBMS Bearer Service and whose SRNC is different from the CRNC.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
TMGI	М		9.2.1.80	
Preferred Frequency Layer Information				
>Default Preferred	М		UARFCN	
Frequency			9.2.1.66	
>Additional Preferred Frequency		0 <maxnoofaddfr eq&gt;</maxnoofaddfr 		Preferred frequencies different from default preferred frequency
>>DL UARFCN	М		UARFCN 9.2.1.66	
>>Corresponding Cells		1 <maxnoofcellsp erFreq&gt;</maxnoofcellsp 		
>>>C-ID	М		9.2.1.6	

Range Bound	Explanation
maxnoofAddFreq	Maximum number of additional preferred frequencies different from
	default preferred frequency in an RNC.
maxnoofCellsPerFreq	Maximum number of cells whose preferred frequency is the same.

### 9.2.1.88 E-DCH DDI Value

The *E-DCH DDI Value* IE is the Data Description Indicator value identifying a unique combination of E-DCH MAC-d Flow ID and MAC-d PDU Size.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
E-DCH DDI Value			INTEGER (062)	

# 9.2.1.89 E-DCH MAC-d Flow Multiplexing List

The E-DCH MAC-d Flow Multiplexing List indicates which E-DCH MAC-d flows are allowed to be multiplexed within a MAC-e PDU with the MAC-d flow it is associated to. If the E-DCH MAC-d Flow Multiplexing List is signalled for an E-DCH MAC-d flow it indicates that E-DCH MAC-d PDUs of this E-DCH MAC-d flow are the first E-DCH MAC-d PDU in the MAC-e PDU. If an E-DCH MAC-d Flow Multiplexing List was already received within a previous Radio Link related procedure and no E-DCH MAC-d Flow Multiplexing List is signalled for a E-DCH MAC-d flow, the DRNS shall continue to use the previously received one. If no E-DCH MAC-d Flow Multiplexing List was ever received for an E-DCH MAC-d flow no restrictions shall be assumed for the related E-DCH MAC-d flow for multiplexing E-DCH MAC-d flows.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
E-DCH MAC-d Flow Multiplexing List			BIT STRING (8)	The first Bit corresponds to E-DCH MAC-d flow 0, the second bit corresponds to E-DCH MAC-d flow 1, etc. For 1.28Mcps TDD, if the IE is included in the IE Common E-DCH MAC-d Flow Specific Information LCR, the first Bit corresponds to E-DCH MAC-d with the lowest E- DCH MAC-d Flow ID within the same frequency, the second bit corresponds to E-DCH MAC-d flow with the second lowest E-DCH MAC-d Flow ID within the same frequency, etc.

### 9.2.1.90 E-DCH MAC-d Flows To Delete

The E-DCH MAC-d Flows To Delete IE is used for the removal of E-DCH MAC-d flows.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
E-DCH MAC-d Flows To Delete		1 <maxnoofedch MACdFlows&gt;</maxnoofedch 		
>E-DCH MAC-d Flow ID	М		9.2.1.91	

Range Bound	Explanation
maxnoofEDCHMACdFlows	Maximum number of E-DCH MAC-d flows

### 9.2.1.91 E-DCH MAC-d Flow ID

The E-DCH MAC-d Flow ID IE is the unique identifier for one MAC-d flow on E-DCH.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
E-DCH MAC-d Flow ID			INTEGER (0 maxnoofEDC HMACdFlow s-1)	

Range Bound	Explanation
maxnoofEDCHMACdFlows	Maximum number of E-DCH MAC-d flows

# 9.2.1.91A E-DCH MAC-d PDU Size Format

The *E-DCH MAC-d PDU Size Format* IE provides information about the type of MAC-d PDU Size Format thet shall be used for the E-DCH in the new configuration. "Fixed MAC-d PDU Size" uses MAC-d PDU sizes defined in *MAC-d PDU Size List* IE of the *E-DCH Logical Channel Information* IE. "Flexible MAC-d PDU Size" uses a flexible MAC-d PDU size with a maximum PDU size as defined by *Maximum MAC-d PDU Size Extended* IE of *E-DCH Logical Channel Information* IE. The actual MAC-d PDU size is determined as specified in TS 25.123 [24] and TS 25.425 [32].

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
E-DCH MAC-d PDU Size			ENUMERATED	
Format			(Fixed MAC-d PDU	
			Size, Flexible MAC-d	
			PDU Size)	

# 9.2.1.92 E-DCH Logical Channel Information

The E-DCH Logical Channel Information IE is used for the establishment of E-DCH Logical Channels.

IE/Group Name	Presenc e	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
E-DCH Logical Channel Information		1 <maxnoofl ogicalchanne ls&gt;</maxnoofl 			_	
>Logical Channel ID	М		9.2.1.97		_	
>Scheduling Priority Indicator	М		9.2.1.51A		_	
>Scheduling Information	Μ		9.2.1.101		-	
>MAC-es Guaranteed Bit Rate	0		9.2.1.98		-	
>E-DCH DDI Value	Μ		9.2.1.88	If more than 1 MAC-d PDU size is configured for this Logical Channel, the different sizes will use subsequent DDI values starting from this DDI value. Value "0x3F" is reserved. Shall be ignored if Maximum MAC-d PDU Size Extended IE is present.		
>MAC-d PDU Size List		1< maxnoofMA CdPDUSize			_	
>>MAC-d PDU Size	М		9.2.1.34A	Shall be ignored if <i>Maximum</i> <i>MAC-d PDU</i> <i>Size Extended</i> <i>IE</i> is present.	_	
>Maximum MAC-d PDU Size Extended	0		MAC PDU Size Extended 9.2.1.34D		YES	reject
>MAC-es Maximum Bit Rate LCR	0		9.2.3.59	1.28Mcps TDD only	YES	ignore
>UE Aggregate Maximum Bit Rate Enforcement Indicator	0		NULL		YES	ignore

Range Bound	Explanation
maxnooflogicalchannels	Maximum number of logical channels
maxnoofMACdPDUSize	Maximum number of MAC-d PDU size per Logical Channels

# 9.2.1.93 E-DCH Logical Channel To Modify

The E-DCH Logical Channel To Modify IE is used for the reconfiguration of E-DCH Logical Channels.

IE/Group Name	Presenc e	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
E-DCH Logical Channel Information		1 <maxnoofl ogicalchanne ls&gt;</maxnoofl 			_	
>Logical Channel ID	Μ		9.2.1.97		_	
>Scheduling Priority Indicator	0		9.2.1.51A		-	
>Scheduling Information	0		9.2.1.101		-	
>MAC-es Guaranteed Bit Rate	0		9.2.1.98		_	
>E-DCH DDI Value	0		9.2.1.88	If more than 1 MAC-d PDU size is configured for this Logical Channel, the different sizes will use subsequent DDI values starting from this DDI value. Value "0x3F" is reserved. Shall be ignored if Maximum MAC-d PDU Size Extended IE is present.		
>MAC-d PDU Size List		0< maxnoofMA CdPDUSize			_	
>>MAC-d PDU Size	М		9.2.1.34A		_	
>Maximum MAC-d PDU Size Extended	0		MAC PDU Size Extended 9.2.1.34D		YES	reject
>MAC-es Maximum Bit Rate LCR	0		9.2.3.59	1.28Mcps TDD only	YES	ignore

Range Bound	Explanation
maxnooflogicalchannels	Maximum number of logical channels
maxnoofMACdPDUSize	Maximum number of MAC-d PDU size per Logical Channels

## 9.2.1.94 E-RNTI

The E-RNTI IE is needed for the UE (or UE group) specific CRC in E-AGCH, see ref. TS 25.319 [52].

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
E-RNTI			INTEGER (065535)	

#### 9.2.1.95 E-DCH Processing Overload Level

The *E-DCH Processing Overload Level* IE defines the threshold that determines when DRNS shall indicate processing issue problems to the SRNC.

IE/Group Name	Presence	Range	IE type and reference	Semantics description
E-DCH Processing Overload Level			INTEGER (010,)	Number of consecutive TTIs. The value "0" is a special value, that means infinity, i.e. when this value is used, the DRNS shall never indicate processing issue to the RNC.

#### 9.2.1.96 E-DCH Power Offset for Scheduling Info

The E-DCH Power Offset for Scheduling Info is used to calculate the [FDD – E-DPDCH][TDD – E-PUCH] power for transmision of scheduling information without any MAC-d PDUs.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
E-DCH Power Offset for Scheduling Info			INTEGER (06)	Unit: dB Step: 1 dB

#### 9.2.1.97 Logical channel ID

The Logical Channel ID IE is used to identify a E-DCH logical channel in Scheduling Information that is sent over Uu.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Logical Channel ID		INTEGER (115)		

#### 9.2.1.98 MAC-es Guaranteed Bit Rate

The *MAC-es Guaranteed Bit Rate* IE indicates the guaranteed number of bits per second to be delivered over the air interface under normal operating conditions (provided there is data to deliver) for which the Node B shall provide sufficient UL resources. If the *MAC-es Guaranteed Bit Rate* IE is received with the value set to 0 during RL set up or modification, no guarantee is applied.

IE/Group	Name	Presence	Range	IE type and reference	Semantics description
MAC-es Guaran	teed Bit Rate			INTEGER	Unit: bit/s
				(02^24-1,,	
				2^24256,000,	
				000)	

#### 9.2.1.99 MAC-e Reset Indicator

Indicates the MAC-e (or MAC-i) Reset is performed in UE.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
MAC-e Reset Indicator			ENUMERAT ED (MAC-e Reset)	Means MAC-I Reset in case Maximum MAC-d PDU Size Extended is configured for an E-DCH Logical Channel.

#### 9.2.1.100 Maximum Number of Retransmissions for E-DCH

The *Maximum Number of Retransmissions for E-DCH* IE specifies the upper boundary for retransmissions for a single MAC-d flow.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Maximum Number of Retransmissions for E-DCH			INTEGER (015)	

#### 9.2.1.101 Scheduling Information

The *Scheduling Information* IE indicates whether the scheduling information is included for the E-DCH logical channel or not.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Scheduling Information			ENUMERAT ED ( Included,	
			Not Included)	

#### 9.2.1.102 DGANSS Corrections

This IE contains DGANSS corrections.

IE/Group name	Presence	Range	IE Type and Reference	Semantics description	Criticality	Assigned Criticality
DGANSS Reference Time	Μ		INTEGER(035 70 by step of 30)	Seconds. Time in GNSS system time (modulo 3600 s) when the DGANSS corrections were calculated	-	
DGANSS Information		1 to <maxsg nType&gt;</maxsg 			-	
>GANSS Signal ID	0		9.2.1.121		-	
>Status/Health	M		ENUMERATED (UDRE scale 1.0, UDRE scale 0.75, UDRE scale 0.5, UDRE scale 0.3, UDRE scale 0.2, UDRE scale 0.1, no data, invalid data)		-	
>DGANSS Signal Information	C- Status/He alth	1 to <maxg ANSSS at&gt;</maxg 		If the Cipher information is included these fields are ciphered	-	
>>Sat ID	М		INTEGER(063 )	Defined in TS 25.331 [16].	-	
>>IOD	М		BIT STRING(10)		-	

IE/Group name	Presence	Range	IE Type and Reference	Semantics description	Criticality	Assigned Criticality
>>UDRE	Μ		ENUMERATED (UDRE ≤ 1.0 m, 1.0m < UDRE ≤ 4.0m, 4.0m < UDRE ≤ 8.0m, 8.0m < UDRE)	The value in this field shall be multiplied by the UDRE Scale Factor in the IE Status/Health to determine the final UDRE estimate for the particular satellite.	-	
>>PRC	М		INTEGER(- 20472047)	Scaling factor 0.32 meters	-	
>>RRC	М		INTEGER(- 127127)	Scaling factor 0.032 meters/sec	-	
>>DGNSS Validity Period	0		9.2.1.138		YES	ignore

Condition	Explanation		
Status/Health	This IE shall be present if the Status/Health IE value		
	is not equal to "no data" or "invalid data".		

Range Bound	Explanation
maxGANSSSat	Maximum number of satellites for which data is included in the IE
maxSgnType	Maximum number of signals for which data is included in the IE

## 9.2.1.103 GANSS Almanac

This IE contains a reduced-precision subset of the ephemeris and clock correction parameters.

IE/Group name	Presence	Range	IE Type and Reference	Semantics description	Criticality	Assigned Criticality
Week Number	М		INTEGER(02 55)	Almanac reference week, number of weeks since the beginning of GANSS specific system time (mod 256)	_	
CHOICE Almanac Model	М			(	_	
>Keplerian Parameters				Model 1		
>>T <sub>oa</sub>	M		INTEGER(02 55)	Scaling factor 2 <sup>12</sup> s Reference time of almanac within week in GANSS TOD time base	-	
>>IOD <sub>a</sub>	М		INTEGER(03)	Issue-Of –Data, common to all satellites	_	
>>Satellite Information KP		1 to <maxga NSSSatA Imanac&gt;</maxga 		Almanacs are in the order of the SV IDs, the smallest ID first.	_	
>>>Sat ID	М		INTEGER(06 3)	Defined in TS 25.331 [16].	_	
>>>e	M		BIT STRING(11)	Eccentricity, dimensionless, see Galileo OS Signal in Space ICD (OS SIS ICD) [53]	_	
>>>ði	Μ		BIT STRING(11)	semi-circles , see Galileo OS Signal in Space ICD (OS SIS ICD) [53]	_	
>>>OMEGADOT	M		BIT STRING(11)	Longitude of Ascending Node of Orbit Plane at Weekly Epoch (semi- circles/sec) , see Galileo OS Signal in Space ICD (OS SIS ICD) [53]	_	
>>>SV Health KP	М		BIT STRING(4)	dimensionless	_	
>>>delta A <sup>1/2</sup>	М		BIT STRING(17)	Semi-Major Axis delta (meters) <sup>1/2</sup> , see Galileo OS Signal in Space ICD (OS SIS ICD) [53]	_	
>>>OMEGA0	Μ		BIT Longitude of STRING(16) Ascending Node of Orbit Plane at Weekly Epoch (semi-circles) , see Galileo OS Signal in Space ICD (OS SIS ICD) [53]		_	
>>>M0	М		BIT STRING(16)	Mean Anomaly at Reference Time (semi-circles) , see Galileo OS Signal in Space ICD (OS SIS ICD) [53]	_	
>>>@	М		BIT STRING(16)	Argument of Perigee (semi-circles), see	—	

	1		1			
				Galileo OS Signal in Space ICD (OS SIS ICD) [53]		
>>>af <sub>0</sub>	M		BIT STRING(14)	Seconds , see Galileo OS Signal in Space ICD (OS SIS ICD) [53]	-	
>>>af <sub>1</sub>	M		BIT STRING(11)	sec/sec , see Galileo OS Signal in Space ICD (OS SIS ICD) [53]	_	
>NAV Keplerian				Model 2		
Parameters >>Keplerian NAV Almanac	M				YES	ignore
>>>T <sub>oa</sub>	М		INTEGER(02 55)	Scaling factor 2 <sup>12</sup> s Reference time of almanac within week in GANSS TOD time base	-	
>>>Satellite information NAV-KP		1 <maxga NSSSatA Imanac&gt;</maxga 			_	
>>>Sat ID	M		INTEGER (063)	Defined in TS 25.331 [16].	-	
>>>e	M		BIT STRING(16)	Eccentricity, dimensionless (IS- QZSS [59])	_	
>>>>ði	M		BIT STRING (16)	Correction to – inclination, semi-circles (IS-QZSS [59])		
>>>OMEGADOT	M		BIT STRING (16)	Rate of right – ascension, semi-circles/sec (IS- QZSS [59])		
>>>SV Health	М		BIT STRING (8)	Satellite health (IS- QZSS [59])	-	
>>>>A <sup>1/2</sup>	M		BIT STRING (24)	Square root of the semi-major axis, meters <sup>1/2</sup> (IS-QZSS [59])	-	
>>>OMEGA0	M		BIT STRING (24)	Longitude of ascending node of orbit plane at weekly epoch, semi-circles (IS-QZSS [59])	-	
>>>0	М		BIT STRING (24)	Argument of perigee semi-circles (IS-QZSS [59])	_	
>>>>M0	M		BIT STRING (24)	Mean anomaly at – reference time semi-circles (IS-QZSS [59])		
>>>af <sub>0</sub>	M		BIT STRING (11)	Apparent satellite clock correction seconds (IS-QZSS [59])	_	
>>>af <sub>1</sub>	M		BIT STRING (11)	Apparent satellite clock correction sec/sec (IS-QZSS [59])	_	
>Reduced Keplerian				Model 3		
Parameters >>Keplerian Reduced	M				YES	ignore
Almanac						

T	M			Sooling factor 0 <sup>12</sup> -		
>>>T <sub>oa</sub>	м		INTEGER(02 55)	Scaling factor 2 <sup>12</sup> s Reference time of almanac within week in GANSS TOD time base		
>>>Satellite information RED-KP		1 <maxga NSSSatA Imanac&gt;</maxga 			_	
>>>Sat ID	М		INTEGER (063)	Defined in TS 25.331 [16].	_	
>>>>ð <sub>A</sub>	M		BIT STRING(8)	meters (IS-GPS-200 [55], IS-GPS-705 [56], IS-GPS-800 [57], IS- QZSS [59])	_	
$>>> \Omega_0$	M		BIT STRING (7)	semi-circles (IS-GPS- 200 [55], IS-GPS-705 [56], IS-GPS-800 [57], IS-QZSS [59])	_	
>>>>Φ <sub>0</sub>	M		BIT STRING (7)	semi-circles (IS-GPS- 200 [55], IS-GPS-705 [56], IS-GPS-800 [57], IS-QZSS [59])	_	
>>>>L1 Health	М		BIT STRING (1)	dimensionless (IS- GPS-200 [55], IS- GPS-705 [56], IS- GPS-800 [57], IS- QZSS [59])	_	
>>>>L2 Health	М		BIT STRING (1)	dimensionless (IS- GPS-200 [55], IS- GPS-705 [56], IS- GPS-800 [57], IS- QZSS [59])	_	
>>>L5 Health	M		BIT STRING (1)	dimensionless (IS- GPS-200 [55], IS- GPS-705 [56], IS- GPS-800 [57], IS- QZSS [59])	_	
>Midi Keplerian Parameters				Model 4		
>> Keplerian Midi Almanac	М				YES	ignore
>>>T <sub>oa</sub>	М		INTEGER(02 55)	Scaling factor 2 <sup>12</sup> s Reference time of almanac within week in GANSS TOD time base	_	
>>>Satellite information MIDI-KP		1 <maxga NSSSatA Imanac&gt;</maxga 			_	
>>>Sat ID	М		INTEGER (063)	Defined in TS 25.331 [16].	_	
>>>e	М		BIT STRING(11)	dimensionless (IS- GPS-200 [55] , IS- GPS-705 [56], IS- GPS-800 [57], IS- QZSS [59])	_	
>>>>ð <sub>i</sub>	M		BIT STRING (11)	semi-circles (IS-GPS- 200 [55], IS-GPS-705 [56], IS-GPS-800 [57], IS-QZSS [59])	_	
>>>Ω_dot	M		BIT STRING (11)	semi-circles/sec (IS- GPS-200 [55], IS- GPS-705 [56], IS- GPS-800 [57], IS- QZSS [59])	_	
>>>sqrtA	М		BIT STRING	meters <sup>1/2</sup> (IS-GPS-200	-	

			(17)	[55], IS-GPS-705 [56], IS-GPS-800 [57], IS- QZSS [59])		
>>> $\Omega_0$	M		BIT STRING (16)	semi-circles (IS-GPS- 200 [55], IS-GPS-705 [56], IS-GPS-800 [57], IS-QZSS [59])	_	
>>>>0	M		BIT STRING (16)	semi-circles (IS-GPS- 200 [55], IS-GPS-705 [56], IS-GPS-800 [57], IS-QZSS [59])	_	
$>>>>M_0$	M		BIT STRING (16)	semi-circles (IS-GPS- 200 [55], IS-GPS-705 [56], IS-GPS-800 [57], IS-QZSS [59])	-	
>>>>a <sub>fo</sub>	M		BIT STRING (11)	seconds (IS-GPS-200 [55], IS-GPS-705 [56], IS-GPS-800 [57], IS- QZSS [59])	_	
>>>a <sub>f1</sub>	M		BIT STRING (10)	sec/sec (IS-GPS-200 [55], IS-GPS-705 [56], IS-GPS-800 [57], IS- QZSS [59])	-	
>>>L1 Health	M		BIT STRING (1)	Dimensionless (IS- GPS-200 [55], IS- GPS-705 [56], IS- GPS-800 [57], IS- QZSS [59])	_	
>>>L2 Health	M		BIT STRING (1)	dimensionless (IS- GPS-200 [55], IS- GPS-705 [56], IS- GPS-800 [57], IS- QZSS [59])	dimensionless (IS	
>>>L5 Health	M		BIT STRING (1)	dimensionless (IS- GPS-200 [55], IS- GPS-705 [56], IS- GPS-800 [57], IS- QZSS [59])	-	
>GLONASS Keplerian Parameters				Model 5		
>> Keplerian GLONASS	M				YES	ignore
>>>Satellite information GLO-KP		1 <maxga NSSSatA Imanac&gt;</maxga 			-	ignore
>>>>N <sup>A</sup>	М		BIT STRING(11)	days [60]	_	
>>>>n <sup>A</sup>	М		BIT STRING (5)	dimensionless [60]	_	
>>>>Hn <sup>A</sup>	М		BIT STRING (5)	dimensionless [60]	_	
$>>>\lambda_n^A$	М		BIT STRING (21)	semi-circles [60]	-	
$>>>t_{\lambda n}^{A}$	М		BIT STRING (21)	seconds [60]	_	
>>>>∆i <sub>n</sub> <sup>A</sup>	М		BIT STRING (18)	semi-circles [60]	-	
>>>>∆T <sub>n</sub> <sup>A</sup>	М		BIT STRING (22)	sec/orbit period [60]	_	
>>>\DT_DOT <sub>n</sub> <sup>A</sup>	М		BIT STRING (7)	sec/orbit period <sup>2</sup> [60]	-	
>>>>&n <sup>A</sup>	М		BIT STRING (15)	dimensionless [60]	-	
>>>>@ <sup>A</sup>	М		BIT STRING (16)	semi-circles [60]	_	
$>>>\tau_n^A$	М		BIT STRING (10)	seconds [60]	_	

>>>>	М		BIT STRING (1)	dimensionless [60]	_	
>>>>Mn <sup>A</sup>	0		BIT STRING (2)	dimensionless [60]	_	
>SBAS ECEF Parameters				Model 6		
>> ECEF SBAS Almanac	М				YES	ignore
>>>Satellite information SBAS- ECEF		1 <maxga NSSSatA Imanac&gt;</maxga 			-	
>>>Data ID	М		BIT STRING(2)	Dimensionless (DTFA01-96-C-00025 [58])	-	
>>>SV ID	М		INTEGER (063)	Defined in TS 25.331 [16].	_	
>>>>Health	М		BIT STRING (8)	Dimensionless (DTFA01-96-C-00025 [58])	_	
>>>>X <sub>G</sub>	М		BIT STRING (15)	meters (DTFA01-96- C-00025 [58])	_	
>>>>Y <sub>G</sub>	М		BIT STRING (15)	meters (DTFA01-96- C-00025 [58])	_	
>>>>Z <sub>G</sub>	М		BIT STRING (9)	meters (DTFÃ01-96- C-00025 [58])	_	
>>>X <sub>G</sub> Rate-of- Change	М		BIT STRING (3)	meters/sec (DTFA01- 96-C-00025 [58])	_	
>>>>Y <sub>G</sub> Rate-of- Change	М		BIT STRING (3)	meters/sec (DTFA01- 96-C-00025 [58])	_	
>>>Z <sub>G</sub> Rate-of- Change	М		BIT STRING (4)	meters/sec (DTFA01- 96-C-00025 [58])	_	
>>>t <sub>0</sub>	М		BIT STRING (11)	seconds (DTFA01-96- C-00025 [58])	-	

Range Bound	Explanation
maxGANSSSatAlmanac	Maximum number of satellites for which data is included in the IE

# 9.2.1.104 GANSS Clock Model

The IE contains fields needed to model the GANSS clock parameters.

IE/Group name	Presence	Range	IE Type and Reference	Semantics description
Satellite Clock Model		1 to <maxgan SSClockM od&gt;</maxgan 		Model -1 There may be more than one clock model included if defined in SIS ICD (e.g. two for Galileo)
>t <sub>oc</sub>	М		BIT STRING(14)	defined in Galileo OS Signal in Space ICD (OS SIS ICD) [53]
>a <sub>i2</sub>	М		BIT STRING(12)	defined in Galileo OS Signal in Space ICD (OS SIS ICD) [53]
>a <sub>i1</sub>	М		BIT STRING(18)	defined in Galileo OS Signal in Space ICD (OS SIS ICD) [53]
>a <sub>i0</sub>	М		BIT STRING(28)	defined in Galileo OS Signal in Space ICD (OS SIS ICD) [53]
>T <sub>GD</sub>	0		BIT STRING(10)	defined in Galileo OS Signal in Space ICD (OS SIS ICD) [53]
>Model ID	0		INTEGER(0. .1)	Coded as defined in TS 25.331 [16].

Range bound	Explanation
maxGANSSClockMod	Maximum number of satellite clock models for which data is included in the IE.

#### 9.2.1.104a GANSS Additional Clock Models

The IE contains fields needed to model the GANSS clock parameters.

IE/Group name Pre	sence Range	IE Type and Reference	Semantics description
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IE/Group name	Presence	Range	IE Type and Reference	Semantics description
CHOICE Additional Clock Models				
>NAV-Clock Model				Model-2
>>t <sub>oc</sub>	М		BIT	Time of clock
			STRING(16)	(seconds) (IS-QZSS [59])
>>af <sub>2</sub>	М		BIT STRING	Clock correction polynomial
			(8)	coefficient
			(0)	(sec/sec <sup>2</sup> ) (IS-QZSS [59])
>>af <sub>1</sub>	М		BIT STRING	Clock correction polynomial
			(16)	coefficient
			( - )	(sec/sec) (IS-QZSS [59])
$>>af_0$	М		BIT STRING	Clock correction polynomial
			(22)	coefficient
			(/	(seconds) (IS-QZSS [59])
>>T <sub>GD</sub>	М		BIT STRING	Group delay
			(8)	(seconds) (IS-QZSS [59])
>CNAV/CNAV-2 Clock Model			(0)	Model-3
>>t <sub>oc</sub>	М		BIT STRING	Clock data reference time of
	IVI		(11)	week
			(11)	(seconds) (IS-GPS-200 [55],
				IS-GPS-705 [56], IS-GPS-800
>>t <sub>op</sub>	N.4		BIT STRING	[57], IS-QZSS [59])
33Cop	М			Clock data predict time of
			(11)	week
				(seconds) (IS-GPS-200 [55],
				IS-GPS-705 [56], IS-GPS-800
SIDA Index	N.4			[57], IS-QZSS [59])
>>URA <sub>oc</sub> Index	М		BIT STRING	SV clock accuracy index
			(5)	(dimensionless) (IS-GPS-200
				[55], IS-GPS-705 [56], IS-
				GPS-800 [57], IS-QZSS [59])
>>URA <sub>oc1</sub> Index	М		BIT STRING	SV clock accuracy change
			(3)	index
				(dimensionless) (IS-GPS-200
				[55], IS-GPS-705 [56], IS-
LIDA Inder	N.4			GPS-800 [57], IS-QZSS [59])
>>URA <sub>oc2</sub> Index	М		BIT STRING	SV clock accuracy change rate
			(3)	index
				(dimensionless) (IS-GPS-200
				[55], IS-GPS-705 [56], IS-
	N4			GPS-800 [57], IS-QZSS [59])
>>a <sub>f2-n</sub>	М		BIT STRING	SV clock drift rate correction
			(10)	
				(sec/sec <sup>2</sup> ) (IS-GPS-200 [55],
				IS-GPS-705 [56], IS-GPS-800
				[57], IS-QZSS [59])
>>a <sub>f1-n</sub>	М		BIT STRING	SV clock drift correction
			(20)	
				(sec/sec) (IS-GPS-200 [55],
				IS-GPS-705 [56], IS-GPS-800
	+			[57], IS-QZSS [59])
>>a <sub>f0-n</sub>	М		BIT STRING	SV clock bias correction
			(26)	coefficient
				(seconds) (IS-GPS-200 [55],
				IS-GPS-705 [56], IS-GPS-800
	+			[57], IS-QZSS [59])
>>T <sub>GD</sub>	М		BIT STRING	Group delay correction
			(13)	(seconds) (IS-GPS-200 [55],
				IS-GPS-705 [56], IS-GPS-800
100				[57], IS-QZSS [59])
>>ISC <sub>L1CP</sub>	0		BIT STRING	Inter signal group delay
			(13)	correction
				(seconds) (IS-GPS-800 [57],
				IS-QZSS [59])
>>ISC <sub>L1CD</sub>	0		BIT STRING	Inter signal group delay
			(13)	correction

IE/Group name	Presence	Range	IE Type and Reference	Semantics description
				(seconds) (IS-GPS-800 [57], IS-QZSS [59])
>>ISC <sub>L1C/A</sub>	0		BIT STRING (13)	Inter signal group delay correction (seconds) (IS-GPS-200 [55], IS-GPS-705 [56], IS-QZSS [59])
>>ISC <sub>L2C</sub>	0		BIT STRING (13)	Inter signal group delay correction (seconds) (IS-GPS-200 [55], IS-GPS-705 [56], IS-QZSS [59])
>>ISC <sub>L515</sub>	0		BIT STRING (13)	Inter signal group delay correction (seconds) (IS-GPS-705 [56], IS-QZSS [59])
>>ISCL5Q5	0		BIT STRING (13)	Inter signal group delay correction (seconds) (IS-GPS-705 [56], IS-QZSS [59])
>GLONASS Satellite Clock Model				Model-4
$>\tau_n(t_b)$	М		BIT STRING (22)	Satellite clock offset (seconds) [60]
>γn(t <sub>b</sub> )	М		BIT STRING (11)	Relative frequency offset from nominal value (dimensionless) [60]
$>\Delta \tau_n$	0		BIT STRING (5)	Time difference between transmission in G2 and G1 (seconds) [60]
>SBAS Satellite Clock Model				Model-5
>t <sub>0</sub>	М		BIT STRING (13)	(seconds) (DTFA01-96-C- 00025 [58])
>a <sub>Gfo</sub>	М		BIT STRING (12)	(seconds) (DTFA01-96-C- 00025 [58])
>a <sub>Gf1</sub>	М		BIT STRING (8)	(sec/sec) (DTFA01-96-C- 00025 [58])

## 9.2.1.105 GANSS Ionospheric Model

The IE contains fields needed to model the propagation delays of the GANSS signals through the ionosphere.

IE/Group name	Presence	Range	IE Type and Reference	Semantics description
a <sub>i0</sub>	М		BIT STRING(12)	This parameter is used as defined in Galileo OS Signal in Space ICD (OS SIS ICD) [53]
a <sub>i1</sub>	M		BIT STRING(12)	This parameter is used as defined in Galileo OS Signal in Space ICD (OS SIS ICD) [53]
a <sub>i2</sub>	М		BIT STRING(12)	This parameter is used as defined in Galileo OS Signal in Space ICD (OS SIS ICD) [53]
GANSS Ionosphere Regional Storm Flags		01		
>Storm Flag 1	M		BOOLEAN	This parameter is used as defined in Galileo OS Signal in Space ICD (OS SIS ICD) [53]
>Storm Flag 2	M		BOOLEAN	This parameter is used as defined in Galileo OS Signal in Space ICD (OS SIS ICD) [53]
>Storm Flag 3	M		BOOLEAN	This parameter is used as defined in Galileo OS Signal in Space ICD (OS SIS ICD) [53]
>Storm Flag 4	M		BOOLEAN	This parameter is used as defined in Galileo OS Signal in Space ICD (OS SIS ICD) [53]
>Storm Flag 5	М		BOOLEAN	This parameter is used as defined in Galileo OS Signal in Space ICD (OS SIS ICD) [53]

#### 9.2.1.105a GANSS Additional Ionospheric Model

The IE contains fields needed to model the propagation delays of the GANSS signals through the ionosphere.

IE/Group name	Presence	Range	IE Type and Reference	Semantics description
Data ID	М		BIT STRING(2)	Coded as defined in TS 25.331 [16]
α <sub>0</sub>	Μ		BIT STRING (8)	seconds (IS-QZSS [59])
α <sub>1</sub>	Μ		BIT STRING (8)	sec/semi-circle (IS-QZSS [59])
α <sub>2</sub>	Μ		BIT STRING (8)	sec/(semi-circle) <sup>2</sup> (IS-QZSS [59])
α <sub>3</sub>	Μ		BIT STRING (8)	sec/(semi-circle) <sup>3</sup> (IS-QZSS [59])
βο	М		BIT STRING (8)	seconds (IS-QZSS [59])
β <sub>1</sub>	М		BIT STRING (8)	sec/semi-circle (IS-QZSS [59])
β2	М		BIT STRING (8)	sec/(semi-circle) <sup>2</sup> (IS-QZSS [59])
β <sub>3</sub>	Μ		BIT STRING (8)	sec/(semi-circle) <sup>3</sup> (IS-QZSS [59])

## 9.2.1.106 GANSS Navigation Model

Void.

# 9.2.1.107 GANSS Orbit Model

This IE contains information for GANSS orbit model parameters.

IE/Group name	Presence	Range	IE Type and Reference	Semantics description
CHOICE Orbit Model	М			
>Keplerian Parameters				Model-1
>>t <sub>oe</sub>	М		BIT STRING(14)	Time-of-Ephemeris in seconds, scale factor 60, see Galileo OS Signal in Space ICD (OS SIS ICD) [53]
>>0	М		BIT STRING(32)	Argument of Perigee (semi- circles), see Galileo OS Signal in Space ICD (OS SIS ICD) [53]
>>∆n	М		BIT STRING(16)	Mean Motion Difference From Computed Value (semi- circles/sec), see Galileo OS Signal in Space ICD (OS SIS ICD) [53]
>>M0	М		BIT STRING(32)	Mean Anomaly at Reference Time (semi-circles), see Galileo OS Signal in Space ICD (OS SIS ICD) [53]
>>OMEGAdot	М		BIT STRING(24)	Longitude of Ascending Node of Orbit Plane at Weekly Epoch (semi-circles/sec), see Galileo OS Signal in Space ICD (OS SIS ICD) [53]
>>e	М		BIT STRING(32)	Eccentricity, scale factor 2 <sup>-33</sup> , see Galileo OS Signal in Space ICD (OS SIS ICD) [53]
>>ldot	М		BIT STRING(14)	Rate of Inclination Angle (semi-circles/sec), see Galileo OS Signal in Space ICD (OS SIS ICD) [53]
>>sqrtA	М		BIT STRING(32)	Least significant bits of Semi- Major Axis in (meters) <sup>1/2</sup> , scale factor 2 <sup>-19</sup> , see Galileo OS Signal in Space ICD (OS SIS ICD) [53]
>>i0	М		BIT STRING (32)	Inclination Angle at Reference Time (semi-circles), see Galileo OS Signal in Space ICD (OS SIS ICD) [53]
>>OMEGA <sub>0</sub>	М		BIT STRING(32)	Longitude of Ascending Node of Orbit Plane at Weekly Epoch (semi-circles), see Galileo OS Signal in Space ICD (OS SIS ICD) [53]
>>C <sub>rs</sub>	М		BIT STRING(16)	Amplitude of the Sine Harmonic Correction Term to the Orbit Radius (meters), see Galileo OS Signal in Space ICD (OS SIS ICD) [53]
>>C <sub>is</sub>	М		BIT STRING(16)	Amplitude of the Sine Harmonic Correction Term To The Angle Of Inclination (radians), see Galileo OS Signal in Space ICD (OS SIS ICD) [53]

IE/Group name	Presence	Range	IE Type and Reference	Semantics description
>>C <sub>us</sub>	М		BIT STRING(16)	Amplitude of the Sine Harmonic Correction Term To The Argument Of Latitude (radians), see Galileo OS Signal in Space ICD (OS SIS ICD) [53]
>>C <sub>rc</sub>	М		BIT STRING(16)	Amplitude of the Cosine Harmonic Correction Term to the Orbit Radius (meters), see Galileo OS Signal in Space ICD (OS SIS ICD) [53]
>>C <sub>ic</sub>	Μ		BIT STRING(16)	Amplitude of the Cosine Harmonic Correction Term To The Angle Of Inclination (radians), see Galileo OS Signal in Space ICD (OS SIS ICD) [53]
>>C <sub>uc</sub>	М		BIT STRING(16)	Amplitude of the Cosine Harmonic Correction Term To The Argument Of Latitude (radians), see Galileo OS Signal in Space ICD (OS SIS ICD) [53]

# 9.2.1.107a GANSS Additional Orbit Models

This IE contains information for GANSS orbit model parameters.

IE/Group name	Presence	Range	IE Type and Reference	Semantics description
CHOICE Additional Orbit Models				
>NAV-Keplerian Parameters				Model-2
>>URA Index	Μ		BIT STRING(4)	SV accuracy (dimensionless) (IS-QZSS [59])
>>Fit Interval Flag	Μ		BIT STRING (1)	Fit interval indication (dimensionless) (IS-QZSS [59])
>>t <sub>oe</sub>	М		BIT STRING(16)	Time of ephemeris (seconds) (IS-QZSS [59])
>>0	М		BIT STRING (32)	Argument of perigee (semi-circles) (IS-QZSS [59])
>>∆n	М		BIT STRING (16)	Mean motion difference from computed value (semi-circles/sec) (IS-QZSS [59])
>>M <sub>0</sub>	Μ		BIT STRING (32)	Mean anomaly at reference time (semi-circles) (IS-QZSS [59])
>>OMEGAdot	Μ		BIT STRING (24)	Rate of right ascension (semi-circles/sec) (IS-QZSS [59])
>>e	Μ		BIT STRING (32)	Eccentricity (dimensionless) (IS-QZSS [59])
>>ldot	Μ		BIT STRING (14)	Rate of inclination angle (semi-circles/sec) (IS-QZSS [59])
>>sqrtA	М		BIT STRING (32)	Square root of semi-major axis (meters <sup>1/2</sup> ) (IS-QZSS [59])
>>i <sub>0</sub>	М		BIT STRING (32)	Inclination angle at reference time (semi-circles) (IS-QZSS [59])

IE/Group name	Presence	Range	IE Type and Reference	Semantics description
>>OMEGA <sub>0</sub>	М		BIT STRING (32)	Longitude of ascending node of orbit plane at weekly epoch (semi-circles) (IS-QZSS [59])
>>Crs	М		BIT STRING (16)	Amplitude of sine harmonic correction term to the orbit radius (meters) (IS-QZSS [59])
>>C <sub>is</sub>	М		BIT STRING (16)	Amplitude of sine harmonic correction term to the angle of inclination (radians) (IS-QZSS [59])
>>C <sub>us</sub>	М		BIT STRING (16)	Amplitude of sine harmonic correction term to the argument of latitude (radians) (IS-QZSS [59])
>>Crc	М		BIT STRING (16)	Amplitude of cosine harmonic correction term to the orbit radius (meters) (IS-QZSS [59])
>>C <sub>ic</sub>	М		BIT STRING (16)	Amplitude of cosine harmonic correction term to the angle of inclination (radians) (IS-QZSS [59])
>>C <sub>uc</sub>	М		BIT STRING (16)	Amplitude of cosine harmonic correction term to the argument of latitude (radians) (IS-QZSS [59])

IE/Group name	Presence	Range	IE Type and Reference	Semantics description
>CNAV/CNAV-2 Keplerian Parameters				Model-3
>>t <sub>op</sub>	М		BIT STRING (11)	Data predict time of week (seconds) (IS-GPS-200 [55], IS-GPS-705 [56], IS-GPS-800 [57], IS-QZSS [59])
>>URA <sub>oe</sub> Index	М		BIT STRING (5)	SV accuracy (dimensionless) (IS-GPS-200 [55], IS-GPS-705 [56], IS- GPS-800 [57], IS-QZSS [59])
>>∆A	М		BIT STRING (26)	Semi-major axis difference at reference time (meters) (IS-GPS-200 [55], IS- GPS-705 [56], IS-GPS-800 [57], IS-QZSS [59])
>>A_dot	М		BIT STRING (25)	Chane rate in semi-major axis (meters/sec) (IS-GPS-200 [55], IS-GPS-705 [56], IS- GPS-800 [57], IS-QZSS [59])
>>∆n <sub>0</sub>	М		BIT STRING (17)	Mean motion difference from computed value at reference time (semi-circles/sec) (IS-GPS- 200 [55], IS-GPS-705 [56], IS- GPS-800 [57], IS-QZSS [59])
>>∆n <sub>0</sub> _dot	М		BIT STRING (23)	Rate of mean motion difference from computed value (semi-circles/sec <sup>2</sup> ) (IS-GPS- 200 [55], IS-GPS-705 [56], IS- GPS-800 [57], IS-QZSS [59])
>>M <sub>0-n</sub>	M		Bit String(33)	Mean anomaly at reference time (semi-circles) (IS-GPS-200 [55], IS-GPS-705 [56], IS- GPS-800 [57], IS-QZSS [59])
>>en	М		BIT STRING (33)	Eccentricity (dimensionless) (IS-GPS-200 [55], IS-GPS-705 [56], IS- GPS-800 [57], IS-QZSS [59])
>>00n	М		Bit String(33)	Argument of perigee (semi-circles) (IS-GPS-200 [55], IS-GPS-705 [56], IS- GPS-800 [57], IS-QZSS [59])
>>Ω <sub>0-n</sub>	М		BIT STRING (33)	Reference right ascension angle (semi-circles) (IS-GPS-200 [55], IS-GPS-705 [56], IS- GPS-800 [57], IS-QZSS [59])
>>∆Ω_dot	М		BIT STRING (17)	Rate of right ascension difference (semi-circles/sec) (IS-GPS- 200 [55], IS-GPS-705 [56], IS- GPS-800 [57], IS-QZSS [59])
>>i <sub>o-n</sub>	М		BIT STRING (33)	Inclination angle at reference time (semi-circles) (IS-GPS-200 [55], IS-GPS-705 [56], IS- GPS-800 [57], IS-QZSS [59])
>>I <sub>0-n</sub> _dot	М		BIT STRING (15)	Rate of inclination angle (semi-circles/sec) (IS-GPS- 200 [55], IS-GPS-705 [56], IS- GPS-800 [57], IS-QZSS [59])

IE/Group name	Presence	Range	IE Type and Reference	Semantics description
>>C <sub>is-n</sub>	М		BIT STRING (16)	Amplitude of sine harmonic correction term to the angle of inclination (radians) (IS-GPS-200 [55], IS- GPS-705 [56], IS-GPS-800 [57], IS-QZSS [59])
>>C <sub>ic-n</sub>	М		BIT STRING (16)	Amplitude of cosine harmonic correction term to the angle of inclination (radians) (IS-GPS-200 [55], IS- GPS-705 [56], IS-GPS-800 [57], IS-QZSS [59])
>>C <sub>rs-n</sub>	М		BIT STRING (24)	Amplitude of sine harmonic correction term to the orbit radius (meters) (IS-GPS-200 [55], IS- GPS-705 [56], IS-GPS-800 [57], IS-QZSS [59])
>>Crc-n	М		BIT STRING (24)	Amplitude of cosine harmonic correction term to the orbit radius (meters) (IS-GPS-200 [55], IS- GPS-705 [56], IS-GPS-800 [57], IS-QZSS [59])
>>C <sub>us-n</sub>	М		BIT STRING (21)	Amplitude of sine harmonic correction term to the argument of latitude (radians) (IS-GPS-200 [55], IS- GPS-705 [56], IS-GPS-800 [57], IS-QZSS [59])
>>C <sub>uc-n</sub>	M		BIT STRING (21)	Amplitude of cosine harmonic correction term to the argument of latitude (radians) (IS-GPS-200 [55], IS- GPS-705 [56], IS-GPS-800 [57], IS-QZSS [59])
>GLONASS Earth-Centered, Earth-fixed Parameters				Model-4
>>En	М		BIT STRING (5)	Age of data (days) [60]
>>P1	Μ		BIT STRING (2)	Time interval between two adjacent values of t <sub>b</sub> (minutes) [60]
>>P2	М		BIT STRING (1)	Change of t <sub>b</sub> flag (dimensionless) [60]
>>M	0		BIT STRING (2)	Type of satellite (dimensionless) [60]
$>> x_n(t_b)$	Μ		BIT STRING (27)	x-coordinate of satellite at time $t_b$ (kilometers) [60]
$>> \dot{x}_n(t_b)$	M		BIT STRING (24)	x-coordinate of satellite velocity at time t <sub>b</sub> (kilometers/sec) [60]
$>> \ddot{x}_n(t_b)$	M		BIT STRING (5)	x-coordinate of satellite acceleration at time $t_b$ (kilometers/sec <sup>2</sup> ) [60]
$>> y_n(t_b)$	M		BIT STRING (27)	y-coordinate of satellite at time t <sub>b</sub> (kilometers) [60]
$>> \dot{y}_n(t_b)$	М		BIT STRING (24)	y-coordinate of satellite velocity at time $t_b$ (kilometers/sec) [60]
$>> \ddot{y}_n(t_b)$	М		BIT STRING (5)	y-coordinate of satellite acceleration at time $t_b$ (kilometers/sec <sup>2</sup> ) [60]

IE/Group name	Presence	Range	IE Type and Reference	Semantics description
$>> z_n(t_b)$	М		BIT STRING (27)	z-coordinate of satellite at time t <sub>b</sub> (kilometers) [60]
$>> \dot{z}_n(t_b)$	М		BIT STRING (24)	z-coordinate of satellite velocity at time $t_b$ (kilometers/sec) [60]
$>> \ddot{z}_n(t_b)$	Μ		BIT STRING (5)	z-coordinate of satellite acceleration at time $t_b$ (kilometers/sec <sup>2</sup> ) [60]
>SBAS Earth-Centered, Earth- fixed Parameters				Model-5
>>t <sub>0</sub>	C-ClockMo del		BIT STRING (13)	Time of applicability (seconds) (DTFA01-96-C- 00025 [58])
>>Accuracy	М		BIT STRING (4)	(dimensionless) (DTFA01-96- C-00025 [58])
>>X <sub>G</sub>	М		BIT STRING (30)	(meters) (DTFA01-96-C-00025 [58])
>>Y <sub>G</sub>	М		BIT STRING (30)	(meters) (DTFA01-96-C-00025 [58])
>>Z <sub>G</sub>	М		BIT STRING (25)	(meters) (DTFA01-96-C-00025 [58])
>>X <sub>G</sub> Rate-of-Change	М		BIT STRING (17)	(meters/sec) (DTFA01-96-C- 00025 [58])
>>Y <sub>G</sub> Rate-of-Change	М		BIT STRING (17)	(meters/sec) (DTFA01-96-C- 00025 [58])
>>Z <sub>G</sub> Rate-of-Change	М		BIT STRING (18)	(meters/sec) (DTFA01-96-C- 00025 [58])
>>X <sub>G</sub> Acceleration	М		BIT STRING (10)	(meters/sec <sup>2</sup> ) (DTFA01-96-C- 00025 [58])
>>Y <sub>G</sub> Acceleration	М		BIT STRING (10)	meters/sec <sup>2</sup> ) (DTFA01-96-C- 00025 [58])
>>Z <sub>G</sub> Acceleration	М		BIT STRING (10)	meters/sec <sup>2</sup> ) (DTFA01-96-C- 00025 [58])

Condition	Explanation
ClockModel	This IE shall be present if "SBAS Earth-Centered, Earth-fixed Parameters" (Model-5) in IE GANSS Additional Clock Models is not included in GANSS Additional Navigation Models IE.

## 9.2.1.108 GANSS Real Time Integrity

This IE contains parameters that describe the real-time status of the GANSS constellation.

IE/Group name	Presence	Range	IE Type and Reference	Semantics description
Satellite Information		1 to <maxgan SSSat&gt;</maxgan 		
>Bad GANSS Sat ID	Μ		INTEGER(0. .63)	Defined in TS 25.331 [16].
>Bad GANSS Signal ID	0		BIT STRING(8)	Coded as defined in TS 25.331 [16].

Range Bound	Explanation
maxGANSSSat	Maximum number of satellites for which data is included in the IE

## 9.2.1.109 GANSS Receiver Geographical Position (GANSS RX Pos)

The *GANSS Receiver Geographical Position* IE is used to identify the geographical coordinates of a GANSS receiver relevant for a certain Information Exchange Object.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Latitude Sign	М		ENUMERATED( North, South)	
Degrees of Latitude	М		INTEGER (02 <sup>31</sup> -1)	The IE value (N) is derived by this formula: $N \le 2^{31} X / 90 < N+1$ X being the latitude in degree $(0^{\circ}90^{\circ})$
Degrees of Longitude	М		INTEGER (-2 <sup>31</sup> 2 <sup>31</sup> -1)	The IE value (N) is derived by this formula: $N \le 2^{32} X / 360 < N+1$ X being the longitude in degree (-180°+180°)
Direction of Altitude	М		ENUMERATED( Height, Depth)	
Altitude	Μ		INTEGER (02 <sup>15</sup> -1)	The relation between the value (N) and the altitude (a) in meters it describes is $N \le a < N+1$ , except for $N=2^{15}-1$ for which the range is extended to include all greater values of (a).

## 9.2.1.110 GANSS Time Model

The *GANSS Time Model* IE contains a set of parameters needed to relate GANSS time to selected time reference indicated by GNSS\_TO\_ID.

IE/Group name	Presence	Range	IE Type and Reference	Semantics description
GANSS Time Model Reference Time	Μ		INTEGER(0. .37799)	GANSS reference time (modulo 1 week) in seconds. The scale factor is 2 <sup>4</sup>
T <sub>A0</sub>	М		INTEGER(- 2147483648. .2147483647 )	Seconds, scale factor 2 <sup>-35</sup>
T <sub>A1</sub>	0		INTEGER (- 838860883 88607)	sec/sec, scale factor 2 <sup>-51</sup>
T <sub>A2</sub>	0		INTEGER (- 6463)	sec/sec <sup>2</sup> , scale factor 2 <sup>-68</sup>
GNSS_TO_ID	M		ENUMERAT ED(GPS,, Galileo, QZSS, GLONASS)	
Week Number	0		INTEGER(0. .8191)	Reference week of GANSS Time Model

## 9.2.1.110a GANSS Additional Time Models

The GANSS Additional Time Models IE contains a set of parameters needed to relate GANSS time to selected time references.

IE/Group name	Presence	Range	IE Type and Reference	Semantics description
GNSS-GNSS Time Model		1 <maxga NSS-1&gt;</maxga 		
>GANSS Time Model			9.2.1.110	

Range Bound	Explanation
maxGANSS-1	Maximum number of GANSS systems for which data is included in this IE.
maxGANSS-1	I Maximum number of GAN33 systems for which data is included in th

#### 9.2.1.111 GANSS UTC Model

The GANSS UTC Model IE contains a set of parameters needed to relate GANSS time to Universal Time Coordinate (UTC).

IE/Group name	Presence	Range	IE Type and Reference	Semantics description
A <sub>1</sub>	М		BIT STRING(24)	sec/sec , see Galileo OS Signal in Space ICD (OS SIS ICD) [53]
A <sub>0</sub>	Μ		BIT STRING(32)	seconds , see Galileo OS Signal in Space ICD (OS SIS ICD) [53]
t <sub>ot</sub>	Μ		BIT STRING(8)	seconds , see Galileo OS Signal in Space ICD (OS SIS ICD) [53]
WNt	Μ		BIT STRING(8)	weeks , see Galileo OS Signal in Space ICD (OS SIS ICD) [53]
$\Delta t_{LS}$	Μ		BIT STRING(8)	seconds , see Galileo OS Signal in Space ICD (OS SIS ICD) [53]
WN <sub>LSF</sub>	M		BIT STRING(8)	weeks , see Galileo OS Signal in Space ICD (OS SIS ICD) [53]
DN	Μ		BIT STRING(8)	days , see Galileo OS Signal in Space ICD (OS SIS ICD) [53]
$\Delta t_{LSF}$	М		BIT STRING(8)	seconds , see Galileo OS Signal in Space ICD (OS SIS ICD) [53]

#### 9.2.1.111a GANSS Additional UTC Models

The *GANSS Additional UTC Models* IE contains several sets of parameters needed to relate GANSS time to Universal Time Coordinate (UTC), as defined in IS-GPS-200 [55], IS-GPS-705 [56], IS-GPS-800 [57], DTFA01-96-C-00025 [58], IS-QZSS [59], [60].

IE/Group name	Presence	Range	IE Type and Reference	Semantics description
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IE/Group name	Presence	Range	IE Type and Reference	Semantics description
CHOICE Additional UTC Models				
>Model Set 1			DIT	
>A <sub>0-n</sub>	M		BIT STRING(16)	Bias coefficient of GNSS time scale relative to UTC time scale (seconds) (IS-GPS-200 [55], IS-GPS-705 [56], IS-GPS-800 [57], IS-QZSS [59])
>A <sub>1-n</sub>	М		BIT STRING (13)	Drift coefficient of GNSS time scale relative to UTC time scale (sec/sec) (IS-GPS-200 [55], IS-GPS-705 [56], IS-GPS-800 [57], IS-QZSS [59])
>A <sub>2-n</sub>	М		BIT STRING (7)	Drift rate correction coefficient of GNSS time scale relative to UTC time scale (sec/sec <sup>2</sup> ) (IS-GPS-200 [55], IS-GPS-705 [56], IS-GPS-800 [57], IS-QZSS [59])
>∆t <sub>LS</sub>	М		BIT STRING (8)	Current or past leap second count (seconds) (IS-GPS-200 [55], IS-GPS-705 [56], IS-GPS-800 [57], IS-QZSS [59])
>t <sub>ot</sub>	М		BIT STRING (16)	Time data reference time of week (seconds) (IS-GPS-200 [55], IS-GPS-705 [56], IS-GPS-800 [57], IS-QZSS [59])
>WN <sub>ot</sub>	М		BIT STRING (13)	Time data reference week number (weeks) (IS-GPS-200 [55], IS- GPS-705 [56], IS-GPS-800 [57], IS-QZSS [59])
>WN <sub>LSF</sub>	М		BIT STRING (8)	Leap second reference week number (weeks) (IS-GPS-200 [55], IS- GPS-705 [56], IS-GPS-800 [57], IS-QZSS [59])
>DN	М		BIT STRING (4)	Leap second reference day number (days) (IS-GPS-200 [55], IS- GPS-705 [56], IS-GPS-800 [57], IS-QZSS [59])
>Δt <sub>LSF</sub>	М		BIT STRING (8)	Current or future leap second count (seconds) (IS-GPS-200 [55], IS-GPS-705 [56], IS-GPS-800 [57], IS-QZSS [59])
>Model Set 2				
>N <sup>A</sup>	М		BIT STRING (11)	Callendar day number within four-year period beginning since the leap year (days) [60]
>tc	M		BIT STRING (32)	GLONASS time scale correction to UTC(SU) (seconds) [60]
>Delta UT1	0			
>>B1	М		BIT STRING (11)	Coefficient to determine ∆UT1 (seconds) [60]
>>B2	М		BIT STRING (10)	Coefficient to determine ∆UT1 (seconds/msd) [60]
>KP	0		BIT STRING (2)	Notification of expected leap second correction

IE/Group name	Presence	Range	IE Type and Reference	Semantics description
				(dimensionless) [60]
>Model Set 3				
>A <sub>1WNT</sub>	М		BIT STRING (24)	sec/sec (DTFA01-96-C-00025 [58], Message Type 12)
>A <sub>ownt</sub>	М		BIT STRING (32)	seconds (DTFA01-96-C-00025 [58], Message Type 12)
>t <sub>ot</sub>	М		BIT STRING (8)	seconds (DTFA01-96-C-00025 [58], Message Type 12)
>WN <sub>t</sub>	М		BIT STRING (8)	weeks (DTFA01-96-C-00025 [58], Message Type 12)
$>\Delta t_{LS}$	М		BIT STRING (8)	seconds (DTFA01-96-C-00025 [58], Message Type 12)
>WN <sub>LSF</sub>	М		BIT STRING (8)	weeks (DTFA01-96-C-00025 [58], Message Type 12)
>DN	М		BIT STRING (8)	days (DTFA01-96-C-00025 [58], Message Type 12)
$>\Delta t_{LSF}$	М		BIT STRING (8)	seconds (DTFA01-96-C-00025 [58], Message Type 12)
>UTC Standard ID	М		BIT STRING (3)	dimensionless Coded as defined in TS 25.331 [16]

## 9.2.1.112 T<sub>UTRAN-GANSS</sub> Accuracy Class

The  $T_{UTRAN-GANSS}Accuracy Class$  IE indicates the accuracy class of the UTRAN GANSS Timing of Cell Frames for UE Positioning measurement.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
T <sub>UTRAN-GANSS</sub> Accuracy Class			ENUMERAT ED (Accuracy Class A, Accuracy Class B, Accuracy Class C,)	More information about Measurement Accuracy Class is included in TS 25.133 [23].

## 9.2.1.113 T<sub>UTRAN-GANSS</sub> Measurement Threshold Information

The  $T_{UTRAN-GANSS}$  Measurement Threshold Information IE defines the related thresholds for UTRAN GANSS Timing of Cell Frames for UE Positioning measurements shall trigger the Event On Modification.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
T <sub>utran-ganss</sub> Change Limit	0		INTEGER(1. .256)	Change of T <sub>UTRAN-GANSS</sub> value compared to previously reported value, which shall trigger a new report. Unit in 1/16 chip.
Predicted Tutran-Ganss Deviation Limit	0		INTEGER(1. .256)	Deviation of the Predicted $T_{UTRAN-GANSS}$ from the latest measurement result, which shall trigger a new report. Unit in 1/16 chip.

# 9.2.1.114 T<sub>UTRAN-GANSS</sub> Measurement Value Information

The T<sub>UTRAN-GANSS</sub> *Measurement Value Information* IE indicates the measurement results related to the UTRAN GANSS Timing of Cell Frames for UE Positioning measurements.

IE/Group Name	Presence	Range	IE Type and	Semantics Description	Criticality	Assigned Criticality
			Reference	_		2
Tutran-ganss	М			Indicates the UTRAN GANSS Timing of Cell Frames for UE Positioning. According to mapping in TS 25.133 [23] and TS 25.123 [24]; significant values range from 0 to 371589119999 99.	_	
>MS	Μ		INTEGER(0 16383)	Most Significant Part	_	
>LS	М		INTEGER(0 42949672 95)	Least Significant Part	_	
T <sub>UTRAN-GANSS</sub> Quality	0		INTEGER(0 255)	Indicates the standard deviation (std) of the T <sub>UTRAN</sub> - GANSS measurements in 1/16 chip. T <sub>UTRAN</sub> - GANSS Quality = $\sqrt{E[(x-\mu)^2]}$ = std of reported T <sub>UTRAN</sub> - GANSS Value, where x is the reported T <sub>UTRAN</sub> - GANSS Value and $\mu = E[x]$ is the expectation value of x.	_	
T <sub>UTRAN-GANSS</sub> Drift Rate	Μ		INTEGER(- 5050)	Indicates the T <sub>UTRAN</sub> - GANSS drift rate in 1/256 chip per second. A positive value indicates that the UTRAN clock is running at a lower frequency than GANSS clock.	_	
T <sub>UTRAN-GANSS</sub> Drift Rate Quality	0		INTEGER(0 50)	Indicates the standard deviation (std) of the T <sub>UTRAN</sub> - GANSS drift rate measurements in 1/256 chip per second. T <sub>UTRAN</sub> - GANSS Drift Rate Quality = $\sqrt{E[(x-\mu)^2]}$ = std of reported T <sub>UTRAN</sub> - GANSS Drift Rate, where x is the		

			reported T <sub>UTRAN-</sub> GANSS Drift Rate and $\mu = E[x]$ is the expectation value of x.		
GANSS Time ID	0	9.2.1.119a	Absence of this IE means Galileo system time.	YES	ignore

# 9.2.1.115 GANSS Reference Time

Void.

# 9.2.1.116 HARQ Memory Partitioning

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
CHOICE HARQ Memory Partitioning		1			_	
>Implicit					_	
>>Number of Processes	М		INTEGER (18,12,1 4,16)	For HARQ process IDs going from 0 to "Number of Processes" – 1 the Total number of soft channel bits 25.306 [42] is partitioned equally between all HARQ processes according to the rules in TS 25.331 [16]	_	
>Explicit				25.331 [16].		
>>HARQ Memory Partitioning I		1 <maxno ofHARQpr ocesses&gt;</maxno 		The first instance of the parameter corresponds to HARQ process with identifier 0, the second instance to HARQ process with identifier 1, and so on.		
>>>Process Memory Size	М		9.2.1.49D	See TS 25.331 [16]	_	
>>HARQ Memory Partitioning Information Extension For MIMO		0, 4, 6 or 8		FDD and 1.28Mcps TDD only The 1 <sup>st</sup> instance corresponds to HARQ process with identifier set to "maxnoofHARQp rocesses", the 2 <sup>nd</sup> instance to HARQ process with identifier set to "maxnoofHARQp rocesses+1", and so on.	GLOBAL	ignore
>>>Process Memory Size	M		9.2.1.49D	See TS 25.331 [16]	_	

Range Bound	Explanation
MaxnoofHARQprocesses	Maximum number of HARQ processes for one UE [FDD – per stream
	(the maximum number of HARQ processes per UE is 2 *
	MaxnoofHARQprocesses in dual stream transmission mode)]

## 9.2.1.117 Multiple PLMN List

This information element contains a list of PLMN identities, which identifies the broadcasted PLMN Identities in MOCN and GWCN shared network configurations. The mandatory PLMN Identity in the MIB (called common PLMN in TS 23.251 [54]) is the first PLMN.

IE/Group Name	Presence	Range	IE type and reference	Semantics description
PLMN Identity	M		OCTET STRING (SIZE (3))	<ul> <li>digits 0 to 9, two digits per octet,</li> <li>each digit encoded 0000 to 1001,</li> <li>1111 used as filler</li> <li>bit 4 to 1 of octet n encoding digit 2n-1</li> <li>bit 8 to 5 of octet n encoding digit 2n</li> <li>The PLMN identity consists of 3 digits from MCC followed by either</li> <li>a filler plus 2 digits from MNC (in case of 2 digit MNC) or</li> <li>a digits from MNC (in case of a 3 digit MNC).</li> </ul>
List of PLMNs		0 <maxnrofbroadc astPLMNs&gt;</maxnrofbroadc 		
>PLMN Identity	М		OCTET STRING (SIZE (3))	<ul> <li>digits 0 to 9, two digits per octet,</li> <li>each digit encoded 0000 to 1001,</li> <li>1111 used as filler</li> <li>bit 4 to 1 of octet n encoding digit 2n-1</li> <li>bit 8 to 5 of octet n encoding digit 2n</li> <li>The PLMN identity consists of 3 digits from MCC followed by either</li> <li>a filler plus 2 digits from MNC (in case of 2 digit MNC) or</li> <li>a digits from MNC (in case of a 3 digit MNC).</li> </ul>

Range bound	Explanation
maxNrOfBroadcastPLMNs	Maximum number of additional PLMN identitys that can be broadcasted in a cell involved in a MOCN or GWCN Shared
	Network configuration. The value for maxNrOfBroadcastPLMNs is 5.

#### 9.2.1.118 GANSS Data Bit Assistance

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
GANSS TOD	М		INTEGER(059,)	Refererence time (modulo 1 minute) of the first bit of the data in <i>Data Bits</i> IE, in seconds.
Data Bit Assistance		1 <maxgans< td=""><td></td><td></td></maxgans<>		
List		SSat>		
>Sat ID	Μ		INTEGER(063)	Defined in TS 25.331 [16].
>Data Bit Assistance		1 <maxsgnty< td=""><td></td><td></td></maxsgnty<>		
Sgn List		pe>		
>>GANSS Signal ID	Μ		9.2.1.121	
>>Data Bits	М		BIT	Raw data bits as transmitted
			STRING(11024)	from a specific satellite at the time indicated by GANSS_TOD. See TS 25.331 [16].

Range Bound	Explanation
maxGANSSSat	Maximum number of satellites for which data is included in the IE
maxSgnType	Maximum number of GANSS signals included in the IE

#### 9.2.1.119 GANSS ID

This IE defines a particular GANSS.

IE/Group Name	Presence	Range	IE Type and	Semantics Description
			Reference	
GANSS ID	Μ		INTEGER(07 ,)	Defines the GANSS and is coded as defined in TS 25.331 [16].

# 9.2.1.119a GANSS Time ID

This IE defines a particular GANSS system time.

IE/Group Name	Presence	Range	IE Type and	Semantics Description
			Reference	
GANSS Time ID	М		INTEGER(07	Defines the GANSS system
			,)	time for the UTRAN GANSS
				Timing of Cell Frames for UE
				Positioning.
				Coded as defined in TS
				25.331 [16], subclause
				10.3.7.93a.

## 9.2.1.120 GANSS Navigation Model And Time Recovery

This IE contain information required to manage the transfer of precise navigation data to the GANSS-capable UE.

IE/Group name	Presence	Range	IE Type and Reference	Semantics description
GANSS Transmission Time	М		9.2.1.122	GANSS Time when the Navigation model has been retrieved
Non-Broadcast Indication	0		ENUMERAT ED(true)	If this IE is present, GANSS navigation model is not derived from satellite broadcast. See NOTE 1
Satellite Information		1 to <maxgan SSSat&gt;</maxgan 		
>Sat ID	Μ		INTEGER(0. .63)	Defined in TS 25.331 [16].
>SV Health	М		BIT STRING(5)	Coded as defined in Galileo OS Signal in Space ICD (OS SIS ICD) [53]
>IOD	М		BIT STRING(10)	
>GANSS Clock Model	Μ		9.2.1.104	
>GANSS Orbit Model	Μ		9.2.1.107	
NOTE 1: The Non-Broadcast l broadcast by the sate applied to the naviga	ellite. If it is set to	1, the UE is i	nformed that tec	odel is not bit-to-bit the one hniques such as data wiping off

Condition	Explanation
Orbit model	The IE shall be present if the GANSS Orbit Model IE
	indicates "Keplerian Parameters".

Range bound	Explanation
maxGANSSSat	Maximum number of satellites for which data is included in the IE.

# 9.2.1.120a GANSS Additional Navigation Models And Time Recovery

This IE contain information required to manage the transfer of precise navigation data to the GANSS-capable UE.

IE/Group name	Presence	Range	IE Type and Reference	Semantics description
GANSS Transmission Time	Μ		9.2.1.122	GANSS Time when the Navigation model has been retrieved
Non-Broadcast Indication	0		ENUMERAT ED(true)	If this IE is present, GANSS navigation model is not derived from satellite broadcast. See NOTE 1 in 9.2.1.120.
Satellite Information		1 <maxga NSSSat&gt;</maxga 		
>Sat ID	Μ		INTEGER(0. .63)	Defined in TS 25.331 [16].
>SV Health	Μ		BIT STRING(6)	Coded as defined in TS 25.331 [16].
>IOD	Μ		BIT STRING(11)	Coded as defined in TS 25.331 [16].
>GANSS Additional Clock Models	М		GANSS I Clock Models 9.2.1.104a	
>GANSS Additional Orbit Models	М		GANSS Additional Orbit Models 9.2.1.107a	

Range bound	Explanation
maxGANSSSat	Maximum number of satellites for which data is included in this IE.
	The value of maxGANSSSat is 64

## 9.2.1.121 GANSS Signal ID

This IE defines a specific signal within a particular GANSS.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
GANSS Signal ID	М		INTEGER(07,)	Coded as defined in TS 25.331 [16].

#### 9.2.1.122 GANSS Transmission Time

This IE indicates the GANSS Transmission Time.

IE/Group name	Presence	Range	IE Type and Reference	Semantics description
GANSS Day	0		INTEGER(0 8191)	The sequential number of days from the origin of the GNSS system time (indicated by the GANSS_ID given in the <i>Requested Data Value</i> IE) modulo 8192 days (about 22 years).
GANSS TOD	Μ		INTEGER(0 86399)	GANSS Time of Day in seconds

9.2.1.122a GANSS Earth Orientation Parameters

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
t <sub>EOP</sub>	М		BIT STRING(16)	EOP data reference time
				(seconds), see IS-GPS-200 [55]
PM_X	Μ		BIT STRING (21)	X-axis polar motion value at reference time
				(arc-seconds), see IS-GPS- 200 [55]
PM_X_dot	Μ		BIT STRING (15)	X-axis polar motion drift at reference time
				(arc-seconds/day), see IS- GPS-200 [55]
PM_Y	М		BIT STRING (21)	Y-axis polar motion value at reference time
				(arc-seconds), see IS-GPS- 200 [55]
PM_Y_dot	М		BIT STRING (15)	Y-axis polar motion drift at reference time
				(arc-seconds/day), see IS- GPS-200 [55]
ΔUT1	Μ		BIT STRING (31)	UT1-UTC difference at reference time
				(seconds), see IS-GPS-200 [55]
∆UT1_dot	М		BIT STRING (19)	Rate of UT1-UTC difference at reference time
				(seconds/day), see IS-GPS- 200 [55]

# 9.2.1.122b SBAS ID

This IE defines a specific SBAS.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
SBAS ID	М		ENUMERATED( WAAS, EGNOS, MSAS, GAGAN, )	

## 9.2.1.122c GANSS Auxiliary Information

IE/Group name	Presence	Range	IE Type and Reference	Semantics description
---------------	----------	-------	--------------------------	-----------------------

IE/Group name	Presence	Range	IE Type and Reference	Semantics description
CHOICE GANSS-ID				
>GANSS-ID-1				This choice may only be present if GANSS ID indicated "Modernized GPS"
>>Aux Info List		1 <maxgan SSSat&gt;</maxgan 		
>>>Sat ID	Μ		INTEGER(0. .63)	Defined in TS 25.331 [16].
>>>Signals Available	Μ		BIT STRING(8)	Coded as defined in TS 25.331 [16].
>GANSS-ID-3				This choice may be present if GANSS ID indicated "GLONASS"
>>Aux Info List		1 <maxgan SSSat&gt;</maxgan 		
>>>Sat ID	М		INTEGER(0. .63)	Defined in TS 25.331 [16].
>>>Signals Available	Μ		BIT STRING(8)	Coded as defined in TS 25.331 [16].
>>>Channel Number	М		INTEGER (-713)	This field indicates the GLONASS carrier frequency number of the satellite identified by <i>Sat ID</i> , as defined in [60].

Range Bound	Explanation
maxGANSSSat	Maximum number of GANSS satellites for which data is included in this IE.

## 9.2.1.122d Additional Ionospheric Model Request

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Additional Ionospheric Model Request	Μ		BIT STRING(2)	Data ID for GANSS Additional lonospheric Model as defined in TS 25.331 [16], subclause 10.3.7.92b.

# 9.2.1.122e Earth Orientation Parameters Request

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Earth Orientation Parameters Request	М		BOOLEAN	True means requested.

# 9.2.1.122f GANSS Additional Navigation Models And Time Recovery Request

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
GANSS Additional	Μ		BOOLEAN	True means requested.
Navigation Models And Time				
Recovery Request				

#### 9.2.1.122g GANSS Additional UTC Models Request

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
GANSS Additional UTC Models Request	М		BOOLEAN	True means requested.

#### 9.2.1.122h GANSS Auxiliary Information Request

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
GANSS Auxiliary Information Request	М		BOOLEAN	True means requested.

#### 9.2.1.123 SixtyfourQAM DL Support Indicator

The *SixtyfourQAM DL Support Indicator* indicates whether the particular cell is capable to support Sixtyfour QAM in DL or not.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
SixtyfourQAM DL Support Indicator			ENUMERAT ED (SixtyfourQA M DL Supported, SixtyfourQA M DL Not Supported)	

#### 9.2.1.124 RANAP Enhanced Relocation Information Request

This parameter is transparent to the RNSAP. The parameter contains information for the Enhanced Relocation procedure as defined in TS 25.413 [2].

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
RANAP Enhanced Relocation Information Request			BIT STRING	The content is defined in ref. TS 25.413 [2].

#### 9.2.1.125 RANAP Enhanced Relocation Information Response

This parameter is transparent to the RNSAP. The parameter contains information for the Enhanced Relocation procedure as defined in TS 25.413 [2].

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
RANAP Enhanced Relocation Information Response			BIT STRING	The content is defined in ref. TS 25.413 [2].

#### 9.2.1.126 Released CN Domain

The parameter indicates the CD Domain(s) which the RNC shall release the related resource for.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
CHOICE Released CN Domain	М			
>PS Domain			NULL	
>CS Domain			NULL	
>PS and CS Domain			NULL	

## 9.2.1.127 Secondary CCPCH system information MBMS

The parameter contains information for the Secondary CCPCH system information MBMS as defined in TS 25.331 [16].

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Secondary CCPCH system information MBMS			BIT STRING	The content is defined in ref. TS 25.331 [16].

#### 9.2.1.128 MBSFN Cluster Identity

The parameter is the identifier of a MBSFN cluster in one PLMN.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
MBSFN Cluster Identity			INTEGER (065535)	the identifier of a MBSFN cluster in one PLMN

#### 9.2.1.129 MBSFN Scheduling Transmission Time Interval

The parameter is the identifier of an MBSFN Scheduling Transmission Time Interval.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
MBSFN Scheduling			INTEGER	Number of TTIs
Transmission Time Interval			(4,8,16,32,	
			64,128,256)	

## 9.2.1.130 MAC-ehs Reset Timer

The MAC-ehs Reset Timer IE is used as Reset Timer(Treset) described in ref TS 25.321 [41] subclause 11.6.4.5.

IE/Group Name	Presence	Range	IE type and reference	Semantics description
MAC-ehs Reset Timer			ENUMERAT ED (1, 2, 3, 4,)	Timer in multiples of T1 values (milliseconds). Used when MAC-ehs reordering queue is reset in CELL_FACH and CELL_PCH

## 9.2.1.131 Enhanced FACH Support Indicator

This IE indicates the Enhanced FACH Support. [1.28Mcps TDD – This IE indicates the Enhanced FACH Support in both downlink and uplink.]

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Enhanced FACH Support Indicator			NULL	

#### 9.2.1.132 Enhanced PCH Capability

This IE indicates the UE is capable of Enhanced PCH or not.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Enhanced PCH Capability			ENUMERAT	
			ED	
			(Enhanced	
			PCH	
			Capable,	
			Enhanced	
			PCH Not	
			Capable)	

## 9.2.1.133 Priority Queue Information for Enhanced FACH/PCH

The *Priority Queue Information for Enhanced FACH/PCH* IE provides information associated to HSDPA Priority Queue used for Enhanced FACH and/or Enhanced PCH.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Priority Queue Information		1 <maxnoo fPrioQueue</maxnoo 		
		S>		
>Priority Queue ID	М		9.2.1.45A	
>Scheduling Priority Indicator	М		9.2.1.51A	
>T1	М		9.2.1.54A	
>MAC-ehs Reset Timer	М		9.2.1.130	
>Discard Timer	0		9.2.1.19C	
>MAC-hs Window Size	Μ		9.2.1.34C	
>Maximum MAC-d PDU Size	М		MAC PDU	
			Size	
			Extended	
			9.2.1.34D	

Range Bound	Explanation
maxnoofPrioQueues	Maximum number of Priority Queues

#### 9.2.1.134 MIMO Activation Indicator

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
MIMO Activation Indicator	М		NULL	

#### 9.2.1.135 MIMO Mode Indicator

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
MIMO Mode Indicator			ENUMERATED	
			(Activate,	
			Deactivate)	

## 9.2.1.136 DL RLC PDU Size Format

The DL RLC PDU Size Format IE indicates the downlink RLC PDU size format used for a Priority Queue.

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IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
DL RLC PDU Size Format			ENUMERATED ( Fixed RLC PDU size, Flexible RLC PDU size ,)	

# 9.2.1.137 UE Aggregate Maximum Bit Rate

The *UE Aggregate Maximum Bitrate* IE is applicable for all Non-GBR bearers per UE which is defined for the Downlink and the Uplink direction and provided by the CN to the RNC. At least one of the *UE Aggregate Maximum Bit Rate Downlink* IE and *UE Aggregate Maximum Bit Rate Uplink* IE shall be included in the *UE Aggregate Maximum Bit Rate* IE.

IE/Group Name	Presence	Range	IE type and reference	Semantics description
UE Aggregate Maximum Bit Rate				Desc: Applicable for non-GBR bearers
>UE Aggregate Maximum Bit Rate Downlink	0		INTEGER (11,000,00 0,000)	<b>Desc.</b> : This IE indicates the aggregated maximum number of bits delivered by UTRAN and to UTRAN in DL within a period of time, divided by the duration of the period for all non-GBR bearers in one UE. The MBR of non-GBR bearers shall be ignored if this IE present.
>UE Aggregate Maximum Bit Rate Uplink	0		INTEGER (11,000,00 0,000)	<b>Desc.</b> : This IE indicates the aggregated maximum number of bits delivered by UTRAN and to UTRAN in UL within a period of time, divided by the duration of the period for all non-GBR bearers in one UE. The MBR of non-GBR bearers shall be ignored if this IE present.

#### 9.2.1.138 DGNSS Validity Period

This IE defines the validity period of the GNSS differential corrections provided in *DGPS corrections* and *DGANSS corrections* IEs.

IE/Group Name	Presence	Range	IE Type and	Semantics Description
			Reference	
UDRE Growth Rate	М		Enumerated( UDRE growth 1.5, UDRE growth 2, UDRE growth 4, UDRE growth 6, UDRE growth 8, UDRE growth 10, UDRE growth 12,	This field provides an estimate of the growth rate of uncertainty $(1-\sigma)$ in the corrections. The UDRE at time value specified in the <i>Time</i> of <i>Validity for UDRE Growth Rate</i> <i>field</i> is the value of this field times the value of UDRE provided in DGPS Corrections or DGANSS
			UDRE growth 16)	corrections IE TS 25.427 [4].
Time of Validity for UDRE Growth Rate	Μ		Enumerated( val20sec, val40sec, val80sec, val160sec, val320sec, val640sec, val1280sec, val2560sec)	This field specifies the time when the <i>UDRE Growth Rate</i> field applies TS 25.427 [4].

# 9.2.2 FDD Specific Parameters

This subclause contains parameters that are specific to FDD.

#### 9.2.2.a ACK-NACK Repetition Factor

The ACK-NACK Repetition Factor IE indicates the consecutive repetition of the ACK and NACK.

IE/Group Name	Presence	Range	IE type and reference	Semantics description
ACK-NACK Repetition			INTEGER	Step: 1
Factor			(1,4,)	

# 9.2.2.b ACK Power Offset

The *ACK Power Offset* IE indicates Power offset used in the UL between the HS-DPCCH slot carrying HARQ ACK information and the associated DPCCH.

IE/Group Name	Presence	Range	IE type and reference	Semantics description
ACK Power Offset			INTEGER (08,)	According to mapping in ref. TS 25.213 [21] subclause 4.2.1.

#### 9.2.2.A Active Pattern Sequence Information

Defines the parameters for the compressed mode gap pattern sequence activation. For details see ref. TS 25.331 [16].

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
CM Configuration Change CFN	М		CFN 9.2.1.9	
Transmission Gap Pattern Sequence Status		0 <maxtgps></maxtgps>		If the group is not present, none of the pattern sequences are activated.
>TGPSI Identifier	М		INTEGER(1. . <maxtgps &gt;)</maxtgps 	Establish a reference to the compressed mode pattern sequence. Up to <maxtgps> simultaneous compressed mode pattern sequences can be activated.</maxtgps>
>TGPRC	M		INTEGER(0. .511)	The number of transmission gap patterns within the Transmission Gap Pattern Sequence. 0=Infinity.
>TGCFN	M		CFN 9.2.1.9	Connection Frame Number of the first frame of the first pattern 1 within the Transmission Gap Pattern Sequence.

Range bound	Explanation
maxTGPS	Maximum number of active pattern sequences. Value 6.

# 9.2.2.B Adjustment Period

Adjustment Period IE defines the period to be used for power balancing.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Adjustment Period			INTEGER (1 256)	Unit: Frames

# 9.2.2.C Adjustment Ratio

Adjustment Ratio IE (Radj) defines the convergence rate used for the associated Adjustment Period.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Adjustment Ratio			INTEGER (0 100)	The Adjustment Ratio is given with a granularity of 0.01 0 -> 0.00 1 -> 0.01  100 -> 1.00

# 9.2.2.Ca Bundling Mode Indicator

The Bundling Mode Indicator indicates whether the bundling shall be done or shall not be done for Iur.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Bundling Mode Indicator			ENUMERATED (	The value "Bundling" is
			Bundling, No	applicable only when E-TTI
			bundling)	indicates "2ms".

# 9.2.2.D Cell Capability Container FDD

The Cell Capability Container FDD indicates which functionalities a cell supports.

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	Flexible E-DCH MAC-d PDU
	Size Support Indicator.
	The twentythird bit: E-
	DPCCH Power Boosting
	Support Indicator.
	The twentytfourth bit:
	SixtyfourQAM DL and MIMO
	Combined Support Indicator.
	This bit shall not be set to 1 if
	SixtyfourQAM DL Support
	Indicator is set to 0 or MIMO
	Support Indicator is set to 0.
	The twentyfifth bit: Multi Cell Support Indicator
	The twentysixth bit: MBMS
	Support Indicator.
	The twentyseventh bit: TX
	Diversity on DL Control
	Channels by MIMO Capable
	UE when MIMO operation is
	Active Support Indicator.
	The twentyeighth bit: Dual
	Band Support Indicator
	The twentyninth bit: Single
	Stream MIMO Support
	Indicator.
	The thirtieth bit:
	Preferred Precoding Weight
	Set Restriction Support Indicator. (See TS 25.331
	[16], the value 1 indicates
	preferred)
	preferred)
	Note that undefined bits are
	considered as a spare bit
	and spare bits shall be set to
	0 by the transmitter and shall
	be ignored by the receiver.
	Note that Reserved bits are
	not considered as a spare
	bit. They shall however be
	set to 0 by the transmitter
	and shall be ignored by the
	receiver.

#### 9.2.2.E Cell Portion ID

Cell Portion ID is the unique identifier for a cell portion within a cell. See TS 25.215 [11].

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Cell Portion ID			INTEGER (063,)	

# 9.2.2.1 Chip Offset

The Chip Offset is defined as the radio timing offset inside a radio frame. The Chip Offset is used as offset for the DL DPCH relative to the Primary CPICH timing for the DL DPCH or for the F-DPCH.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Chip Offset			INTEGER (038399)	Unit: Chips

# 9.2.2.2 Closed Loop Mode1 Support Indicator

The Closed Loop Mode1 Support Indicator indicates whether the particular cell is capable to support Closed loop mode1 or not

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Closed Loop Mode1 Support			ENUMERAT	
Indicator			ED(Closed	
			loop mode1	
			Supported,	
			Closed loop	
			mode1 not	
			supported).	

#### 9.2.2.3 Closed Loop Mode2 Support Indicator

Void.

# 9.2.2.3A Closed Loop Timing Adjustment Mode

Indicates when the phase/amplitude adjustment is performed in the DL in relation to the receipt of the UL feedback command in case of closed loop mode transmit diversity on DPCH.

IE/Group Name	Presence	Range	IE Type and	Semantics Description
		-	Reference	
Closed Loop Timing Adjustment			ENUMERAT	According to TS 25.214 [10]
Mode			ED(Offset1,	subclause 7.1:
			Offset2,)	Offset1 = slot(j+1)mod15
				Offset2 = slot(j+2)mod15

#### 9.2.2.4 Compressed Mode Method

Void

#### 9.2.2.4A DCH FDD Information

The DCH FDD Information IE provides information for DCHs to be established.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
DCH FDD Information		1 <maxno ofDCHs&gt;</maxno 			_	
>Payload CRC Presence Indicator	М		9.2.1.42		_	
>UL FP Mode	М		9.2.1.67		_	
>ToAWS	М		9.2.1.58		_	
>ToAWE	М		9.2.1.57		_	
>DCH Specific Info		1 <maxno ofDCHs&gt;</maxno 			_	
>>DCH ID	М		9.2.1.16		-	
>>TrCH Source Statistics Descriptor	М		9.2.1.65		_	
>>Transport Format Set	М		9.2.1.64	For the UL.	_	
>>Transport Format Set	М		9.2.1.64	For the DL.	-	
>>BLER	М		9.2.1.4	For the UL.	-	
>>BLER	М		9.2.1.4	For the DL.	_	
>>Allocation/Retention Priority	М		9.2.1.1		_	
>>Frame Handling Priority	М		9.2.1.29		-	
>>QE-Selector	М		9.2.1.46A		_	
>>DRAC control	М		9.2.2.13		-	
>Suaranteed Rate Information	0		9.2.1.30M		YES	ignore
>>Traffic Class	М		9.2.1.58A		YES	ignore
>>Unidirectional DCH Indicator	0		9.2.1.68B		YES	reject
>TNL QoS	0		9.2.1.56A		YES	ignore

Range bound	Explanation
maxnoofDCHs	Maximum number of DCHs for one UE.

# 9.2.2.4B E-DCH FDD Information

The E-DCH FDD Information IE provides information for an E-DCH to be established.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
E-DCH MAC-d Flows Information	М		9.2.2.4MC		-	
HARQ Process Allocation For 2ms Scheduled Transmission Grant	0		HARQ Process Allocation for 2ms TTI 9.2.2.40	If this IE is not included, scheduled transmission in all HARQ processes is allowed.	_	
E-DCH Maximum Bitrate	0		9.2.2.4MG		-	
E-DCH Processing Overload Level	0		9.2.1.95		-	
E-DCH Reference Power Offset	0		9.2.2.4MI		_	
E-DCH Power Offset for Scheduling Info	0		9.2.1.96		YES	ignore
SixteenQAM UL Operation Indicator	0		9.2.2.90		YES	reject
E-AGCH Table Choice	C- SixteenQA M UL Operation		9.2.2.61A	If the SixteenQAM UL operation is not configured for this UE, Table 16B for E- AGCH in TS 25.212 [9] shall be used.	YES	ignore

Condition	Explanation
SixteenQAM UL Operation	The IE shall be present if the SixteenQAM UL Operation Indicator IE is
	set to "Activate".

# 9.2.2.4C E-DCH FDD Information Response

The *E-DCH FDD Information Response* IE provides information for E-DCH MAC-d flows that have been established or modified. It also provides additional E-DCH information determined within the DRNS.

IE/Group Name	Presence	Range	IE Type and	Semantics Description	Criticality	Assigned Criticality
			Reference			
E-DCH MAC-d Flow Specific Information Response		1 <maxno ofEDCHM ACdFlows &gt;</maxno 			_	
>E-DCH MAC-d Flow ID	Μ		9.2.1.91	If only HARQ Process Allocation For 2ms Scheduled Transmissio n Grant IE and this IE (E-DCH MAC-d Flow ID) are present in the E-DCH FDD Information Response IE, the content of this IE shall be considered invalid	_	
>Binding ID	0		9.2.1.3		_	
>Transport Layer Address	0		9.2.1.62			
>HARQ Process Allocation For 2ms Non- Scheduled Transmission Grant	0		HARQ Process Allocation for 2ms TTI 9.2.2.40		_	
>Transport Bearer Not Setup Indicator	0		9.2.2.4T		YES	ignore
HARQ Process Allocation For 2ms Scheduled Transmission Grant	0		HARQ Process Allocation for 2ms TTI 9.2.2.40		_	

Range bound	Explanation
maxnoofEDCHMACdFlows	Maximum number of E-DCH MAC-d flows.

# 9.2.2.4D E-DCH FDD DL Control Channel Information

The *E-DCH FDD DL Control Channel Information* IE provides information for E-DCH specific DL Control Channels to be provided to UE via RRC signalling.

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E-AGCH And E-RGCH/E- HICH FDD Scrambling Code	0	Reference DL Scrambling Code 9.2.2.11	Scrambling code on which E-AGCH, E- RGCH and E- HICH are transmitted. 0= Primary	_	
			scrambling code of the cell 115 = Secondary scrambling code		
E-AGCH Channelisation Code	0	FDD DL Channelisat ion Code Number 9.2.2.14		_	
ŷ	0	E-RNTI 9.2.1.94		_	
Secondary E-RNTI	0	E-RNTI 9.2.1.94		_	
E-RGCH/E-HICH Channelisation Code	М	FDD DL Channelisat ion Code Number 9.2.2.14		_	
Sequence	0	INTEGER (0maxnoof SigSeqERG HICH-1)		_	
Sequence	0	INTEGER (0maxnoof SigSeqERG HICH-1)		_	
Serving Grant Value	0	INTEGER (037,38)	(037) indicates E- DCH serving grant index as defined in TS 25.321 [41]; index 38 means zero grant	_	
Primary/Secondary Grant Selector	0	ENUMERA TED (Primary, Secondary)	Indicates whether the Serving Grant Value is granted with a primary E- RNTI or a secondary E- RNTI	_	
Indicator	0	9.2.2.60		-	
E-RGCH and E-HICH Channelisation Code Validity Indicator	0	9.2.2.68 INTEGER	Indicates whether the value of E- RGCH and E- HICH Channelisatio n Code is invalid Serving Grant	YES	ignore

DTV Quele 0	(0, 07,00)	value te he	
DTX Cycle 2	(037,38)	value to be	
		used in DTX-	
		Cycle-2.	
		(037)	
		indicates E-	
		DCH serving	
		grant index as	
		defined in TS	
		25.425 [32];	
		index 38	
		means zero	
		grant	

Range bound	Explanation
maxnoofSigSeqERGHICH	Maximum number Signature Sequences for E-RGCH / E-HICH

# 9.2.2.4E E-DCH RL Indication

Indicates whether a RL is an E-DCH RL.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
E-DCH RL Indication			ENUMERAT	
			ED(E-DCH,	
			non E-DCH)	

# 9.2.2.4F E-DCH FDD Information To Modify

The E-DCH FDD Information IE provides information for an E-DCH to be modified.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
E-DCH MAC-d Flow Specific Information		1 <maxno ofEDCHM ACdFlows &gt;</maxno 		See Note1 below.	_	
>E-DCH MAC-d Flow ID	М		9.2.1.91		_	
>Allocation/Retention Priority	0		9.2.1.1		_	
>Transport Bearer Request Indicator	М		9.2.1.61		-	
>TNL QoS	0		9.2.1.56A		_	
>Maximum Number of Retransmissions for E- DCH	0		9.2.1.100		-	
>Traffic Class	0		9.2.1.58A		-	
>E-DCH HARQ Power Offset FDD	0		9.2.2.4L		_	
>E-DCH MAC-d Flow Multiplexing List	0		9.2.1.89		-	
> CHOICE E-DCH grant type	0					
>>E-DCH Non- Scheduled Transmission Grant						
>>>Maximum Number of Bits per MAC-e PDU for Non-scheduled Transmission	M		9.2.2.4N	If the Extended Maximum Number of Bits per MAC-e PDU for Non- scheduled Transmission IE is present, this IE shall be ignored. When Maximum MAC-d PDU Size Extended IE is configured for an E-DCH Logical Channel this IE indicates the maximum number of bits per MAC-I PDU.	_	
>>>HARQ Process Allocation For 2ms Non-Scheduled Transmission Grant	0		HARQ Process Allocation for 2ms TTI 9.2.2.40		_	

>>>Extended Maximum	0		9.2.2.4R	When	YES	reject
Number of Bits per				Maximum		
MAC-e PDU for Non-				MAC-d PDU		
scheduled				Size Extended		
Transmission				IE is		
				configured for		
				an E-DCH		
				Logical		
				Channel this IE indicates		
				the extended		
				maximum		
				number of bits		
				per MAC-I		
				PDU.		
>>E-DCH Scheduled			NULL			
Transmission Grant	0		0.0.0.0-			
>Bundling Mode Indicator >E-DCH Logical Channel	0		9.2.2.Ca E-DCH		_	
To Add	0		Logical		_	
TO Add			Channel			
			Information			
			9.2.1.92			
>E-DCH Logical Channel			9.2.1.93		_	
To Modify						
>E-DCH Logical Channel		0<			_	
To Delete		maxnooflo				
		gicalchann els>				
>>Logical Channel ID	М	6182	9.2.1.97			
HARQ Process Allocation	0		HARQ		_	
For 2ms Scheduled	•		Process			
Transmission Grant			Allocation			
			for 2ms TTI			
			9.2.2.40			
E-DCH Maximum Bitrate	0		9.2.2.4MG		_	
E-DCH Processing Overload	0		9.2.1.95		_	
Level E-DCH Reference Power	0		0.0.0.4MI			
Offset			9.2.2.4MI		—	
MAC-e Reset Indicator	0		9.2.1.99		_	
E-DCH Power Offset for	0		9.2.1.96		YES	ignore
Scheduling Info						
SixteenQAM UL Operation	0		9.2.2.90		YES	reject
	0		0.04.044		VEO	
E-DCH MAC-d PDU Size Format	0		9.2.1.91A		YES	reject
E-DCH DL Control Channel		0 <maxno< td=""><td></td><td></td><td>GLOBAL</td><td>ignore</td></maxno<>			GLOBAL	ignore
Grant Information		ofEDCHR			JEODAL	ignore
		Ls>				
>E-DCH RL ID	М		RL ID		_	
			9.2.1.49			
E-AGCH Table Choice	C-		9.2.2.61A	If sixteenQAM	YES	ignore
	SixteenQA			UL operation		
	MUL			is not used in		
	Operation			the new		
				configuration		
				for this UE, Table 16B for		
				E-AGCH in TS		
				25.212 [9]		
				shall be used		
				in the new		
				configuration.		
Note 1: Even if no E-DCH N				e modified, one E-		
Information shall be	included, whi	ch onlv contai	ns the E-DCH	MAC-d Flow ID IE	and the Trans	port
BearerRequest Indi					,	

Condition	Explanation
SixteenQAM UL Operation	The IE shall be present if the SixteenQAM UL Operation Indicator IE
	is set to "Activate".

Range bound	Explanation
maxnoofEDCHMACdFlows	Maximum number of E-DCH MAC-d flows.
Maxnooflogicalchannels	Maximum number of Logical Channels
maxnoofEDCHRLs	Maximum number of E-DCH RLs for one UE

# 9.2.2.4G E-DCH Transport Format Combination Set Information (E-TFCS Information)

Whereas the related Transport Block sizes are standardised in TS 25.321 [41] this IE gives details on the referenced Transport Block Size Table, the E-DCH Minimum Set E-TFCI, the Reference E-TFCIs and configuration parameters used for the calculation of the gain factors  $\beta_{ec}$  and  $\beta_{ed}$  defined in TS 25.214 [10].

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
E-TFCI Table Index	М		INTEGER (01,, 27)	Indicates which standardised E-TFCS Transport Block Size Table shall be used. The related tables are specified in TS 25.321 [41].	_	
E-DCH Minimum Set E- TFCI	М		INTEGER (0127)	For the concept of "E- DCH Minimum Set of TFCs" see TS 25.321 [41] and TS 25.331 [16].	_	
Reference E-TFCI Information		1 <maxno ofRefETF Cls&gt;</maxno 			-	
>Reference E-TFCI	М		INTEGER (0127)		_	
>Reference E-TFCI Power Offset	М		9.2.2.4P	If the Extended Reference E- TFCI Power Offset IE is present, this IE shall be ignored	_	
>Extended Reference E- TFCI Power Offset	0		9.2.2.4Q		YES	reject
E-DCH Minimum Set E- TFCI Validity Indicator	0		9.2.2.69	Indicates whether the value of E- DCH Minimum Set E-TFCI is invalid	YES	reject
E-TFCI Boost Informatiion	0		9.2.2.91		YES	reject
E-DPDCH Power Interpolation	0		BOOLEAN	True means that the E- DPDCH power interpolation formula shall be applied, False means that the E- DPDCH power extrapolation formula shall be applied for the computation of the gain factor $\beta_{ed}$ according to TS 25.214 [10]	YES	reject

Range Bound	Explanation
maxnoofRefETFCIs	Maximum number of signalled reference E-TFCIs

# 9.2.2.4J E-TTI

The E-TTI parameter indicates the Transmission Time Interval for E-DPCH operation.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
E-TTI			ENUMERAT	
			ED (2ms,	
			10ms)	

#### 9.2.2.4K E-DPCCH Power Offset

The E-DPCCH Power Offset is used to calculate the E-DPCCH gain factor  $\beta_{ec}$  as defined in TS 25.214 [10], whereas  $\beta_{ec}$  is related to the power difference between DPCCH and E-DPCCH.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
E-DPCCH Power Offset			INTEGER (08)	According to mapping in ref. TS 25.213 [21] subclause 4.2.1.3

# 9.2.2.4KA Void

#### 9.2.2.4L E-DCH HARQ Power Offset FDD

The E-DCH HARQ Power Offset FDD is used to calculate the unquantised gain factor for an E-TFC ( $\beta_{ed,j,uq}$ ) as defined in TS 25.214 [10].

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
E-DCH HARQ Power Offset FDD			INTEGER (06)	According to mapping in ref. TS 25.213 [21] subclause 4.2.1.3.

- 9.2.2.4M Void
- 9.2.2.4MA Void
- 9.2.2.4MB Void

#### 9.2.2.4MC E-DCH MAC-d Flows Information

The E-DCH MAC-d Flows Information IE is used for the establishment of E-DCH MAC-d flows.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
E-DCH MAC-d Flow Specific Information		1 <maxno ofEDCHM ACdFlows &gt;</maxno 	Kelerence		_	
>E-DCH MAC-d Flow ID	М		9.2.1.91		_	
>Allocation/Retention Priority	0		9.2.1.1		l	
>TNL QoS	0		9.2.1.56A		_	
>Payload CRC Presence Indicator	М		9.2.1.42		-	
>Maximum Number of Retransmissions for E- DCH	Μ		9.2.1.100		_	
>Traffic Class	Μ		9.2.1.58A		_	
>E-DCH HARQ Power Offset FDD	М		9.2.2.4L		_	
>E-DCH MAC-d Flow Multiplexing List	0		9.2.1.89		_	
>CHOICE <i>E-DCH grant</i> type	М				_	
>>E-DCH Non- Scheduled Transmission Grant						
>>>Maximum Number of Bits per MAC-e PDU for Non-scheduled Transmission	M		9.2.2.4N	If the Extended Maximum Number of Bits per MAC-e PDU for Non- scheduled Transmission IE is present, this IE shall be ignored. When Maximum MAC-d PDU Size Extended IE is configured for an E-DCH Logical Channel this IE indicates the maximum number of bits per MAC-I PDU.		
>>>HARQ Process Allocation For 2ms Non-Scheduled Transmission Grant	0		HARQ Process Allocation for 2ms TTI 9.2.2.4O	If this IE is not included, transmission in all HARQ processes is allowed.	_	

>>>Extended Maximum Number of Bits per MAC-e PDU for Non- scheduled Transmission	0	9.2.2.4R	When Maximum MAC-d PDU Size Extended IE is configured for an E-DCH Logical Channel this IE indicates the extended maximum number of bits per MAC-I PDU.	YES	reject
>>E-DCH Scheduled Transmission Grant		NULL			
>Bundling Mode Indicator	0	9.2.2.Ca		-	
>E-DCH Logical Channel Information	М	9.2.1.92		-	
>TrCH Source Statistics Descriptor	0	9.2.1.65		YES	ignore

Range bound	Explanation
maxnoofEDCHMACdFlows	Maximum number of E-DCH MAC-d flows.

- 9.2.2.4MD Void
- 9.2.2.4ME Void
- 9.2.2.4MF Void

#### 9.2.2.4MG E-DCH Maximum Bitrate

The E-DCH Maximum Bitrate parameter indicates the Maximum Bitrate for an E-DCH.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
E-DCH Maximum Bitrate			INTEGER (05742,, 574311498)	Bitrate on transport block level. Unit is kbits per second.

#### 9.2.2.4MH Void

#### 9.2.2.4MI E-DCH Reference Power Offset

The E-DCH Reference Power Offset is used to estimate the E-DPDCH power from E-TFCI without decoding MAC-e PDUs.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
E-DCH Reference Power Offset			INTEGER (06)	According to mapping in ref. TS 25.213 [21] subclause 4.2.1.3.

#### 9.2.2.4MJ Void

#### 9.2.2.4N Maximum Number of Bits per MAC-e PDU for Non-scheduled Transmission

The Maximum Number of Bits per MAC-e PDU for Non-scheduled Transmission indicates the maximum numbers of bits allowed to be included in a MAC-e (or MAC-i) PDU per E-DCH MAC-d flow configured for non- scheduled transmissions. If the range of the *Maximum Number of Bits per MAC-e PDU for Non-scheduled Transmission* IE is insufficient to represent the value to be sent to the DRNS, the *Extended Maximum Number of Bits per MAC-e PDU for Non-scheduled Transmission* IE is *Non-scheduled Transmission* IE shall be used to represent the value to be sent to the DRNS, see section 9.2.2.4R.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Maximum Number of Bits per MAC-e PDU for Non-			INTEGER (119982)	
Scheduled Transmission				

#### 9.2.2.40 HARQ Process Allocation For 2ms TTI

The HARQ Process Allocation for 2ms TTI indicates those HARQ processes that are allowed. MAC-d PDU's for a MAC-d flow are only allowed to be transmitted in those processes for which the bit is set to "1".

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
HARQ Process Allocation For 2ms TTI			BIT STRING (8)	The first Bit corresponds to HARQ process $ID = 0$ , the second bit corresponds to HARQ process $ID = 1$ , etc. The HARQ process ID for 2ms TTI is defined in TS 25.321 [41], chapter 11.8.1.3.

#### 9.2.2.4P Reference E-TFCI Power Offset

The Reference E-TFCI Power Offset is used to calculate the reference E-TFC gain factor  $\beta_{ed,ref}$  as defined in TS 25.214 [10]. If the range of the *Reference E-TFCI Power Offset* IE is insufficient to represent the value to be sent to the DRNS, the *Extended Reference E-TFCI Power Offset* IE shall be used to represent the value to be sent to the DRNS, see section 9.2.2.4Q.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Reference E-TFCI Power Offset			INTEGER (029)	According to mapping in ref. TS 25.213 [21] subclause 4.2.1.3

#### 9.2.2.4Q Extended Reference E-TFCI Power Offset

The *Extended Reference E-TFCI Power Offset* IE shall be used if the range of the *Reference E-TFCI Power Offset* IE (see section 9.2.2.4P) is insufficient to represent the value of the Reference E-TFCI Power Offset to be sent to the DRNS.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Extended Reference E-TFCI			INTEGER	According to mapping in ref.
Power Offset			(3031,)	TS 25.213 [21] subclause
				4.2.1.3

# 9.2.2.4R Extended Maximum Number of Bits per MAC-e PDU for Non-scheduled Transmission

The *Extended Maximum Number of Bits per MAC-e PDU for Non-scheduled Transmission* IE shall be used if the range of the *Maximum Number of Bits per MAC-e PDU for Non-scheduled Transmission* IE (see section 9.2.2.4N) is insufficient to represent the value of the Maximum Number of Bits per MAC-e (or MAC-i) PDU for Non-scheduled Transmission to be sent to the DRNS.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Extended Maximum Number of			INTEGER	
Bits per MAC-e PDU for Non-			(1998322978,)	
scheduled Transmission				

#### 9.2.2.4S Transport Bearer Not Requested Indicator

The Transport Bearer Not Requested Indicator parameter indicates that a transport bearer shall not be established or may not to be established for DCH or an E-DCH MAC-d flow.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Transport Bearer Not			ENUMERATED	
Requested Indicator			(Transport Bearer	
-			shall not be	
			Established,	
			Transport Bearer	
			may not be	
			Established)	

#### 9.2.2.4T Transport Bearer Not Setup Indicator

The Transport Bearer Not Setup Indicator parameter indicates that a transport bearer will not be established for a DCH or an E-DCH MAC-d flow.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Transport Bearer Not Setup			ENUMERATED	
Indicator			(Transport Bearer	
			Not Setup)	

9.2.2.5 D-Field Length

Void

9.2.2.6 Diversity Control Field

Void.

9.2.2.7 Diversity Indication

Void.

#### 9.2.2.8 Diversity Mode

Define the diversity mode to be applied.

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IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Diversity Mode			ENUMERAT ED(None, STTD, Closed loop mode 1, Not Used)	The <i>Diversity Mode</i> IE shall never be set to "Not Used". If received it shall be rejected.

#### 9.2.2.9 DL DPCH Slot Format

Indicates the slot format used in DPCH in DL, according to ref. TS 25.211 [8].

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
DL DPCH Slot Format			INTEGER (016,)	

#### 9.2.2.9A DL DPCH Timing Adjustment

The DL DPCH Timing Adjustment indicates that a timing adjustment of the related radio link is required or that an Initial DL DPCH Timing Adjustment has been performed by the DRNS. It also indicates whether the timing adjustment consists of a timing advance or a timing delay with respect to the SFN timing. The adjustment always consists of 256 chips.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
DL DPCH Timing Adjustment			ENUMERAT ED(timing	The size of the timing adjustment is 256 chips.
			advance, timing delay)	

#### 9.2.2.10 DL Power

Void

#### 9.2.2.10A DL Power Balancing Information

The *DL Power Balancing Information* IE provides information for power balancing to be activated in the relevant RL(s).

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Power Adjustment Type	М		9.2.2.28		—	
DL Reference Power	C-Common		DL power 9.2.1.21A	Power on DPCH or on F-DPCH	_	
DL Reference Power Information	C-Individual	1 <maxnoof RLs&gt;</maxnoof 			-	
>RL ID	М		9.2.1.49		-	
>DL Reference Power	М		DL power 9.2.1.21A	Power on DPCH or on F-DPCH	-	
Max Adjustment Step	C- CommonOrIn dividual		9.2.2.23		_	
Adjustment Period	C- CommonOrIn dividual		9.2.2.B		_	
Adjustment Ratio	C- CommonOrIn dividual		9.2.2.C		_	

Condition	Explanation
Common	The IE shall be present if the <i>Power Adjustment Type</i> IE is set to "Common".
Individual	The IE shall be present if the <i>Power Adjustment Type</i> IE is set to "Individual".
CommonOrIndividual	The IE shall be present if the <i>Power Adjustment Type</i> IE is set to "Common" or "Individual".

Range Bound	Explanation
maxnoofRLs	Maximum number of Radio Links for a UE.

#### 9.2.2.10B DL Power Balancing Activation Indicator

The DL Power Balancing Activation Indicator IE indicates that the power balancing is activated in the RL.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
DL Power Balancing			ENUMERATED(DL	
Activation Indicator			Power Balancing	
			Activated).	

#### 9.2.2.10C DL Reference Power Information

The *DL Reference Power Information* IE provides reference power of the power balancing to be used in the relevant RL(s).

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Common DL Reference Power	0		DL power 9.2.1.21A	Power on DPCH or on F-DPCH	-	
Individual DL Reference Power Information		0 <maxnoof RLs&gt;</maxnoof 			-	
>RL ID	M		9.2.1.49		_	
>DL Reference Power	М		DL power 9.2.1.21A	Power on DPCH or on F-DPCH	-	

Range bound	Explanation
maxnoofRLs	Maximum number of RLs for a UE.

#### 9.2.2.10D DL Power Balancing Updated Indicator

The *DL Power Balancing Updated Indicator* IE indicates that the power balancing related parameters is updated in the RL.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
DL Power Balancing			ENUMERATED(DL	
Updated Indicator			Power Balancing	
			Updated).	

#### 9.2.2.11 DL Scrambling Code

DL Scrambling code to be used by the RL. One cell may have multiple DL Scrambling codes available.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
DL Scrambling Code			INTEGER (015)	0= Primary scrambling code of the cell 115= Secondary scrambling code

# 9.2.2.12 Downlink Frame Type

Void

# 9.2.2.12A DPC Mode

The DPC Mode IE indicates the DPC mode to be applied TS 25.214 [10].

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
DPC Mode			ENUMERAT TED (Mode0, Mode1, )	Mode0: The DRNS shall estimate the UE transmitted TPC command and update the DL power in every slot Mode1: The DRNS shall estimate the UE transmitted TPC command over three slots and shall update the DL power in every three slots

#### 9.2.2.13 DRAC Control

The possibility to use DRAC control has been removed.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
DRAC Control			ENUMERAT ED (Not Used, Not- Requested)	The DRAC Control IE shall never be set to "Not Used".

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#### 9.2.2.13A DSCH FDD Information

Void.

# 9.2.2.13B DSCH FDD Information Response

Void.

#### 9.2.2.13Bb DSCH-RNTI

Void.

# 9.2.2.13C FDD DCHs To Modify

The FDD DCHs To Modify IE provides information for DCHs to be modified.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
FDD DCHs To Modify		1 <maxno ofDCHs&gt;</maxno 			_	
>UL FP Mode	0		9.2.1.67		_	
>ToAWS	0		9.2.1.58		_	
>ToAWE	0		9.2.1.57		_	
>Transport Bearer Request Indicator	М		9.2.1.61		-	
>DCH Specific Info		1 <maxno ofDCHs&gt;</maxno 			_	
>>DCH ID	М		9.2.1.16		_	
>>Transport Format Set	0		9.2.1.64	For the UL.	_	
>>Transport Format Set	0		9.2.1.64	For the DL.	-	
>Allocation/Retention Priority	0		9.2.1.1		_	
>>Frame Handling Priority	0		9.2.1.29		_	
>>Not Used	0		NULL		_	
>Guaranteed Rate Information	0		9.2.1.30M		YES	ignore
>>Traffic Class	0		9.2.1.58A		YES	ignore
>Unidirectional DCH Indicator	0		9.2.1.68B		YES	reject
>TNL QoS	0		9.2.1.56A		YES	ignore

Range bound	Explanation
maxnoofDCHs	Maximum number of DCHs for one UE.

#### 9.2.2.13D Enhanced DSCH PC

Void.

9.2.2.13E Enhanced DSCH PC Counter

Void.

9.2.2.13F Enhanced DSCH PC Indicator

Void.

9.2.2.13G Enhanced DSCH PC Wnd

Void.

#### 9.2.2.13H Enhanced DSCH Power Offset

Void.

#### 9.2.2.13I Enhanced Primary CPICH Ec/No

Energy per PN chip divided by the total received power spectral density measured on the Primary CPICH by the UE.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Enhanced Primary CPICH Ec/No			INTEGER(0. .49)	According to the mapping of the Primary CPICH Ec/lo UE measurement defined in ref. TS 25.133 [23] and TS 25.123 [24]

#### 9.2.2.14 FDD DL Channelisation Code Number

The DL Channelisation Code Number indicates the DL Channelisation Code number for a specific DL physical channel.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
FDD DL Channelisation Code Number			INTEGER(0. . 511)	According to the mapping in TS 25.213 [27]. The maximum value is equal to the DL spreading factor –1

#### 9.2.2.14A FDD DL Code Information

The *FDD DL Code Information* IE provides FDD DL Code information for all DPCHs or for the F-DPCH of one Radio Link.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
FDD DL Code Information		1 <maxnoof DLCodes</maxnoof 			-	
>DL Scrambling Code	М		9.2.2.11		_	
>FDD DL Channelisation Code Number	М		9.2.2.14		_	
<ul> <li>Transmission Gap Pattern</li> <li>Sequence Scrambling Code</li> <li>Information</li> </ul>	0		9.2.2.47B		_	

Range bound	Explanation
maxnoofDLCodes	Maximum number of DL Channelisation Codes for
	one UE.

# 9.2.2.15 FDD S-CCPCH Offset

Void.

#### 9.2.2.16 FDD TPC Downlink Step Size

This parameter indicates step size for the DL power adjustment.

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IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
FDD TPC Downlink Step			ENUMERAT	
Size			ED(0.5, 1,	
			1.5, 2,)	

# 9.2.2.16A First RLS Indicator

The First *RLS Indicator* IE indicates if a specific Radio Link and all Radio Links which are part of the same Radio Link Set, shall be considered as the first radio links established towards the UE or not.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
First RLS Indicator			ENUMERAT	
			ED(first RLS,	
			not first RLS)	

#### 9.2.2.17 Gap Position Mode

Void.

9.2.2.18 Gap Period (TGP)

Void.

#### 9.2.2.19 Gap Starting Slot Number (SN)

Void

# 9.2.2.19a HS-DSCH FDD Information

The HS-DSCH FDD Information IE is used for initial addition of HS-DSCH information to UE Context.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
HS-DSCH MAC-d Flows Information	М		9.2.1.30OA		_	
UE Capabilities		1			_	
Information						
>HS-DSCH Physical Layer Category	М		9.2.1.30Oa		_	
>1.28 Mcps TDD uplink physical channel capability	0		9.2.3.10D	Not to be used.	YES	ignore
>Number of Supported Carriers	0		ENUMERATE D ( One-one carrier, One- three carrier, Three-three carrier, One- six carrier, Tree-six carrier, Six-six carrier, )	Not to be used.	YES	reject
>Multi-carrier HS-DSCH Physical Layer Category	0		9.2.1.30Oa	Not to be used.	YES	ignore
MAC-hs Reordering Buffer Size for RLC-UM	Μ		9.2.1.34Ab		_	
CQI Feedback Cycle k	М		9.2.2.24a		_	
CQI Repetition Factor	C- CQICyclek		9.2.2.24c		_	
ACK-NACK Repetition Factor	М		9.2.2.a		_	
CQI Power Offset	М		9.2.2.24b		_	
ACK Power Offset	М		9.2.2.b		_	
NACK Power Offset	М		9.2.2.26a		_	
HS-SCCH Power Offset	0		9.2.2.19d		_	-
HARQ Preamble Mode	0		9.2.2.57		YES	ignore
MIMO Activation Indicator HS-DSCH MAC-d PDU Size Format	0		9.2.1.134 9.2.1.30OC	If not present, "Indexed MAC-d PDU Size" shall be used.	YES YES	reject reject
Sixtyfour QAM Usage Allowed Indicator	0		9.2.2.79A		YES	ignore
UE with enhanced HS- SCCH support indicator	0		NULL	UE supports enhanced HS- SCCH functionality: - UE supports different HS- SCCH in consecutive TTIs and, - in HS-SCCH- less operation mode the UE supports HS- SCCH orders Shall be	YES	ignore
Abort			D (Abort Enhanced HS Serving CC, )	ignored in Radio Link Setup and Radio Link Addition procedures.		10,000
UE Support Indicator Extension	0		9.2.2.103		YES	ignore

Power Offset For S-CPICH for MIMO Request Indicator	0	9.2.2.105	YES	ignore
Single Stream MIMO Activation Indicator	0	9.2.2.106	YES	reject

Condition	Explanation
CQICyclek	The IE shall be present if the CQI Feedback Cycle k IE is set to
	a value greater than 0.

# 9.2.2.19aa HS-DSCH FDD Secondary Serving Information

The *HS-DSCH FDD Secondary Serving Information* IE is used for initial addition of Secondary Serving HS-DSCH information to UE Context and defines the cell specific parameters for the secondary serving HS-DSCH Radio Link.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
HS-SCCH Power Offset	0		9.2.2.19d		-	
Sixtyfour QAM Usage Allowed Indicator	0		9.2.2.79A		-	
MIMO Activation Indicator	0		9.2.1.119		YES	reject
Single Stream MIMO Activation Indicator	0		9.2.2.106		YES	reject
Diversity Mode	0		9.2.2.8	If Diversity mode = "Closed loop mode 1" the procedure shall be rejected.	YES	reject
Transmit Diversity Indicator	0		9.2.2.48		YES	reject
Power Offset For S-CPICH for MIMO Request Indicator	0		9.2.2.105		YES	ignore

### 9.2.2.19b HS-DSCH FDD Information Response

The *HS-DSCH FDD Information Response* IE provides information for HS-DSCH MAC-d flows that have been established or modified. It also provides additional HS-DSCH information determined within the DRNS.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
HS-DSCH MAC-d		0 <max< td=""><td></td><td>•</td><td>_</td><td>-</td></max<>		•	_	-
Flow Specific		noofMA				
Information		CdFlow				
Response		S>				
>HS-DSCH MAC-d	М		9.2.1.300		_	
Flow ID						
>Binding ID	0		9.2.1.3		_	
>Transport Layer	0		9.2.1.62		_	
Address						
>HS-DSCH Initial	0		9.2.1.30Na		_	
Capacity Allocation						
HS-SCCH Specific		0 <max< td=""><td>   </td><td></td><td>-</td><td></td></max<>			-	
Information		noofHS				
Response		SCCHc				
		odes>				
>Code Number	М		INTEGER		_	
			(0127)			
HS-PDSCH And HS-	0		DL Scrambling		_	
SCCH Scrambling			Code			
Code			9.2.2.11			
Measurement Power	0		9.2.2.24d		_	
Offset						
HARQ Memory	0		9.2.1.116		_	
Partitioning						
User Plane Congestion	0		9.2.1.70C		YES	ignore
Fields Inclusion						J
HARQ Preamble Mode	0		9.2.2.58		YES	ignore
Activation Indicator						J
MIMO Information	0		9.2.2.78		YES	Ignore
Response						U
SixtyfourQAM DL	0		9.2.2.79B		YES	Ignore
Usage Indicator						Ŭ
HS-DSCH TB Size	0	l l	9.2.2.19G		YES	ignore
Table Indicator						
Power Offset For S-	0	l l	9.2.2.104		YES	ignore
CPICH for MIMO						Ŭ
Support of dynamic	0		9.2.2.126		YES	ignore
DTXDRX related HS-						Ŭ
SCCH order						

Range bound	Explanation
maxnoofMACdFlows	Maximum number of MAC-d flows.
maxnoofHSSCCHcodes	Maximum number of HS-SCCH codes.

# 9.2.2.19ba HS-DSCH FDD Secondary Serving Information Response

The HS-DSCH FDD Secondary Serving Information Response IE provides Secondary Serving HS-DSCH information determined within the DRNS.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
HS-SCCH Specific Secondary Serving Information Response		0 <maxn oofHSSC CHcodes &gt;</maxn 			-	
>Code Number	М		INTEGER (0127)		_	
HS-PDSCH And HS- SCCH Scrambling Code	0		DL Scrambling Code 9.2.2.11		-	
Measurement Power Offset	0		9.2.2.24d		_	
SixtyfourQAM DL Usage Indicator	0		9.2.2.79B		_	
HS-DSCH TB Size Table Indicator	0		9.2.2.19G		_	
MIMO Information Response	0		9.2.2.78		YES	ignore
Power Offset For S- CPICH for MIMO	0		9.2.2.104		YES	ignore

Range bound	Explanation		
maxnoofHSSCCHcodes	Maximum number of HS-SCCH codes.		

# 9.2.2.19bb HS-DSCH FDD Secondary Serving Information To Modify

The *HS-DSCH FDD Secondary Serving Information To Modify* IE is used for modification of cell specific Secondary Serving HS-DSCH information in a UE Context.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
HS-SCCH Power Offset	0		9.2.2.19d		—	
HS-SCCH Code Change Grant	0		9.2.1.30S		_	
Sixtyfour QAM Usage Allowed Indicator	0		9.2.2.79A		-	
MIMO Mode Indicator	0		9.2.1.135		YES	reject
Single Stream MIMO Mode Indicator	0		9.2.2.107		YES	reject
Diversity Mode	0		9.2.2.8	If Diversity mode = "Closed loop mode 1" the procedure shall be rejected.	YES	reject
Transmit Diversity Indicator	C- DiversityM ode		9.2.2.48		YES	reject
Non Cell Specific Tx Diversity	0		ENUMERAT ED (Tx Diversity,)	Value = "Tx Diversity": Diversity Mode and Transmit Diversity Indicator shall be non cell specific.	YES	reject
Power Offset For S-CPICH for MIMO Request Indicator	0		9.2.2.105		YES	ignore

Condition	Explanation
DiversityMode	The IE shall be present if Diversity Mode IE is present and not
	set to "None".

#### 9.2.2.19bc HS-DSCH FDD Secondary Serving Information To Modify Unsynchronised

The HS-DSCH FDD Secondary Serving Information To Modify Unsynchronised IE is used for modification of Secondary Serving HS-DSCH information in a UE Context with the Unsynchronised Radio Link Reconfiguration procedure.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
HS-SCCH Power Offset	0		9.2.2.19d		-	
Sixtyfour QAM Usage Allowed Indicator	0		9.2.2.79A		-	
MIMO Mode Indicator	0		9.2.1.135		YES	reject
Single Stream MIMO Mode Indicator	0		9.2.2.107		YES	reject
Power Offset For S- CPICH for MIMO Request Indicator	0		9.2.2.105		YES	ignore

#### 9.2.2.19c HS-DSCH FDD Update Information

The HS-DSCH FDD Update Information IE provides information for HS-DSCH to be updated. At least one IE shall be presented.

IE/Group name	Presence	Range	IE Type and Reference	Semantic Description	Criticality	Assigned Criticality
HS-SCCH Code Change Indicator	0		9.2.1.30R		-	
CQI Feedback Cycle k	0		9.2.2.24a		_	
CQI Repetition Factor	0		9.2.2.24c		-	
ACK-NACK Repetition Factor	0		9.2.2.a		_	
CQI Power Offset	0		9.2.2.24b		-	
ACK Power Offset	0		9.2.2.b		_	
NACK Power Offset	0		9.2.2.26a		_	
HS-PDSCH Code Change Indicator	0		9.2.1.30V		YES	ignore

#### 9.2.2.19ca HS-DSCH FDD Secondary Serving Update Information

The *HS-DSCH FDD Secondary Serving Update Information* IE provides information for HS-DSCH to be updated. At least one IE shall be presented.

IE/Group name	Presence	Range	IE Type and Reference	Semantic Description
HS-SCCH Code Change Indicator	0		9.2.1.30R	
HS-PDSCH Code Change Indicator	0		9.2.1.30V	This IE shall never be included. If received it shall be ignored.

#### 9.2.2.19C HS-DSCH configured indicator

The *HS-DSCH Configured Indicator* IE indicates the configuration of HS-DSCH for the UE. The *HS-DSCH Configured Indicator* IE shall be used for the configuration of the E-DPDCH IQ branch mapping TS 25.213 [21].

IE/Group Name	Presence	Range	IE type and reference	Semantics description
HS-DSCH Configured Indicator			ENUMERATED (HS- DSCH configured, HS-DSCH not configured)	Indicator of the HS-DSCH configuration for configuration of the E-DPDCHs IQ branch mapping TS 25.213 [21].

#### 9.2.2.19d HS-SCCH Power Offset

The *HS-SCCH Power Offset* IE indicates the Power offset relative to the pilot bits on the DL DPCCH except when FDPCH is configured. When F-DPCH is configured, the *HS-SCCH Power Offset* IE indicates the Power offset relative to the power of transmitted TPC bits on the F-DPCH.

IE/Group Name	Presence	Range	IE type and reference	Semantics description
HS-SCCH Power Offset			INTEGER (0255)	Step 0.25 dB, range -32- +31.75 dB

#### 9.2.2.19e E-DCH FDD Update Information

The *E-DCH FDD Update Information* IE provides information for E-DCH to be updated. At least one IE shall be present.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
E-DCH MAC-d Flow Specific Update Information		0 <maxn oofEDCH MACdFlo ws&gt;</maxn 			_	
>E-DCH MAC-d Flow ID	М		9.2.1.91		_	
>HARQ Process Allocation For 2ms Non-Scheduled Transmission Grant	0		HARQ Process Allocation for 2ms TTI 9.2.2.40		_	
HARQ Process Allocation For 2ms Scheduled Transmission Grant	0		HARQ Process Allocation for 2ms TTI 9.2.2.40		_	
E-DCH DL Control Channel Change Information		0 <maxn oofEDCH RLs&gt;</maxn 			GLOBAL	ignore
>E-DCH RL ID	М		RL ID 9.2.1.49		-	

Range bound	Explanation
maxnoofEDCHMACdFlows	Maximum number of E-DCH MAC-d flows.
maxnoofEDCHRLs	Maximum number of E-DCH RLs for one UE

#### 9.2.2.19f HS-DSCH Serving Cell Change Information

The HS-DSCH Serving Cell Change Information IE contains information which is used in HS-DSCH Serving Cell change.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
HS-PDSCH RL ID	М		RL ID 9.2.1.49		-	
HS-DSCH Information	0		HS-DSCH FDD Information 9.2.2.19a		_	
Continuous Packet Connectivity HS-SCCH less Information	0		9.2.2.74		YES	reject
Continuous Packet Connectivity DTX-DRX Information	0		9.2.2.72		YES	reject

# 9.2.2.19g HS-DSCH Serving Cell Change Information Response

The HS-DSCH Serving Cell Change Information Response IE contains information which is used in HS-DSCH Serving Cell change.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
CHOICE Serving Cell Change					_	
>Successful					-	
>>HS-DSCH FDD Information Response	М		9.2.2.19b		_	
>>HS-DSCH-RNTI	М		9.2.1.30P		-	
>>Continuous Packet Connectivity HS-SCCH less Information Response	0		9.2.2.75		YES	Ignore
>Unsuccessful					-	
>>Cause	М		9.2.1.5		_	

#### 9.2.2.19ga HS-DSCH Secondary Serving Cell Change Information Response

The HS-DSCH Secondary Serving Cell Change Information Response IE contains information which is used in HS-DSCH Secondary Serving Cell change.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
CHOICE Secondary Serving Cell Change				
>Successful				
>>HS-DSCH FDD Secondary Serving Information Response	М		9.2.2.19ba	
>>HS-DSCH-RNTI	Μ		9.2.1.30P	
>Unsuccessful				
>>Cause	М		9.2.1.5	

#### 9.2.2.19G HS-DSCH TB Size Table Indicator

The HS-DSCH TB Size Table Indicator IE is used to indicate that octet aligned table TS 25.321 [41] shall be used.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
HS-DSCH TB Size Table Indicator			ENUMERATED (octet aligned)	

# 9.2.2.19h E-DCH Serving Cell Change Information Response

The *E-DCH Serving Cell Change Information Response* IE contains information which is used in E-DCH Serving Cell change.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
CHOICE Serving Cell Change				
>Successful				
>>RL Information Response		0 <maxno ofRLs&gt;</maxno 		
>>>RL ID	М		9.2.1.49	
>>>E-DCH FDD DL	М		9.2.2.4D	
Control Channel				
Information				
>Unsuccessful				
>>Cause	М		9.2.1.5	

Range bound	Explanation
maxnoofRLs	Maximum number of RLs for one UE

#### 9.2.2.20 IB\_SG\_POS

Void.

9.2.2.21 IB\_SG\_REP

Void.

#### 9.2.2.21a Inner Loop DL PC Status

The *Inner Loop DL PC Status* IE indicates whether inner loop DL control shall be active or inactive for all radio links for the UE Context.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Inner Loop DL PC Status			ENUMERAT	
			ED(Active,	
			Inactive)	

#### 9.2.2.21b Initial DL DPCH Timing Adjustment Allowed

The *Initial DL DPCH Timing Adjustment Allowed* IE indicates that the DRNS is allowed to perform a timing adjustment (either a timing advance or a timing delay with respect to the SFN timing) when establishing a radio link.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Initial DL DPCH Timing			ENUMERATED (	
Adjustment Allowed			initial DL DPCH	
			Timing Adjustment	
			Allowed)	

#### 9.2.2.21A Limited Power Increase

The parameter is used for a more efficient use of the inner loop DL power control for non real time data.

If the limited power increase is used, DRNS shall use the limited power increase algorithm as specified in TS 25.214 [10], subclause 5.2.

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IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Limited Power Increase			ENUMERAT	
			ED(Used,	
			Not used,)	

#### 9.2.2.21B IPDL FDD Parameters

The IPDL FDD Parameters IE provides the information for the IPDL Configuration applied in FDD mode.

IE/Group name	Presence	Range	IE Type and Reference	Semantics Description
IP spacing FDD	М		ENUMERAT ED(5,7,10,1 5,20,30,40,5 0,)	See TS 25.214 [10]
IP length	М		ENUMERAT ED(5,10,)	See TS 25.214 [10]
IP offset	М		INTEGER(0. .9)	See TS 25.214 [10]
Seed	М		INTEGER(0. .63)	See TS 25.214 [10]
Burst mode parameters	0		9.2.1.4B	

#### 9.2.2.21C Length of TFCI2

Void.

- 9.2.2.21D Void
- 9.2.2.21E Void
- 9.2.2.21F Void
- 9.2.2.22 Max Adjustment Period

Void.

#### 9.2.2.23 Max Adjustment Step

Defines the maximum allowed value for the change of DL power level during a certain number of slots that can be utilised by the downlink power balancing algorithm. *Max Adjustment Step* IE defines a time period, in terms of number of slots, in which the accumulated power adjustments shall be maximum 1 dB. This value does not include the DL inner loop PC adjustment.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Max Adjustment Step			INTEGER (110)	Slots

#### 9.2.2.24 Max Number of UL DPDCHs

Maximum number of uplink DPDCHs during the connection. Needed by the rate matching algorithm.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Max Number of UL DPDCHs			INTEGER (16)	

#### 9.2.2.24a CQI Feedback Cycle k

The *CQI Feedback Cycle k* IE provides the duration of the CQI feedback cycle.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
CQI Feedback Cycle k			ENUMERAT ED (0, 2, 4, 8, 10, 20, 40, 80, 160,, 16, 32, 64)	Unit ms The allowed values for this IE depend on the configured CQI Repetition Factor and the HS-DSCH configuration as defined in TS 25.214 [10].

## 9.2.2.24b CQI Power Offset

The *CQI Power Offset* IE indicates Power offset used in the UL between the HS-DPCCH slots carrying CQI information and the associated DPCCH.

IE/Group Name	Presence	Range	IE type and reference	Semantics description
CQI Power Offset			INTEGER (08,)	According to mapping in ref. TS 25.213 [21] subclause 4.2.1.

## 9.2.2.24c CQI Repetition Factor

The CQI Repetition Factor IE indicates the consecutive repetition of the CQI.

IE/Group Name	Presence	Range	IE type and reference	Semantics description
CQI Repetition Factor			INTEGER	Step: 1
			(1,4,)	

#### 9.2.2.24d Measurement Power Offset

The Measurement Power Offset IE is used as defined in TS 25.214 [10] subclause 6A.2.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Measurement Power Offset			INTEGER (-1226)	Unit: dB Range: -613dB Step: 0.5dB

#### 9.2.2.24e Maximum Set of E-DPDCHs

The Maximum Set of E-DPDCHs as defined in TS 25.212 [9]. Needed by rate matching algorithm.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Maximum Set of E-DPDCHs			ENUMERATED (vN256, vN128, vN64, vN32, vN16, vN8, vN4, v2xN4, v2xN2, v2xN2, v2xN2plus2xN4,, v2xM2plus2xM4)	

#### 9.2.2.24f Void

#### 9.2.2.24A Void

#### 9.2.2.25 Min UL Channelisation Code Length

Minimum UL channelisation code length (spreading factor) of a DPDCH during the connection. Needed by rate matching algorithm.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Min UL Channelisation Code			ENUMERAT	
Length			ED(4,8,16,	
C C			32,64,128,	
			256)	

#### 9.2.2.26 Multiplexing Position

Multiplexing Position specifies whether fixed or flexible positions of transport channels shall be used in the physical channel.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Multiplexing Position			ENUMERAT	
			ED(Fixed,	
			Flexible)	

#### 9.2.2.26a NACK Power Offset

The *NACK Power Offset* IE indicates Power offset used in the UL between the HS-DPCCH slot carrying HARQ NACK information and the associated DPCCH.

IE/Group Name	Presence	Range	IE type and reference	Semantics description
NACK Power Offset			INTEGER (08,)	According to mapping in ref. TS 25.213 [21] subclause 4.2.1.

#### 9.2.2.26A Number of DL Channelisation Codes

This parameter notifies DRNS of the number of DL channelisation codes required for the Radio Link(s).

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Number of DL			INTEGER	
Channelisation Codes			(18)	

## 9.2.2.27 Pattern Duration (PD)

Void

#### 9.2.2.27a PC Preamble

Indicates DPDCH power control preamble length see ref. TS 25.105 [7].

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
PCP Preamble			INTEGER (07,)	In number of frames.

## 9.2.2.27A PDSCH Code Mapping

Void.

#### 9.2.2.27B Phase Reference Update Indicator

The Phase Reference Update Indicator IE indicates that the phase reference for the radio link needs to be changed.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Phase Reference Update indicator			ENUMERATED (Phase Reference needs to be changed)	

## 9.2.2.28 Power Adjustment Type

Defines the characteristic of the power adjustment.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Power Adjustment Type			ENUMERAT	
			ED(None,	
			Common,	
			Individual)	

## 9.2.2.29 Power Control Mode (PCM)

Void.

#### 9.2.2.30 Power Offset

This IE defines a power offset relative to the Downlink transmission power of a DPCH in case the UE Context is configured to use DPCH in the downlink.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Power Offset			INTEGER	Unit dB,
			(024)	Step 0.25 dB,
				Range 06 dB

#### 9.2.2.31 Power Resume Mode (PRM)

Void.

#### 9.2.2.31A Preamble Signatures

Void.

## 9.2.2.32 Primary CPICH Ec/No

Energy per chip divided by the power density per band measured on the Primary CPICH by the terminal.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Primary CPICH Ec/No			INTEGER (-30+30)	Unit dB, step 1 dB The value range is typically within the range of -24 dB to 0 dB according to the CPICH Ec/Io UE measurement defined in ref. TS 25.133 [23].

#### 9.2.2.32A Primary CPICH Usage For Channel Estimation

The *Primary CPICH Usage For Channel Estimation* IE indicates whether the Primary CPICH may be used for channel estimation or not.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Primary CPICH Usage For Channel Estimation			ENUMERATED (Primary CPICH may be used, Primary CPICH shall not be used)	

## 9.2.2.33 Propagation Delay (PD)

Propagation delay is the one-way propagation delay of the radio signal from the UE to the Node B. If the range of the *Propagation Delay* IE is insufficient to represent the measured value, it shall be set to its maximum value, and the *Extended Propagation Delay* IE (see 9.2.2.33a) shall be used to represent the propagation delay value.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Propagation Delay			INTEGER	Unit: Chips. Step: 3 chips.
			(0255)	0=0 chips,
				1=3 chips,

## 9.2.2.33a Extended Propagation Delay

The Extended Propagation delay is the one-way propagation delay of the radio signal from the MS to the Node B. It shall be used if the *Propagation Delay* IE (see 9.2.2.33) cannot represent the measured value, due to range limitation.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Extended Propagation Delay			INTEGER (2551023)	Continuation of intervals as defined in TS 25.133 [23]. Unit: chip Range: 7653069 chips Step: 3 chips

## 9.2.2.33A PRACH Minimum Spreading Factor

Void.

## 9.2.2.34 QE-Selector

Void.

9.2.2.34a Qth Parameter

Void.

#### 9.2.2.34A RACH Sub Channel Numbers

Void.

#### 9.2.2.35 RL Set ID

The RL Set ID uniquely identifies one RL Set within a UE Context.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
RL Set ID			INTEGER	
			(031)	

## 9.2.2.35a RL Specific E-DCH Information

The RL Specific E-DCH Information IE provides RL specific E-DCH Information.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
RL Specific E-DCH Information		1 <maxnoof EDCHMACd Flows&gt;</maxnoof 			-	
>E-DCH MAC-d Flow ID	М		9.2.1.91		_	
>Binding ID	0		9.2.1.3	Shall be ignored if bearer establishment with ALCAP.	-	
>Transport Layer Address	0		9.2.1.62	Shall be ignored if bearer establishment with ALCAP.	_	
>Transport Bearer Not Requested Indicator	0		9.2.2.4S		YES	ignore
E-AGCH Power Offset	0		9.2.2.61		_	
E-RGCH Power Offset	0		9.2.2.62		-	
E-HICH Power Offset	0		9.2.2.63		_	

Range Bound	Explanation
maxnoofEDCHMACdFlows	Maximum number of E-DCH MAC-d flows

#### 9.2.2.35A Received Total Wide Band Power

The parameter indicates the Received total wide band power in a cell, see ref. TS 25.215 [11].

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Received Total Wide			INTEGER(0.	According to mapping in TS
Band Power			.621)	25.133 [23].

9.2.2.36	S-Field Length

Void.

- 9.2.2.36A Void
- 9.2.2.37 Scrambling Code Change

Void.

9.2.2.37A Scrambling Code Number

Void.

9.2.2.37B Secondary CCPCH Info

Void.

#### 9.2.2.38 Secondary CCPCH Slot Format

Void.

## 9.2.2.38A Secondary CPICH Information

The Secondary CPICH Information IE provides the information on the Secondary CPICH when it can be used for channel estimation.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
DL Scrambling Code	Μ		9.2.2.11	
FDD DL Channelisation	Μ		9.2.2.14	
Code Number				

## 9.2.2.38B Secondary CPICH Information Change

The Secondary CPICH Information Change IE indicates modification of information of the Secondary CPICH for channel estimation.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
CHOICE Secondary CPICH Information Change	М			
>New Secondary CPICH				
>>Secondary CPICH Information	М		9.2.2.38A	
>Secondary CPICH Shall Not Be Used			NULL	

## 9.2.2.38C Serving E-DCH RL

The Serving E-DCH RL IE indicates whether the Serving E-DCH RL is in the DRNS.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
CHOICE Serving E-DCH RL	Μ			
>Serving E-DCH RL in this DRNS				
>>Serving E-DCH RL ID	М		RL ID 9.2.1.49	
>Serving E-DCH RL not in this DRNS			NULL	

#### 9.2.2.39 Slot Number (SN)

Void

## 9.2.2.39a Split Type

Void.

#### 9.2.2.39A SRB Delay

Indicates the number of frames after the PC Preamble period during which transmission of data on some RRC Signalling Bearers shall be prohibited by UE in accordance with ref. TS 25.331 [16].

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
SRB Delay			INTEGER(0. .7,)	In number of frames.

## 9.2.2.40 SSDT Cell Identity

Void.

## 9.2.2.40A SSDT Cell Identity for EDSCHPC

Void.

9.2.2.41 SSDT Cell Identity Length

Void.

9.2.2.42 SSDT Indication

Void.

## 9.2.2.43 SSDT Support Indicator

The possibility to use SSDT Support Indicator has been removed.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
SSDT Support Indicator			ENUMERAT ED(Not Used, SSDT not supported).	The SSDT Support Indicator IE shall never be set to "Not Used".

#### 9.2.2.44 STTD Indicator

Void.

#### 9.2.2.45 STTD Support Indicator

The STTD Support Indicator indicates whether the STTD can be applied to DL DPCH and F-DPCH in the cell or not.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
STTD Support Indicator			ENUMERAT	
			ED(STTD	
			Supported,	
			STTD not	
			Supported).	

#### 9.2.2.45A Synchronisation Indicator

The *Synchronisation Indicator* IE indicates that Timing Maintained Synchronisation shall be used at start of Radio Link, see also TS 25.214 [10].

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Synchronisation Indicator			ENUMERATED	
			(Timing Maintained	
			Synchronisation,)	

#### 9.2.2.46 TFCI Signalling Mode

This parameter indicates has only one value with any meaning.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
TFCI Signalling Mode			ENUMERAT ED(Normal, Not Used)	The value "Not Used" shall not be used by the SRNC. The procedure shall be rejected by the DRNC if the value "Not Used" is received.

#### 9.2.2.46A TFCI PC Support Indicator

Void.

#### 9.2.2.47 Transmission Gap Distance (TGD)

Void.

#### 9.2.2.47A Transmission Gap Pattern Sequence Information

Defines the parameters for the compressed mode gap pattern sequence. For details see TS 25.331 [16].

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Transmission Gap Pattern Sequence Information		1 <maxtgps></maxtgps>		
>TGPSI Identifier	M		INTEGER(1< MaxTGPS>)	Transmission Gap Pattern Sequence Identifier Establish a reference to the compressed mode pattern sequence. Up to <maxtgps> simultaneous compressed mode pattern sequences can be used.</maxtgps>
>TGSN	М		INTEGER(01 4)	Transmission Gap Starting Slot Number The slot number of the first transmission gap slot within the TGCFN.
>TGL1	M		INTEGER(11 4)	The length of the first Transmission Gap within the transmission gap pattern expressed in number of slots.
>TGL2	0		INTEGER(11 4)	The length of the second Transmission Gap within the transmission gap pattern. If omitted, then TGL2=TGL1.
>TGD	M		INTEGER (0, 15 269)	Transmission gap distance indicates the number of slots between the starting slots of two consecutive transmission gaps within a transmission gap pattern. If there is only one transmission gap in the transmission gap pattern, this parameter shall be set to 0 (0 =undefined).
>TGPL1	М		INTEGER(1 144,)	The duration of transmission gap pattern 1 in frames.
>Not-to-be-used-1	0		INTEGER(1 144,)	This IE shall never be included in the IE group. If received it shall be ignored.
>UL/DL mode	M		ENUMERATE D(UL only, DL only, UL/DL)	Defines whether only DL, only UL, or combined UL/DL compressed mode is used.
>Downlink Compressed Mode Method	C-DL		ENUMERATE D(not Used, SF/2, higher layer scheduling,)	Method for generating downlink compressed mode gap The <i>Downlink Compressed Mode</i> <i>Method</i> IE shall never be set to "not Used".
>Uplink Compressed Mode Method	C-UL		ENUMERATE D(SF/2, higher layer scheduling,)	Method for generating uplink compressed mode gap.
>Downlink Frame Type	М		ENUMERATE D(A, B,)	Defines if frame type "A" or "B" shall be used in downlink compressed mode.
>DeltaSIR1	М		INTEGER(03 0)	Delta in SIR target value to be set in the DRNS during the frame containing the start of the first transmission gap in the transmission gap pattern (without including the effect of the bit-rate increase) Step 0.1 dB, Range 0-3dB
>DeltaSIRafter1	M		INTEGER (030)	Delta in SIR target value to be set in the DRNS one frame after the frame containing the start of the first transmission gap in the

			transmission gap pattern,. Step 0.1 dB, Range 0-3dB
>DeltaSIR2	0	INTEGER (030)	Delta in SIR target value to be set in the DRNS during the frame containing the start of the second transmission gap in the transmission gap pattern (without including the effect of the bit-rate increase) When omitted, DeltaSIR2 = DeltaSIR1. Step 0.1 dB, Range 0-3dB
>DeltaSIRafter2	0	INTEGER (030)	Delta in SIR target value to be set in the DRNS one frame after the frame containing the start of the second transmission gap in the transmission gap pattern. When omitted, DeltaSIRafter2 = DeltaSIRafter1. Step 0.1 dB, Range 0-3dB

Condition	Explanation
UL	The IE shall be present if the UL/DL mode IE is set to "UL only" or
	"UL/DL".
DL	The IE shall be present if the UL/DL mode IE is set to "DL only" or
	"UL/DL".

Range bound	Explanation
maxTGPS	Maximum number of transmission gap pattern sequences.

## 9.2.2.47B Transmission Gap Pattern Sequence Scrambling Code Information

This IE indicates whether or not the alternative scrambling code will be used in the DRNS for the Downlink compressed mode method "SF/2" in the Transmission Gap Pattern Sequence. For details see ref. TS 25.331 [16].

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Transmission Gap Pattern Sequence Scrambling Code Information			ENUMERAT ED(code change, no code change)	Code change = alternative scrambling code will be used.

## 9.2.2.48 Transmit Diversity Indicator

The Transmit Diversity Indicator indicates whether Transmit Diversity shall be active or not.

IE/G	roup Name	Presence	Range	IE Type and Reference	Semantics Description
Transmit D	iversity Indicator			ENUMERAT	
	-			ED(active,	
				inactive)	

## 9.2.2.49 Transmit Gap Length (TGL)

Void

#### 9.2.2.50 Tx Diversity Indicator

The Tx Diversity Indicator indicates if the following conditions are satisfied:

- Primary CPICH is broadcast from two antennas
- STTD is applied to Primary CCPCH
- TSTD is applied to Primary SCH and Secondary SCH

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Tx Diversity Indicator			ENUMERAT	
			ED(true,	
			false).	

#### 9.2.2.50A UE Support Of Dedicated Pilots For Channel Estimation

Void.

#### 9.2.2.50B UE Support Of Dedicated Pilots For Channel Estimation Of HS-DSCH

Void.

#### 9.2.2.51 UL/DL Compressed Mode Selection

Void

#### 9.2.2.52 UL DPCCH Slot Format

Indicates the slot format used in DPCCH in UL, according to ref. TS 25.211 [8].

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
UL DPCCH Slot Format			INTEGER (05,)	Value 5 shall not be used. If value 5 is received, the procedure shall be rejected.

#### 9.2.2.52A UL DPDCH Indicator for E-DCH operation

This IE indicated whether the requested configuration actually contain an UL DPDCH.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
UL DPDCH Indicator for E-			ENUMERAT	
DCH operation			ED (UL-	
-			DPDCH	
			present, UL-	
			DPDCH not	
			present)	

#### 9.2.2.53 UL Scrambling Code

The UL Scrambling Code is the scrambling code used by UE. Every UE has its specific UL Scrambling Code.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
UL Scrambling Code Number	Μ		INTEGER (0 2 <sup>24</sup> -1)	
UL Scrambling Code Length	M		ENUMERAT ED(Short, Long)	

#### 9.2.2.54 Uplink Delta SIR

Void

#### 9.2.2.55 Uplink Delta SIR After

Void

## 9.2.2.56 DPC Mode Change Support Indicator

The DPC Mode Change Support Indicator IE indicates that the particular cell is capable to support DPC mode change.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
DPC Mode Change Support Indicator			ENUMERATTE D (DPC Mode Change Supported)	

## 9.2.2.57 HARQ Preamble Mode

The HARQ Preamble Mode IE is used as described as described in ref TS 25.214 [10].

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
HARQ Preamble Mode			ENUMERATED(mod e0, mode1)	"mode0" means HARQ Preamble Mode =0 "mode1" means HARQ Preamble Mode =1

## 9.2.2.58 HARQ Preamble Mode Activation Indicator

The HARQ Preamble Activation Indicator indicates if the configured HARQ Preamble Mode has been activated in the DRNS.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
HARQ Preamble Mode			ENUMERAT	
Activation Indicator			ED(HARQ	
			Preamble	
			Mode	
			Activated).	

## 9.2.2.59 Frequency Band Indicator

The Frequency Band Indicator IE indicates frequency band as defined in TS 25.104 [6].

IE/Group Name	Presence	Range	IE type and	Semantics description
			reference	
Frequency Band Indicator			ENUMERAT	
			ED (Band I,	
			Band II,	
			Band III,	
			Band IV,	
			Band V,	
			Band VI,	
			Band VII,	
			Band VIII,	
			Band IX,	
			Band X,	
			Band XI,	
			Band XII,	
			Band XIII,	
			Band XIV,	
			Band XV,	
			Band XVI,	
			Band XVII,	
			Band XVIII,	
			Band XIX,	
			Band XX,	
			Band XXI,	
			Band	
			XXII,)	

#### 9.2.2.60 E-RGCH Release Indicator

Indicates that the E-RGCH is released..

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
E-RGCH Release Indicator			ENUMERATED (E- RGCH released)	

## 9.2.2.61 E-AGCH Power Offset

The *E-AGCH Power Offset* IE indicates the Power offset relative to the pilot bits on the DL DPCCH except when F-DPCH is configured. When F-DPCH is configured, the *E-AGCH Power Offset* IE indicates the Power offset relative to the power of transmitted TPC bits on the F-DPCH.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
E-AGCH Power Offset			INTEGER (0255,)	Unit: dB Range: -32 +31.75 dB Step: 0.25 dB

## 9.2.2.61A E-AGCH Table Choice

The E-AGCH Table Choice IE indicates the choice of the E-AGCH table in TS 25.212 [9].

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
E-AGCH Table Choice	Μ		ENUMERATED (Table 16B, Table 16B-1,)	Table 16B indicates the Table 16B: Mapping of Absolute Grant Value in TS 25.212 [9] and Table 16B-1 indicates the Table 16B.1: Alternative Mapping of Absolute Grant Value in TS 25.212 [9].

## 9.2.2.62 E-RGCH Power Offset

The *E-RGCH Power Offset* IE indicates the Power offset relative to the pilot bits on the DL DPCCH except when F-DPCH is configured. When F-DPCH is configured, the *E-RGCH Power Offset* IE indicates the Power offset relative to the power of transmitted TPC bits on the F-DPCH.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
E-RGCH Power Offset			INTEGER	Unit: dB
			(0255,)	Range: -32 +31.75 dB
				Step: 0.25 dB

## 9.2.2.63 E-HICH Power Offset

The *E-HICH Power Offset* IE indicates the Power offset relative to the pilot bits on the DL DPCCH except when F-DPCH is configured. When F-DPCH is configured, the *E-HICH Power Offset* IE indicates the Power offset relative to the power of transmitted TPC bits on the F-DPCH.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
E-HICH Power Offset			INTEGER	Unit: dB
			(0255,)	Range: -32 +31.75 dB Step: 0.25 dB

## 9.2.2.64 E-RGCH 2-Index-Step Threshold

The E-RGCH 2-index-step-threshold IE is used to determine the Serving Grant.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
E-RGCH 2-Index-Step Threshold			INTEGER (037)	Refers to an index in the "SG- Table" (see TS 25.321 [41]).

## 9.2.2.65 E-RGCH 3-Index-Step Threshold

The *E-RGCH 3-index-step-threshold* IE is used to determine the Serving Grant.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
E-RGCH 3-Index-Step Threshold			INTEGER (037)	Refers to an index in the "SG- Table" (see TS 25.321 [41]).

## 9.2.2.66 HARQ Info for E-DCH

The HARQ Info for E-DCH is used to indicate the use of redundancy version (RV) for the EDCH HARQ transmissions.

IE/Group name	Presence	Range	IE Type and Reference	Semantics description
HARQ Info for E-DCH			ENUMERATED (rv0, rvtable)	"rv0" indicates that the UE will only use E_DCH RV index 0. "rvtable" indicates that the UE will use an RSN based RV index as specified in TS 25.212 [9]

## 9.2.2.67 DCH Indicator For E-DCH-HSDPA Operation

The DCH Indicator For E-DCH-HSDPA Operation parameter indicates whether *DCH Information* IE should be ignored in the message in which the *DCH Indicator For E-DCH-HSDPA Operation* IE is included.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
DCH Indicator For E-DCH- HSDPA Operation			ENUMERATED (DCH not present)	

#### 9.2.2.68 E-RGCH and E-HICH Channelisation Code Validity Indicator

The *E*-*RGCH* and *E*-HICH Channelisation Code Validity Indicator parameter indicates if the *E*-*RGCH/E*-HICH Channelisation Code IE shall be ignored in the *E*-DCH FDD DL Control Channel Information IE in which the *E*-*RGCH* and *E*-HICH Channelisation Code Validity Indicator IE was included.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
E-RGCH and E-HICH			ENUMERATED	
Channelisation Code Validity			(E-RGCH and E-	
Indicator			<b>HICH Channelisation</b>	
			Code not valid)	

## 9.2.2.69 E-DCH Minimum Set E-TFCI Validity Indicator

The *E-DCH Minimum Set E-TFCI Validity Indicator* parameter indicates if the *E-DCH Minimum Set E-TFCI* IE shall be ignored in the *E-DCH Transport Format Combination Set Information* IE in which the *E-DCH Minimum Set E-TFCI Validity Indicator* IE was included.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
E-DCH Minimum Set E-TFCI			ENUMERATED	
Validity Indicator			(E-DCH Minimum	
			Set E-TFCI not valid)	

## 9.2.2.70 Fast Reconfiguration Mode

The *Fast Reconfiguration Mode* IE is used to notify the DRNS that the SRNC would like to use the activation time "when the UE is detected on the new configuration" as the timing for the reconfiguration.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Fast Reconfiguration Mode			ENUMERATED( Fast)	

## 9.2.2.71 Fast Reconfiguration Permission

The *Fast Reconfiguration Permission* IE is used to indicate to the SRNC that the DRNS can apply the activation time "when the UE is detected on the new configuration" for this reconfiguration.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Fast Reconfiguration Permission			ENUMERATED ( Allowed)	

# 9.2.2.72 Continuous Packet Connectivity DTX-DRX Information

The *Continuous Packet Connectivity DTX-DRX Information* IE defines the parameters used for Continuos Packet Connectivity DTX-DRX operation (see ref. TS 25.214 [10]).

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
UE DTX DRX Offset	М		INTEGER (0159)	Units of subframes. Offset of the UE DTX and DRX cycles at the given TTI
Enabling Delay	М		ENUMERATED (0, 1, 2, 4, 8, 16, 32, 64, 128)	Units of radio frames
DTX Information		1		
>CHOICE E-DCH TTI Length	М			
>>2ms				
>>>UE DTX Cycle 1	М		ENUMERATED (1, 4, 5, 8, 10, 16, 20)	Units of subframes
>>>UE DTX Cycle 2	М		ENUMERATED (4, 5, 8, 10, 16, 20, 32, 40, 64, 80, 128, 160)	Units of subframes
>>>MAC DTX Cycle	М		ENUMERATED (1, 4, 5, 8, 10, 16, 20)	Units of subframes
>>10ms	ļ			
>>>UE DTX Cycle 1	М		ENUMERATED (1, 5, 10, 20)	Units of subframes
>>>UE DTX Cycle 2	М		ENUMERATED (5, 10, 20, 40, 80, 160)	Units of subframes
>>>MAC DTX Cycle	М		ENUMERATED (5, 10, 20)	Units of subframes
Inactivity Threshold for UE DTX Cycle 2	М		ENUMERATED (1, 4, 8, 16, 32, 64, 128, 256)	Units of E-DCH TTIs
>UE DTX Long Preamble	М		ENUMERATED (2,4,15)	Units of slots
>MAC Inactivity Threshold	М		ENUMERATED (1, 2, 4, 8, 16, 32, 64, 128, 256, 512, Infinity)	Units of E-DCH TTIs
>CQI DTX Timer	M		ENUMERATED (0, 1, 2, 4, 8, 16, 32, 64, 128, 256, 512, Infinity)	Units of subframes
>UE DPCCH burst1	М		ENUMERATED (1, 2, 5)	Units of subframes
>UE DPCCH burst2	М		ENÚMERATED (1, 2, 5)	Units of subframes
DRX Information		01		
>UE DRX Cycle	М		ENUMERATED (4, 5, 8, 10, 16, 20)	Units of subframes
>Inactivity Threshold for UE DRX Cycle	М		ENUMERATED (0, 1, 2, 4, 8, 16, 32, 64, 128, 256, 512)	Units of subframes
>Inactivity Threshold for UE Grant Monitoring	М		ENUMERATED (0, 1, 2, 4, 8, 16, 32, 64, 128, 256)	Units of E-DCH TTIs
>UE DRX Grant Monitoring	M		BOOLEAN	True: DRX Grant Monitoring shall be applied. False: DRX Grant Monitoring shall not be applied.

## 9.2.2.73 Continuous Packet Connectivity DTX-DRX Information To Modify

The Continuous Packet Connectivity DTX-DRX Information To Modify IE is used for modification of Continuous Packet Connectivity DTX-DRX information in a UE Context. The Continuous Packet Connectivity DTX-DRX Information To Modify IE shall include at least one of the following IE.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
UE DTX DRX Offset	0		INTEGER (0159)	Units of subframes. Offset of the UE DTX and DRX cycles at the given TTI
Enabling Delay	0		ENUMERATED (0, 1, 2, 4, 8, 16, 32, 64, 128)	Units of radio frames
CHOICE DTX Information To Modify	0			
>Modify				
>>CHOICE E-DCH TTI Length	0			
>>>2ms				
>>>>UE DTX Cycle 1	0		ENUMERATED (1, 4, 5, 8, 10, 16, 20)	Units of subframes
>>>>UE DTX Cycle 2	0		ENUMERATED (4, 5, 8, 10, 16, 20, 32, 40, 64, 80, 128, 160)	Units of subframes
>>>>MAC DTX Cycle	0		ENUMERATED (1, 4, 5, 8, 10, 16, 20)	Units of subframes
>>>10ms	1			
>>>>UE DTX Cycle 1	0		ENUMERATED (1, 5, 10, 20)	Units of subframes
>>>>UE DTX Cycle 2	0		ENUMERATED (5, 10, 20, 40, 80, 160)	Units of subframes
>>>MAC DTX Cycle	0		ENUMERATED (5, 10, 20)	Units of subframes
>>Inactivity Threshold for UE DTX Cycle 2	0		ENUMERATED (1, 4, 8, 16, 32, 64, 128, 256)	Units of E-DCH TTIs
>>UE DTX Long Preamble	0		ENUMERATED (2,4,15)	Units of slots
>>MAC Inactivity Threshold	0		ENUMERATED (1, 2, 4, 8, 16, 32, 64, 128, 256, 512, Infinity)	Units of E-DCH TTIs
>>CQI DTX Timer	0		ENUMERATED (0, 1, 2, 4, 8, 16, 32, 64, 128, 256, 512, Infinity)	Units of subframes
>>UE DPCCH burst1	0		ENUMERATED (1, 2, 5)	Units of subframes
>>UE DPCCH burst2	0		ENUMERATED (1, 2, 5)	Units of subframes
>Deactivate				
CHOICE DRX Information To Modify	0			
>Modify				
>>UE DRX Cycle	0		ENUMERATED (4, 5, 8, 10, 16, 20)	Units of subframes
>>Inactivity Threshold for UE DRX Cycle	0		ENUMERATED (0, 1, 2, 4, 8, 16, 32, 64, 128, 256, 512)	Units of subframes
>>Inactivity Threshold for UE Grant Monitoring	0		ENUMERATED (0, 1, 2, 4, 8, 16, 32, 64, 128, 256)	Units of E-DCH TTIs
>>UE DRX Grant Monitoring	0		BOOLEÁN	True = DRX Grant Monitoring shall be applied. False = DRX Grant Monitoring shall not be applied.

>Deactivate		NULL	

#### 9.2.2.74 Continuous Packet Connectivity HS-SCCH less Information

The *Continuous Packet Connectivity HS-SCCH less Information* IE defines the parameters used for Continuos Packet Connectivity HS-SCCH less operation (see ref. TS 25.214 [10]).

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Transport Block Size List		1 <maxno ofHS- DSCHTBS sHS- SCCHless &gt;</maxno 		
>Transport Block Size Index	М		INTEGER (1maxnoofHS-DSC HTBSs)	
>HS-PDSCH Second Code Support	М		BOOLÉAN	True = The second HS- PDSCH code shall also be used False = The second HS- PDSCH code shall not be used

Range Bound	Explanation
maxnoofHS-DSCHTBSsHS-SCCHless	Maximum number of HS-DSCH Transport Block Sizes used for HS- SCCH-less operation
maxnoofHS-DSCHTBSs	Maximum number of HS-DSCH Transport Block Sizes

## 9.2.2.75 Continuous Packet Connectivity HS-SCCH less Information Response

The *Continuous Packet Connectivity HS-SCCH less Information Response* IE provides information for HS-SCCH less operation determined within the Node B (see ref. TS 25.214 [10]).

IE/Group Name	Presence	Range	IE Type and	Semantics Description	
			Reference		
HS-PDSCH First Code Index	Μ		INTEGER	Index of first HS-PDSCH code	
			(1maxHS-PDSCHC		
			odeNrComp-1)		
HS-PDSCH Second Code	0		INTEGER	Index of second HS-PDSCH	
Index			(1maxHS-PDSCHC	code. See Note 1.	
			odeNrComp-1)		
NOTE 1: The "HS-PDSCH second code index" value is the value of IE "HS-PDSCH First Code Index" incremented					
by 1.					

Range Bound	Explanation
maxHS-PDSCHCodeNrComp	Maximum number of codes at the defined spreading factor, within the
	complete code tree

## 9.2.2.75A Continuous Packet Connectivity HS-SCCH Less Deactivate Indicator

The Continuous Packet Connectivity HS-SCCH Less Deactivate Indicator IE is used to deactive HS-SCCH less operation.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Continuous Packet	М		NULL	
Connectivity HS-SCCH Less				
Deactivate Indicator				

#### 9.2.2.76 MIMO Activation Indicator

Void

#### 9.2.2.77 MIMO Mode Indicator

Void

#### 9.2.2.78 MIMO Information Response

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
CHOICE Pilot Configuration	М			
>Primary and Secondary CPICH				
>>MIMO S-CPICH Channelisation Code	М		INTEGER (0255)	
>Normal and Diversity Primary CPICH			NULL	
MIMO N/M Ratio	М		ENUMERATED (1/2, 2/3, ¾, 4/5, 5/6, 6/7, 7/8, 8/9, 9/10, 1/1,)	

## 9.2.2.79 SixtyfourQAM DL Support Indicator

Void.

## 9.2.2.79A Sixtyfour QAM Usage Allowed Indicator

The *Sixtyfour QAM Usage Allowed Indicator* IE indicates whether the Node B is allowed to use 64 QAM modulation for HS-DSCH transmission or not.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Sixtyfour QAM Usage Allowed Indicator	М		ENUMERATED (Allowed, Not- Allowed)	

## 9.2.2.79B SixtyfourQAM DL Usage Indicator

The *SixtyfourQAM DL Usage Indicator* IE indicates if the Node B is using 64 QAM modulation for the HS-DSCH transmission, or if the Node B is not using 64 QAM modulation.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
SixtyfourQAM DL Usage Indicator			ENUMERATED (SixtyfourQAM DL Used, SixtyfourQAM DL Not Used)	

9.2.2.80 Enhanced FACH Support Indicator

Void.

9.2.2.81 Enhanced PCH Support Indicator

Void.

9.2.2.82 Priority Queue Information for Enhanced FACH/PCH

Void.

9.2.2.83 SixteenQAM UL Information

Void.

9.2.2.84 SixteenQAM UL Information To Modify

Void.

#### 9.2.2.85 F-DPCH Slot Format

The F-DPCH Slot Format IE defines the F-DPCH slot format for the TPC bits, as defined in TS 25.211 [8].

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
F-DPCH Slot Format			INTEGER (09)	

#### 9.2.2.86 F-DPCH Slot Format Support Request

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
F-DPCH Slot Format Support Request			NULL	

## 9.2.2.87 Max UE DTX Cycle

The *Max UE DTX Cycle* IE defines the maximum UE DTX cycle supported by the Node B for Continuous Packet Connectivity DTX-DRX operation.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Max UE DTX Cycle	М		ENUMERATED (v5, v10, v20, v40, v64,	Units of subframes
			v80, v128, v160,)	

9.2.2.88 Enhanced PCH *Capability* 

Void.

9.2.2.89 MAC-ehs Reset Timer

Void.

## 9.2.2.90 SixteenQAM UL Operation Indicator

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
SixteenQAM UL Operation	0		ENUMERATED	
Indicator			(Activate,	
			Deactivate)	

## 9.2.2.91 E-TFCI Boost Information

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
E-TFCI BetaEC Boost	М		INTEGER (0127,)	E-TFCI threshold beyond which boosting of E-DPCCH is enabled
UL Delta T2TP	C-E- TFClboost 127		INTEGER (06,)	Total E-DPDCH power across all codes to the combined power of DPCCH and E-DPCCH

Condition	Explanation
E-TFClboost127	The IE shall be present if the E-TFCI BetaEC Boost
	IE value is not set o 127.

## 9.2.2.92 Common E-DCH Support Indicator

This IE indicates the Common E-DCH Support.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Common E-DCH Support Indicator			NULL	

## 9.2.2.93 Common E-DCH MAC-d Flow Specific Information

The *Common E-DCH MAC-d Flow Specific Information* IE provides information associated to Common E-DCH MAC-d Flow used for Common E-DCH.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Common E-DCH MAC-d Flow Specific Information		1 <maxno ofEDCHM ACdFlows &gt;</maxno 		
>Common E-DCH MAC-d Flow ID	M		E-DCH MAC-d flow 9.2.1.91	
>Maximum Number Of Retransmissions For E-DCH	М		9.2.1.100	
>E-DCH HARQ Power Offset FDD	М		9.2.2.4L	
>E-DCH MAC-d Flow Multiplexing List	0		9.2.1.89	
>Common E-DCH Logical Channel information	M	1 <maxno oflogicalch annels&gt;</maxno 		
>>Logical Channel ID	Μ		9.2.1.97	
>>Maximum MAC-d PDU Size Extended	Μ		MAC PDU Size Extended 9.2.1.34D	

Range bound	Explanation
maxnoofEDCHMACdFlows	Maximum number of E-DCH MAC-d Flows
maxnooflogicalchannels	Maximum number of logical channels

## 9.2.2.94 Counting Information

The Counting Information IE provides counting result for MBMS service for each cell.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Counting Information		1 <maxno ofFDDneig hbours&gt;</maxno 		
>C-ID	М		9.2.1.6	
>Counting Result	М		INTEGER (063)	The number of Ues listen to the MBMS Service. If the number of the UE is more than 63, this IE set to 63.

Range bound	Explanation
maxnoofFDDneighbours	Maximum number of neighbouring FDD cell for one cell.

#### 9.2.2.95 Transmission Mode Information

The Transmission Mode Information IE provides transmission mode for MBMS service for each cell.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Counting Information		1 <maxno ofFDDneig hbours&gt;</maxno 		
>C-ID	М		9.2.1.6	
>Transmission Mode	М		9.2.1.81	

Range bound	Explanation
maxnoofFDDneighbours	Maximum number of neighbouring FDD cell for one cell.

## 9.2.2.96 MBMS Neighbouring Cell Information

The parameter contains information for the MBMS p-t-m radio bearer configuration procedure as defined in TS 25.331 [16].

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
MBMS Neighbouring Cell Information				
>MBMS Concatenated Service List		1 <maxlen gthMBMSco ncatservlist s &gt;</maxlen 		TMGI shall be uniquely defined by a reference to this index from the <i>MBMS short</i> <i>transmission identity</i> IE TS 25.331 [16] in the <i>L3</i> <i>Information</i> IE.
>>TMGI	М		9.2.1.80	
>L3 Information	0		9.2.1.32	The IE Contains MBMS COMMON P-T-M RB INFORMATION defined in ref. TS 25.331 [16].
>L3 Information	0		9.2.1.32	The IE Contains MBMS CURRENT CELL P-T- M RB INFORMATION defined in ref. TS 25.331 [16].

Range bound	Explanation
maxlengthMBMSconcatservlists	Maximum length of the concatenated service lists contained in MBMS MODIFIED SERVICES INFORMATION and the MBMS UNMODIFIED
	SERVICES INFORMATION messages defined in ref. TS 25.331 [16]

## 9.2.2.97 RLC Sequence Number

This parameter indicates the RLC Sequence Number.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
RLC Sequence Number			INTEGER (0127)	

#### 9.2.2.98 Time Stamp

This parameter indicates the Time Stamp used for Inter-RNC MBMS synchronisation.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Time Stamp			INTEGER (09999)	Units: 10ms

## 9.2.2.99 HS-DSCH Preconfiguration Info

The *HS-DSCH Preconfiguration Info* IE provides information of the target cell preconfiguration in the DRNS as defined in ITU-T Rec. X.680 [18].

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Sets of HS-SCCH Codes		1 <max noofHSD SCH&gt;</max 	Reierence	Index 1 refers to the serving HS-DSCH cell Index 2 <maxnoofhsdsch> refer to secondary serving HS-DSCH cells in the order as listed in 9.2.2.100 HS-DSCH Preconfiguration Setup. Max index is 2 in this 3GPP release.</maxnoofhsdsch>	_	
>HS-SCCH Preconfigured Codes		1 <maxn oofHSSC CHcodes</maxn 			-	
>>Code Number	М		INTEGER (0127)		_	
> HS-DSCH- RNTI	М		9.2.1.31J		_	
>HS-PDSCH And HS-SCCH Scrambling Code	М		DL Scramblin g Code 9.2.2.11		-	
>SixtyfourQAM DL Support Indicator	0		9.2.1.123		_	
>SixtyfourQAM DL Usage Indicator	0		9.2.2.79B		-	
>HS-DSCH TB Size Table Indicator	0		9.2.2.19G		-	
>MIMO Information Response	0		9.2.2.78	Applicable for multicarrier mode of operation.	YES	ignore
>Power Offset For S-CPICH for MIMO	0		9.2.2.104	Applicable for multicarrier mode of operation. The "Power Offset For S- CPICH for MIMO" in the index 1 of "Sets of HS- SCCH Codes" shall be ignored.	YES	ignore
>Measurement Power Offset	0		9.2.2.24d	<u> </u>	YES	ignore
HARQ Memory Partitioning	М		9.2.1.116		-	
E-DCH FDD DL Control Channel Information	0		9.2.2.4D	For the primary UL frequency in Dual-cell E- DCH mode of operation.	_	
HARQ Preamble Mode Activation Indicator	0		9.2.2.58		-	
MIMO Information Response	0		9.2.2.78	Only applicable for MIMO in single carrier mode of operation. Shall be ignored in multicarrier mode of operation.	_	
Continuous Packet Connectivity HS- SCCH less Information Response	0		9.2.2.75		_	
Power Offset For S- CPICH for MIMO	0		9.2.2.104	For the serving HS-DSCH cell in both the single carrier mode and	YES	ignore

				multicarrier mode of operation.		
Additional E-DCH Preconfiguration Information		0 <maxn oofEDCH -1&gt;</maxn 		For E-DCH on multiple frequencies in this DRNS. E-DCH on Secondary uplink frequency – max 1 in this 3GPP release. Index 1 correspond to the secondary serving HS- DSCH cells with index 2 in the IE Sets of HS- SCCH Codes. The list is in the order as listed in 9.2.2.100 HS-DSCH Preconfiguration Setup.	EACH	ignore
>E-DCH FDD DL Control Channel Information	M		9.2.2.4D	For the secondary UL frequency In Dual-cell E- DCH mode of operation.	-	
Support of dynamic DTXDRX related HS-SCCH order	0		9.2.2.126		YES	ignore

Range bound	Explanation
maxnoofHSSCCHcodes	Maximum number of HS-SCCH codes
maxnoofHSDSCH	Maximum number of Primary Serving plus Secondary Serving HS- DSCH cells for one UE
maxnoofEDCH-1	Maximum number of uplink frequencies -1 for E-DCH for one UE

## 9.2.2.100 HS-DSCH Preconfiguration Setup

The *HS-DSCH Preconfiguration Setup* IE indicates that the DRNS shall preconfigure set(s) of HS-SCCH codes and may contain a list of secondary serving HS-DSCH cells to be preconfigured for Enhanced Service Cell Change. The Cell Change procedure for Dual Cell operation is described in TS 25.308 [63]

IE/Group Name	Prese nce	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
MAC-hs/ehs reset scheme	М		ENUMERAT ED (Always, Inter NodeB Change)	MAC-hs/ehs reset handling at enhanced HS serving cell change: "Always" means always reset "Inter NodeB Change" means Only reset at inter Node B cell change	_	
HS-DSCH Physical Layer Category	M		9.2.1.30Oa		_	
MAC-hs Reordering Buffer Size for RLC-UM	М		9.2.1.34Ab		-	
Secondary Cells		0 <maxn oofHSDS CH-1&gt;</maxn 		Preconfigured secondary serving HS-DSCH cell. <i>maxnoofHSDSCH-1</i> is max 1 in this 3GPP release.	_	
>Secondary C-ID	M		9.2.1.9	C-ID of the preconfigured secondary serving HS-DSCH cell	_	
>Num Secondary HS- SCCH Codes	0		INTEGER (1 <i>maxnoofH</i> SSCCHcode s)	For the secondary serving HS-DSCH cell	_	
>Sixtyfour QAM Usage Allowed Indicator	0		9.2.2.79A	For the secondary serving HS-DSCH cell	-	
>MIMO Activation Indicator	0		9.2.1.134	For the secondary serving HS-DSCH cell	YES	ignore
>E-DCH Indicator	0		NULL	The secondary serving HS-DSCH cell shall be pre- configured with E- DCH.	YES	ignore
>Power Offset For S- CPICH for MIMO Request Indicator	0		9.2.2.105	For the secondary serving HS-DSCH cell	YES	ignore
Num Primary HS-SCCH Codes	0		INTEGER (1 maxnoofHSS CCHcodes)	For the primary serving HS-DSCH cell	_	
HARQ Preamble Mode MIMO Activation Indicator	0		9.2.1.134 9.2.1.134	In multicarrier mode of operation the IE is for the serving HS- DSCH cell		
HS-DSCH MAC-d PDU Size Format	0		9.2.1.30OC	If not present, "Indexed MAC-d PDU Size" shall be assumed.	_	
Sixtyfour QAM Usage Allowed Indicator	0		9.2.2.79A	For the serving HS- DSCH cell	_	
UE with enhanced HS- SCCH support indicator	0		NULL 9.2.2.74	UE supports enhanced HS-SCCH functionality: - UE supports different HS-SCCH in consecutive TTIs and, - in HS-SCCH-less operation mode the UE supports HS- SCCH orders	_	

Connectivity HS-SCCH less Information					
UE Support Indicator Extension	0	9.2.2.103		YES	ignore
Power Offset For S- CPICH for MIMO Request Indicator	0	9.2.2.105	For the serving HS- DSCH cell in both the single carrier mode and multicarrier mode of operation.	YES	ignore

Range bound	Explanation
maxnoofHSDSCH-1	Maximum number of Secondary Serving HS-DSCH cells for one UE
maxnoofHSSCCHcodes	Maximum number of HS-SCCH codes

## 9.2.2.101 Secondary Serving Cell List

This *Secondary Serving Cell List* IE identifies the possible secondary serving HS-DSCH cells for a Multi Cell/Dual-Band capable cell that is able to serve as a serving HS-DSCH cell.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Possible Secondary Serving Cell List		1 <maxno ofHSDSC H-1&gt;</maxno 		For secondary serving HS- DSCH cell.
>Possible Secondary Serving Cell	М		C-ID 9.2.1.9	

Range bound	Explanation
maxnoofHSDSCH-1	Maximum number of Secondary Serving HS-DSCH cells for one UE.

## 9.2.2.102 Minimum Reduced E-DPDCH Gain Factor

The minimum gain factor ( $\beta_{ed,k,reduced,min}$ ) defined in TS 25.214 [10].

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Minimum Reduced E-DPDCH Gain Factor			ENUMERATED (8/15, 11/15, 15/15, 21/15, 30/15, 42/15, 60/15, 84/15,)	

## 9.2.2.103 UE Support Indicator Extension

The UE Support Indicator Extension IE is used to indicate the support level in the UE for optional HSDPA functions to the DRNS.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
UE support indicator extension			BIT STRING (32)	Each bit indicates whether the UE supports a particular HSDPA function or not. The value 1 of a bit indicates that the corresponding functionality is supported in the UE and value 0 indicates that the corresponding functionality is not supported in the UE. Each bit is defined as follows: the first bit: Different HS-SCCH In Consecutive TTIs Support Indicator, the second bit: HS-SCCH orders in HS-SCCH-less Operation Support Indicator, the third bit: RRC Rel-9 (onwards) handling of DL secondary HS-DSCH (de)activation state Support Indicator, the fourth bit: UE DTXDRX related HS-SCCH orders uniform behavior indicator. Note that undefined bits are considered as a spare bit and spare bits shall be set to 0 by the transmitter and shall be ignored by the receiver.

## 9.2.2.104 Power Offset For S-CPICH for MIMO

The *Power Offset For S-CPICH for MIMO* IE indicates the relative transmit power of the S-CPICH compared to the primary CPICH transmit power, when S-CPICH is used as a phase reference for a second transmit antenna in MIMO mode TS 25.214 [10].

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Power Offset For S-CPICH for MIMO			INTEGER(-6 0)	Offset in dB

#### 9.2.2.105 Power Offset For S-CPICH for MIMO Request Indicator

The *Power Offset For S-CPICH for MIMO Request Indicator* IE is present when the SRNC needs the DRNS to supply, if possible, the *Power Offset For S-CPICH for MIMO* IE when S-CPICH is used as a phase reference for a second transmit antenna in MIMO mode TS 25.214 [10].

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Power Offset For S-CPICH for MIMO Request Indicator			NULL	

## 9.2.2.106 Single Stream MIMO Activation Indicator

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Single Stream MIMO Activation Indicator	М		NULL	

## 9.2.2.107 Single Stream MIMO Mode Indicator

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Single Stream MIMO Mode			ENUMERATED	
Indicator			(Activate,	
			Deactivate)	

#### 9.2.2.108 HS-DSCH MAC-ehs Format

Void.

#### 9.2.2.109 Activation Information

The *Activation Information* IE defines the local activation state of the secondary uplink frequency of the UE in Dual Cell E-DCH operation.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Activation Information		1 <maxnoo fEDCH-1&gt;</maxnoo 	For secondary E- DCH. Max 1 in this 3GPP release.	
>Uu Activation State	Μ		ENUMERATED (Activated, De-activated,)	The activation state of the secondary UL frequency

Range Bound	Explanation
maxnoofEDCH-1	Maximum number of uplink frequencies -1 for E-DCH for one UE

## 9.2.2.110 Additional E-DCH FDD Setup Information

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
UL DPCH Information		1			_	
>UL Scrambling Code	М		9.2.2.53		_	
>UL SIR Target	0		UL SIR 9.2.1.69		-	
Additional E-DCH RL Specific Information To Setup	М		9.2.2.115		_	
Additional E-DCH FDD Information	0		9.2.2.112		_	
F-DPCH Information		1			-	
>FDD TPC DL Step Size	М		9.2.2.16		_	
>Limited Power Increase	М		9.2.2.21A		_	
>Inner Loop DL PC Status	М		9.2.2.21a		_	
>F-DPCH Slot Format Support Request	0		9.2.2.86		_	
Multicell E-DCH Information	0		9.2.2.114		YES	ignore

	9.2.2.111	Additional E-DCH Configuration Change Information
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IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
UL DPCH Information		01			_	
>UL Scrambling Code	0		9.2.2.53		-	
>UL SIR Target	0		UL SIR 9.2.1.69		-	
Additional E-DCH RL Specific Information To Add	0		9.2.2.116	Used when the E-DCH RL to add does not exist in the current UE context on the secondary UL frequency.	_	
Additional E-DCH RL Specific Information To Modify	0		9.2.2.117	Used when an existing E- DCH RL on the secondary UL frequency is modified.	_	
Additional E-DCH FDD Information To Modify	0		Additional E- DCH FDD Information 9.2.2.112	Used to modify the current additional E- DCH configuration with or without a new RL added in this procedure	_	
F-DPCH Information		01			_	
>FDD TPC DL Step Size	Μ		9.2.2.16		_	
>Limited Power Increase	М		9.2.2.21A		_	
>Inner Loop DL PC Status	М		9.2.2.21a		_	
>F-DPCH Slot Format Support Request	0		9.2.2.86		-	
Multicell E-DCH Information	0		9.2.2.114		YES	ignore

# 9.2.2.112 Additional E-DCH FDD Information

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Additional E-DCH FDD Information				
>HARQ Process Allocation For 2ms Scheduled Transmission Grant	0		HARQ Process Allocation for 2ms TTI 9.2.2.40	
>E-DCH Maximum Bitrate	0		9.2.2.4MG	
>E-DCH Processing Overload Level	0		9.2.1.95	
>E-DCH Minimum Set E- TFCI	0		INTEGER (0127)	For the concept of "E-DCH Minimum Set of TFCs" see TS 25.321 [41] and TS 25.331 [16].

## 9.2.2.113 Multicell E-DCH Transport Bearer Mode

This parameter indicates the Multicell E-DCH Transport Bearer Mode. For *Multicell E-DCH Transport Bearer Mode* = "Separate Iur Transport Bearer Mode" the Mac-d flows from each carrier uses different Iur transport bearers, for *Multicell E-DCH Transport Bearer Mode* = "UL Flow Multiplexing Mode" the Mac-d flows received on the different carriers in the DRNS is multiplexed on one Iur transport bearer (per Mac-d flow). The SRNC should apply the stored cell capabilities for the cell on primary UL frequency for the capabilities related to Multicell E-DCH Transport Bearer Mode.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Multicell E-DCH Transport			ENUMERATED	
Bearer Mode			(Separate lur	
			Transport Bearer	
			Mode, UL Flow	
			Multiplexing Mode)	

## 9.2.2.114 Multicell E-DCH Information

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
DL Power Balancing Information	0		9.2.2.10A	
Minimum Reduced E-DPDCH Gain Factor	0		9.2.2.102	
Secondary UL Frequency Activation State	0		ENUMERATED (Activated, Deactivated,)	
F-DPCH Slot Format	0		9.2.2.85	
Common DL Reference Power	0		DL power 9.2.1.21A	Power on F-DPCH

## 9.2.2.115 Additional E-DCH RL Specific Information To Setup

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
E-DCH Additional RL Specific Information		1 <maxn oofEDCH RLs&gt;</maxn 			-	
>E-DCH Additional RL ID	М		RL ID 9.2.1.49		_	
>C-ID	0		9.2.1.6		_	
>First RLS Indicator	М		9.2.2.16A		_	
>Propagation Delay	0		9.2.2.33		_	
>Initial DL Tx Power	0		DL Power 9.2.1.21A			
>Primary CPICH Ec/No	0		9.2.2.32		_	
>E-AGCH Power Offset	0		9.2.2.61		_	
>E-RGCH Power Offset	0		9.2.2.62		_	
>E-HICH Power Offset	0		9.2.2.63		_	
>Additional E-DCH MAC-d Flow Specific Information	0		9.2.2.118		-	
>Multicell E-DCH RL Specific Information	0		9.2.2.119		YES	ignore

Range bound	Explanation		
maxnoofEDCHRLs	Maximum number of E-DCH RLs for one UE		

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
E-DCH Additional RL Specific Information To Add		1 <maxn oofEDCH RLs&gt;</maxn 			_	
>E-DCH Additional RL ID	М		RL ID 9.2.1.49		_	
>C-ID	М		9.2.1.6		_	
>Primary CPICH Ec/No	0		9.2.2.32		_	
>E-AGCH Power Offset	0		9.2.2.61		-	
>E-RGCH Power Offset	0		9.2.2.62		_	
>E-HICH Power Offset	0		9.2.2.63		_	
>Additional E-DCH MAC-d Flow Specific Information	0		9.2.2.118		_	
>Multicell E-DCH RL Specific Information	0		9.2.2.119		YES	ignore

# 9.2.2.116 Additional E-DCH RL Specific Information To Add

Range bound	Explanation			
maxnoofEDCHRLs	Maximum number of E-DCH RLs for one UE			

# 9.2.2.117 Additional E-DCH RL Specific Information To Modify

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
E-DCH Additional RL Specific Information to Modify		1 <maxno ofEDCHRL s&gt;</maxno 			-	
>E-DCH Additional RL ID	М		RL ID 9.2.1.49		_	
>E-AGCH Power Offset	0		9.2.2.61		_	
>E-RGCH Power Offset	0		9.2.2.62		-	
>E-HICH Power Offset	0		9.2.2.63		-	
>Additional E-DCH MAC-d Flow Specific Information	0		9.2.2.118		_	
>Multicell E-DCH RL Specific Information	0		9.2.2.119		YES	ignore

Range bound	Explanation
maxnoofEDCHRLs	Maximum number of E-DCH RLs for one UE

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Additional E-DCH MAC-d Flow Specific Information		1 <maxno ofEDCHM ACdFlows &gt;</maxno 		
>E-DCH MAC-d Flow ID	М		9.2.1.91	
>Binding ID	0		9.2.1.3	
>Transport Layer Address	0		9.2.1.62	

## 9.2.2.118 Additional E-DCH MAC-d Flow Specific Information

Range Bound	Explanation
maxnoofEDCHMACdFlows	Maximum number of E-DCH MAC-d flows

## 9.2.2.119 Multicell E-DCH RL Specific Information

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Extended Propagation Delay	0		9.2.2.33a	
Enhanced Primary CPICH Ec/No	0		9.2.2.131	
DL Reference Power	0		DL power 9.2.1.21A	
Phase Reference Update Indicator	0		9.2.2.27B	
E-DCH DL Control Channel Grant	0		NULL	

## 9.2.2.120 Additional E-DCH FDD Information Response

The Additional E-DCH FDD Information Response IE provides information for new E-DCH radio links on the secondary UL frequency.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Additional E-DCH RL Information Response		1 <maxno ofEDCHRL s&gt;</maxno 		
>E-DCH Additional RL ID	М		RL ID 9.2.1.49	
>Received Total Wide Band Power	М		9.2.2.35A	
>DL Power Balancing Activation Indicator	0		9.2.2.10B	
>RL Set ID	М		9.2.2.35	
>E-DCH RL Set ID	М		RL Set ID 9.2.2.35	
>E-DCH FDD DL Control Channel Information	М		9.2.2.4D	
>DL Code Information	M		FDD DL Code Information 9.2.2.14A	
>Additional E-DCH MAC-d Flow Specific Information Response		0 <maxno ofEDCHM ACdFlows &gt;</maxno 		
>>E-DCH MAC-d Flow ID	М		9.2.1.91	
>>Binding ID	0		9.2.1.3	
>>Transport Layer Address	0		9.2.1.62	
>HARQ Process Allocation For 2ms Scheduled Transmission Grant	0		HARQ Process Allocation for 2ms TTI 9.2.2.40	
>Maximum Uplink SIR	М		Uplink SIR 9.2.1.69	
>Minimum Uplink SIR	М		Uplink SIR 9.2.1.69	
>Maximum Allowed UL Tx Power	М		9.2.1.35	
>Maximum DL TX Power	М		DL Power 9.2.1.21A	
>Minimum DL TX Power	М		DL Power 9.2.1.21A	
>Primary Scrambling Code	0		9.2.1.45	
>UL UARFCN	0		UARFCN 9.2.1.66	Corresponds to Nu in ref. TS 25.104 [6]
>DL UARFCN	0		UARFCN 9.2.1.66	Corresponds to Nd in ref. TS 25.104 [6]
>Primary CPICH Power	М		9.2.1.44	
>PC Preamble	М		9.2.2.27a	
<ul> <li>Primary CPICH Usage For</li> <li>Channel Estimation</li> </ul>	0		9.2.2.32A	
>Secondary CPICH Information	0		9.2.2.38A	
>F-DPCH Slot Format	0		9.2.2.85	

Range bound	Explanation		
maxnoofEDCHRLs	Maximum number of E-DCH RLs for one UE		

## 9.2.2.121 Additional Modified E-DCH FDD Information Response

The *Additional Modified E-DCH RL Information Response* IE provides information for RLs on the secondary UL frequency that has been modified and existied in the UE Context configuration before the reconfiguration procedure.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Additional Modified E-DCH		1 <maxno< td=""><td></td><td></td></maxno<>		
RL Information Response		ofEDCHRL		
		S>>		
>E-DCH Additional RL ID	Μ		RL ID 9.2.1.49	
>DL Power Balancing Updated Indicator	0		9.2.2.10D	
>E-DCH FDD DL Control Channel Information	0		9.2.2.4D	
<ul> <li>Additional E-DCH MAC-d</li> <li>Flow Specific Information</li> <li>Response</li> </ul>		0 <maxno ofEDCHM ACdFlows &gt;</maxno 		
>>E-DCH MAC-d Flow ID	М		9.2.1.91	
>>Binding ID	0		9.2.1.3	
>>Transport Layer Address	0		9.2.1.62	
>HARQ Process Allocation	0		HARQ Process	
For 2ms Scheduled			Allocation for 2ms	
Transmission Grant			TTI 9.2.2.40	
>Maximum Uplink SIR	0		Uplink SIR 9.2.1.69	
>Minimum Uplink SIR	0		Uplink SIR 9.2.1.69	
>Maximum DL TX Power	0		DL Power 9.2.1.21A	
>Minimum DL TX Power	0		DL Power 9.2.1.21A	
>Primary CPICH Usage For Channel Estimation	0		9.2.2.32A	
>Secondary CPICH Information Change	0		9.2.2.38B	
>F-DPCH Slot Format	0		9.2.2.85	

Range bound	Explanation
maxnoofEDCHRLs	Maximum number of E-DCH RLs for one UE

# 9.2.2.122 Additional E-DCH FDD Update Information

IE/Group Name	Presenc e	Range	IE Type and Reference	Semantics Description
HARQ Process Allocation For 2ms Scheduled Transmission Grant	0		HARQ Process Allocation for 2ms TTI 9.2.2.40	
Additional E-DCH DL Control Channel Change Information		0 <max noofED CHRLs &gt;</max 		
> E-DCH Additional RL ID	М		RL ID 9.2.1.49	

Range bound	Explanation
maxnoofEDCHRLs	Maximum number of E-DCH RLs for one UE

#### 9.2.2.123 Cell Capability Container Extension FDD

The *Cell Capability Container Extension FDD* IE is an extension to the *Cell Capability Container FDD* IE and indicates the cell capability in the same way as *Cell Capability Container Extension FDD* IE.

The cell capability of multi-cell related functions may depend on that the cell also is multi-cell capable (adjacent carrier). These capability indicators shall be ignored if the Multi Cell Support Indicator in the *Cell Capability Container FDD* IE is set to 0. These support indicators are indicated in the table below with /Multi-cell/. Support indicators marked /Multi-cell/ indicates the support regardless of the supported multi-cell type in a multicell configuration: supported multi-cell type is - both serving HS-DSCH and secondary serving HS-DSCH, - secondary serving HS-DSCH or - serving HS-DSCH.

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IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Cell Capability Container Extension FDD			BIT STRING (128)	Each bit indicates whether a cell supports a particular functionality or not. The value 1 of a bit indicates that the corresponding functionality is supported in a cell and value 0 indicates that the corresponding functionality is not supported in a cell. Each bit is defined as follows. The first bit: Cell Specific Tx Diversity Handling For Multi Cell Operation Support Indicator, /Multi-cell/. The second bit: Multi Cell and MIMO Support Indicator, /Multi-cell/. The third bit: Multi Cell and Single Stream MIMO Support Indicator, /Multi-cell/. The fourth bit: Multi Cell E- DCH Support Indicator, /Multi-cell/. This bit shall be ignored by the SRNC if the fifth bit: Separate lur Transport Bearer Support Indicator = "0" and the sixth bit: E-DCH UL Flow Multiplexing Support Indicator = "0" The fifth bit: Separate lur Transport Bearer Support Indicator, /Multi-cell/. This bit shall be ignored by the SRNC if the fourth bit: Multi Cell E-DCH Support Indicator, /Multi-cell/. This bit shall be ignored by the SRNC if the fourth bit: Multi Cell E-DCH Support Indicator, /Multi-cell/. This bit shall be ignored by the SRNC if the fourth bit: Multi Cell E-DCH Support Indicator, /Multi-cell/. This bit shall be ignored by the SRNC if the fourth bit: Multi Cell E-DCH Support Indicator, /Multi-cell/. This bit shall be ignored by the SRNC if the fourth bit: Multi Cell E-DCH Support Indicator = "0" Note that undefined bits are considered as a spare bit and spare bits shall be set to 0 by the transmitter and shall be ignored by the receiver. Note that Reserved bits are not considered as a spare bit and spare bits shall be set to 0 by the transmitter and shall be ignored by the receiver.

## 9.2.2.124 Non-Serving RL Preconfiguration Setup

The *Non-Serving RL Preconfiguration Setup* IE indicates that the DRNS may preconfigure E-DCH DL Code Information configured for new non-serving RL for Enhanced Service Cell Change and contains the information for the location of new serving RL after the Enhanced Serving Cell Change.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
CHOICE new Serving RL	Μ				-	
>New Serving RL in the DRNS			NULL		-	
>New Serving RL Not in the DRNS			NULL		-	
>New Serving RL in the DRNS or New Serving RL Not in the DRNS			NULL		-	
Additional E-DCH Non- Serving RL Preconfiguration Setup	0		NULL		YES	ignore

# 9.2.2.125 Non-Serving RL Preconfiguration Info

The Non-Serving RL Preconfiguration Info IE provides information for the new non-serving RL after Enhanced Serving Cell Change.

IE/Group Name	Presence	Range	IE Type and	Semantics Description	Criticality	Assigned Criticality
New non-serving RL E-DCH FDD DL Control Channel Information A	0		Reference 9.2.2.4D E-DCH FDD DL Control Channel Information	E-DCH FDD DL Control Channel Information for non- serving RL in Serving E- DCH RLS	_	
New non-serving RL E-DCH FDD DL Control Channel Information B	0		9.2.2.4D E-DCH FDD DL Control Channel Information	E-DCH FDD DL Control Channel Information for non- serving RL in non serving E-DCH RLS in in case serving RL is in the DRNS	_	
New non-serving RL E-DCH FDD DL Control Channel Information C	0		9.2.2.4D E-DCH FDD DL Control Channel Information	E-DCH FDD DL Control Channel Information for non- serving RL in case serving RL is not in the DRNS	_	
Additional E-DCH New non-serving RL E-DCH FDD DL Control Channel Information		0 <maxno ofEDCH- 1&gt;</maxno 		E-DCH on Secondary uplink frequency - max 1 in this 3GPP release.	EACH	ignore
>New non-serving RL E- DCH FDD DL Control Channel Information A	0		9.2.2.13Dc E-DCH FDD DL Control Channel Information	E-DCH FDD DL Control Channel Information for Additional non-serving RL in Serving E- DCH RLS	_	
>New non-serving RL E- DCH FDD DL Control Channel Information B	0		9.2.2.13Dc E-DCH FDD DL Control Channel Information	E-DCH FDD DL Control Channel Information for Additional non-serving RL in non serving E- DCH RLS in case Additional serving RL is in the DRNS		
>New non-serving RL E- DCH FDD DL Control Channel Information C	0		9.2.2.13Dc E-DCH FDD DL Control Channel Information	E-DCH FDD DL Control Channel Information for Additional non-serving RL in case Additional	_	

	serving RL is not in the	3	
	DRNS		

9.2.2.126 Void

9.2.2.127 Void

9.2.2.128 Void

#### 9.2.2.129 Support of Dynamic DTXDRX Related HS-SCCH Order

The Support of dynamic DTXDRX related HS-SCCH order IE is to indicate if DRNS supports the DRX/DTX related HS-SCCH order for CPC non-uniform UE.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Support of dynamic DTXDRX			ENUMERATED	
related HS-SCCH order			(Supported, Not Supported)	

# 9.2.3 TDD Specific Parameters

This subclause contains parameters that are specific to TDD.

### 9.2.3.a Alpha Value

Used to support signalling of cell specific Alpha Value to SRNS.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Alpha Value			ENUMERAT ED(0, 1/8, 2/8, 3/8, 4/8, 5/8, 6/8, 7/8, 1)	

### 9.2.3.A Block STTD Indicator

Void.

9.2.3.1 Burst Type

Void.

#### 9.2.3.1a Cell Capability Container TDD

The Cell Capability Container TDD indicates which functionalities a 3.84Mcps TDD cell supports.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Cell Capability Container TDD			BIT STRING (32)	Each bit indicates whether a cell supports a particular functionality or not. The value 1 of a bit indicates that the corresponding functionality is supported in a cell and value 0 indicates that the corresponding functionality is not supported in a cell. Each bit is defined as follows. The first bit: Delayed Activation Support Indicator. The second bit: HS-DSCH Support Indicator. The third bit: DSCH Support Indicator. The fourth bit: Flexible MAC- d PDU Size Support Indicator. The fifth: MBMS Support Indicator. Note that undefined bits are considered as a spare bit and spare bits shall be set to 0 by the transmitter and shall be ignored by the receiver.

# 9.2.3.1b Cell Capability Container TDD LCR

The Cell Capability Container TDD LCR indicates which functionalities a cell supports.

## 9.2.3.2 CCTrCH ID

The CCTrCH ID identifies unambiguously a CCTrCH inside a Radio Link.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
CCTrCH ID			INTEGER (015)	

### 9.2.3.2A DCH TDD Information

The DCH TDD Information IE provides information for DCHs to be established.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
DCH Information		1 <maxno ofDCHs&gt;</maxno 			-	
>Payload CRC Presence Indicator	М		9.2.1.42		_	
>UL FP Mode	М		9.2.1.67		_	
>ToAWS	М		9.2.1.58		_	
>ToAWE	Μ		9.2.1.57		-	
>DCH Specific Info		1 <maxno ofDCHs&gt;</maxno 			_	
>>DCH ID	М		9.2.1.16		_	
>>CCTrCH ID	M		9.2.3.2	UL CCTrCH in which the DCH is mapped	-	
>>CCTrCH ID	M		9.2.3.2	DL CCTrCH in which the DCH is mapped	-	
>>TrCH Source Statistics Descriptor	М		9.2.1.65		-	
>>Transport Format Set	М		9.2.1.64	For the UL.	-	
>>Transport Format Set	М		9.2.1.64	For the DL.	-	
>>BLER	М		9.2.1.4	For the UL.	-	
>>BLER	М		9.2.1.4	For the DL.	-	
>Allocation/Retention Priority	М		9.2.1.1		-	
>>Frame Handling Priority	М		9.2.1.29		-	
>>QE-Selector	C- CoorDCH		9.2.1.46A		_	
>Guaranteed Rate Information	0		9.2.1.30M		YES	ignore
>>Traffic Class	М		9.2.1.58A		YES	ignore
>>Unidirectional DCH Indicator	0		9.2.1.68B		YES	reject
>TNL QoS	0		9.2.1.56A		YES	ignore

Condition	Explanation
CoorDCH	The IE shall be present if this DCH is part of a set of coordinated DCHs (number of instances of the <i>DCH Specific Info</i> IE is greater than 1).

Range bound	Explanation
maxnoofDCHs	Maximum number of DCHs for one UE.

## 9.2.3.2B DCH TDD Information Response

Void

## 9.2.3.2C DL Timeslot Information

The DL Timeslot Information IE provides information on the time slot allocation for a DL DPCH at 3.84Mcps.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
DL Timeslot Information		1 <maxno OfTS&gt;</maxno 			-	
>Time Slot	Μ		9.2.1.56		-	
>Midamble Shift And Burst Type	М		9.2.3.4		_	
>TFCI Presence	М		9.2.1.55		_	
>DL Code Information	М		TDD DL Code Information 9.2.3.8C		-	

Range bound	Explanation
maxnoofTSs	Maximum number of Timeslots for a UE.

## 9.2.3.2D DL Time Slot ISCP Info

The DL Time Slot ISCP Info IE gives interference level for each DL time slot within the Radio Link.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
DL Time Slot ISCP Info		1 <maxno< td=""><td></td><td></td><td>-</td><td></td></maxno<>			-	
		ofDLts>				
>Time Slot	М		9.2.1.56		-	
>DL Timeslot ISCP	М		9.2.3.12		-	

Range bound	Explanation
maxnoofDLts	Maximum number of downlink time slots per Radio Link for
	3.84Mcps TDD.

## 9.2.3.2E DL Timeslot Information LCR

The DL Timeslot Information LCR IE provides information for DL Timeslot to be established for 1.28Mcps TDD.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
DL Timeslot Information LCR		1 <maxnoof DLtsLCR&gt;</maxnoof 			1	
>Time Slot LCR	М		9.2.3.12a		_	
>Midamble Shift LCR	М		9.2.3.4C		-	
>TFCI Presence	М		9.2.1.57		1	
>DL Code Information LCR	Μ		TDD DL Code Information LCR 9.2.3.8D		-	
>Maximum DL TX Power	0		DL Power 9.2.1.21A	Maximum allowed power on DPCH	YES	ignore
>Minimum DL TX Power	0		DL Power 9.2.1.21A	Minimum allowed power on DPCH	YES	ignore

Range bound	Explanation
maxnoofDLtSLCR	Maximum number of Downlink time slots per Radio Link for
	1.28Mcps TDD.

## 9.2.3.2F DL Time Slot ISCP Info LCR

The DL Time Slot ISCP Info LCR IE provides information for DL Interference level for each time slot within the Radio Link for 1.28Mcps TDD.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
DL Time Slot ISCP Info LCR		1 <maxnooful tsLCR&gt;</maxnooful 			-	
>Time Slot LCR	М		9.2.3.12a			
>DL Timeslot ISCP	М		9.2.3.12			

Range bound	Explanation
maxnoofULtsLCR	Maximum number of Uplink time slots per Radio Link for 1.28Mcps
	TDD

### 9.2.3.3 DPCH ID

The DPCH ID identifies unambiguously a DPCH inside a Radio Link.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
DPCH ID			INTEGER (0239)	

### 9.2.3.3a DSCH TDD Information

The DSCH TDD Information IE provides information for DSCHs to be established.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
DSCH TDD Information		1 <maxno ofDSCHs&gt;</maxno 			_	
>DSCH ID	Μ		9.2.3.3ae		-	
>CCTrCH ID	М		9.2.3.2	DL CCTrCH in which the DSCH is mapped.	_	
>TrCH Source Statistics Descriptor	М		9.2.1.65		-	
>Transport Format Set	Μ		9.2.1.64		-	
>Allocation/Retention Priority	Μ		9.2.1.1		_	
>Scheduling Priority Indicator	Μ		9.2.1.51A		_	
>BLER	Μ		9.2.1.4		-	
>Traffic Class	Μ		9.2.1.58A		YES	ignore
>Binding ID	0		9.2.1.3	Shall be ignored if bearer establishme nt with ALCAP.	YES	ignore
>Transport Layer Address	0		9.2.1.62	Shall be ignored if bearer establishme nt with ALCAP.	YES	ignore
>TNL QoS	0		9.2.1.56A	Shall be ignored if bearer establishme nt with ALCAP.	YES	ignore

Range bound	Explanation		
maxnoofDSCHs	Maximum number of DSCHs for one UE.		

# 9.2.3.3aa HS-DSCH TDD Information

The HS-DSCH TDD Information IE is used for initial addition of HS-DSCH information to a UE Context.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
HS-DSCH MAC-d Flows Information	М		9.2.1.30OA		_	
<b>UE Capabilities Information</b>		1			_	
>HS-DSCH Physical Layer Category	М		9.2.1.30Oa		_	
>1.28 Mcps TDD uplink physical channel capability	0		9.2.3.10D	Applicable to 1.28Mcps TDD only	YES	ignore
>Number of Supported Carriers	0		ENUMERATE D ( One-one carrier, One- three carrier, Three-three carrier, One- six carrier, Tree-six carrier, Six-six carrier, )	Applicable to 1.28Mcps TDD only This IE indicates the number of carrier that UE can support at the same time,where " One-three carrier" means the number of supported carrier is one for the uplink,and three for the downlink.	YES	reject
>Multi-carrier HS-DSCH Physical Layer Category	0		9.2.1.30Oa	Applicable to 1.28Mcps TDD only	YES	ignore
>MIMO SF Mode Supported For HS-PDSCH dual stream	0		Enumerated (SF1, SF1/SF16)	Applicable to 1.28Mcps TDD only	YES	ignore
>UE TS0 Capability LCR	0		ENUMERATE D (TS0 Capable, TS0 Non-Capable)	Applicable to 1.28Mcps TDD only	YES	ignore
MAC-hs Reordering Buffer Size for RLC-UM	М		9.2.1.34Ab		-	
TDD ACK NACK Power Offset	М		9.2.3.71		_	
HS-DSCH MAC-d PDU Size Format	0		9.2.1.30OC	If not present, "Indexed MAC-d PDU Size" shall be used.	YES	reject
HS-SICH SIR Target	0		UL SIR 9.2.1.69	Applicable to 1.28Mcps TDD only	YES	ignore
HS-SICH TPC step size	0		9.2.3.10a	Applicable to 1.28Mcps TDD only	YES	ignore
TSN-Length	0		9.2.3.3ai	Applicable for 1.28Mcps TDD when using multiple frequencies	YES	reject
MIMO Activation Indicator	0		9.2.1.134		YES	reject
	•	•	•			

# 9.2.3.3ab HS-DSCH TDD Information Response

The *HS-DSCH TDD Information Response* IE provides information for HS-DSCH that have been established or modified. It also provides additional HS-DSCH information determined within the DRNS.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
HS-DSCH MAC-d Flow		0 <maxno< th=""><th>Reference</th><th></th><th>_</th><th></th></maxno<>	Reference		_	
Specific Information		ofMACdFl				
Response >HS-DSCH MAC-d Flow ID	M	OWS>	0.0.1.000			
	M O		9.2.1.300		_	
>Binding ID			9.2.1.3 9.2.1.62		_	
>Transport Layer Address	0				_	
>HS-DSCH Initial Capacity Allocation	0		9.2.1.30Na		_	
HS-SCCH Specific Information Response		0 <maxno ofHSSCC Hcodes&gt;</maxno 		Not applicable to 1.28 Mcps TDD or 7.68Mcps TDD	GLOBAL	reject
>Time Slot	М		9.2.1.56		_	
>Midamble Shift And Burst Type	М		9.2.3.4		-	
<ul> <li>TDD Channelisation Code</li> <li>HS-SICH Information</li> </ul>	M	1	9.2.3.8		_	
>HS SICH ID	M	1	9.2.3.3ad			
>>HS SICH ID >>Time Slot	M					
>>Midamble Shift And	M		9.2.1.56 9.2.3.4		-	
Burst Type >>TDD Channelisation	M		9.2.3.8		_	
Code HS-SCCH Specific			0.2.010	Not	GLOBAL	· .
Information Response LCR		0 <maxno ofHSSCC Hcodes&gt;</maxno 		applicable to 3.84 Mcps TDD or 7.68Mcps TDD	GLUDAL	reject
>Time Slot LCR	М		9.2.3.12a		-	
>Midamble shift LCR	М		9.2.3.4C		-	
>First TDD Channelisation Code	М		TDD Channelisa tion Code 9.2.3.8		_	
>Second TDD Channelisation Code	M		TDD Channelisa tion Code 9.2.3.8		_	
>HS-SICH Information LCR		1			_	
>>HS SICH ID	М		9.2.3.3ad		_	
>>Time Slot LCR	М		9.2.3.12a		_	
>>Midamble shift LCR	М		9.2.3.4C		_	
>>TDD Channelisation Code	М		9.2.3.8		-	
>Used Frequency	0		UARFCN 9.2.1.66	Applicable for 1.28Mcps TDD when using multiple frequencies. This IE indicates the frequency which is actually used by the HS- SCCH.	YES	reject
>UARFCN	0		9.2.1.66	Corresponds to Nt (3GPP TS 25.105) Applicable	YES	ignore

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
			Reference	for 1.28Mcps		
				TDD when using multiple		
				frequencies. See note1		
HS-SCCH Specific		0 <maxno< td=""><td></td><td>below Applicable to</td><td>YES</td><td>ignore</td></maxno<>		below Applicable to	YES	ignore
Information Response 7.68		ofHSSCC		7.68 Mcps		.9
Mcps		Hcodes>		TDD only		
>Time Slot	M		9.2.1.56		—	
>Midamble Shift And Burst Type 7.68Mcps	м		9.2.3.23		_	
>TDD Channelisation Code 7.68Mcps	М		9.2.3.25		-	
>HS-SICH Information	N4	1	0.0.0.0		—	
>>HS SICH ID >>Time Slot	M		9.2.3.3ad			
>>Midamble Shift And	M		9.2.1.56 9.2.3.23			
Solution Shift And Burst Type 7.68Mcps Solution	M				_	
Solution Code 7.68Mcps		0 <maxno< td=""><td>9.2.3.25</td><td>Not</td><td>– GLOBAL</td><td>roicot</td></maxno<>	9.2.3.25	Not	– GLOBAL	roicot
Information Response		ofDLts>		Applicable to 1.28Mcps TDD or 7.68Mcps TDD.	GLOBAL	reject
>Time Slot	М		9.2.1.56		_	
>Midamble Shift And Burst Type	М		9.2.3.4		_	
HS-PDSCH Timeslot Specific Information Response LCR		0 <maxno ofDLtsLCR &gt;</maxno 		Not Applicable to 3.84Mcps TDD or 7.68Mcps TDD.	GLOBAL	reject
>Time Slot LCR	М		9.2.3.12a		-	
>Midamble Shift LCR	М		9.2.3.4C		_	
HS-PDSCH Timeslot Specific Information Response 7.68Mcps		0 <maxno ofDLts&gt;</maxno 		Applicable to 7.68Mcps TDD only.	YES	Ignore
>Time Slot	М		9.2.1.56	100 only.	_	
>Midamble Shift And Burst Type 7.68Mcps	M		9.2.3.23		_	
HARQ Memory Partitioning	0		9.2.1.116		_	
User Plane Congestion Fields Inclusion	0		9.2.1.70C		YES	ignore
HS-SCCH Specific Information Response LCR per UARFCN		0 <maxh SDPAFreq uency-1&gt;</maxh 		Applicable for 1.28Mcps TDD	GLOBAL	reject
>HS-SCCH Specific Information Response LCR		1 <maxno OfHSSCC Hcodes&gt;</maxno 			-	
>>Time Slot LCR	М		9.2.3.12a		_	
>>Midamble Shift LCR	M		9.2.3.4C		_	
>>First TDD Channelisation Code	М		TDD Channelisa tion Code 9.2.3.8		-	
>Second TDD Channelisation Code	М		TDD Channelisa tion Code 9.2.3.8		_	

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
>>HS-SICH Information LCR		1	Reference		-	
>>>HS SICH ID	М		9.2.3.3ad			
>>>Time Slot LCR	М		9.2.3.12a		-	
>>>Midamble Shift LCR	М		9.2.3.4C		_	
>>>TDD Channelisation	М		9.2.3.8		-	
Code >>Used Frequency	0		UARFCN 9.2.1.66	Applicable for 1.28Mcps TDD when using multiple frequencies. This IE indicates the frequency which is actually used	YES	reject
>UARFCN	0		9.2.1.66	by the HS- SCCH. Corresponds to Nt □3GPP TS 25.105□ Applicable for 1.28Mcps TDD when using multiple frequencies.	YES	ignore
>HARQ Memory Partitioning per UARFCN		0 <maxh SDPAFreq uency-1&gt;</maxh 		See note 1 below		
>>HARQ Memory Partitioning	0		9.2.1.116		-	
>UARFCN	0		9.2.1.66	Corresponds to Nt □3GPP TS 25.105□ Applicable for 1.28Mcps TDD when using multiple frequencies. See note 1 below	YES	ignore
>TS0 HS-PDSCH Indication LCR	0		9.2.3.74	1.28Mcps TDD only	YES	ignore
Multi-Carrier number	0		Integer(1 maxHSDP AFrequenc y)	Applicable for 1.28Mcps TDD when using multiple frequencies.	YES	ignore
MIMO SF Mode for HS- PDSCH dual stream	0		Enumerate d (SF1, SF1/SF16)	Applicable for 1.28Mcps TDD when MIMO is configured	YES	reject
MIMO Reference Signal Information	0	0 <maxno OfHSSCC Hcodes&gt;</maxno 		Applicable for 1.28Mcps TDD when MIMO is configured	YES	reject

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
HS-SICH Reference Signal formation	М		9.2.3.72		YES	
ut-of-sync Detection Window	0		ENUMERA TED (40, 80, 160, 320, 640,	Unit: ms Applicable to 1.28Mcps TDD.	YES	reject

Range bound	Explanation			
maxnoofMACdFlows	Maximum number of MAC-d flows.			
maxnoofHSSCCHcodes	Maximum number of HS-SCCH codes.			
maxnoofDLts	Maximum number of downlink time slots per Radio Link for 3.84Mcps TDD.			
maxnoofDLtsLCR	Maximum number of Downlink time slots per Radio Link for 1.28Mcps TDD.			
maxHSDPAFrequency	Maximum number of Frequency that UE can support HSDPA			

## 9.2.3.3ac HS-DSCH TDD Update Information

The HS-DSCH TDD Update Information IE provides information for HS-DSCH to be updated. At least one IE shall be presented.

IE/Group name	Presence	Range	IE Type and Reference	Semantic Description	Criticality	Assigned Criticality
HS-SCCH Code Change Indicator	0		9.2.1.30R		-	
TDD ACK NACK Power Offset	0		9.2.3.71		—	

## 9.2.3.3ad HS-SICH ID

The HS-SICH ID identifies unambiguously a HS-SICH.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
HS SICH ID			INTEGER (031)	For 1.28Mcps TDD, the IE is INTEGER (0255). In ASN.1, it is presented by another IE for the value beyond the 31.

### 9.2.3.3ae DSCH ID

The DSCH ID is the identifier of an active downlink shared channel. It is unique for each active DSCH among the active DSCHs simultaneously allocated for the same UE.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
DSCH ID			INTEGER (0255)	

### 9.2.3.3af DSCH Initial Window Size

Indicates the initial number of MAC-c/sh SDUs that may be transmitted before new credits are received from the DRNC.

IE/Gi	roup Name	Presence	Range	IE type and reference	Semantics description
DSCH Initia	al Window Size			INTEGER (1255)	Number of MAC-c/sh SDUs: 255 = Unlimited number of MAC-c/sh SDUs.

## 9.2.3.3ag DSCH Flow Control Information

The DSCH Flow Control Information IE provides flow control information for each scheduling priority class for the DSCH FP over Iur.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
DSCH Flow Control Information		116			_	
>DSCH Scheduling Priority	М		Scheduling Priority Indicator 9.2.1.51A		_	
>MAC-c/sh SDU Length		1 <maxnb MAC- c/shSDUL ength&gt;</maxnb 			-	
>>MAC-c/sh SDU Length	М		9.2.1.34		-	
>DSCH Initial Window Size	0		9.2.3.3af		YES	ignore

Range bound	Explanation
maxNbMAC-c/shSDULength	Maximum number of different MAC-c/sh SDU lengths.

## 9.2.3.3ah DSCH-RNTI

DSCH-RNTI is the UE identifier allocated by DRNS to be used over the radio interface by Ues having one or several DSCHs and/or USCHs. It is unique within a cell.

IE/Group Name	Presence	Range	IE type and reference	Semantics description
DSCH-RNTI			INTEGER(0. .65535)	

### 9.2.3.3ai TSN-Length

The IE indicates the TSN length.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
TSN-Length			ENUMERATED	
-			(tsn-6bits, tsn-9bits)	

## 9.2.3.3A Maximum Number of Timeslots

Defines the maximum number of timeslots the UE has the capability of receiving or transmitting. [3.84Mcps TDD and 7.68Mcps TDD – in a frame] [1.28Mcps TDD – in a subframe]

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Maximum Number of			INTEGER	For 1.28Mcps TDD the values 7
Timeslots			(114)	through 14 are not used.

## 9.2.3.3B Maximum Number of UL Physical Channels per Timeslot

Defines the maximum number of physical channels [3.84Mcps TDD and 7.68Mcps TDD – per frame] [1.28Mcps TDD – per subframe] that the UE is capable to transmit.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Maximum Number of UL			INTEGER	
Physical Channels per			(12)	
Timeslot				

### 9.2.3.3C Maximum Number of DL Physical Channels

Defines the maximum number of physical channels [3.84Mcps TDD – per frame] [1.28Mcps TDD – per subframe] that the UE is capable to receive.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Maximum Number of DL			INTEGER	For 1.28Mcps TDD the values
Physical Channels			(1224)	97 through 224 are not used.

## 9.2.3.3D Maximum Number of DL Physical Channels per Timeslot

Defines the maximum number of physical channels per timeslot that the UE is capable to receive.

IE/Group Name	Presence	Range	IE Type and	Semantics Description
			Reference	
Maximum Number of DL			INTEGER	
Physical Channels per			(116)	
Timeslot				

### 9.2.3.4 Midamble Shift And Burst Type

This information element indicates burst type and midamble allocation.

Three different midamble allocation schemes exist:

- Default midamble: the midamble is allocated by layer 1 depending on the associated channelisation code (DL and UL);
- Common midamble: the midamble is allocated by layer 1 depending on the number of channelisation codes (possible in DL only);
- UE specific midamble: a UE specific midamble is explicitly assigned (DL and UL).

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
CHOICE Burst Type				
>Type 1				
>> Midamble	M		ENUMERATED(4, 8,	As defined in TS
Configuration Burst			16)	25.221 [12]
Type 1 And 3				
>>Midamble	М		ENUMERATED(Defa	
Allocation Mode			ult midamble,	
			Common midamble,	
			UE specific	
			midamble)	
>>Midamble Shift	C-UE		INTEGER(015)	
Long				
>Type 2 >> Midamble	M			As defined in TS
Configuration Burst	IVI		ENUMERATED (3, 6)	
Type 2				25.221 [12]
>>Midamble	М		ENUMERATED(Defa	
Allocation Mode			ult midamble,	
			Common midamble,	
			UE specific	
			midamble)	
>>Midamble Shift	C-UE		INTEGER	
Short			(015)	
>Type 3				UL only
>> Midamble	M		ENUMERATED (4, 8,	As defined in TS
Configuration Burst			16)	25.221 [12]
Type 1 And 3				
>>Midamble	М		ENUMERATED(Defa	
Allocation Mode			ult midamble, UE	
			specific midamble)	
>>Midamble Shift	C-UE		INTEGER(015)	
Long				

Condition	Explanation
UE	The IE shall be present if the Midamble Allocation
	Mode IE is set to "UE-specific midamble".

## 9.2.3.4A Minimum Spreading Factor

Defines the minimum spreading factor the UE has the capability of receiving or transmitting.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Minimum Spreading			INTEGER	
Factor			(116)	

## 9.2.3.4B IPDL TDD parameters

The IPDL TDD Parameters IE provides the information for the IPDL Configuration applied in 3.84Mcps TDD mode.

IE/Group name	Presence	Range	IE Type and Reference	Semantics Description
IP Spacing TDD	М		ENUMERAT ED(30,40,50 , 70, 100,)	See TS 25.224 [22]
IP Start	М		INTEGER(0. .4095)	See TS 25.224 [22]
IP Slot	М		INTEGER(0. .14)	See TS 25.224 [22]
IP P-CCPCH	М		ENUMERAT ED(Switch off 1 frame, Switch off 2 frames)	See TS 25.224 [22]
Burst mode parameters	0		9.2.1.4B	

### 9.2.3.4Bb IPDL TDD parameters LCR

The *IPDL TDD Parameters LCR* IE provides the information for the IPDL Configuration applied in 1.28Mcps TDD mode.

IE/Group name	Presence	Range	IE Type and Reference	Semantics Description
IP Spacing TDD	М		ENUMERAT ED(30,40,50 , 70, 100,)	See TS 25.224 [22]
IP Start	М		INTEGER(0. .4095)	See TS 25.224 [22]
IP_Sub	М		ENUMERAT ED(First,Sec ond,Both)	See TS 25.224 [22]
Burst mode parameters	0		9.2.1.4B	

#### 9.2.3.4C Midamble shift LCR

This information element indicates midamble allocation in 1.28Mcps TDD.

Three different midamble allocation schemes exist:

- Default midamble: the midamble is allocated by layer 1 depending on the associated channelisation code (DL and UL);
- Common midamble: the midamble is allocated by layer 1 depending on the number of channelisation codes (possible in DL only);
- UE specific midamble: a UE specific midamble is explicitly assigned (DL and UL).

IE/Group name	Presence	Range	IE Type and Reference	Semantics Description
Midamble Allocation Mode	M		ENUMERAT ED(Default midamble, Common midamble, UE specific midamble,)	
Midamble Shift Long	C-UE		INTEGER(0. .15)	
Midamble Configuration LCR	М		ENUMERAT ED (2, 4, 6, 8, 10, 12, 14, 16,)	As defined in TS 25.221 [12]

Condition	Explanation
UE	The IE shall be present if the Midamble Allocation
	Mode IE is set to "UE-specific midamble".

### 9.2.3.4D Neighbouring TDD Cell Information LCR

Void

## 9.2.3.5 Primary CCPCH RSCP

Received Signal Code Power is the received power on PCCPCH of the target cell after despreading. The reference point for the RSCP is the antenna connector at the UE, see ref. TS 25.225 [14].

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Primary CCPCH RSCP			INTEGER( 091)	According to mapping of the non-negative values in ref. TS 25.123 [24].

### 9.2.3.5a Primary CCPCH RSCP Delta

Primary CCPCH RSCP Delta is the offset used to report the negative reporting range of P-CCPCH RSCP as per TS 25.123 [24].

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Primary CCPCH RSCP Delta			INTEGER( -51,)	If present, the actual value of Primary CCPCH RSCP = Primary CCPCH RSCP Delta

### 9.2.3.5A PRACH Midamble

Void.

### 9.2.3.5B RB Identity

The RB Identity is the identifier of a radio bearer. It is unique for each active Radio bearer among the active radio bearers simultaneously allocated for the same UE.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
RB Identity			INTEGER (031)	In line with TS 25.331 [16], ch. 10.3.4.11

### 9.2.3.6 Repetition Length

The Repetition Length represents the number of consecutive Radio Frames inside a Repetition Period in which the same Time Slot is assigned to the same Physical Channel see ref. TS 25.331 [16].

[1.28Mcps TDD- When applied to configure the E-DCH Non-scheduled Grant Information, the Repetition Length represents the number of consecutive Subframes, i.e. 5ms inside a Repetition Period in which the same Time Slot is assigned to the same Physical Channel see ref. TS 25.331 [16].]

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Repetition Length			INTEGER(163	

## 9.2.3.7 Repetition Period

The Repetition Period represents the number of consecutive Radio Frames after which the same assignment scheme of Time Slots to a Physical Channel is repeated. This means that if the Time Slot *K* is assigned to a physical channel in the Radio Frame *J*, it is assigned to the same physical channel also in all the Radio Frames J+n\*Repetition Period (where *n* is an integer) see ref. TS 25.331 [16].

[1.28Mcps TDD- When applied to configure the E-DCH Non-scheduled Grant Information, the Repetition Period represents the number of consecutiveSubframes, i.e. 5ms after which the same assignment scheme of Time Slots to a Physical Channel is repeated see ref. TS 25.331 [16].]

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Repetition Period			ENUMERATED	
			(1,2,4,8,16,32,6 4)	

## 9.2.3.7A Rx Timing Deviation

Measured Rx Timing Deviation as a basis for timing advance, either measured directly from a RACH burst, or calculated from the Rx Timing Deviation measurement on the USCH by adding the current Timing Advance value. For 1.28Mcps TDD this IE must be set to 0.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Rx Timing Deviation			INTEGER (0127)	As specified in TS 25.435 [5], ch. 6.2.7.6

## 9.2.3.7B Secondary CCPCH Info TDD

The *Secondary CCPCH Info TDD* IE provides information on the Secondary CCPCH that carries the logical channel SHCCH for the UE.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
TFCS	М		9.2.1.63	For the DL.	_	
TFCI Coding	Μ		9.2.3.11		_	
Secondary CCPCH		0 <maxno ofSCCPC Hs&gt;</maxno 			-	
>Time Slot	Μ		9.2.1.56		_	
>Midamble Shift And Burst Type	М		9.2.3.4		_	
>TFCI Presence	Μ		9.2.1.55		_	
>Secondary CCPCH TDD Code Information	М		9.2.3.7C		_	
>TDD Physical Channel Offset	М		9.2.3.9		_	
>Repetition Length	Μ		9.2.3.6		_	
>Repetition Period	Μ		9.2.3.7		-	
FACH		0maxnoo fFACHs			_	
>TFS	Μ		9.2.1.64	For the DL.	-	
PCH		01			_	
>TFS	М		9.2.1.64	For the DL.	_	

Range bound	Explanation
maxnoofSCCPCHs	Maximum number of Secondary CCPCHs per CCTrCH.
maxnoofFACHs	Maximum number of FACHs mapped onto a Secondary CCPCH.

# 9.2.3.7C Secondary CCPCH TDD Code Information

The Secondary CCPCH TDD Code Information IE provides TDD Channelisation Code information for all SCCPCHs of one Time Slot.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Secondary CCPCH TDD Code Information		1 <maxno OfSCCPC Hs&gt;</maxno 			-	
>TDD Channelisation Code	М		9.2.3.8		-	

Range bound	Explanation
maxnoofSCCPCHs	Maximum number of SCCPCHs for one CCTrCH.

## 9.2.3.7D Special Burst Scheduling

The number of frames between special burst transmissions during DTX.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Special Burst Scheduling			<i>INTEGE</i> R(1, 2,, 256)	Number of frames between special burst transmissions during DTX

## 9.2.3.7E Synchronisation Configuration

The Synchronisation Configuration parameters that are used by the DRNS in the Radio Link Failure/Restore procedure.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
N_INSYNC_IND	М		<i>INTEGE</i> R(1, 2,, 256)	
N_OUTSYNC_IND	М		<i>INTEGE</i> R(1, 2,, 256)	
T_RLFAILURE	М		ENUMERAT ED(0, 0.1, 0.2,, 25.5)	Unit: seconds

## 9.2.3.7F Secondary CCPCH Info TDD LCR

The *Secondary CCPCH Info TDD LCR* IE provides information on the Secondary CCPCH that carries the logical channel SHCCH for the UE.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
TFCS	Μ		9.2.1.63	For the DL.	-	
TFCI Coding	М		9.2.3.11		-	
Secondary CCPCH		0 <maxno ofSCCPC Hs&gt;</maxno 			-	
>Time Slot LCR	М		9.2.3.12a		-	
>Midamble Shift LCR	Μ		9.2.3.4C		-	
>TFCI Presence	М		9.2.1.55		_	
>Secondary CCPCH TDD Code Information LCR	М		9.2.3.7G		_	
>TDD Physical Channel Offset	М		9.2.3.9		_	
>Repetition Length	М		9.2.3.6		_	
>Repetition Period	М		9.2.3.7		_	
FACH		0 <maxno ofFACHs&gt;</maxno 			_	
>TFS	М		9.2.1.64	For the DL.	_	
РСН		01			_	
>TFS	М		9.2.1.64	For the DL.	_	

Range bound	Explanation
maxnoofSCCPCHs	Maximum number of Secondary CCPCHs per CCTrCH.
maxnoofFACHs	Maximum number of FACHs mapped onto a Secondary CCPCH.

# 9.2.3.7G Secondary CCPCH TDD Code Information LCR

The *Secondary CCPCH TDD Code Information LCR* IE provides LCR TDD Channelisation Code information for all SCCPCHs of one Time Slot.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Secondary CCPCH TDD Code Information		1 <maxno OfSCCPC Hs&gt;</maxno 			_	
>TDD Channelisation Code LCR	М		9.2.3.8a		-	
>SCCPCH Time Slot Format LCR	М		TDD DL DPCH Time Slot Format LCR 9.2.3.8E		_	

Range bound	Explanation
maxnoofSCCPCHs	Maximum number of SCCPCHs for one CCTrCH.

# 9.2.3.7H Support of 8PSK

The Support of 8PSK IE indicates whether 8PSK is supported or not.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Support of 8PSK			ENUMERAT	
			ED(supported	
			)	

## 9.2.3.7I TDD ACK NACK Power Offset

The *TDD ACK NACK Power Offset* IE indicates Power offset used in the UL in the HS-SICH between transmissions carrying positive and negative acknowledgements as per TS 25.331 [16].

Presence	Range	IE type and reference	Semantics description
		INTEGER (-	Unit: dB
		78,)	Range: -7+8 dB Step: 1 dB
	Presence	Presence Range	reference INTEGER (-

### 9.2.3.8 TDD Channelisation Code

The Channelisation Code Number indicates which Channelisation Code is used for a given Physical Channel. In TDD the Channelisation Code is an Orthogonal Variable Spreading Factor code that can have a spreading factor of 1, 2, 4, 8 or 16.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
TDD Channelisation Code			ENUMERATED ((1/1), (2/1), (2/2), (4/1), (4/4), (8/1), (8/8), (16/1), (16/16),)	

## 9.2.3.8a TDD Channelisation Code LCR

The Channelisation Code Number indicates which Channelisation Code is used for a given Physical Channel. In 1.28Mcps TDD the Channelisation Code is an Orthogonal Variable Spreading Factor code, that can have a spreading factor of 1, 2, 4, 8 or 16 and there is a choice between QPSK and 8PSK modulation.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
TDD Channelisation Code	Μ		ENUMERAT ED((1/1), (2/1), (2/2), (4/1),(4/4), (8/1), (8/8), (16/1) (16/16),)	
Modulation	M		ENUMERAT ED(QPSK, 8PSK,)	Modulation options for 1.28Mcps TDD in contrast to 3.84Mcps TDD

## 9.2.3.8A TDD DPCH Offset

The Offset represents the phase information for the allocation of a group of dedicated physical channels. The *Offset Type* IE = "No Initial Offset" is used when a starting offset is not required and the TDD Physical channel offset for each DPCH in the CCTrCH shall be directly determined from the TDD DPCH Offset. The *Offset Type* IE = "Initial Offset" is used when a starting offset is required. The TDD DPCH Offset shall map to the CFN and the TDD Physical Channel Offset for each DPCH in this CCTrCH shall calculated by TDD DPCH Offset *mod* Repetition period, see ref. TS 25.331 [16].

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
CHOICE Offset Type				
>Initial Offset				
>>TDD DPCH Offset Value	М		INTEGER	
>No Initial Offset			(0255)	
>>TDD DPCH Offset Value	M		INTEGER (063)	

## 9.2.3.8B TDD DCHs To Modify

The TDD DCHs To Modify IE provides information for DCHs to be modified.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
TDD DCHs To Modify		1 <maxno ofDCHs&gt;</maxno 			-	
>UL FP Mode	0		9.2.1.67		Ι	
>ToAWS	0		9.2.1.58		-	
>ToAWE	0		9.2.1.57		-	
>Transport Bearer Request Indicator	М		9.2.1.61		-	
>DCH Specific Info		1 <maxno ofDCHs&gt;</maxno 			_	
>>DCH ID	Μ		9.2.1.16		-	
>>CCTrCH ID	0		9.2.3.2	UL CCTrCH in which the DCH is mapped.	_	
>>CCTrCH ID	0		9.2.3.2	DL CCTrCH in which the DCH is mapped	_	
>>Transport Format Set	0		9.2.1.64	For the UL.	_	
>>Transport Format Set	0		9.2.1.64	For the DL.	_	
>>Allocation/Retention Priority	0		9.2.1.1		-	
>>Frame Handling Priority	0		9.2.1.29		_	
>>Guaranteed Rate Information	0		9.2.1.30M		YES	ignore
>>Traffic Class	0		9.2.1.58A		YES	ignore
>TNL QoS	0		9.2.1.56A		YES	ignore

Range bound	Explanation
maxnoofDCHs	Maximum number of DCHs for one UE.

## 9.2.3.8C TDD DL Code Information

The TDD DL Code Information IE provides TDD DL Code information for all DPCHs of one DL Time Slot.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
TDD DL Code Information		1 <maxno OfDPCHs</maxno 			-	
		>				
>DPCH ID	М		9.2.3.3		-	
>TDD Channelisation Code	М		9.2.3.8		_	

Range bound	Explanation
maxnoofDPCHs	Maximum number of DPCHs for one CCTrCH.

### 9.2.3.8D TDD DL Code Information LCR

The TDD DL Code Information LCR IE provides DL Code information for the RL for 1.28Mcps TDD.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
TDD DL Code Information LCR		1 <maxnoof DPCHLCR &gt;</maxnoof 			_	
>DPCH ID	М		9.2.3.5		_	
>TDD Channelisation Code LCR	М		9.2.3.8a		_	
> TDD DL DPCH Time Slot Format LCR	М		9.2.3.8E		_	

Range bound	Explanation			
maxnoOfDPCHLCR	Maximum number of DPCH in one CCTrCH for 1.28Mcps TDD			

## 9.2.3.8E TDD DL DPCH Time Slot Format LCR

TDD DL DPCH Time Slot Format LCR indicates the time slot formats used in DL DPCH for 1.28Mcps TDD (see ref. TS 25.221 [12]).

IE/Group Name	Presence	Range	IE type and reference	Semantics description
CHOICE Modulation			Telefende	
> QPSK				
>>QPSK TDD DL DPCH	М		INTEGER	
TimeSlot Format LCR			(024,)	
> 8PSK				
>>8PSK TDD DL DPCH	М		INTEGER	
TimeSlot Format LCR			(024,)	

#### 9.2.3.9 TDD Physical Channel Offset

The TDD Physical Channel Offset represents the phase information for the allocation of a non DPCH physical channel. (CFN mod Repetition Period = TDD Physical Channel Offset) see ref. TS 25.331 [16].

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
TDD Physical Channel			INTEGER	
Offset			(063)	

### 9.2.3.10 TDD TPC Downlink Step Size

This parameter indicates step size for the DL power adjustment (see ref TS 25.224 [22]).

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
TDD TPC Downlink Step Size			ENUMERAT ED(1, 2,	Unit: dB
			3,)	

## 9.2.3.10a TDD TPC Uplink Step Size

This parameter indicates step size for the UL power adjustment (see ref TS 25.224 [22]).

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
TDD TPC Uplink Step Size			ENUMERAT ED (1, 2, 3,)	Unit: dB

#### 9.2.3.10A TDD UL Code Information

The TDD UL Code Information IE provides TDD UL Code information for all DPCHs of one UL Time Slot.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
TDD UL Code Information		1 <maxno OfDPCHs</maxno 			_	
		>				
>DPCH ID	М		9.2.3.3		_	
>TDD Channelisation Code	М		9.2.3.8		_	

Range bound	Explanation
maxnoofDPCHs	Maximum number of DPCHs for one CCTrCH.

### 9.2.3.10B TDD UL Code Information LCR

The TDD UL Code Information LCR IE provides information for UL Code to be established for 1.28Mcps TDD.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
TDD UL Code Information LCR		1 <maxno OfDPCH LCR&gt;</maxno 			_	
>DPCH ID	М		9.2.3.5		-	
>TDD Channelisation Code LCR	М		9.2.3.8a		-	
> TDD UL DPCH Time Slot Format LCR	М		9.2.3.10C		_	

Range bound	Explanation
maxnoOfDPCHLCR	Maximum number of DPCH in one CCTrCH for 1.28Mcps TDD.

### 9.2.3.10C TDD UL DPCH Time Slot Format LCR

TDD UL DPCH Time Slot Format LCR indicates the time slot formats used in UL DPCH for 1.28Mcps TDD (see ref. TS 25.221 [12]).

IE/Group Name	Presence	Range	IE type and reference	Semantics description
CHOICE Modulation				
> QPSK				
>>QPSK TDD UL DPCH	М		INTEGER	
Time Slot Format LCR			(069,)	
> 8PSK				
>>8PSK TDD UL DPCH	М		INTEGER	
Time Slot Format LCR			(024,)	

### 9.2.3.10D 1.28 Mcps TDD uplink physical channel capability

*1.28 Mcps TDD uplink physical channel capability* IE defines the UE uplink physical channel capability for 1.28 Mcps TDD.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Maximum Number of timeslots per subframe	М		INTEGER (16)	
Maximum number of physical channels per timeslot	М		ENUMERATED (1,2,3,4)	

## 9.2.3.11 TFCI Coding

The TFCI Coding describes how the TFCI bits are coded. By default 1 TFCI bit is coded with 4 bits, 2 TFCI bits are coded with 8 bits, 3-5 TFCI bits are coded with 16 bits and 6-10 TFCI bits are coded with 32 bits.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
TFCI Coding			ENUMERATE	
-			D(4, 8, 16,	
			32,)	

## 9.2.3.12 DL Timeslot ISCP

DL Timeslot ISCP is the measured interference in a downlink timeslot at the UE, see ref. TS 25.225 [14].

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
DL Timeslot ISCP			INTEGER( 091)	According to mapping in TS 25.123 [24].

### 9.2.3.12a Time Slot LCR

The Time Slot LCR is the number of the traffic time slot within a 5 ms subframe of LCR TDD.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Time Slot LCR			INTEGER	
			(06)	

### 9.2.3.12A Timing Advance Applied

Defines the need for Timing Advance functions such as Rx Timing Deviation measurement in a particular cell.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Timing Advance Applied			ENUMERAT ED(Yes, No)	

### 9.2.3.13 Transport Format Management

Defines whether the cell transmits the transport format information via broadcast or whether the transport format information is transmitted to the UE using dedicated RRC procedures

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Transport Format			ENUMERAT	
Management			ED(Cell	
			Based, UE	
			Based,)	

## 9.2.3.13A UL Timeslot ISCP

UL Timeslot ISCP is the measured interference in a uplink timeslot at the DRNS, see ref. TS 25.225 [14].

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
UL Timeslot ISCP			INTEGER( 0127)	According to mapping in TS 25.123 [24].

## 9.2.3.13B UL PhysCH SF Variation

Indicates whether variation of SF in UL is supported by Radio Link or not.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
UL PhysCH SF Variation			ENUMERAT ED(SF_Vari ation_suppor ted, SF_Variation _NOT_supp orted)	

## 9.2.3.13C UL Timeslot Information

The UL Timeslot Information IE provides information on the time slot allocation for a UL DPCH.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
UL Timeslot Information		1 <maxno OfTS&gt;</maxno 			_	
>Time Slot	М		9.2.1.56		_	
>Midamble Shift And Burst Type	М		9.2.3.4		_	
>TFCI Presence	М		9.2.1.55		-	
>UL Code Information	М		TDD UL Code Information 9.2.3.10A		-	

Range bound	Explanation
maxnoofTSs	Maximum number of Timeslots for a UE.

### 9.2.3.13D UL Time Slot ISCP Info

The UL Time Slot ISCP Info IE gives interference level for each UL time slot within the Radio Link.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
UL Time Slot ISCP Info		1 <maxnoof ULts&gt;</maxnoof 			-	
>Time Slot	М		9.2.1.56		-	
>UL Timeslot ISCP	М		9.2.3.13A		_	

Range bound	Explanation
maxnoofULts	Maximum number of uplink time slots per Radio Link.

### 9.2.3.13E TSTD Indicator

Indicates if TSTD shall be active or not for the DL DPCH.

IE/Group Name	Presence	Range	IE Type and	Semantics Description
			Reference	
TSTD Indicator			ENUMERAT	
			ED(active,	
			inactive)	

### 9.2.3.13F TSTD Support Indicator

Indicates if UE support TSTD or not for DL DPCH.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
TSTD Support Indicator			ENUMERAT ED(TSTD supported, TSTD not supported)	

### 9.2.3.13Fa UE Measurement Hysteresis Time

The UE Measurement Hysteresis Time provides the duration during which a reporting criterion has to be fulfilled for the UE Measurement Reporting procedure to be triggered, see TS 25.331 [16].

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
UE Measurement			INTEGER(0	Unit: dB
Hysteresis Time			15)	Range: 07.5 dB
				Step: 0.5 dB

### 9.2.3.13Fb UE Measurement Parameter Modification Allowed

Indicates if the SRNC may modify the UE measurement parameters based on its existing measurement schedule.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
UE Measurement Parameter Modification			ENUMERAT ED	
Allowed			(Parameter	
			Modification	
			Allowed,)	

## 9.2.3.13Fc UE Measurement Report Characteristics

The UE Measurement Report Characteristics, defines how the reporting shall be performed. For definition of the event criteria see TS 25.331 [16].

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
CHOICE UE Report Characteristics				
>Periodic				
>>Amount of Reporting	M		ENUMERAT ED(1, 2, 4, 8, 16, 32, 64, infinity)	
>>Reporting Interval	М		ENUMERAT ED (250, 500, 1000, 2000, 3000, 4000, 6000, 8000, 12000, 16000, 20000, 24000, 28000, 32000, 64000)	Indicates the interval of periodical report interval in milliseconds
>Event 1h				
>>UE Measurement Threshold	М		9.2.3.13Fd	The threshold for which the DRNS shall trigger a measurement report.
>>UE Measurement Time to Trigger	M		9.2.3.13Fg	
>>Hysteresis	M		9.2.3.13Fa	
>Event 1i				
>>UE Measurement Threshold	М		9.2.3.13Fd	The threshold for which the DRNS shall trigger a measurement report.
>>UE Measurement Time to Trigger	M		9.2.3.13Fg	
>>Hysteresis	M		9.2.3.13Fa	
>Event 6a				
>>UE Measurement Threshold	М		9.2.3.13Fd	
>>UE Measurement Time to Trigger	М		9.2.3.13Fg	
>Event 6b				
>>UE Measurement Threshold	М		9.2.3.13Fd	
>>UE Measurement Time to Trigger	М		9.2.3.13Fg	
>Event 6c				
>>UE Measurement Time to Trigger	М		9.2.3.13Fg	
>Event 6d				
>>UE Measurement Time to Trigger	М		9.2.3.13Fg	

## 9.2.3.13Fd UE Measurement Threshold

The Measurement Threshold defines which threshold that shall trigger Event 1h, 1i, 6a or 6b, see TS 25.331 [16].

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
CHOICE UE Measurement Threshold				
>Timeslot ISCP				
>>Timeslot ISCP	М		INTEGER (-11525)	In dBm
>UE Tx Power				
>>UE Transmitted Power	М		INTEGER(- 5033)	In dBm

### 9.2.3.13Fe UE Measurement Timeslot Information HCR

The *UE Measurement Time Slot Information* IE provides information for DL timeslots for the UE to measure, see TS 25.331 [16].

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
UE Measurement Timeslot Information		1 <maxnoofts></maxnoofts>		
>Time Slot	М		9.2.1.56	
>Burst Type	М		ENUMERAT ED(Type1, Type 2, Type 3,)	

Range bound	Explanation
maxnoofTSs	Maximum number of Timeslots for a UE for 3.84Mcps TDD.

### 9.2.3.13Ff UE Measurement Timeslot Information LCR

The *UE Measurement Time Slot Information LCR* IE provides information for DL timeslots for the UE to measure, see TS 25.331 [16].

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
UE Measurement Time Slot Information LCR		1 <maxnooftslcr &gt;</maxnooftslcr 		
>Time Slot LCR	М		9.2.3.12a	

Range bound	Explanation	
maxnoOfTSLCR	Maximum number of Timeslots for a UE for 1.28Mcps TDD	

### 9.2.3.13Fg UE Measurement Time to Trigger

The UE time to trigger indicates the period of time between the timing of event detection and the timing of sending Measurement Report, see TS 25.331 [16].

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
UE Measurement Time to trigger	М		ENUMERAT ED(0, 10, 20, 40, 60, 80, 100, 120,	Time in ms.

160, 200,	
240, 320,	
640, 1280,	
2560, 5000)	

### 9.2.3.13Fh UE Measurement Type

The UE Measurement Type identifies the type of measurement that shall be performed see TS 25.331 [16].

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
UE Measurement Type	М		ENUMERAT	
			ED(Primary	
			CCPCH	
			RSCP, DL	
			Timeslot	
			ISCP, UE	
			Transmitted	
			Power,)	

### 9.2.3.13Fi UE Measurement Value

The UE Measurement Value shall be the most recent value for this measurement, for which the reporting criteria were met.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
CHOICE UE Measurement Value	Μ			
>UE Transmitted Power				
>>UE Transmitted Power list HCR		0 <maxnoofts></maxnoofts>		Mandatory for 3.84Mcps TDD, not applicable to 1.28Mcps TDD or 7.68Mcps TDD
>>>Time Slot	М		9.2.1.56	
>>>UE Transmitted Power	М		INTEGER (0104)	According to mapping in TS 25.123 [24] Values 020 are not used
>>UE Transmitted Power list LCR		0< maxnoOfTSLCR>		Mandatory for 1.28Mcps TDD, not applicable to 3.84Mcps TDD or 7.68Mcps TDD
>>>Time Slot LCR	Μ		9.2.3.12a	
>>>UE Transmitted Power	М		INTEGER (0104)	According to mapping in TS 25.123 [24] Values 020 are not used
>>UE Transmitted Power list 768		0 <maxnoofts></maxnoofts>		Mandatory for 7.68Mcps TDD, not applicable to 1.28Mcps TDD or 3.84Mcps TDD
>>>Time Slot	М		9.2.1.56	
>>>UE Transmitted Power	М		INTEGER (0104)	According to mapping in TS 25.123 [24] Values 020 are not used
>P-CCPCH RSCP				
>>Primary CCPCH RSCP	0		9.2.3.5	According to mapping in TS 25.123 [24]
>>Primary CCPCH RSCP Delta	0		9.2.3.5a	According to mapping in TS 25.123 [24]
>DL Timeslot ISCP				
>>Timeslot list HCR		0 <maxnoofts></maxnoofts>		Mandatory for 3.84Mcps TDD, not applicable to 1.28Mcps TDD or 7.68Mcps TDD
>>>Time Slot	Μ		9.2.1.56	
>>>Timeslot	М		9.2.3.12	

ISCP				
>>Timeslot list LCR		0 <maxnooftsl CR&gt;</maxnooftsl 		Mandatory for 1.28Mcps TDD, not applicable to 3.84Mcps TDD or 7.68Mcps TDD
>>>Time Slot LCR	М		9.2.3.12a	
>>>Timeslot ISCP	М		9.2.3.12	
>>Timeslot list 768		0 <maxnoofts></maxnoofts>		Mandatory for 7.68Mcps TDD, not applicable to 1.28Mcps TDD or 3.84Mcps TDD
>>>Time Slot	М		9.2.1.56	
>>>Timeslot ISCP	М		9.2.3.12	

Range bound	Explanation
maxnoOfTS	Maximum number of Timeslots for a UE for 3.84Mcps TDD or
	7.68Mcps TDD.
maxnoofTSLCR	Maximum number of Timeslots for a UE for 1.28Mcps TDD.

# 9.2.3.13Fj UE Measurement Value Information

The *UE Measurement Value Information* IE provides information both on whether or not the UE Measurement Value is provided in the message and if provided also the UE Measurement Value itself.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
CHOICE Measurement Availability Indicator	М			
>Measurement Available				
>>UE Measurement Value	М		9.2.3.13Fi	
>Measurement not Available			NULL	

## 9.2.3.13G UL Timeslot Information LCR

The UL Timeslot Information LCR IE provides information on the timeslot allocation for an UL DPCH.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
UL Timeslot Information LCR		1 <maxn oofULts LCR&gt;</maxn 			_	
>Time Slot LCR	Μ		9.2.3.12a		-	
>Midamble Shift LCR	Μ		9.2.3.4C		-	
>TFCI Presence	Μ		9.2.1.57		-	
>UL Code Information LCR	М		TDD UL Code Information LCR 9.2.3.10B			
>PLCCH Information	0		9.2.3.17		YES	ignore

Range bound	Explanation
maxnoofULtsLCR	Maximum number of Uplink time slots per Radio Link for 1.28Mcps
	TDD.

## 9.2.3.13H UL Time Slot ISCP Info LCR

The *UL Time Slot ISCP Info LCR* IE provides information for UL Interference level for each time slot within the Radio Link for 1.28Mcps TDD.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
UL Time Slot ISCP Info		1 <maxnooful tsLCR&gt;</maxnooful 			-	
>Time Slot LCR	М		9.2.3.12a		_	
>UL Timeslot ISCP	М		9.2.3.26A			

Range bound	Explanation
maxnoofULtsLCR	Maximum number of Uplink time slots per Radio Link for 1.28Mcps
	TDD

### 9.2.3.13I Uplink Synchronisation Frequency

The UL Synchronisation Frequency IE specifies the frequency of the adjustment of the uplink transmission timing.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Uplink synchronisation frequency			INTEGER (18)	Unit: subframe, step: 1

### 9.2.3.13J Uplink Synchronisation Step Size

The UL Synchronisation Step Size IE specifies the step size to be used for the adjustment of the uplink transmission timing.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Uplink synchronisation step size			INTEGER (18)	Unit: 1/8 chip, step: 1.

## 9.2.3.13K Uplink Timing Advance Control LCR

The Uplink Timing Advance Control LCR indicates the parameters which are used to support Uplink Synchronisation for the UE in 1.28Mcps TDD.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
SYNC UL codes bitmap	M		BITSTRING (8)	Each bit indicates the availability of a SYNC_UL code.
FPACH info		1		
>Time Slot LCR	М		9.2.3.12a	
>TDD Channelisation Code LCR	Μ		9.2.3.8a	
>Midamble Shift LCR	М		9.2.3.4C	
>WT	M		INTEGER (14)	Maximum number of subframes to wait for transmission of FPACH.
PRXupPCHdes	М		INTEGER (-120 – 58,)	Desired UpPCH receive power. Unit: dBm Step size: 1
SYNC UL procedure parameters		1		
>Maximum Sync UL transmissions	М		ENUMERATED (1,2,4,8,)	
>Power Ramp Step	М		INTEGER (03,)	
Mmax	М		INTEGER (132)	Maximum number of synchronisation attempts

## 9.2.3.13L USCH ID

The USCH ID is the identifier of an uplink shared channel. It is unique among the USCHs simultaneously allocated for the same UE.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
USCH ID			INTEGER (0255)	

# 9.2.3.14 USCH Information

The USCH Information IE provides information for USCHs to be established.

IE/Group Name	Presenc e	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
USCH Information		1 to <maxnoofu SCHs&gt;</maxnoofu 			-	
>USCH ID	Μ		9.2.3.14		-	
>CCTrCH ID	М		9.2.3.2	UL CCTrCH in which the USCH is mapped	_	
>TrCH Source Statistics Descriptor	М		9.2.1.65		-	
>Transport Format Set	М		9.2.1.64	For USCH	_	
>Allocation/Retention Priority	М		9.2.1.1		_	
>Scheduling Priority Indicator	М		9.2.1.51A		-	
>RB Info		1 <maxnoof RB&gt;</maxnoof 		All Radio Bearers using this USCH	_	
>>RB Identity	М		9.2.3.5B		_	
>Traffic class	М		9.2.1.58A		YES	ignore
>Binding ID	0		9.2.1.3	Shall be ignored if bearer establishme nt with ALCAP.	YES	ignore
>Transport Layer Address	0		9.2.1.62	Shall be ignored if bearer establishme nt with ALCAP.	YES	ignore
>TNL QoS	0		9.2.1.56A		YES	ignore

Range bound	Explanation
maxnoofUSCHs	Maximum number of USCHs for one UE.
maxnoofRBs	Maximum number of Radio Bearers for one UE.

# 9.2.3.16 Support of PLCCH

The Support of PLCCH IE indicates whether PLCCH is supported or not.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Support of PLCCH			ENUMERAT	
			ED(supported	
			)	

### 9.2.3.17 PLCCH Information

The PLCCH Information IE carres a PLCCH assignment for a timeslot of an UL DCH-type CCTrCH.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
TDD Channelisation Code	Μ		9.2.3.8	Only QPSK modulation is used with PLCCH
Time Slot LCR	Μ		9.2.3.12a	
Midamble Shift LCR	Μ		9.2.3.4C	
PLCCH Sequence Number	М		9.2.3.18	

#### 9.2.3.18 PLCCH Sequence Number

This sequence number represents a portion of a PLCCH used to signal TPC / SS bits to a single UE. A value of zero indicates that the PLCCH assignment has been deleted.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
PLCCH Sequence Number			INTEGER (014)	

#### 9.2.3.19 Minimum Spreading Factor 7.68Mcps

Defines the minimum spreading factor the UE has the capability of receiving or transmitting for 7.68Mcps TDD.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Minimum Spreading Factor 768			INTEGER (132)	

#### 9.2.3.20 Maximum Number of DL Physical Channels 7.68Mcps

Defines the maximum number of physical channels for 7.68Mcps TDD – per frame that the UE is capable to receive.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Maximum Number of DL			INTEGER	
Physical Channels 768			(1448)	

#### 9.2.3.21 Maximum Number of DL Physical Channels per Timeslot 7.68Mcps

Defines the maximum number of physical channels per timeslot that the UE is capable to receive for 7.68 Mcps TDD.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Maximum Number of DL			INTEGER	
Physical Channels per			(132)	
Timeslot 768				

#### 9.2.3.22 Secondary CCPCH Info 7.68Mcps TDD

The Secondary CCPCH Info 7.68Mcps TDD IE provides information on the Secondary CCPCH that carries the logical channel SHCCH for the UE for 7.68Mcps TDD.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
TFCS	М		9.2.1.63	For the DL.	-	
TFCI Coding	М		9.2.3.11		_	
Secondary CCPCH		0 <maxno ofSCCPC Hs768&gt;</maxno 			-	
>Time Slot	М		9.2.1.56		_	
>Midamble Shift And Burst Type 7.68Mcps	М		9.2.3.23		_	
>TFCI Presence	М		9.2.1.55		-	
>Secondary CCPCH TDD Code Information 7.68Mcps	М		9.2.3.24		_	
>TDD Physical Channel Offset	М		9.2.3.9		_	
>Repetition Length	М		9.2.3.6		_	
>Repetition Period	Μ		9.2.3.7		-	
FACH		0maxnoo fFACHs			-	
>TFS	М		9.2.1.64	For the DL.	-	
PCH		01			_	
>TFS	М		9.2.1.64	For the DL.	-	

Range bound	Explanation
maxnoofSCCPCHs768	Maximum number of Secondary CCPCHs per CCTrCH.
maxnoofFACHs	Maximum number of FACHs mapped onto a Secondary CCPCH.

#### 9.2.3.23 Midamble Shift And Burst Type 7.68Mcps

This information element indicates burst type and midamble allocation for 7.68Mcps TDD.

Three different midamble allocation schemes exist:

- Default midamble: the midamble is allocated by layer 1 depending on the associated channelisation code (DL and UL);
- Common midamble: the midamble is allocated by layer 1 depending on the number of channelisation codes (possible in DL only);
- UE specific midamble: a UE specific midamble is explicitly assigned (DL and UL).

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
CHOICE Burst Type				
>Type 1				
>> Midamble	М		ENUMERATED(4, 8, 16)	As defined in TS 25.221
Configuration Burst Type 1 And 3			10)	[12]
>>Midamble Allocation Mode	М		ENUMERATED(Defa ult midamble, Common midamble, UE specific midamble)	
>>Midamble Shift Long	C-UE		INTEGER(015)	
>Type 2				
>> Midamble Configuration Burst Type 2	М		ENUMERATED (4, 8)	As defined in TS 25.221 [12]
>>Midamble Allocation Mode	М		ENUMERATED(Defa ult midamble, Common midamble, UE specific midamble)	
>>Midamble Shift Short	C-UE		INTEGER (07)	
>Type 3				UL only
>> Midamble Configuration Burst Type 1 And 3	М		ENUMERATED (4, 8, 16)	As defined in TS 25.221 [12]
>>Midamble Allocation Mode	М		ENUMERATED(Defa ult midamble, UE specific midamble)	
>>Midamble Shift Long	C-UE		INTEGER(015)	

Condition	Explanation
UE	The IE shall be present if the Midamble Allocation
	Mode IE is set to "UE-specific midamble".

### 9.2.3.24 Secondary CCPCH TDD Code Information 7.68Mcps

The Secondary CCPCH TDD Code Information 7.68Mcps IE provides TDD Channelisation Code information for all SCCPCHs of one Time Slot for 7.68Mcps TDD.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Secondary CCPCH TDD Code Information 7.68Mcps		1 <maxno OfSCCPC Hs768&gt;</maxno 			-	
>TDD Channelisation Code 7.68Mcps	М		9.2.3.25		_	

Range bound	Explanation
maxnoofSCCPCHs768	Maximum number of SCCPCHs for one CCTrCH.

### 9.2.3.25 TDD Channelisation Code 7.68Mcps

The Channelisation Code Number indicates which Channelisation Code is used for a given Physical Channel. In 7.68Mcps TDD the Channelisation Code is an Orthogonal Variable Spreading Factor code that can have a spreading factor of 1, 2, 4, 8, 16 or 32.

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IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
TDD Channelisation Code			ENUMERATED((1/1) , (2/1), (2/2), (4/1), (4/4), (8/1), (8/8), (16/1), (16/16), (32/1), (32,32),)	

#### 9.2.3.26 UL Timeslot Information 7.68Mcps

The UL Timeslot Information IE provides information on the time slot allocation for a UL DPCH for 7.68Mcps TDD.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
UL Timeslot Information		1 <maxno OfTS&gt;</maxno 			-	
>Time Slot	М		9.2.1.56		-	
>Midamble Shift And Burst Type 7.68Mcps	М		9.2.3.23		_	
>TFCI Presence	М		9.2.1.55		-	
>UL Code Information 7.68Mcps	М		TDD UL Code Information 7.68Mcps 9.2.3.27		_	

Range bound	Explanation
maxnoofTSs	Maximum number of Timeslots for a UE.

#### 9.2.3.27 TDD UL Code Information 7.68Mcps

The *TDD UL Code Information 7.68Mcps* IE provides TDD UL Code information for all DPCHs of one UL Time Slot for 7.68Mcps TDD.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
TDD UL Code Information		1 <maxno OfDPCHs 768&gt;</maxno 			-	
>DPCH ID	М		9.2.3.3		-	
>TDD Channelisation Code 7.68Mcps	М		9.2.3.25		—	

Range bound	Explanation
maxnoofDPCHs768	Maximum number of DPCHs for one CCTrCH.

#### 9.2.3.28 DL Timeslot Information 7.68Mcps

The *DL Timeslot Information 7.68Mcps* IE provides information on the time slot allocation for a DL DPCH for 7.68Mcps TDD.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
DL Timeslot Information		1 <maxno OfTS&gt;</maxno 			-	
>Time Slot	М		9.2.1.56		—	
>Midamble Shift And Burst Type 7.68Mcps	М		9.2.3.23		_	
>TFCI Presence	М		9.2.1.55		-	
>DL Code Information 7.68Mcps	M		TDD DL Code Information 7.68Mcps 9.2.3.29		_	

Range bound	Explanation
maxnoofTSs	Maximum number of Timeslots for a UE.

#### 9.2.3.29 TDD DL Code Information 7.68Mcps

The *TDD DL Code Information* IE provides TDD DL Code information for all DPCHs of one DL Time Slot for 7.68Mpcs TDD.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
TDD DL Code Information		1 <maxno OfDPCHs 768&gt;</maxno 			_	
>DPCH ID	Μ		9.2.3.3		-	
>TDD Channelisation Code 7.68Mcps	Μ		9.2.3.25		_	

Range bound	Explanation
maxnoofDPCHs768	Maximum number of DPCHs for one CCTrCH.

### 9.2.3.30 Rx Timing Deviation 7.68Mcps

Measured Rx Timing Deviation as a basis for timing advance, either measured directly from a RACH burst, or calculated from the Rx Timing Deviation measurement on the USCH by adding the current Timing Advance value..

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Rx Timing Deviation			INTEGER	As specified in TS 25.435 [5]
			(01023)	

#### 9.2.3.31 Cell Capability Container 7.68 Mcps TDD

The Cell Capability Container 7.68 McpsTDD indicates which functionalities a cell supports.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Cell Capability Container TDD			BIT STRING (32)	Each bit indicates whether a cell supports a particular functionality or not. The value 1 of a bit indicates that the corresponding functionality is supported in a cell and value 0 indicates that the corresponding functionality is not supported in a cell. Each bit is defined as follows. The first bit: Delayed Activation Support Indicator. The second bit: HS-DSCH Support Indicator. The third bit: DSCH Support Indicator. The fourth bit: Flexible MAC- d PDU Size Support Indicator. Note that undefined bits are considered as a spare bit and spare bits shall be set to 0 by the transmitter and shall be ignored by the receiver.

#### 9.2.3.32 Neighbouring TDD Cell Measurement Information 7.68Mcps

This IE provides information on the 7.68Mcps TDD neighbouring cells used for the purpose of Measurements. Since the measurement can be performed on every time slot and midamble shift, the *Time slot* IE and *Midamble shift and burst type* IE shall be included if available.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
UTRAN Cell Identifier	Μ		9.2.1.71	
UARFCN	М		9.2.1.66	Corresponds to Nt TS 25.304 [15]
Cell Parameter ID	М		9.2.1.8	
Time slot	0		9.2.1.56	
Midamble Shift And Burst Type 7.68Mcps	0		9.2.3.23	

#### 9.2.3.33 UE Measurement Timeslot Information 7.68Mcps

The *UE Measurement Time Slot Information* IE provides information for DL timeslots for the UE to measure, see TS 25.331 [16].

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
UE Measurement		1 <maxnoofts></maxnoofts>		
Timeslot Information				
>Time Slot	М		9.2.1.56	
>Burst Type	М		ENUMERATED	
			(Type1, Type 2,	
			Type 3,)	

Range bound	Explanation
maxnoofTSs	Maximum number of Timeslots for a UE for 7.68Mcps TDD.

#### 9.2.3.34 DPCH ID 7.68Mcps

The DPCH ID 7.68Mcps identifies unambiguously a DPCH inside a downlink Radio Link for 7.68Mcps TDD.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
DPCH ID			INTEGER (0479)	

#### 9.2.3.35 Rx Timing Deviation 3.84Mcps Extended

Measured Rx Timing Deviation as a basis for timing advance, either measured directly from a RACH burst, or calculated from the Rx Timing Deviation measurement on the USCH by adding the current Timing Advance value. This is used when the extended timing advance is in use at 3.84 Mcps.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Rx Timing Deviation			INTEGER (0511)	As specified in TS 25.435 [5]

### 9.2.3.36 E-PUCH Information

The *E-PUCH Information* IE provides parameters to configure the E-PUCH physical channel for 3.84Mcps TDD and 7.68 Mcps TDD.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	
Minimum code rate	M		INTEGER (063)	Unit: - Range: 0.0551 Step: 0.015	
Maximum code rate	М	INTEGER Unit: - (063) Range: 0.0551 Step: 0.015			
HARQ Info for E-DCH	M		ENUMERATED (rv0, rvtable)	"rv0" indicates that the UE will only use E_DCH RV index 0. "rvtable" indicates that the UE will use an RSN based RV index as specified in TS 25.211 [8]	
N <sub>E-UCCH</sub>	M		INTEGER (112)	Number of slots that are required to carry TPC and TFCI (consecutively allocated slots beginning with the first).	

# 9.2.3.36a E-PUCH Information LCR

The E-PUCH Information LCR IE provides parameters to configure the E-PUCH physical channel for 1.28Mcps TDD.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Minimum code rate	M		INTEGER (063)	Unit: - Range: 0.055 1 Step: 0.015	_	
Maximum code rate	М		INTEGER (063)	Unit: - Range: 0.0551 Step: 0.015	-	
HARQ Info for E-DCH	М		ENUMERAT ED (rv0, rvtable)	"rv0" indicates that the UE will only use E_DCH RV index 0. "rvtable" indicates that the UE will use an RSN based RV index as specified in TS 25.211 [8]	_	
PRXdes_base	М		INTEGER (-11250)	dBm. Reference Desired RX power level for E-PUCH	-	
E-PUCH TPC Step Size	М		9.2.3.10a		-	
NE-UCCH	M		INTEGER (18)	Number of E- UCCH and TPC instances within an E- DCH TTI. Details are described in TS 25.221 [12].	_	
E-PUCH Power Control GAP	0		INTEGER (1255)	Unit: Number of subframes. Reference to E-PUCH Power Control for 1.28Mcps TDD in TS 25.224 [22]. If it is not present, UE shall deem it to be infinite in which case closed loop power control shall always be used.	YES	ignore

# 9.2.3.37 E-TFCS Information TDD

Whereas the related E-DCH Transport Block sizes are standardised in TS 25.425 [32] this IE gives details on the Reference Betas.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Reference Beta Information QPSK		1 <maxnoofrefbe tas&gt;</maxnoofrefbe 		
>Reference Code Rate	Μ		INTEGER (010)	Unit: - Range: 01 Step: 0.1
>Reference Beta	Μ		INTEGER( -1516)	Unit: - Range: -15+16 Step: 1 dB
Reference Beta Information 16QAM		1 <maxnoofrefbe tas&gt;</maxnoofrefbe 		
>Reference Code Rate	М		INTEGER (010)	Unit: - Range: 01 Step: 0.1
>Reference Beta	М		INTEGER( -1516)	Unit: - Range: -15+16 Step: 1 dB

Range Bound	Explanation
maxnoofRefbetas	Maximum number of signalled reference betas

# 9.2.3.38 E-DCH MAC-d Flows Information TDD

The E-DCH MAC-d Flows Information TDD IE is used for the establishment of E-DCH MAC-d flows for TDD.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
E-DCH MAC-d Flow Specific Information		1 <maxno ofEDCHM ACdFlows &gt;</maxno 			-	
>E-DCH MAC-d Flow ID	М		9.2.1.91		-	
>Allocation/Retentio n Priority	М		9.2.1.1		-	
>TNL QoS	0		9.2.1.56A		_	
>Binding ID	0		9.2.1.3	Shall be ignored if bearer establishmen t with ALCAP.	-	
>Transport Layer Address	0		9.2.1.62	Shall be ignored if bearer establishmen t with ALCAP.	_	
>Payload CRC Presence Indicator	М		9.2.1.42		-	
>Maximum Number Of Retransmissions For E-DCH	М		9.2.1.100		-	
>E-DCH HARQ Power Offset TDD	М		9.2.3.49		-	
>E-DCH MAC-d Flow Multiplexing List	0		9.2.1.89		-	
>E-DCH Grant Type	Μ		9.2.3.43		_	
>E-DCH Logical Channel Information	М		9.2.1.92		-	
>E-DCH MAC-d Flow Retransmission Timer	0		9.2.3.49a	Mandatory for LCR TDD. Not applicable for 3.84Mcps TDD and 7.68Mcps TDD.	YES	YES
>Traffic Class	М		9.2.1.58A		YES	ignore

Range Bound	Explanation
maxnoofEDCHMACdFlows	Maximum number of E-DCH MAC-d flows

### 9.2.3.39 E-DCH Non-scheduled Grant Information TDD

The *E-DCH Non-scheduled Grant Information TDD* IE is used to specify the details of an non-scheduled grant for 3.84Mcps and 7.68Mcps TDD.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Timeslot Resource Related Information	М		9.2.3.44	
Power Resource Related Information	Μ		9.2.3.45	
Repetition Period	М		9.2.3.6	
Repetition Length	М		9.2.3.7	
TDD E-PUCH Offset	М		9.2.3.46	
TDD Channelisation Code	М		9.2.3.8	

#### 9.2.3.39a E-DCH Non-scheduled Grant Information LCR TDD

The *E-DCH Non-scheduled Grant Information LCR TDD* IE is used to specify the details of an non-scheduled grant for 1.28Mcps TDD.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Timeslot Resource Related Information LCR	М		9.2.3.44a	
Power Resource Related Information	М		9.2.3.45	
Repetition Period	М		9.2.3.6	
Repetition Length	М		9.2.3.7	
Subframe Number	Μ		ENUMERATED (0,1)	Used to indicate from which subframe of the Radio Frame indicated by <i>TDD E-</i> <i>PUCH Offset</i> IE the physical resources are assigned to the E-DCH Non-scheduled Grant.
TDD E-PUCH Offset	М		9.2.3.46	
TDD Channelisation Code	М		9.2.3.8	

#### 9.2.3.40 E-DCH TDD Information

The E-DCH TDD Information specifies the details of the maximum bit rate and processing overload level.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
E-DCH TDD Maximum Bitrate	0		9.2.3.47	
E-DCH Processing Overload Level	0		9.2.1.95	
E-DCH Power Offset for Scheduling Info	0		9.2.1.96	

#### 9.2.3.40a E-DCH TDD Information LCR

The *E-DCH TDD Information LCR* IE specifies the details of UE physical layer category, NodeB processing overload level and power offset, Maximum Number of Retransmission and E-DCH Retransmission timer for scheduling info. The *E-AGCH Inactivity Monitor Threshold* IE is used for E-AGCH channel monitoring control for scheduled transmission.

IE/Group Name	Presenc e	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
E-DCH Physical Layer Category LCR	0		9.2.3.54	If the Extended E-DCH Physical Layer Category LCR IE is included in the E-DCH TDD Information LCR IE, the E-DCH Physical Layer Category LCR IE shall be ignored.	_	Onticality
E-DCH Processing Overload Level	0		9.2.1.95		_	
E-DCH Power Offset for Scheduling Info	0		9.2.1.96		_	
Extended E-DCH Physical Layer Category LCR	0		9.2.3.54A	The Extended E- DCH Physical Layer Category LCR IE shall be used if the E- DCH Physical Layer Category has a value larger than 5.	YES	reject
Maximum Number of Retransmission for Scheduling Info LCR	0		9.2.1.100		YES	ignore
E-DCH Retransmission timer for Scheduling Info LCR	0		9.2.3.49a		YES	ignore
E-AGCH Inactivity Monitor Threshold	0		Enumerated (0, 1, 2, 4, 8, 16, 32, 64, 128, 256, 512, spare5,, infinity)	Units of subframes.	YES	ignore

# 9.2.3.41 E-DCH TDD Information Response

The *E-DCH TDD Information Response* IE provides information for E-DCH MAC-d flows that have been established or modified. It also provides additional E-DCH information determined within the Node B.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
E-DCH MAC-d Flow Specific Information		0 <maxnoofedc HMACdFlows&gt;</maxnoofedc 		
Response				
>E-DCH MAC-d Flow ID	М		9.2.1.91	
>Binding ID	0		9.2.1.3	
>Transport Layer Address	0		9.2.1.62	
E-AGCH Specific		0 <maxnoofeag< td=""><td></td><td></td></maxnoofeag<>		
Information Response		CHcodes>		
>Time Slot	Μ		9.2.1.56	
>Midamble Shift And Burst Type	М		9.2.3.4	
>TDD Channelisation Code	М		9.2.3.8	
E-HICH Information Response		01		
>Time Slot	М		9.2.1.56	
>Midamble Shift And Burst Type	М		9.2.3.4	
>TDD Channelisation Code	М		9.2.3.8	
>E-HICH Time Offset	М		9.2.3.48	
E-DCH Non-scheduled Grant Information TDD	0		9.2.3.39	
E-RNTI	0		9.2.1.94	

Range bound	Explanation
maxnoofEDCHMACdFlows	Maximum number of MAC-d flows
maxnoofEAGCHcodes	Maximum number of E-AGCHs assigned to one UE

# 9.2.3.41a E-DCH TDD Information Response 1.28Mcps

Only for 1.28Mcps TDD. The *E-DCH TDD Information Response 1.28Mcps* IE provides information for E-DCH MAC-d flows that have been established or modified. It also provides additional E-DCH information determined within the Node B.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
E-DCH MAC-d Flow		0 <maxnoofedc< td=""><td>Reference</td><td></td></maxnoofedc<>	Reference	
Specific Information		HMACdFlows>		
Response				
>E-DCH MAC-d Flow ID	М		9.2.1.91	
>Binding ID	0		9.2.1.3	
>Transport Layer	0		9.2.1.62	
Address				
E-AGCH Specific		0 <maxnoofeag< td=""><td></td><td></td></maxnoofeag<>		
Information Response		CHcodes>		
>Time Slot LCR	Μ		9.2.3.12a	
>Midamble Shift LCR	Μ		9.2.3.4C	
>TDD Channelisation	Μ		9.2.3.8	
Code				
E-HICH Scheduled		01		
specific Information				
Response				
>Scheduled		0<		
		maxNoOfEHICHc		
		odes>		
>>El	M		INTEGER (03)	E-HICH indication which is used to indicate UE on which E-HICH the feedback info is carried.
>>Time Slot LCR	М		9.2.3.12a	
>>Midamble Shift LCR	М		9.2.3.4C	
>>TDD Channelisation	М		9.2.3.8	
Code				
>Non-Scheduled		01		
>>Time Slot LCR	Μ		9.2.3.12a	
>>Midamble Shift LCR	Μ		9.2.3.4C	
>>TDD Channelisation	Μ		9.2.3.8	
Code				
>>Signature Sequence	М		INTEGER	
Group Index			(019)	
>E-HICH time offset LCR	М		9.2.3.48a	
E-DCH Non-scheduled	0		9.2.3.39a	
Grant Information LCR				
TDD				
E-RNTI	0		9.2.1.94	

Range bound	Explanation
maxnoofEDCHMACdFlows	Maximum number of MAC-d flows
maxnoofEAGCHcodes	Maximum number of E-AGCHs assigned to one UE
maxnoofEHICHcodes	Maximum number of E-HICHs assigned to one UE

### 9.2.3.42 E-DCH TDD Information to Modify

The E-DCH MAC-d Flows Information TDD IE is used for the establishment of E-DCH MAC-d flows for TDD.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
E-DCH MAC-d Flow Specific Information		1 <maxno ofEDCHM ACdFlows &gt;</maxno 			_	
>E-DCH MAC-d Flow ID	М		9.2.1.91		_	
>Allocation/Retention Priority	0		9.2.1.1		_	
>Transport Bearer Request Indicator	М		9.2.1.61		_	
>Binding ID	0		9.2.1.3	Shall be ignored if bearer establishment with ALCAP.	_	
>Transport Layer Address	0		9.2.1.62	Shall be ignored if bearer establishment with ALCAP.	-	
>TNL QoS	0		9.2.1.56A		-	
>Maximum Number Of Retransmissions For E-DCH	0		9.2.1.100		-	
>E-DCH HARQ Power Offset TDD	0		9.2.3.49		_	
>E-DCH MAC-d Flow Multiplexing List	0		9.2.1.89		_	
>E-DCH Grant Type	0		9.2.3.43		—	
>E-DCH Logical Channel To Add	0		E-DCH Logical Channel Information 9.2.1.92		_	
>E-DCH Logical Channel To Modify	0		9.2.1.93		_	
>E-DCH Logical Channel To Delete		0< maxnooflo gicalchann els>			_	
>>Logical Channel ID	М		9.2.1.97		_	
>E-DCH MAC-d Flow Retransmission Timer	0		9.2.3.49a	Applicable for 1.28Mcps TDD only	YES	ignore
>Traffic Class	0		9.2.1.58A		YES	ignore
MAC-e Reset Indicator	0		9.2.1.99		—	<u> </u>
E-DCH MAC-d PDU Size Format	0		9.2.1.91A		YES	reject

Range Bound	Explanation
maxnoofEDCHMACdFlows	Maximum number of E-DCH MAC-d flows
maxnooflogicalchannels	Maximum number of logical channels

# 9.2.3.43 E-DCH Grant Type

The *E-DCH Grant Type* identifies whether a MAC-d flow is scheduled or non-scheduled.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
E-DCH Grant Type			ENUMERATED	
			(Scheduled,	
			Non-scheduled)	

# 9.2.3.44 Timeslot Resource Related Information

The *Timeslot Resource Related Information* is a bitmap indicating which of the timeslots configured for E-DCH are allocated for non-scheduled transmissions.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Timeslot Resource Related Information			BIT STRING (13)	

#### 9.2.3.44a Timeslot Resource Related Information LCR

The *Timeslot Resource Related Information LCR* IE is a bitmap indicating which of the timeslots configured for E-DCH are allocated for non-scheduled transmissions.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Timeslot Resource Related Information LCR			BIT STRING (5)	

### 9.2.3.45 Power Resource Related Information

The *Power Resource Related Information* specifies the maximum allowed E-PUCH power resource (dB relative to  $P_{e-base}$ ) that the UE may use for non-scheduled transmissions.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Power Resource Related			INTEGER (132)	
Information			(132)	

#### 9.2.3.46 E-PUCH Offset

The E-PUCH Offset represents the CFN offset at which an non-scheduled E-DCH grant begins.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
E-PUCH Offset			INTEGER (0255)	

#### 9.2.3.47 E-DCH TDD Maximum Bitrate

The E-DCH TDD Maximum Bitrate parameter indicates the Maximum Bitrate for an E-DCH in TDD mode.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
E-DCH TDD Maximum			INTEGER	Bitrate on transport block
Bitrate			(09201,)	level. Unit is kbits per
				second.

#### 9.2.3.48 E-HICH Time Offset

The E-HICH Time Offset ( aka n<sub>E-HICH</sub> in ITU-T Rec. X.681 [19])is determined by the Node B.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
E-HICH Time Offset			INTEGER (444)	

#### 9.2.3.48a E-HICH Time Offset LCR

The E-HICH Time Offset LCR IE(aka n<sub>E-HICH</sub> in ITU-T Rec. X.681 [19])is determined by the Node B.

IE/Group Nar	ne Presence	Range	IE Type and Reference	Semantics Description
E-HICH Time Offse	t LCR		INTEGER (415)	

#### 9.2.3.49 E-DCH HARQ Power Offset TDD

The E-DCH HARQ Power Offset TDD is the power offset measured in dB.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
E-DCH HARQ Power Offset TDD			INTEGER (06)	

#### 9.2.3.49a E-DCH MAC-d Flow Retransmission Timer

The *E-DCH MAC-d Flow Retransmission Timer* IE is used in the E-DCH retransmission control as defined in ref. TS 25.425 [32].

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
E-DCH MAC-d Flow Retransmission Timer			ENUMERATED (10, 15, 20, 25, 30, 35, 40, 45, 50, 55, 60, 65, 70, 75, 80, 85, 90, 95, 100, 110, 120, 140, 160, 200, 240, 280, 320, 400, 480, 560,)	Unit: ms Node B may use this value to stop the re-transmission of the corresponding MAC-e PDU.

#### 9.2.3.50 E-DCH Non-scheduled Grant Information 7.68Mcps TDD

The *E-DCH Non-scheduled Grant Information 7.68Mcps TDD* IE is used to specify the details of an non-scheduled grant for TDD.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Timeslot Resource Related Information	М		9.2.3.44	
Power Resource Related Information	М		9.2.3.45	
Repetition Period	М		9.2.3.6	
Repetition Length	М		9.2.3.7	
TDD E-PUCH Offset	М		9.2.3.46	
TDD Channelisation Code 7.68Mcps	М		9.2.3.25	

#### 9.2.3.51 E-DCH TDD Information 7.68Mcps

The *E-DCH TDD Information* 7.68*Mcps* specifies the details of the maximum bit rate and processing overload level for 7.68Mcps TDD.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
E-DCH TDD Maximum Bitrate 7.68Mcps	0		9.2.3.53	
E-DCH Processing Overload Level	0		9.2.1.95	
E-DCH Power Offset for Scheduling Info	0		9.2.1.96	

### 9.2.3.52 E-DCH TDD Information Response 7.68Mcps

The *E-DCH TDD Information Response* 7.68*Mcps* IE provides information for E-DCH MAC-d flows that have been established or modified for 7.68Mcps TDD. It also provides additional E-DCH information determined within the Node B.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
E-DCH MAC-d Flow		0 <maxnoofedc< td=""><td></td><td></td></maxnoofedc<>		
Specific Information		HMACdFlows>		
Response				
>E-DCH MAC-d Flow ID	Μ		9.2.1.91	
>Binding ID	0		9.2.1.3	
>Transport Layer Address	0		9.2.1.62	
E-AGCH Specific		0 <maxnoofeag< td=""><td></td><td></td></maxnoofeag<>		
Information Response		CHcodes>		
7.68Mcps		CITCOUES>		
>Time Slot	М		9.2.1.56	
>Midamble Shift And	M		9.2.3.23	
Burst Type 7.68Mcps	IVI		9.2.3.25	
>TDD Channelisation	М		9.2.3.25	
Code 7.68Mcps				
E-HICH Information		01		
Response 7.68Mcps				
>Time Slot	Μ		9.2.1.56	
>Midamble Shift And	М		9.2.3.23	
Burst Type 7.68Mcps				
>TDD Channelisation	М		9.2.3.25	
Code 7.68Mcps				
>E-HICH Time Offset	М		9.2.3.48	
E-DCH Non-scheduled	0		9.2.3.50	
Grant Information				
7.68Mcps TDD				
E-RNTI	0		9.2.1.94	

Range Bound	Explanation
maxnoofEDCHMACdFlows	Maximum number of E-DCH MAC-d flows
maxnoofEAGCHcodes	Maximum number of E-AGCHs assigned to one UE

#### 9.2.3.53 E-DCH TDD Maximum Bitrate 7.68Mcps

The *E-DCH TDD Maximum Bitrate* 7.68*Mcps* parameter indicates the Maximum Bitrate for an E-DCH in 7.68Mcps TDD mode.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
E-DCH TDD Maximum			INTEGER	Bitrate on transport block
Bitrate 7.68Mcps			(017713,)	level. Unit is kbits per
				second.

# 9.2.3.54 E-DCH Physical Layer Category LCR

Only for 1.28Mcps TDD. The *E-DCH Physical Layer Category LCR* IE parameter indicates the E-DCH physical layer capability of UE in LCR TDD mode.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
E-DCH Physical Layer Category LCR			INTEGER (15)	As defined in 25.306 [42]

#### 9.2.3.54A Extended E-DCH Physical layer Category LCR

Only for 1.28Mcps TDD. The *Extended E-DCH Physical Layer Category LCR* IE parameter indicates the E-DCH physical layer capability of UE in LCR TDD mode.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Extended E-DCH Physical Layer Category LCR			INTEGER(6,)	As defined in 25.306 [42]

# 9.2.3.55 UpPCH Information LCR

Only for 1.28Mcps TDD.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
UpPCH Information LCR		1 <maxfr equencyin Cell&gt;</maxfr 			EACH	ignore
>UARFCN	0		9.2.1.66		-	
>UpPCH Position LCR	0		9.2.3.56		_	

Range Bound	Explanation
maxFrequencyinCell	Maximum number of Frequency that can be defined in a Cell

# 9.2.3.56 UpPCH Position LCR

Only for 1.28Mcps TDD.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
UpPCH Position LCR			INTEGER (1127)	

# 9.2.3.57 Common E-DCH MAC-d Flow ID

The Common E-DCH MAC-d Flow ID IE is the unique identifier for one MAC-d flow on E-DCH.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Common E-DCH MAC-d Flow ID			INTEGER (0255)	

# 9.2.3.58 Common E-DCH MAC-d Flow Specific Information LCR

The *Common E-DCH MAC-d Flow Specific Information LCR* IE provides information associated to Common E-DCH MAC-d Flow used for Common E-DCH.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Common E-DCH MAC-d Flow Specific Information LCR		1 <maxnoofedc HMACdFlowsLCR &gt;</maxnoofedc 		
>Common E-DCH MAC- d Flow ID	М		9.2.3.57	
>Maximum Number Of Retransmissions For E- DCH	М		9.2.1.100	
>E-DCH HARQ Power Offset TDD	М		9.2.3.49	
>E-DCH MAC-d Flow Multiplexing List	0		9.2.1.89	
>Common E-DCH Logical Channel information	М	1 <maxnooflogica IchannelsLCR&gt;</maxnooflogica 		
>>Logical Channel ID	М		9.2.1.97	
>>Maximum MAC-d PDU Size Extended	Μ		MAC PDU Size Extended 9.2.1.34D	

Range bound	Explanation
maxnoofEDCHMACdFlowsLCR	Maximum number of E-DCH MAC-d Flows for 1.28Mcps TDD
maxnooflogicalchannelsLCR	Maximum number of logical channels

#### 9.2.3.59 MAC-es Maximum Bit Rate LCR

The *MAC-es Maximum Bit Rate LCR* IE indicates the maximum number of bits per second to be delivered over the air interface.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
MAC-es Maximum Bit Rat	e		INTEGER (0	Unit: bit/s
LCR			256,000,000,	
			)	

#### 9.2.3.60 Idle Interval Information

The *Idle Interval Information* IE indicates the idle interval used for E-UTRAN measurements by a multi-RAT UE in CELL\_DCH state. Ref TS 36.133 [64].

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
к	М		INTEGER (23)	The actual idle interval period = 2 <sup>k</sup> .
Offset	М		INTEGER (07)	The idle interval position in the period.

#### 9.2.3.61 Continuous Packet Connectivity DRX Information LCR

The *Continuous Packet Connectivity DRX Information LCR* IE defines the parameters used for Continuous Packet Connectivity DRX operation for 1.28 Mcps TDD (see ref. TS 25.213 [21]).

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigne Criticali
Enabling Delay	М		ENUMERATED (0, 1, 2, 4, 8, 16, 32, 64, 128)	Units of radio frames	-	
HS-SCCH DRX Information		1			-	
>UE DRX Cycle	М		ENUMERATED(1,2,4 ,8,16,32,64,)	Units of subframes	-	
>Inactivity Threshold for UE DRX Cycle	0		ENUMERATED(1,2,4 ,8,16,32,64,)	Units of subframes	-	
>UE DRX Offset	М		INTEGER (063)	Units of subframes. Offset of the UE DRX cycles at the given TTI	-	
>Inactivity Threshold for UE DRX Cycle Ext	0		ENUMERATED(128, 256,512,)	Units of subframes	YES	ignore
E-AGCH DRX Information		01			-	
CHOICE E-AGCH DRX information type	М				-	
>Same as HS-SCCH			NULL	Indicate the E-AGCH DRX Cycle and Offset are the same as the HS-SCCH DRX Cycle and Offset, and the E- AGCH Inactivity Monitor Threshold is absent	-	
>E-AGCH DRX parameters					-	
>>E-AGCH DRX cycle	М		ENUMERATED (1,2,4,8,16,32,64,)	Units of subframes.	-	
>>E-AGCH Inactivity Monitor Threshold	0		ENUMERATED (0, 1, 2, 4, 8, 16, 32, 64, 128, 256, 512, infinity,)	Units of subframes.	-	
>>E-AGCH DRX Offset	М		INTEGER (0 63)	Units of subframes. Offset of the E-AGCH DRX cycles.	-	

### 9.2.3.62 Continuous Packet Connectivity DRX Information To Modify LCR

The Continuous Packet Connectivity DRX Information To Modify LCR IE is used for modification of Continuous Packet Connectivity DRX information in a Node B Communication Context. The Continuous Packet Connectivity DRX Information To Modify LCR IE shall include at least one of the following IE.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigne Criticali
Enabling Delay	0		ENUMERATED (0, 1, 2, 4, 8, 16, 32, 64, 128)	Units of radio frames	-	
CHOICE DRX Information To Modify	0				-	
>Modify					-	
>>HS-SCCH DRX Information		01			-	
>>>UE DRX Cycle	М		ENUMERATED(1,2,4 ,8,16,32,64,)	Units of subframes	-	
>>>Inactivity Threshold for UE DRX Cycle	0		ENUMERATED(1,2,4 ,8,16,32,64,)	Units of subframes	-	
>>>UE DRX Offset	М		INTEGER (063)	Units of subframes. Offset of the UE DRX cycles at the given TTI	-	
>>Inactivity Threshold for UE DRX Cycle Ext	0		ENUMERATED(128, 256,512,)	Units of subframes	YES	ignore
>>E-AGCH DRX Information		01			-	
>>>CHOICE E-AGCH DRX information type	М				-	
>>>Same as HS- SCCH			NULL	Indicate the E-AGCH DRX Cycle and Offset are the same as the HS-SCCH DRX Cycle and Offset, and the E- AGCH Inactivity Monitor Threshold is absent	-	
>>>>E-AGCH DRX parameters					-	
>>>>E-AGCH DRX cycle	М		Enumerated (1,2,4,8,16,32,64,)	Units of subframes.	-	
>>>>E-AGCH Inactivity Monitor Threshold	0		Enumerated (0, 1, 2, 4, 8, 16, 32, 64, 128, 256, 512, infinity,)	Units of subframes.	-	
>>>>E-AGCH DRX Offset	М		Integer (0 63)	Units of subframes. Offset of the E-AGCH DRX cycles.	-	
>Deactivate			NULL		-	

# 9.2.3.63 Continuous Packet Connectivity DRX Information Response LCR

DRNS uses the *Continuous Packet Connectivity DRX Information Response LCR* IE to inform the SRNS the parameters used for Continuous Packet Connectivity DRX operation for 1.28 Mcps TDD (see ref. TS 25.213 [21]). Continuous Packet Connectivity DRX related parameters shall be configured by SRNS. For the parameters which can be accepted by DRNS, the DRNS shall not included the related IEs in the *Continuous Packet Connectivity DRX Information Response LCR* IE. For the parameters which can be not accepted by DRNS, the DRNS shall included the related IEs in the *Continuous Packet Connectivity DRX Information Response LCR* IE.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigne Criticali
Enabling Delay	0		ENUMERATED (0, 1, 2, 4, 8, 16, 32, 64, 128)	Units of radio frames	-	
HS-SCCH DRX Information		01			-	
>UE DRX Cycle	0		ENUMERATED(1,2,4 ,8,16,32,64,)	Units of subframes	-	
>Inactivity Threshold for UE DRX Cycle	0		ENUMERATED(1,2,4 ,8,16,32,64,)	Units of subframes	-	
>UE DRX Offset	0		INTEGER (063)	Units of subframes. Offset of the UE DRX cycles at the given TTI	-	
>Inactivity Threshold for UE DRX Cycle Ext	0		ENUMERATED(128, 256,512,)	Units of subframes. This IE can only be used when the Inactivity Threshold for UE DRX Cycle Ext is included in the request message, otherwise, the IE shall not be used	YES	ignore
E-AGCH DRX Information		01			-	
CHOICE E-AGCH DRX information type	М				-	
>Same as HS-SCCH			NULL	Indicate the E-AGCH DRX Cycle and Offset are the same as the HS-SCCH DRX Cycle and Offset, and the E- AGCH Inactivity Monitor Threshold is absent	-	
>E-AGCH DRX parameters					-	
>>E-AGCH DRX cycle	0		Enumerated (1,2,4,8,16,32,64,)	Units of subframes.	-	
>>E-AGCH Inactivity Monitor Threshold	0		Enumerated (0, 1, 2, 4, 8, 16, 32, 64, 128, 256, 512, infinity,)	Units of subframes.	-	
>>E-AGCH DRX Offset	0		Integer (0 63)	Units of subframes. Offset of the E-AGCH DRX cycles.	-	

# 9.2.3.64 HS-DSCH Semi-Persistent scheduling Information LCR

The *HS-DSCH Semi-Persistent scheduling Information LCR* IE defines the parameters used for HS-DSCH semi-Persistent scheduling for 1.28 Mcps TDD (see ref. TS 25.213 [21]).

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Transport Block Size List		1< maxnoofT BSsMappi ng >		
>Transport Block Size maping Index	M		INTEGER (0 maxnoofTBSsMappi ng-1)	Corresponds to the <i>Transport- block size information</i> field carried on HS-SCCH (see ref IETF RFC 768 [34]).
>Transport Block Size Index	M		INTEGER (1 maxnoofHS- DSCHTBSsLCR)	Corresponds to the <i>TB index</i> in the related Transport Block Size table (see ref TS 25.425 [32]).
Repetition Period list		1 <maxno ofRepetitio nPeriodLC R&gt;</maxno 		
>Repetition Period Index	М		INTEGER (0 maxnoofRepetitionP	Corresponds to the Resource repetition period index field

			eriodLCR-1)	carried on HS-SCCH (see ref IETF RFC 768 [34]).
>Repetition Period	М		ENUMERATED (1, 2, 4, 8, 16, 32, 64,)	Units of subframes
>Repetition Length	0		INTEGER (163))	Absence means Repetition Length equal to 1.
HS-DSCH Semi-Persistent Resource Reservation Indicator	0		ENUMERATED(Res erve)	Reserve means the HS-DSCH Semi-Persistent Resource is required to be reserved and be informed via response message.
HS-DSCH Semi-Persistent scheduling operation Indicator		1		
>CHOICE configuration				
>>Logical Channel level			BIT STRING (16)	Available when MAC-ehs is configured. Indicates the logical channels for which the HS-DSCH Semi- Persistent operation is intended to be used. Bit 0 is for logical channel 0, Bit 1 is for logical channel 1, Value '1' for a bit means that the HS-DSCH Semi-Persistent operation is allowed. Bit 0 is the first/leftmost bit of the bit string.
>>Priority Queue level			BIT STRING (8)	Indicates the Priority Queues for which the HS-DSCH Semi- Persistent operation is intended to be used. Bit 0 is for priority queue 0, Bit 1 is for priority queue 1, Value '1' for a bit means that the HS-DSCH Semi-Persistent operation is allowed. Bit 0 is the first/leftmost bit of the bit string.

Range Bound	Explanation
maxnoofHS-DSCHTBSsLCR	Maximum number of HS-DSCH Transport Block Sizes
maxnoofRepetitionPeriodLCR	Maximum number of Repetition Period for 1.28Mcps TDD
maxnoofTBSsMapping	Maximum number of Transport Block Size mapping index on HS-SCCH.

# 9.2.3.65 HS-DSCH Semi-Persistent scheduling Information to modify LCR

The *HS-PSCH Semi-Persistent scheduling Information to modify LCR* IE is used for the modification of HS-DSCH Semi-Persistent scheduling information for 1.28 Mcps TDD (see ref. TS 25.213 [21]).

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Transport Block Size List		0< maxnoofT BSsMappi ng >		
> Transport Block Size maping Index	М		INTEGER (0 maxnoofTBSsMappi ng-1)	Corresponds to the <i>Transport- block size information</i> field carried on HS-SCCH (see ref IETF RFC 768 [34]).
>Transport Block Size Index	Μ		INTEGER (1 maxnoofHS- DSCHTBSsLCR)	Corresponds to the <i>TB index</i> in the related Transport Block Size table (see ref TS 25.425

				[32]).
Repetition Period list		0 <maxno ofRepetitio nPeriodLC R&gt;</maxno 		
>Repetition Period Index	М		INTEGER (0 maxnoofRepetitionP eriodLCR)	Corresponds to the <i>Resource</i> repetition period index field carried on HS-SCCH (see ref IETF RFC 768 [34]).
>Repetition Period	Μ		ENUMERATED (1, 2, 4, 8, 16, 32, 64,)	Units of subframes
>Repetition Length	0		INTEGER (163))	Absence means Repetition Length equal to 1.
HS-DSCH Semi-Persistent Resource Reservation Indicator	0		ENUMERATED(Res erve)	Reserve means the Semi- Persistent HS-DSCH Resource is required to be reserved and be informed via response message.
HS-DSCH Semi-Persistent scheduling operation Indicator		01		
>CHOICE configuration				
>>Logical Channel level			BIT STRING (16)	Available when MAC-ehs is configured. Indicates the logical channels for which the HS-DSCH Semi- Persistent operation is intended to be used. Bit 0 is for logical channel 0, Bit1 is for logical channel 1, Value '1' for a bit means that the HS-DSCH Semi-Persistent operation is allowed. Bit 0 is the first/leftmost bit of the bit string.
>> Priority Queue level			BIT STRING (8)	Indicates the Priority Queues for which the HS-DSCH Semi- Persistent operation is intended to be used. Bit 0 is for prority queue 0, Bit1 is for priority queue 1, Value '1' for a bit means that the HS-DSCH Semi-Persistent operation is allowed. Bit 0 is the first/leftmost bit of the bit string.

Range Bound	Explanation
maxnoofHS-DSCHTBSsLCR	Maximum number of HS-DSCH Transport Block Sizes
maxnoofRepetitionPeriodLCR	Maximum number of Repetition Period for 1.28Mcps TDD
maxnoofTBSsMapping	Maximum number of Transport Block Size mapping index on HS-SCCH.

### 9.2.3.66 E-DCH Semi-Persistent scheduling Information LCR

The *E-DCH Semi-Persistent scheduling Information LCR* IE defines the parameters used for E-DCH semi-Persistent scheduling for 1.28 Mcps TDD (see ref. TS 25.213 [21]).

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Repetition Period list		1 <maxno< th=""><th></th><th></th></maxno<>		
		ofRepetitio		
		nPeriodL		

		CR>		
>Repetition Period Index	М		INTEGER (0 maxnoofRepetitionP eriodLCR-1)	
>Repetition Period	М		ENUMERATED (1, 2, 4, 8, 16, 32, 64,)	Units of subframes
>Repetition Length	0		INTEGER (163))	Absence means Repetition Length equal to 1.
E-DCH Semi-Persistent scheduling Indicator	M		BIT STRING (16)	Indicates the logical channels for which the E-DCH Semi- Persistent operation is intended to be used. Bit 0 is for logical channel 0, Bit1 is for logical channel 1, Value '1' for a bit means that the HS-DSCH Semi-Persistent operation is allowed. Bit 0 is the first/leftmost bit of the bit string.
E-DCH Semi-Persistent Resource Reservation Indicator	0		ENUMERATED(Res erve)	Reserve means the E-DCH Semi-Persistent Resource is required to be reserved and be informed via response message.

Range Bound	Explanation
maxnoofRepetitionPeriodLCR	Maximum number of Repetition Period for 1.28Mcps TDD

#### 9.2.3.67 E-DCH Semi-Persistent scheduling Information to modify LCR

The *E-DCH Semi-Persistent scheduling Information to modify LCR* IE is used for the modification of E-DCH Semi-Persistent scheduling information for 1.28 Mcps TDD (see ref. TS 25.213 [21]).

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Repetition Period list		0 <maxno ofRepetitio nPeriodL CR&gt;</maxno 		
>Repetition Period Index	М		INTEGER (0 maxnoofRepetitionP eriodLCR-1)	
>Repetition Period	M		ENUMERATED (1, 2, 4, 8, 16, 32, 64,)	Units of subframes
>Repetition Length	0		INTEGER (163))	Absence means Repetition Length equal to 1.
E-DCH Semi-Persistent scheduling Indicator	0		BIT STRING (16)	Indicates the logical channels for which the E-DCH Semi- Persistent operation is intended to be used. Bit 0 is for logical channel 0, Bit1 is for logical channel 1, Value '1' for a bit means that the HS-DSCH Semi-Persistent operation is allowed. Bit 0 is the first/leftmost bit of the bit string.
E-DCH Semi-Persistent Resource Reservation Indicator	0		ENUMERATED(Res erve)	Reserve means the E-DCH Semi-Persistent Resource is required to be reserved and be informed via response message.

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Range Bound	Explanation
maxnoofRepetitionPeriodLCR	Maximum number of Repetition Period for 1.28Mcps TDD

### 9.2.3.68 HS-DSCH Semi-Persistent scheduling Information Response LCR

The *HS-DSCH Semi-Persistent scheduling Information Response LCR* IE provides information for HS-DSCH Semi-Persistent scheduling determined within the Node B (see ref. TS 25.213 [21]).

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
HS-SICH information for HS- DSCH Semi-Persistent Scheduling operation		1< maxnoofH S- SICHforSP S>		
>HS-SICH mapping index	М		INTEGER (0 maxnoofHS- SICHforSPS-1)	
>CHIOCE HS-SICH type >>HS-SCCH associated HS-				
SICH >>>HS-SICH ID	М		HS SICH ID 9.2.3.3ad	
>>Non-HS-SCCH associated HS-SICH				
>>>Time Slot LCR	М		9.2.3.12a	
>>>Midamble shift LCR	М		9.2.3.4C	
>>>TDD Channelisation Code	М		9.2.3.8	
Allcoated HS-PDSCH Semi-		01		
persistent resource				
>Repetition Period Index	М		INTEGER (0 maxnoofRepetitionP eriodLCR-1)	
>Repetition Length for HS- PDSCH Semi-persistent Resouce	0		INTEGER (163))	Absence means Repetition Length equal to 1.
>HS-PDSCH offset	М		INTEGER (063))	Units of subframes
>HS-PDSCH Midamble Configuation	М		Midamble Shift LCR 9.2.3.7A	
>Timeslot Resource Related Information	Μ		BIT STRING(5)	Each bit indicates availability of a timeslot, where the bit 0 corresponds to TS2, the bit 1 is TS3, the bit 3 is TS4 bit 5 corresponds to TS6. The value 1 of a bit indicates that the corresponding timeslot is available. Bit 0 is the first/leftmost bit of the bit string.
>Start Code	М		TDD Channelisation Code 9.2.3.19	
>End Code	М		TDD Channelisation Code 9.2.3.19	
>Transport Block Size Index	М		INTEGER (0 maxnoofTBSsMappi ng-1)	
>Modulation type	М		ENUMERATED (QPSK, 16QAM)	
>HS-SICH mapping index	М		INTEGER (0 maxnoofHS- SICHforSPS-1)	

Buffer Size for HS-DSCH Semi-Persistent scheduling	0	ENUMERATED (800304000,)	Indicats the buffer size that shall be reserved for HS- DSCH semi-persistent scheduling operation. 800 16000 by step of 800, 17600 32000 by step of 1600, 36000 80000 by step of 4000, 88000 160000 by step of 8000, 176000 304000 by step of 16000
Number of Processes for HS- DSCH Semi-Persistent scheduling	0	INTEGER (116)	

Range Bound	Explanation
maxnoofHS-SICHforSPS	Maximum number of HS-SICH for HS-DSCH Semi-Persistent scheduling operation
maxnoofTBSsMapping	Maximum number of Transport Block Size mapping index on HS-SCCH.

### 9.2.3.69 E-DCH Semi-Persistent scheduling Information Response LCR

The *E-DCH Semi-Persistent scheduling Information Response LCR* IE provides information for E-DCH Semi-Persistent scheduling information determined within the Node B (see ref. TS 25.213 [21]).

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Allcoated E-DCH Semi-		01		
persistent resource				
>Timeslot Resource Related Information LCR	М		9.2.3.54a	
>Power Resource Related Information	М		9.2.3.55	
>Repetition Period Index	М		INTEGER (0 maxnoofRepetitionP eriodLCR-1)	
>Repetition Length	М		INTEGER (163))	Absence means Repetition Length equal to 1.
>Subframe Number	М		ENUMERATED ( 0,1)	Used to indicate from which subframe of the Radio Frame indicated by TDD E-PUCH Offset IE the physical resources are assigned to the E-DCH Non-scheduled Grant.
>TDD E-PUCH Offset	М		9.2.3.56	
>TDD Channelisation Code	М		9.2.3.19	
>NE-UCCH	M		INTEGER (18)	Number of E-UCCH and TPC instances within an E-DCH TTI. Details are described in ITU-T Rec. X.681 [19].
E-DCH SPS E-HICH information		01		

>CHOICE E-HICH configuration	М		
>>same as scheduled E- HICH			
>>> EI		INTEGER (03)	
>>explicit			
>>>Time Slot LCR	М	9.2.3.12a	
>>>Midamble Shift LCR	М	9.2.3.4C	
>>>TDD Channelisation Code	М	9.2.3.8	
>Signature Sequence Group Index	М	INTEGER (019)	

#### 9.2.3.70 HS-DSCH Semi-Persistent scheduling Deactivate Indicator LCR

The *HS-DSCH Semi-Persistent scheduling Deactivate Indicator LCR* IE is used to deactivate HS-DSCH Semi-Persistent scheduling operation for 1.28 Mcps TDD.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
HS-DSCH Semi-Persistent scheduling Deactivate Indicator	Μ		NULL	

#### 9.2.3.71 E-DCH Semi-Persistent scheduling Deactivate Indicator LCR

The *E-DCH Semi-Persistent scheduling Deactivate Indicator LCR* IE is used to deactivate E-DCH Semi-Persistent schedulung operation for 1.28 Mcps TDD.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
E-DCH Semi-Persistent scheduling Deactivate Indicator	Μ		NULL	

#### 9.2.3.72 HS-SICH Reference Signal Information

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Midamble Configuration LCR	M		ENUMERATE D (2, 4, 6, 8, 10, 12, 14, 16, )	As defined in ITU-T Rec. X.681 [19]		
Midamble Shift	М		INTEGER (015)			
Time Slot LCR	М		9.2.3.12a			

#### 9.2.3.73 Cell Portion LCR ID

Cell Portion LCR ID is the unique identifier for a cell portion within a cell for 1.28 Mcps TDD. See TS 25.225 [14].

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Cell Portion LCR ID			INTEGER (0255,)	

### 9.2.3.74 TS0 HS-PDSCH Indication LCR

Only for 1.28Mcps TDD. The *TSO HS-PDSCH Indication LCR* IE indicates the first bit of timeslot information included in the HS-SCCH can be used to allocate the HS-PDSCH resources on TSO.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
TS0 HS-PDSCH Indication LCR			NULL	

#### 9.2.3.75 DCH Measurement Occasion Information

The *DCH Measurement Occasion Information* IE indicates Measurement Occasion Information used for interfrequency/ inter-RAT measurements in CELL\_DCH state for 1.28Mcps TDD.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
---------------	----------	-------	--------------------------	-----------------------

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
CELL_DCH measurement occasion pattern sequence		1 to <maxdc HMeasur ementOc casionP atternSe quence&gt;</maxdc 		
>Pattern sequence identifier	М		Integer(1 maxDCHMeas urementOccasi onPatternSequ ence)	
>Status Flag	M		Enumerated(a ctivate, deactivate)	This flag indicates whether the measurement occasion pattern sequence shall be activated or deactivated.
>Measurement purpose	0		BIT STRING (5)	Measurement Purpose. Bit 0 is for Inter- frequency measurement. Bit 1 is for GSM carrier RSSI measurement. Bit 2 is for Initial BSIC identification. Bit 3 is for BSIC re- confirmation. Bit 4 is for E-UTRA measurement. The value 1 of a bit means that the measurement occasion pattern sequence is applicable for the corresponding type of measurement. Bit 0 is the first/leftmost bit of the bit string.
>Measurement occasion pattern	0			bit of the bit string.
sequence parameters >>k	M		Integer(19)	CELL_DCH measurement occasion cycle length coefficient. The actual measurement occasion period equal to 2 <sup>k</sup> radio frames. Value 0 indicates continuous allocation.
>>Offset	М		Integer(0511)	In frames. The measurement occasion position in the measurement period.
>>M_Length	М		Integer(1512)	The measurement occasion length in frames starting from the Offset.
>>Timeslot Bitmap	M		Bit string (7)	Bitmap indicating which of the timeslot(s) is/are allocated for measurement. Bit 0 is for timeslot 0. Bit 1 is for timeslot 1. Bit 2 is for timeslot 2. Bit 3 is for timeslot 3. Bit 4 is for timeslot 4. Bit 5 is for

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
				timeslot 5. Bit 6 is for timeslot 6. The value 0 of a bit means the corresponding timeslot is not used for measurement. The value 1 of a bit means the corresponding timeslot is used for measurement. Bit 0 is the first/leftmost bit of the bit string.

Condition	Explanation		
Measurementoccasionpatternsequence parameters	The IE shall be present if Measurement occasion		
	pattern sequence parameters IE is present.		

Range Bound	Explanation		
maxDCHMeasurementOccasionPatternSequence	Maximum number of measurement occasion pattern		
	sequence		

# 9.2.3.76 DCH Measurement Type Indicator

The *DCH Measurement Type Indicator* IE indicates the measurement type(s) which the DRNS shall configured for the UE with TS0 enhancement capability in CELL\_DCH state for 1.28Mcps TDD.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Measurement type	M		BIT STRING (5)	Measurement type. Bit 0 is for Inter-frequency measurement. Bit 1 is for GSM carrier RSSI measurement. Bit 2 is for Initial BSIC identification. Bit 3 is for BSIC re- confirmation. Bit 4 is for E-UTRA measurement.
				The value 1 of a bit means that the measurement occasion pattern sequence should be configured for the corresponding type of measurement. Bit 0 is the first/leftmost bit of the bit string.

# 9.3 Message and Information Element Abstract Syntax (with ASN.1)

# 9.3.0 General

Subclause 9.3 presents the Abstract Syntax of RNSAP protocol with ASN.1. In case there is contradiction between the ASN.1 definition in this subclause and the tabular format in subclause 9.1 and 9.2, the ASN.1 shall take precedence, except for the definition of conditions for the presence of conditional elements, in which the tabular format shall take precedence.

The ASN.1 definition specifies the structure and content of RNSAP messages. RNSAP messages can contain any IEs specified in the object set definitions for that message without the order or number of occurrence being restricted by ASN.1. However, for this version of the standard, a sending entity shall construct a RNSAP message according to the PDU definitions module and with the following additional rules (Note that in the following IE means an IE in the object set with an explicit id. If one IE needed to appear more than once in one object set, then the different occurrences have different IE ids):

- IEs shall be ordered (in an IE container) in the order they appear in object set definitions.
- Object set definitions specify how many times IEs may appear. An IE shall appear exactly once if the presence field in an object has value "mandatory". An IE may appear at most once if the presence field in an object has value "optional" or "conditional". If in a tabular format there is multiplicity specified for an IE (i.e. an IE list) then in the corresponding ASN.1 definition the list definition is separated into two parts. The first part defines an IE container list in which the list elements reside. The second part defines list elements. The IE container list appears as an IE of its own. For this version of the standard an IE container list may contain only one kind of list elements.

If a RNSAP message that is not constructed as defined above is received, this shall be considered as Abstract Syntax Error, and the message shall be handled as defined for Abstract Syntax Error in subclause 10.3.6.

# 9.3.1 Usage of Private Message Mechanism for Non-standard Use

The private message mechanism for non-standard use may be used:

- for special operator (and/or vendor) specific features considered not to be part of the basic functionality, i.e. the functionality required for a complete and high-quality specification in order to guarantee multivendor inter-operability.
- by vendors for research purposes, e.g. to implement and evaluate new algorithms/features before such features are proposed for standardisation.

The private message mechanism shall not be used for basic functionality. Such functionality shall be standardised.

# 9.3.2 Elementary Procedure Definitions

-- Elementary Procedure definitions

- -

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RNSAP-PDU-Descriptions {
 itu-t (0) identified-organization (4) etsi (0) mobileDomain (0)
 umts-Access (20) modules (3) rnsap (1) version1 (1) rnsap-PDU-Descriptions (0) }

DEFINITIONS AUTOMATIC TAGS ::=

BEGIN



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InformationReport, IurDeactivateTrace. IurInvokeTrace. MBMSAttachCommand, MBMSDetachCommand. MBSFNMCCHInformation, PagingRequest, PhysicalChannelReconfigurationCommand, PhysicalChannelReconfigurationFailure, PhysicalChannelReconfigurationRequestFDD, PhysicalChannelReconfigurationRequestTDD, PrivateMessage, RadioLinkActivationCommandFDD, RadioLinkActivationCommandTDD, RadioLinkAdditionFailureFDD, RadioLinkAdditionFailureTDD, RadioLinkAdditionRequestFDD, RadioLinkAdditionRequestTDD, RadioLinkAdditionResponseFDD, RadioLinkAdditionResponseTDD, RadioLinkCongestionIndication, RadioLinkDeletionRequest, RadioLinkDeletionResponse, RadioLinkFailureIndication, RadioLinkParameterUpdateIndicationFDD, RadioLinkParameterUpdateIndicationTDD, RadioLinkPreemptionRequiredIndication, RadioLinkReconfigurationCancel, RadioLinkReconfigurationCommit, RadioLinkReconfigurationFailure, RadioLinkReconfigurationPrepareFDD, RadioLinkReconfigurationPrepareTDD, RadioLinkReconfigurationReadyFDD, RadioLinkReconfigurationReadyTDD, RadioLinkReconfigurationRequestFDD, RadioLinkReconfigurationRequestTDD, RadioLinkReconfigurationResponseFDD, RadioLinkReconfigurationResponseTDD, RadioLinkRestoreIndication, RadioLinkSetupFailureFDD, RadioLinkSetupFailureTDD, RadioLinkSetupRequestFDD, RadioLinkSetupRequestTDD, RadioLinkSetupResponseFDD, RadioLinkSetupResponseTDD, RelocationCommit, ResetRequest, ResetResponse, UEMeasurementFailureIndication, UEMeasurementInitiationFailure, UEMeasurementInitiationRequest, UEMeasurementInitiationResponse, UEMeasurementReport, UEMeasurementTerminationRequest,

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SecondaryULFrequencyReport, SecondaryULFrequencyUpdateIndication, UplinkSignallingTransferIndicationFDD, UplinkSignallingTransferIndicationTDD, GERANUplinkSignallingTransferIndication FROM RNSAP-PDU-Contents id-commonMeasurementFailure, id-commonMeasurementInitiation, id-commonMeasurementReporting, id-commonMeasurementTermination, id-commonTransportChannelResourcesInitialisation, id-commonTransportChannelResourcesRelease, id-compressedModeCommand, id-downlinkPowerControl, id-downlinkSignallingTransfer, id-downlinkPowerTimeslotControl, id-enhancedRelocation, id-enhancedRelocationCancel, id-enhancedRelocationSignallingTransfer, id-enhancedRelocationRelease, id-errorIndication, id-informationExchangeFailure, id-informationExchangeInitiation, id-informationReporting, id-informationExchangeTermination, id-iurDeactivateTrace, id-iurInvokeTrace. id-dedicatedMeasurementFailure, id-dedicatedMeasurementInitiation, id-dedicatedMeasurementReporting, id-dedicatedMeasurementTermination, id-directInformationTransfer, id-mBMSAttach, id-mBMSDetach, id-mBSFNMCCHInformation, id-paging, id-physicalChannelReconfiguration, id-privateMessage, id-radioLinkActivation, id-radioLinkAddition, id-radioLinkCongestion, id-radioLinkDeletion, id-radioLinkFailure, id-radioLinkParameterUpdate, id-radioLinkPreemption, id-radioLinkRestoration, id-radioLinkSetup, id-relocationCommit, id-reset, id-synchronisedRadioLinkReconfigurationCancellation, id-synchronisedRadioLinkReconfigurationCommit, id-synchronisedRadioLinkReconfigurationPreparation, id-uEMeasurementFailure,

id-uEMeasurementInitiation, id-uEMeasurementReporting, id-uEMeasurementTermination. id-secondaryULFrequencyReporting, id-secondaryULFrequencyUpdate, id-unSynchronisedRadioLinkReconfiguration, id-uplinkSignallingTransfer, id-gERANuplinkSignallingTransfer FROM RNSAP-Constants; - -Interface Elementary Procedure Class - -- -\*\*\*\*\* RNSAP-ELEMENTARY-PROCEDURE ::= CLASS { &InitiatingMessage &SuccessfulOutcome OPTIONAL, &UnsuccessfulOutcome OPTIONAL, &Outcome OPTIONAL, &procedureID ProcedureID UNIQUE, &criticality Criticality DEFAULT ignore WITH SYNTAX { INITIATING MESSAGE &InitiatingMessage &SuccessfulOutcome] [SUCCESSFUL OUTCOME [UNSUCCESSFUL OUTCOME &UnsuccessfulOutcome] [OUTCOME &Outcome] &procedureID PROCEDURE ID [CRITICALITY &criticality] \*\*\*\*\*\*\* - --- Interface PDU Definition - -\*\*\*\*\* RNSAP-PDU ::= CHOICE { initiatingMessage InitiatingMessage, SuccessfulOutcome, successfulOutcome unsuccessfulOutcome UnsuccessfulOutcome, outcome Outcome, . . . InitiatingMessage ::= SEQUENCE procedureID RNSAP-ELEMENTARY-PROCEDURE.&procedureID ({RNSAP-ELEMENTARY-PROCEDURES}), criticality RNSAP-ELEMENTARY-PROCEDURE.&criticality ({RNSAP-ELEMENTARY-PROCEDURES}{@procedureID}), transactionID TransactionID, ({RNSAP-ELEMENTARY-PROCEDURES}{@procedureID}) value RNSAP-ELEMENTARY-PROCEDURE.&InitiatingMessage

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```
SuccessfulOutcome ::= SEQUENCE {
    procedureID RNSAP-ELEMENTARY-PROCEDURE.&procedureID
                                                          ({RNSAP-ELEMENTARY-PROCEDURES}),
    criticality RNSAP-ELEMENTARY-PROCEDURE.&criticality
                                                          ({RNSAP-ELEMENTARY-PROCEDURES}{@procedureID}),
    transactionID TransactionID,
    value
               RNSAP-ELEMENTARY-PROCEDURE. & SuccessfulOutcome
                                                              ({RNSAP-ELEMENTARY-PROCEDURES}{@procedureID})
٦
UnsuccessfulOutcome ::= SEQUENCE {
    procedureID RNSAP-ELEMENTARY-PROCEDURE.&procedureID
                                                          ({RNSAP-ELEMENTARY-PROCEDURES}),
    criticality RNSAP-ELEMENTARY-PROCEDURE.&criticality
                                                          ({RNSAP-ELEMENTARY-PROCEDURES}{@procedureID}),
    transactionID TransactionID,
               RNSAP-ELEMENTARY-PROCEDURE.&UnsuccessfulOutcome ({RNSAP-ELEMENTARY-PROCEDURES}{@procedureID})
    value
Outcome ::= SEQUENCE {
    procedureID RNSAP-ELEMENTARY-PROCEDURE.&procedureID
                                                          ({RNSAP-ELEMENTARY-PROCEDURES}),
                                                          ({RNSAP-ELEMENTARY-PROCEDURES}{@procedureID}),
    criticality RNSAP-ELEMENTARY-PROCEDURE.&criticality
    transactionID TransactionID,
               RNSAP-ELEMENTARY-PROCEDURE.&Outcome
                                                      ({RNSAP-ELEMENTARY-PROCEDURES}{@procedureID})
    value
    ***********
  Interface Elementary Procedure List
- -
         *****
RNSAP-ELEMENTARY-PROCEDURES RNSAP-ELEMENTARY-PROCEDURE ::= {
    RNSAP-ELEMENTARY-PROCEDURES-CLASS-1
    RNSAP-ELEMENTARY-PROCEDURES-CLASS-2
   RNSAP-ELEMENTARY-PROCEDURES-CLASS-3
    . . .
RNSAP-ELEMENTARY-PROCEDURES-CLASS-1 RNSAP-ELEMENTARY-PROCEDURE ::= {
    radioLinkSetupFDD
    radioLinkSetupTDD
    radioLinkAdditionFDD
    radioLinkAdditionTDD
    radioLinkDeletion
    synchronisedRadioLinkReconfigurationPreparationFDD
    synchronisedRadioLinkReconfigurationPreparationTDD
    unSynchronisedRadioLinkReconfigurationFDD
    unSynchronisedRadioLinkReconfigurationTDD
    physicalChannelReconfigurationFDD
    physicalChannelReconfigurationTDD
    dedicatedMeasurementInitiation
    commonTransportChannelResourcesInitialisationFDD
    commonTransportChannelResourcesInitialisationTDD
    . . . ,
    commonMeasurementInitiation
    informationExchangeInitiation
    reset
    uEMeasurementInitiation
```

enhancedRelocation

}

RNSAP-ELEMENTARY-PROCEDURES-CLASS-2 RNSAP-ELEMENTARY-PROCEDURE ::= { uplinkSignallingTransferFDD uplinkSignallingTransferTDD downlinkSignallingTransfer relocationCommit paging synchronisedRadioLinkReconfigurationCommit synchronisedRadioLinkReconfigurationCancellation radioLinkFailure radioLinkPreemption radioLinkRestoration dedicatedMeasurementReporting dedicatedMeasurementTermination dedicatedMeasurementFailure downlinkPowerControlFDD downlinkPowerTimeslotControl compressedModeCommandFDD commonTransportChannelResourcesRelease errorIndication privateMessage ..., radioLinkCongestion commonMeasurementFailure commonMeasurementReporting commonMeasurementTermination informationExchangeFailure informationExchangeTermination informationReporting radioLinkActivationFDD radioLinkActivationTDD gERANuplinkSignallingTransfer radioLinkParameterUpdateFDD radioLinkParameterUpdateTDD uEMeasurementReporting uEMeasurementTermination uEMeasurementFailure iurInvokeTrace iurDeactivateTrace mBMSAttach mBMSDetach directInformationTransfer enhancedRelocationCancel enhancedRelocationSignallingTransfer enhancedRelocationRelease mBSFNMCCHInformation secondaryULFrequencyReportingFDD secondaryULFrequencyUpdateFDD

```
}
RNSAP-ELEMENTARY-PROCEDURES-CLASS-3 RNSAP-ELEMENTARY-PROCEDURE ::= {
     - -
-- Interface Elementary Procedures
  radioLinkSetupFDD RNSAP-ELEMENTARY-PROCEDURE ::= {
   INITIATING MESSAGE RadioLinkSetupRequestFDD
   SUCCESSFUL OUTCOME RadioLinkSetupResponseFDD
   UNSUCCESSFUL OUTCOME
                        RadioLinkSetupFailureFDD
                      { procedureCode id-radioLinkSetup, ddMode fdd }
   PROCEDURE ID
   CRITICALITY
                  reject
}
radioLinkSetupTDD RNSAP-ELEMENTARY-PROCEDURE ::= {
   INITIATING MESSAGE RadioLinkSetupRequestTDD
   SUCCESSFUL OUTCOME RadioLinkSetupResponseTDD
                         RadioLinkSetupFailureTDD
   UNSUCCESSFUL OUTCOME
                      { procedureCode id-radioLinkSetup, ddMode tdd }
   PROCEDURE ID
   CRITICALITY
                  reject
3
radioLinkAdditionFDD RNSAP-ELEMENTARY-PROCEDURE ::= {
   INITIATING MESSAGE RadioLinkAdditionRequestFDD
   SUCCESSFUL OUTCOME RadioLinkAdditionResponseFDD
   UNSUCCESSFUL OUTCOME
                         RadioLinkAdditionFailureFDD
   PROCEDURE ID
                      { procedureCode id-radioLinkAddition , ddMode fdd }
   CRITICALITY
                  reject
radioLinkAdditionTDD RNSAP-ELEMENTARY-PROCEDURE ::= {
   INITIATING MESSAGE RadioLinkAdditionRequestTDD
   SUCCESSFUL OUTCOME RadioLinkAdditionResponseTDD
   UNSUCCESSFUL OUTCOME
                         RadioLinkAdditionFailureTDD
                      { procedureCode id-radioLinkAddition , ddMode tdd }
   PROCEDURE ID
   CRITICALITY
                  reject
radioLinkDeletion RNSAP-ELEMENTARY-PROCEDURE ::= {
   INITIATING MESSAGE RadioLinkDeletionRequest
   SUCCESSFUL OUTCOME RadioLinkDeletionResponse
                      { procedureCode id-radioLinkDeletion, ddMode common }
   PROCEDURE ID
   CRITICALITY
                  reject
}
synchronisedRadioLinkReconfigurationPreparationFDD RNSAP-ELEMENTARY-PROCEDURE ::= {
   INITIATING MESSAGE RadioLinkReconfigurationPrepareFDD
   SUCCESSFUL OUTCOME RadioLinkReconfigurationReadyFDD
```

```
RadioLinkReconfigurationFailure
    UNSUCCESSFUL OUTCOME
    PROCEDURE ID
                        { procedureCode id-synchronisedRadioLinkReconfigurationPreparation, ddMode fdd }
    CRITICALITY
                    reject
synchronisedRadioLinkReconfigurationPreparationTDD RNSAP-ELEMENTARY-PROCEDURE ::= {
    INITIATING MESSAGE RadioLinkReconfigurationPrepareTDD
    SUCCESSFUL OUTCOME RadioLinkReconfigurationReadyTDD
    UNSUCCESSFUL OUTCOME
                           RadioLinkReconfigurationFailure
                       { procedureCode id-synchronisedRadioLinkReconfigurationPreparation, ddMode tdd }
    PROCEDURE ID
    CRITICALITY
                    reject
unSynchronisedRadioLinkReconfigurationFDD RNSAP-ELEMENTARY-PROCEDURE ::=
    INITIATING MESSAGE RadioLinkReconfigurationReguestFDD
    SUCCESSFUL OUTCOME RadioLinkReconfigurationResponseFDD
                            RadioLinkReconfigurationFailure
    UNSUCCESSFUL OUTCOME
                        { procedureCode id-unSynchronisedRadioLinkReconfiguration, ddMode fdd }
    PROCEDURE ID
    CRITICALITY
                    reject
unSynchronisedRadioLinkReconfigurationTDD RNSAP-ELEMENTARY-PROCEDURE ::= {
    INITIATING MESSAGE RadioLinkReconfigurationRequestTDD
    SUCCESSFUL OUTCOME RadioLinkReconfigurationResponseTDD
                           RadioLinkReconfigurationFailure
    UNSUCCESSFUL OUTCOME
                        { procedureCode id-unSynchronisedRadioLinkReconfiguration, ddMode tdd }
    PROCEDURE ID
    CRITICALITY
                    reject
physicalChannelReconfigurationFDD RNSAP-ELEMENTARY-PROCEDURE ::=
    INITIATING MESSAGE PhysicalChannelReconfigurationRequestFDD
    SUCCESSFUL OUTCOME PhysicalChannelReconfigurationCommand
    UNSUCCESSFUL OUTCOME
                            PhysicalChannelReconfigurationFailure
                        { procedureCode id-physicalChannelReconfiguration, ddMode fdd
    PROCEDURE ID
    CRITICALITY
                    reject
physicalChannelReconfigurationTDD RNSAP-ELEMENTARY-PROCEDURE ::=
    INITIATING MESSAGE PhysicalChannelReconfigurationRequestTDD
    SUCCESSFUL OUTCOME PhysicalChannelReconfigurationCommand
    UNSUCCESSFUL OUTCOME
                            PhysicalChannelReconfigurationFailure
    PROCEDURE ID
                        { procedureCode id-physicalChannelReconfiguration, ddMode tdd
    CRITICALITY
                    reject
dedicatedMeasurementInitiation RNSAP-ELEMENTARY-PROCEDURE ::= {
    INITIATING MESSAGE DedicatedMeasurementInitiationRequest
    SUCCESSFUL OUTCOME DedicatedMeasurementInitiationResponse
    UNSUCCESSFUL OUTCOME
                           DedicatedMeasurementInitiationFailure
                        { procedureCode id-dedicatedMeasurementInitiation, ddMode common }
    PROCEDURE ID
    CRITICALITY
                    reject
}
```

```
commonTransportChannelResourcesInitialisationFDD RNSAP-ELEMENTARY-PROCEDURE ::= {
```

```
INITIATING MESSAGE CommonTransportChannelResourcesRequest
    SUCCESSFUL OUTCOME CommonTransportChannelResourcesResponseFDD
    UNSUCCESSFUL OUTCOME
                            CommonTransportChannelResourcesFailure
    PROCEDURE ID
                        { procedureCode id-commonTransportChannelResourcesInitialisation, ddMode fdd }
    CRITICALITY
                    reject
commonTransportChannelResourcesInitialisationTDD RNSAP-ELEMENTARY-PROCEDURE ::= {
    INITIATING MESSAGE CommonTransportChannelResourcesRequest
    SUCCESSFUL OUTCOME CommonTransportChannelResourcesResponseTDD
                           CommonTransportChannelResourcesFailure
    UNSUCCESSFUL OUTCOME
    PROCEDURE ID
                        { procedureCode id-commonTransportChannelResourcesInitialisation, ddMode tdd }
    CRITICALITY
                    reject
uplinkSignallingTransferFDD RNSAP-ELEMENTARY-PROCEDURE ::= {
    INITIATING MESSAGE UplinkSignallingTransferIndicationFDD
                        { procedureCode id-uplinkSignallingTransfer, ddMode fdd }
    PROCEDURE ID
    CRITICALITY
                    ignore
J
uplinkSignallingTransferTDD RNSAP-ELEMENTARY-PROCEDURE ::= {
    INITIATING MESSAGE UplinkSignallingTransferIndicationTDD
    PROCEDURE ID
                        { procedureCode id-uplinkSignallingTransfer, ddMode tdd }
    CRITICALITY
                    iqnore
}
downlinkSignallingTransfer RNSAP-ELEMENTARY-PROCEDURE ::= {
    INITIATING MESSAGE DownlinkSignallingTransferRequest
                        { procedureCode id-downlinkSignallingTransfer, ddMode common }
    PROCEDURE ID
    CRITICALITY
                    ignore
relocationCommit RNSAP-ELEMENTARY-PROCEDURE ::= {
    INITIATING MESSAGE RelocationCommit
    PROCEDURE ID
                        { procedureCode id-relocationCommit, ddMode common }
    CRITICALITY
                    ignore
}
paging RNSAP-ELEMENTARY-PROCEDURE ::= {
    INITIATING MESSAGE PagingRequest
    PROCEDURE ID
                        { procedureCode id-paging, ddMode common }
    CRITICALITY
                    ignore
}
synchronisedRadioLinkReconfigurationCommit RNSAP-ELEMENTARY-PROCEDURE ::= {
    INITIATING MESSAGE RadioLinkReconfigurationCommit
    PROCEDURE ID
                        { procedureCode id-synchronisedRadioLinkReconfigurationCommit, ddMode common }
    CRITICALITY
                    ignore
}
synchronisedRadioLinkReconfigurationCancellation RNSAP-ELEMENTARY-PROCEDURE ::= {
    INITIATING MESSAGE RadioLinkReconfigurationCancel
                        { procedureCode id-synchronisedRadioLinkReconfigurationCancellation, ddMode common }
    PROCEDURE ID
```

```
CRITICALITY
                    ignore
۱
radioLinkFailure RNSAP-ELEMENTARY-PROCEDURE ::= {
    INITIATING MESSAGE RadioLinkFailureIndication
                        { procedureCode id-radioLinkFailure, ddMode common }
    PROCEDURE ID
    CRITICALITY
                    ignore
}
radioLinkPreemption RNSAP-ELEMENTARY-PROCEDURE ::= {
    INITIATING MESSAGE RadioLinkPreemptionRequiredIndication
    PROCEDURE ID
                        { procedureCode id-radioLinkPreemption, ddMode common }
    CRITICALITY
                    ignore
radioLinkRestoration RNSAP-ELEMENTARY-PROCEDURE ::= {
    INITIATING MESSAGE RadioLinkRestoreIndication
    PROCEDURE ID
                        { procedureCode id-radioLinkRestoration, ddMode common
    CRITICALITY
                    ignore
3
dedicatedMeasurementReporting RNSAP-ELEMENTARY-PROCEDURE ::= {
    INITIATING MESSAGE DedicatedMeasurementReport
                        { procedureCode id-dedicatedMeasurementReporting, ddMode common }
    PROCEDURE ID
    CRITICALITY
                    ignore
}
dedicatedMeasurementTermination RNSAP-ELEMENTARY-PROCEDURE ::= {
    INITIATING MESSAGE DedicatedMeasurementTerminationRequest
                        { procedureCode id-dedicatedMeasurementTermination, ddMode common }
    PROCEDURE ID
    CRITICALITY
                    ignore
dedicatedMeasurementFailure RNSAP-ELEMENTARY-PROCEDURE ::= {
    INITIATING MESSAGE DedicatedMeasurementFailureIndication
    PROCEDURE ID
                        { procedureCode id-dedicatedMeasurementFailure, ddMode common
    CRITICALITY
                    ignore
}
radioLinkCongestion RNSAP-ELEMENTARY-PROCEDURE ::= {
    INITIATING MESSAGE RadioLinkCongestionIndication
    PROCEDURE ID
                        { procedureCode id-radioLinkCongestion, ddMode common }
    CRITICALITY
                    ignore
}
downlinkPowerControlFDD RNSAP-ELEMENTARY-PROCEDURE ::= {
    INITIATING MESSAGE DL-PowerControlRequest
    PROCEDURE ID
                        { procedureCode id-downlinkPowerControl, ddMode fdd }
    CRITICALITY
                    ignore
}
downlinkPowerTimeslotControl RNSAP-ELEMENTARY-PROCEDURE ::= {
    INITIATING MESSAGE DL-PowerTimeslotControlRequest
                        { procedureCode id-downlinkPowerTimeslotControl, ddMode tdd }
    PROCEDURE ID
```

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```
CRITICALITY
                    ignore
3
compressedModeCommandFDD RNSAP-ELEMENTARY-PROCEDURE ::= {
    INITIATING MESSAGE CompressedModeCommand
                        { procedureCode id-compressedModeCommand, ddMode fdd }
    PROCEDURE ID
                    iqnore
    CRITICALITY
}
commonTransportChannelResourcesRelease RNSAP-ELEMENTARY-PROCEDURE ::= {
    INITIATING MESSAGE CommonTransportChannelResourcesReleaseRequest
    PROCEDURE ID
                        { procedureCode id-commonTransportChannelResourcesRelease, ddMode common }
    CRITICALITY
                    ignore
errorIndication RNSAP-ELEMENTARY-PROCEDURE ::= {
    INITIATING MESSAGE ErrorIndication
    PROCEDURE ID
                        { procedureCode id-errorIndication, ddMode common }
    CRITICALITY
                    ignore
٦
commonMeasurementInitiation RNSAP-ELEMENTARY-PROCEDURE ::= {
                            CommonMeasurementInitiationRequest
    INITIATING MESSAGE
    SUCCESSFUL OUTCOME
                            CommonMeasurementInitiationResponse
    UNSUCCESSFUL OUTCOME
                            CommonMeasurementInitiationFailure
                            { procedureCode id-commonMeasurementInitiation, ddMode common }
    PROCEDURE ID
                            reject
    CRITICALITY
commonMeasurementReporting RNSAP-ELEMENTARY-PROCEDURE ::= {
    INITIATING MESSAGE CommonMeasurementReport
                         { procedureCode id-commonMeasurementReporting, ddMode common }
    PROCEDURE ID
    CRITICALITY
                        ignore
ļ
commonMeasurementTermination RNSAP-ELEMENTARY-PROCEDURE ::= {
    INITIATING MESSAGE CommonMeasurementTerminationRequest
                        { procedureCode id-commonMeasurementTermination, ddMode common }
    PROCEDURE ID
    CRITICALITY
                    ignore
}
commonMeasurementFailure RNSAP-ELEMENTARY-PROCEDURE ::= {
    INITIATING MESSAGE CommonMeasurementFailureIndication
    PROCEDURE ID
                        { procedureCode id-commonMeasurementFailure, ddMode common }
    CRITICALITY
                    ignore
informationExchangeInitiation RNSAP-ELEMENTARY-PROCEDURE ::= {
    INITIATING MESSAGE
                            InformationExchangeInitiationReguest
                            InformationExchangeInitiationResponse
    SUCCESSFUL OUTCOME
                            InformationExchangeInitiationFailure
    UNSUCCESSFUL OUTCOME
    PROCEDURE ID
                            { procedureCode id-informationExchangeInitiation, ddMode common }
    CRITICALITY
                            reject
```

```
informationReporting RNSAP-ELEMENTARY-PROCEDURE ::= {
    INITIATING MESSAGE
                            InformationReport
                            { procedureCode id-informationReporting, ddMode common }
    PROCEDURE ID
    CRITICALITY
                            ignore
3
informationExchangeTermination RNSAP-ELEMENTARY-PROCEDURE ::= {
    INITIATING MESSAGE
                            InformationExchangeTerminationReguest
                            { procedureCode id-informationExchangeTermination, ddMode common
    PROCEDURE ID
    CRITICALITY
                            ignore
}
informationExchangeFailure RNSAP-ELEMENTARY-PROCEDURE ::= {
    INITIATING MESSAGE
                            InformationExchangeFailureIndication
    PROCEDURE ID
                            { procedureCode id-informationExchangeFailure, ddMode common }
    CRITICALITY
                            ignore
privateMessage RNSAP-ELEMENTARY-PROCEDURE ::= {
    INITIATING MESSAGE PrivateMessage
    PROCEDURE ID
                        { procedureCode id-privateMessage, ddMode common }
    CRITICALITY
                    iqnore
reset RNSAP-ELEMENTARY-PROCEDURE ::= ·
    INITIATING MESSAGE
                            ResetRequest
    SUCCESSFUL OUTCOME
                            ResetResponse
    PROCEDURE ID
                            { procedureCode id-reset, ddMode common }
                            reject
    CRITICALITY
radioLinkActivationFDD RNSAP-ELEMENTARY-PROCEDURE ::=
    INITIATING MESSAGE
                            RadioLinkActivationCommandFDD
                            { procedureCode id-radioLinkActivation, ddMode fdd }
    PROCEDURE ID
    CRITICALITY
                            ignore
radioLinkActivationTDD RNSAP-ELEMENTARY-PROCEDURE ::= {
    INITIATING MESSAGE
                            RadioLinkActivationCommandTDD
    PROCEDURE ID
                            { procedureCode id-radioLinkActivation, ddMode tdd
    CRITICALITY
                            ignore
gERANuplinkSignallingTransfer RNSAP-ELEMENTARY-PROCEDURE ::= {
    INITIATING MESSAGE GERANUplinkSignallingTransferIndication
                        { procedureCode id-gERANuplinkSignallingTransfer, ddMode common }
    PROCEDURE ID
    CRITICALITY
                    ignore
}
radioLinkParameterUpdateFDD RNSAP-ELEMENTARY-PROCEDURE ::=
    INITIATING MESSAGE
                            RadioLinkParameterUpdateIndicationFDD
    PROCEDURE ID
                            { procedureCode id-radioLinkParameterUpdate, ddMode fdd }
```

```
CRITICALITY
                            ignore
ļ
radioLinkParameterUpdateTDD RNSAP-ELEMENTARY-PROCEDURE ::=
    INITIATING MESSAGE
                            RadioLinkParameterUpdateIndicationTDD
                            { procedureCode id-radioLinkParameterUpdate, ddMode tdd }
    PROCEDURE ID
    CRITICALITY
                            ignore
}
uEMeasurementInitiation RNSAP-ELEMENTARY-PROCEDURE ::= {
    INITIATING MESSAGE UEMeasurementInitiationRequest
    SUCCESSFUL OUTCOME UEMeasurementInitiationResponse
    UNSUCCESSFUL OUTCOME
                            UEMeasurementInitiationFailure
    PROCEDURE ID
                        { procedureCode id-uEMeasurementInitiation, ddMode tdd }
    CRITICALITY
                    reject
3
uEMeasurementReporting RNSAP-ELEMENTARY-PROCEDURE ::= {
    INITIATING MESSAGE UEMeasurementReport
                        { procedureCode id-uEMeasurementReporting, ddMode tdd }
    PROCEDURE ID
    CRITICALITY
                    ignore
uEMeasurementTermination RNSAP-ELEMENTARY-PROCEDURE ::= {
    INITIATING MESSAGE UEMeasurementTerminationRequest
    PROCEDURE ID
                        { procedureCode id-uEMeasurementTermination, ddMode tdd }
    CRITICALITY
                    ignore
}
uEMeasurementFailure RNSAP-ELEMENTARY-PROCEDURE ::= {
    INITIATING MESSAGE UEMeasurementFailureIndication
    PROCEDURE ID
                        { procedureCode id-uEMeasurementFailure, ddMode tdd }
    CRITICALITY
                    ignore
}
iurInvokeTrace RNSAP-ELEMENTARY-PROCEDURE ::= {
    INITIATING MESSAGE IurInvokeTrace
                        { procedureCode id-iurInvokeTrace, ddMode common }
    PROCEDURE ID
    CRITICALITY
                        ignore
}
iurDeactivateTrace RNSAP-ELEMENTARY-PROCEDURE ::= {
    INITIATING MESSAGE IurDeactivateTrace
                        { procedureCode id-iurDeactivateTrace, ddMode common }
    PROCEDURE ID
    CRITICALITY
                        ignore
mBMSAttach RNSAP-ELEMENTARY-PROCEDURE ::= {
    INITIATING MESSAGE
                            MBMSAttachCommand
    PROCEDURE ID
                            { procedureCode id-mBMSAttach, ddMode common }
    CRITICALITY
                            ignore
}
mBMSDetach RNSAP-ELEMENTARY-PROCEDURE ::= ·
```

```
INITIATING MESSAGE
                            MBMSDetachCommand
    PROCEDURE ID
                             { procedureCode id-mBMSDetach, ddMode common }
    CRITICALITY
                            ignore
directInformationTransfer RNSAP-ELEMENTARY-PROCEDURE ::= {
                            DirectInformationTransfer
    INITIATING MESSAGE
    PROCEDURE ID
                            { procedureCode id-directInformationTransfer, ddMode common }
    CRITICALITY
                            ignore
}
enhancedRelocation RNSAP-ELEMENTARY-PROCEDURE ::= {
    INITIATING MESSAGE EnhancedRelocationReguest
    SUCCESSFUL OUTCOME EnhancedRelocationResponse
                            EnhancedRelocationFailure
    UNSUCCESSFUL OUTCOME
    PROCEDURE ID
                        { procedureCode id-enhancedRelocation, ddMode common }
    CRITICALITY
                    reject
enhancedRelocationCancel RNSAP-ELEMENTARY-PROCEDURE ::= {
    INITIATING MESSAGE
                            EnhancedRelocationCancel
    PROCEDURE ID
                            { procedureCode id-enhancedRelocationCancel, ddMode common }
    CRITICALITY
                            iqnore
l
enhancedRelocationSignallingTransfer RNSAP-ELEMENTARY-PROCEDURE ::= {
                            EnhancedRelocationSignallingTransfer
    INITIATING MESSAGE
    PROCEDURE ID
                              procedureCode id-enhancedRelocationSignallingTransfer, ddMode common
    CRITICALITY
                            ignore
3
enhancedRelocationRelease RNSAP-ELEMENTARY-PROCEDURE ::= {
    INITIATING MESSAGE
                            EnhancedRelocationRelease
    PROCEDURE ID
                            { procedureCode id-enhancedRelocationRelease, ddMode common }
    CRITICALITY
                            ignore
mBSFNMCCHInformation RNSAP-ELEMENTARY-PROCEDURE ::= {
                            MBSFNMCCHInformation
    INITIATING MESSAGE
    PROCEDURE ID
                            { procedureCode id-mBSFNMCCHInformation, ddMode common }
    CRITICALITY
                            reject
}
secondaryULFrequencyReportingFDD RNSAP-ELEMENTARY-PROCEDURE ::= {
    INITIATING MESSAGE
                            SecondaryULFrequencyReport
    PROCEDURE ID
                            { procedureCode id-secondaryULFrequencyReporting, ddMode fdd }
    CRITICALITY
                            ignore
}
secondaryULFrequencyUpdateFDD RNSAP-ELEMENTARY-PROCEDURE ::= {
    INITIATING MESSAGE
                            SecondaryULFrequencyUpdateIndication
    PROCEDURE ID
                              procedureCode id-secondaryULFrequencyUpdate, ddMode fdd }
    CRITICALITY
                            ignore
```

END

# 9.3.3 PDU Definitions

\*\*\*\*\* - --- PDU definitions for RNSAP. - -RNSAP-PDU-Contents { itu-t (0) identified-organization (4) etsi (0) mobileDomain (0) umts-Access (20) modules (3) rnsap (1) version1 (1) rnsap-PDU-Contents (1) } DEFINITIONS AUTOMATIC TAGS ::= BEGIN - --- IE parameter types from other modules. - -IMPORTS Active-Pattern-Sequence-Information, Active-MBMS-Bearer-Service-ListFDD, Active-MBMS-Bearer-Service-ListFDD-PFL, Active-MBMS-Bearer-Service-ListTDD, Active-MBMS-Bearer-Service-ListTDD-PFL, AllocationRetentionPriority, AllowedQueuingTime, Allowed-Rate-Information, AlphaValue, AlternativeFormatReportingIndicator, AntennaColocationIndicator, BLER, SCTD-Indicator, BindingID, C-ID, C-RNTI, CCTrCH-ID, CFN, CGI, ClosedLoopMode1-SupportIndicator, Closedlooptimingadjustmentmode, CN-CS-DomainIdentifier, CN-PS-DomainIdentifier, CNDomainType, Cause, CellCapabilityContainer-FDD, CellCapabilityContainerExtension-FDD,

CellCapabilityContainer-TDD, CellCapabilityContainer-TDD-LCR, CellCapabilityContainer-TDD768, CellParameterID, CellPortionID. ChipOffset, CommonMeasurementAccuracy, CommonMeasurementType, CommonMeasurementValue, CommonMeasurementValueInformation, CommonTransportChannelResourcesInitialisationNotRequired, Common-EDCH-MAC-d-Flow-Specific-InformationFDD, Common-EDCH-Support-Indicator, CongestionCause, Continuous-Packet-Connectivity-DTX-DRX-Information, Continuous-Packet-Connectivity-HS-SCCH-Less-Information, Continuous-Packet-Connectivity-HS-SCCH-Less-Information-Response, CPC-Information, CoverageIndicator, CriticalityDiagnostics, CellPortionLCRID, D-RNTI, D-RNTI-ReleaseIndication, DCH-FDD-Information, DCH-ID, DCH-Indicator-For-E-DCH-HSDPA-Operation, DPCH-ID768, DCH-InformationResponse, DCH-TDD-Information, DL-DPCH-SlotFormat, DL-TimeslotISCP, DL-Power, DL-PowerBalancing-Information, DL-PowerBalancing-ActivationIndicator, DL-PowerBalancing-UpdatedIndicator, DL-ReferencePowerInformation, DL-ScramblingCode, DL-Timeslot-Information, DL-Timeslot-Information768, DL-TimeslotLCR-Information, DL-TimeSlot-ISCP-Info, DL-TimeSlot-ISCP-LCR-Information, DPC-Mode, DPC-Mode-Change-SupportIndicator, DPCH-ID, DL-DPCH-TimingAdjustment, DRXCycleLengthCoefficient, DedicatedMeasurementType, DedicatedMeasurementValue, DedicatedMeasurementValueInformation, DelayedActivation, DelayedActivationUpdate, DiversityControlField, DiversityMode,

DSCH-FlowControlInformation, DSCH-FlowControlItem. DSCH-TDD-Information. DSCH-ID, DSCH-RNTI. EDCH-FDD-Information, EDCH-FDD-InformationResponse, EDCH-FDD-Information-To-Modify, EDCH-FDD-DL-ControlChannelInformation, EDCH-DDI-Value, EDCH-MACdFlow-ID, EDCH-MACdFlow-Specific-InfoList, EDCH-MACdFlows-To-Delete, EDCH-MACdFlows-Information. EDCH-RL-Indication, EDCH-Serving-RL, E-DCH-Serving-cell-change-informationResponse, EDPCH-Information-FDD, EDPCH-Information-RLReconfPrepare-FDD, EDPCH-Information-RLReconfRequest-FDD, E-DCH-FDD-Update-Information, E-DPCCH-PO, E-RGCH-2-IndexStepThreshold, E-RGCH-3-IndexStepThreshold, E-RNTI, E-TFCS-Information, E-TTI, Enhanced-FACH-Support-Indicator, Enhanced-FACH-Information-ResponseFDD, Enhanced-PCH-Capability, ExtendedPropagationDelay, Extended-RNC-ID, SchedulingPriorityIndicator, Enhanced-PrimaryCPICH-EcNo, F-DPCH-SlotFormat, F-DPCH-SlotFormatSupportRequest, FACH-FlowControlInformation, Fast-Reconfiguration-Mode, Fast-Reconfiguration-Permission, FDD-DCHs-to-Modify, FDD-DL-ChannelisationCodeNumber, FDD-DL-CodeInformation, FDD-TPC-DownlinkStepSize, FirstRLS-Indicator, FNReportingIndicator, FrameHandlingPriority, FrameOffset, GA-AccessPointPosition, GA-Cell, GA-CellAdditionalShapes, HARQ-Info-for-E-DCH, HCS-Prio, HSDSCH-Configured-Indicator, HSDSCH-FDD-Information,

HSDSCH-FDD-Information-Response, HSDSCH-FDD-Update-Information, HSDSCH-TDD-Update-Information, HSDSCH-Information-to-Modify, HSDSCH-Information-to-Modify-Unsynchronised, HSDSCH-MACdFlow-ID, HSDSCH-MACdFlows-Information, HSDSCH-MACdFlows-to-Delete, HSDSCH-Physical-Layer-Category, HSDSCH-RNTI, HS-DSCH-serving-cell-change-information, HS-DSCH-serving-cell-change-informationResponse, HSDSCH-TDD-Information, HSDSCH-TDD-Information-Response, HS-SICH-ID, IMSI, InformationExchangeID, InformationReportCharacteristics, InformationType, Initial-DL-DPCH-TimingAdjustment-Allowed, InnerLoopDLPCStatus, Inter-Frequency-Cell-List, L3-Information, LimitedPowerIncrease, MaximumAllowedULTxPower, MaxNrDLPhysicalchannels, MaxNrDLPhysicalchannelsTS, MaxNrDLPhysicalchannels768, MaxNrDLPhysicalchannelsTS768, MaxNrOfUL-DPCHs, MaxNrTimeslots, MaxNrULPhysicalchannels, MACes-Guaranteed-Bitrate, MaxNr-Retransmissions-EDCH, Max-Set-E-DPDCHs, Max-UE-DTX-Cycle, MeasurementFilterCoefficient, MeasurementID, MeasurementRecoveryBehavior, MeasurementRecoveryReportingIndicator, MeasurementRecoverySupportIndicator, MBMS-Bearer-Service-List, MBSFN-Cluster-Identity, MCCH-Configuration-Info, MCCH-Message-List, MBSFN-Scheduling-Transmission-Time-Interval-Info-List, MidambleAllocationMode, MidambleShiftAndBurstType, MidambleShiftAndBurstType768, MidambleShiftLCR, MinimumSpreadingFactor, MinimumSpreadingFactor768, MinUL-ChannelisationCodeLength, Multiple-PLMN-List,

MultiplexingPosition, NeighbouringFDDCellMeasurementInformation, NeighbouringTDDCellMeasurementInformation. NeighbouringTDDCellMeasurementInformation768, Neighbouring-GSM-CellInformation, Neighbouring-UMTS-CellInformation, NeighbouringTDDCellMeasurementInformationLCR, Neighbouring-E-UTRA-CellInformation, NrOfDLchannelisationcodes, PagingCause, PagingRecordType, PartialReportingIndicator, PayloadCRC-PresenceIndicator, PCCPCH-Power, PC-Preamble, Permanent-NAS-UE-Identity, Phase-Reference-Update-Indicator, PowerAdjustmentType, PowerOffset, PrimaryCCPCH-RSCP, PrimaryCPICH-EcNo, PrimaryCPICH-Power, Primary-CPICH-Usage-For-Channel-Estimation, PrimaryScramblingCode, PropagationDelay, ProvidedInformation, PunctureLimit, OE-Selector, RANAP-EnhancedRelocationInformationRequest, RANAP-EnhancedRelocationInformationResponse, RANAP-RelocationInformation, RB-Info, Released-CN-Domain, RL-ID, RL-Set-ID, RL-Specific-EDCH-Information, RNC-ID, RepetitionLength, RepetitionPeriod, ReportCharacteristics, Received-total-wide-band-power, RequestedDataValue, RequestedDataValueInformation, RL-Specific-DCH-Info, RxTimingDeviationForTA, RxTimingDeviationForTA768, S-RNTI, S-RNTI-Group, SCH-TimeSlot, SAI, SFN, Secondary-CCPCH-Info-TDD, Secondary-CCPCH-Info-TDD768, Secondary-CCPCH-System-Information-MBMS,

Secondary-CPICH-Information, Secondary-CPICH-Information-Change, Secondary-LCR-CCPCH-Info-TDD, Secondary-Serving-Cell-List, SNA-Information, SpecialBurstScheduling, SSDT-SupportIndicator, STTD-SupportIndicator, AdjustmentPeriod, ScaledAdjustmentRatio, MaxAdjustmentStep, SRB-Delay, Support-8PSK, SyncCase, SynchronisationConfiguration, SixtyfourOAM-DL-SupportIndicator, TDD-ChannelisationCode, TDD-ChannelisationCode768, TDD-DCHs-to-Modify, TDD-DL-Code-Information, TDD-DPCHOffset, TDD-PhysicalChannelOffset, TDD-TPC-DownlinkStepSize, TDD-ChannelisationCodeLCR, TDD-DL-Code-LCR-Information, TDD-DL-Code-Information768, TDD-UL-Code-Information, TDD-UL-Code-LCR-Information, TDD-UL-Code-Information768, TFCI-Coding, TFCI-Presence, TFCI-SignallingMode, TimeSlot, TimeSlotLCR, TimingAdvanceApplied, TMGI, TnlQos, TOAWE, TOAWS, TraceDepth, TraceRecordingSessionReference, TraceReference, TrafficClass, TransmitDiversityIndicator, TransportBearerID, TransportBearerRequestIndicator, TFCS, Transmission-Gap-Pattern-Sequence-Information, TransportFormatManagement, TransportFormatSet, TransportLayerAddress, TrCH-SrcStatisticsDescr, TSTD-Indicator, TSTD-Support-Indicator,

UARFCN, UC-ID. UE-AggregateMaximumBitRate, UEIdentity, UEMeasurementType, UEMeasurementTimeslotInfoHCR, UEMeasurementTimeslotInfoLCR, UEMeasurementTimeslotInfo768, UEMeasurementReportCharacteristics, UEMeasurementParameterModAllow, UEMeasurementValueInformation, UE-State, UL-DPCCH-SlotFormat, UL-DPDCHIndicatorEDCH. UL-SIR, UL-FP-Mode, UL-PhysCH-SF-Variation, UL-ScramblingCode, UL-Timeslot-Information, UL-Timeslot-Information768, UL-TimeslotLCR-Information, UL-TimeSlot-ISCP-Info, UL-TimeSlot-ISCP-LCR-Info, URA-ID, URA-Information, USCH-ID. USCH-Information, UL-Synchronisation-Parameters-LCR, TDD-DL-DPCH-TimeSlotFormat-LCR, TDD-UL-DPCH-TimeSlotFormat-LCR, MAChs-ResetIndicator, UL-TimingAdvanceCtrl-LCR, TDD-TPC-UplinkStepSize-LCR, PrimaryCCPCH-RSCP-Delta, SynchronisationIndicator, Support-PLCCH, PLCCHinformation, RxTimingDeviationForTAext, E-DCH-Information, E-DCH-Information-Reconfig, E-DCH-Information-Response, E-DCH-768-Information, E-DCH-768-Information-Reconfig, E-DCH-768-Information-Response, E-DCH-LCR-Information, E-DCH-LCR-Information-Reconfig, E-DCH-LCR-Information-Response, ControlGAP, IdleIntervalInformation, NeedforIdleInterval, HS-SICH-ID-Extension, TSN-Length, UPPCHPositionLCR, Common-EDCH-MAC-d-Flow-Specific-InformationLCR,

Enhanced-FACH-Information-ResponseLCR, HSDSCH-PreconfigurationSetup, HSDSCH-PreconfigurationInfo. NoOfTargetCellHS-SCCH-Order, EnhancedHSServingCC-Abort, GANSS-Time-ID, HS-DSCH-FDD-Secondary-Serving-Update-Information, HS-DSCH-Secondary-Serving-Remove, HS-DSCH-FDD-Secondary-Serving-Information-To-Modify-Unsynchronised, HS-DSCH-Secondary-Serving-Information-To-Modify, HS-DSCH-Secondary-Serving-Cell-Change-Information-Response, HS-DSCH-FDD-Secondary-Serving-Information-Response, HS-DSCH-FDD-Secondary-Serving-Information, MinimumReducedE-DPDCH-GainFactor. ContinuousPacketConnectivity-DRX-InformationLCR, ContinuousPacketConnectivity-DRX-Information-ResponseLCR, CPC-InformationLCR, E-DCH-Semi-PersistentScheduling-Information-LCR, HS-DSCH-Semi-PersistentScheduling-Information-LCR, HS-DSCH-Semi-PersistentScheduling-Information-ResponseLCR, E-DCH-Semi-PersistentScheduling-Information-ResponseLCR, RNTI-Allocation-Indicator, ActivationInformation, Additional-EDCH-Setup-Info, Additional-EDCH-Cell-Information-Response-List, Additional-EDCH-FDD-Update-Information, Additional-EDCH-Cell-Information-To-Add-List, Additional-EDCH-Cell-Information-Response-RLReconf-List, DCH-MeasurementOccasion-Information, DCH-MeasurementType-Indicator, Setup-Or-ConfigurationChange-Or-Removal-Of-EDCH-On-secondary-UL-Frequency, Additional-EDCH-Cell-Information-Response-RLAddList, Non-Serving-RL-Preconfig-Setup, Non-Serving-RL-Preconfig-Info, CPC-RecovervReport

#### FROM RNSAP-IEs

PrivateIE-Container{}, ProtocolExtensionContainer{}, ProtocolIE-ContainerList{}, ProtocolIE-ContainerPairList{}, ProtocolIE-ContainerPairList{}, ProtocolIE-Container{}, ProtocolIE-Single-Container{}, RNSAP-PRIVATE-IES, RNSAP-PROTOCOL-EXTENSION, RNSAP-PROTOCOL-IES, RNSAP-PROTOCOL-IES, RNSAP-PROTOCOL-IES, RNSAP-Containers

maxCellsMeas, maxNoOfDSCHs. maxNoOfUSCHs. maxNrOfCCTrCHs, maxNrOfDCHs, maxNrOfTS, maxNrOfDPCHs, maxNrOfDPCHs768, maxNrOfDPCHsPerRL-1, maxNrOfDPCHs768PerRL-1, maxNrOfInterfaces, maxNrOfRLs, maxNrOfRLSets, maxNrOfRLSets-1, maxNrOfRLs-1, maxNrOfRLs-2, maxNrOfULTs, maxNrOfDLTs, maxResetContext, maxResetContextGroup, maxNoOfDSCHsLCR, maxNoOfUSCHsLCR, maxNrOfCCTrCHsLCR, maxNrOfTsLCR, maxNrOfDLTsLCR, maxNrOfULTsLCR, maxNrOfDPCHsLCR, maxNrOfDPCHsLCRPerRL-1, maxNrOfLCRTDDNeighboursPerRNC, maxNrOfMeasNCell, maxNrOfMACdFlows, maxNrOfMACdPDUSize, maxNrOfMCCHMessages, maxNrOfMBMSL3, maxNrOfEDCHMACdFlows, maxNrOfHSSICHs, maxNrOfHSSICHs-1, maxNrOfActiveMBMSServices, maxNrOfMBMSServices, maxNrofSigSeqERGHICH-1, maxNrOfCells, maxNrOfHSDSCH-1, maxNrOfEDCH-1, id-Active-MBMS-Bearer-ServiceFDD, id-Active-MBMS-Bearer-ServiceFDD-PFL, id-Active-MBMS-Bearer-ServiceTDD, id-Active-MBMS-Bearer-ServiceTDD-PFL,

id-Active-Pattern-Sequence-Information,

id-AlternativeFormatReportingIndicator,

id-AntennaColocationIndicator,

id-AdjustmentRatio, id-AllowedQueuingTime,

id-BindingID, id-C-ID,

id-C-RNTI, id-CFN. id-CFNReportingIndicator. id-CN-CS-DomainIdentifier, id-CN-PS-DomainIdentifier. id-Cause. id-CauseLevel-RL-AdditionFailureFDD, id-CauseLevel-RL-AdditionFailureTDD, id-CauseLevel-RL-ReconfFailure, id-CauseLevel-RL-SetupFailureFDD, id-CauseLevel-RL-SetupFailureTDD, id-CCTrCH-InformationItem-RL-FailureInd, id-CCTrCH-InformationItem-RL-RestoreInd. id-CellCapabilityContainer-FDD, id-CellCapabilityContainerExtension-FDD, id-CellCapabilityContainer-TDD, id-CellCapabilityContainer-TDD-LCR, id-CellPortionID, id-ChipOffset, id-ClosedLoopMode1-SupportIndicator, id-CNOriginatedPage-PagingRgst, id-CommonMeasurementAccuracy, id-CommonMeasurementObjectType-CM-Rprt, id-CommonMeasurementObjectTvpe-CM-Rgst, id-CommonMeasurementObjectType-CM-Rsp, id-CommonMeasurementType, id-CommonTransportChannelResourcesInitialisationNotRequired, id-Common-EDCH-MAC-d-Flow-Specific-InformationFDD, id-Common-EDCH-Support-Indicator, id-CongestionCause, id-Continuous-Packet-Connectivity-DTX-DRX-Information, id-Continuous-Packet-Connectivity-HS-SCCH-Less-Information, id-Continuous-Packet-Connectivity-HS-SCCH-Less-Information-Response, id-CPC-Information, id-CoverageIndicator, id-CriticalityDiagnostics, id-CellPortionLCRID, id-D-RNTI, id-D-RNTI-ReleaseIndication, id-DCHs-to-Add-FDD, id-DCHs-to-Add-TDD, id-DCH-DeleteList-RL-ReconfPrepFDD, id-DCH-DeleteList-RL-ReconfPrepTDD, id-DCH-DeleteList-RL-ReconfRqstFDD, id-DCH-DeleteList-RL-ReconfRgstTDD, id-DCH-FDD-Information, id-DCH-TDD-Information, id-DCH-Indicator-For-E-DCH-HSDPA-Operation, id-FDD-DCHs-to-Modify, id-TDD-DCHs-to-Modify, id-DCH-InformationResponse, id-DCH-Rate-InformationItem-RL-CongestInd, id-DL-CCTrCH-InformationAddItem-RL-ReconfPrepTDD, id-DL-CCTrCH-InformationDeleteItem-RL-ReconfPrepTDD,

id-DL-CCTrCH-InformationModifyItem-RL-ReconfPrepTDD, id-DL-CCTrCH-InformationListIE-RL-ReconfReadvTDD. id-DL-CCTrCH-InformationModifvItem-RL-ReconfRostTDD. id-DL-CCTrCH-InformationDeleteItem-RL-ReconfRgstTDD, id-DL-CCTrCH-InformationItem-RL-SetupRostTDD. id-DL-CCTrCH-InformationListIE-PhyChReconfRgstTDD, id-DL-CCTrCH-InformationListIE-RL-AdditionRspTDD, id-DL-CCTrCH-InformationListIE-RL-SetupRspTDD, id-DL-CCTrCH-InformationAddList-RL-ReconfPrepTDD, id-DL-CCTrCH-InformationDeleteList-RL-ReconfPrepTDD, id-DL-CCTrCH-InformationModifyList-RL-ReconfPrepTDD, id-DL-CCTrCH-InformationDeleteList-RL-ReconfRqstTDD, id-DL-CCTrCH-InformationModifyList-RL-ReconfRqstTDD, id-DL-CCTrCH-InformationList-RL-SetupRostTDD. id-FDD-DL-CodeInformation. id-DL-DPCH-Information-RL-ReconfPrepFDD, id-DL-DPCH-Information-RL-SetupRgstFDD, id-DL-DPCH-Information-RL-ReconfRgstFDD, id-DL-DPCH-InformationItem-PhyChReconfRgstTDD, id-DL-DPCH-InformationItem-RL-AdditionRspTDD, id-DL-DPCH-InformationItem-RL-SetupRspTDD, id-DL-DPCH-InformationAddListIE-RL-ReconfReadyTDD, id-DL-DPCH-InformationDeleteListIE-RL-ReconfReadyTDD, id-DL-DPCH-InformationModifvListIE-RL-ReconfReadvTDD, id-DL-DPCH-TimingAdjustment, id-DL-DPCH-Power-Information-RL-ReconfPrepFDD, id-DL-Physical-Channel-Information-RL-SetupRgstTDD, id-DL-PowerBalancing-Information, id-DL-PowerBalancing-ActivationIndicator, id-DL-PowerBalancing-UpdatedIndicator, id-DL-ReferencePowerInformation. id-DLReferencePower, id-DLReferencePowerList-DL-PC-Rgst, id-DL-ReferencePowerInformation-DL-PC-Rqst, id-DRXCvcleLengthCoefficient, id-DedicatedMeasurementObjectType-DM-Fail, id-DedicatedMeasurementObjectType-DM-Fail-Ind, id-DedicatedMeasurementObjectType-DM-Rprt, id-DedicatedMeasurementObjectType-DM-Rgst, id-DedicatedMeasurementObjectType-DM-Rsp, id-DedicatedMeasurementType, id-DelayedActivation, id-DelayedActivationList-RL-ActivationCmdFDD, id-DelayedActivationList-RL-ActivationCmdTDD, id-DelavedActivationInformation-RL-ActivationCmdFDD, id-DelavedActivationInformation-RL-ActivationCmdTDD, id-DPC-Mode, id-DPC-Mode-Change-SupportIndicator, id-DSCHs-to-Add-TDD, id-DSCH-DeleteList-RL-ReconfPrepTDD, id-DSCH-InformationListIE-RL-AdditionRspTDD, id-DSCH-InformationListIEs-RL-SetupRspTDD, id-DSCH-TDD-Information, id-DSCH-ModifyList-RL-ReconfPrepTDD,

id-HSDSCH-MACdFlows-to-Delete,

id-DSCH-RNTI, id-DSCHToBeAddedOrModifiedList-RL-ReconfReadyTDD, id-Dual-Band-Secondary-Serving-Cell-List, id-EDPCH-Information. id-EDCH-RL-Indication. id-EDCH-FDD-Information, id-Serving-EDCHRL-Id, id-EDCH-FDD-DL-ControlChannelInformation, id-EDCH-FDD-InformationResponse, id-E-DCH-FDD-Update-Information, id-EDCH-MACdFlows-To-Add, id-EDCH-FDD-Information-To-Modify, id-EDCH-MACdFlows-To-Delete, id-EDPCH-Information-RLReconfRequest-FDD, id-EDPCH-Information-RLAdditionReg-FDD, id-EDCH-MacdFlowSpecificInformationList-RL-PreemptRequiredInd, id-EDCH-MacdFlowSpecificInformationItem-RL-PreemptRequiredInd, id-EDCH-MacdFlowSpecificInformationList-RL-CongestInd, id-EDCH-MacdFlowSpecificInformationItem-RL-CongestInd, id-Enhanced-FACH-Support-Indicator, id-Enhanced-FACH-Information-ResponseFDD, id-Enhanced-PCH-Capability, id-ExtendedPropagationDelay, id-Extended-SRNC-ID, id-Extended-RNC-ID, id-Serving-cell-change-CFN, id-E-DCH-Serving-cell-change-informationResponse, id-E-RNTI-For-FACH, id-H-RNTI-For-FACH, id-RNTI-Allocation-Indicator, id-Enhanced-PrimaryCPICH-EcNo, id-E-RNTI, id-F-DPCH-SlotFormat, id-F-DPCH-SlotFormatSupportRequest, id-FACH-InfoForUESelectedS-CCPCH-CTCH-ResourceRspFDD, id-FACH-InfoForUESelectedS-CCPCH-CTCH-ResourceRspTDD, id-Fast-Reconfiguration-Mode, id-Fast-Reconfiguration-Permission, id-FrameOffset, id-F-DPCH-Information-RL-ReconfPrepFDD, id-F-DPCH-Information-RL-SetupRgstFDD, id-GA-Cell. id-GA-CellAdditionalShapes, id-GSM-Cell-InfEx-Rqst, id-HCS-Prio, id-HSDSCH-Configured-Indicator, id-HSDSCH-FDD-Information, id-HSDSCH-FDD-Information-Response, id-HSDSCH-FDD-Update-Information, id-HSDSCH-TDD-Update-Information, id-HSDSCH-Information-to-Modify, id-HSDSCH-Information-to-Modify-Unsynchronised, id-HSDSCH-MACdFlows-to-Add,

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id-HSDSCHMacdFlowSpecificInformationList-RL-PreemptRequiredInd, id-HSDSCHMacdFlowSpecificInformationItem-RL-PreemptRequiredInd, id-HSDSCH-Physical-Laver-Category. id-HSDSCH-RNTI. id-HS-DSCH-serving-cell-change-information, id-HS-DSCH-serving-cell-change-informationResponse, id-HSDSCH-TDD-Information, id-HSDSCH-TDD-Information-Response, id-HSPDSCH-RL-ID, id-HSPDSCH-Timeslot-InformationList-PhyChReconfRqstTDD, id-HSPDSCH-Timeslot-InformationListLCR-PhyChReconfRgstTDD, id-HSSICH-Info-DM-Rprt, id-HSSICH-Info-DM-Rgst, id-HSSICH-Info-DM. id-IMSI, id-InformationExchangeID, id-InformationExchangeObjectType-InfEx-Rprt, id-InformationExchangeObjectType-InfEx-Rgst, id-InformationExchangeObjectType-InfEx-Rsp, id-InformationReportCharacteristics, id-InformationType, id-Initial-DL-DPCH-TimingAdjustment, id-Initial-DL-DPCH-TimingAdjustment-Allowed, id-InnerLoopDLPCStatus, id-InterfacesToTraceItem, id-Inter-Frequency-Cell-List, id-L3-Information, id-AdjustmentPeriod, id-ListOfInterfacesToTrace, id-MaxAdjustmentStep, id-Max-UE-DTX-Cycle, id-MBMS-Bearer-Service-List, id-MBMS-Bearer-Service-List-InfEx-Rsp, id-MBMS-Bearer-Service-in-MBMS-Cell-InfEx-Rqst, id-MBMS-Bearer-Service-in-MBMS-Cell-InfEx-Rsp, id-MBMS-Bearer-Service-in-MBMS-Cell-InfEx-Rprt, id-MBMS-Cell-InfEx-Rqst, id-MBMS-Cell-InfEx-Rsp, id-MBMS-Cell-InfEx-Rprt, id-MBSFN-Cluster-Identity, id-MBSFN-Scheduling-Transmission-Time-Interval-Info-List, id-MCCH-Configuration-Info, id-MCCH-Message-List, id-MeasurementFilterCoefficient, id-MeasurementID, id-MeasurementRecoveryBehavior, id-MeasurementRecoveryReportingIndicator, id-MeasurementRecoverySupportIndicator, id-Multiple-PLMN-List, id-Multiple-RL-InformationResponse-RL-ReconfReadyTDD, id-NACC-Related-Data, id-Neighbouring-E-UTRA-CellInformation, id-Old-URA-ID, id-PagingArea-PagingRqst,

id-PartialReportingIndicator, id-PDSCH-RL-ID. id-Permanent-NAS-UE-Identity. id-Phase-Reference-Update-Indicator, id-FACH-FlowControlInformation. id-PLCCH-Information-PhyChReconfRgstTDD, id-PowerAdjustmentType, id-PrimCCPCH-RSCP-DL-PC-RastTDD, id-Primary-CPICH-Usage-For-Channel-Estimation, id-PropagationDelay, id-ProvidedInformation, id-RANAP-EnhancedRelocationInformationRequest, id-RANAP-EnhancedRelocationInformationResponse. id-RANAP-RelocationInformation. id-ResetIndicator. id-Released-CN-Domain. id-EDCH-RLSet-Id, id-RL-Information-PhyChReconfRgstFDD, id-RL-Information-PhyChReconfRgstTDD, id-RL-Information-RL-AdditionRgstFDD, id-RL-Information-RL-AdditionRqstTDD, id-RL-Information-RL-DeletionRqst, id-RL-Information-RL-FailureInd, id-RL-Information-RL-ReconfPrepFDD, id-RL-Information-RL-ReconfPrepTDD, id-RL-Information-RL-RestoreInd. id-RL-Information-RL-SetupRgstFDD, id-RL-Information-RL-SetupRgstTDD, id-RL-InformationItem-RL-CongestInd, id-RL-InformationItem-DM-Rprt, id-RL-InformationItem-DM-Rgst, id-RL-InformationItem-DM-Rsp, id-RL-InformationItem-RL-PreemptRequiredInd, id-RL-InformationItem-RL-SetupRqstFDD, id-RL-InformationList-RL-CongestInd, id-RL-InformationList-RL-AdditionRgstFDD, id-RL-InformationList-RL-DeletionRqst, id-RL-InformationList-RL-PreemptRequiredInd, id-RL-InformationList-RL-ReconfPrepFDD, id-RL-InformationResponse-RL-AdditionRspTDD, id-RL-InformationResponse-RL-ReconfReadyTDD, id-RL-InformationResponse-RL-ReconfRspTDD, id-RL-InformationResponse-RL-SetupRspTDD, id-RL-InformationResponseItem-RL-AdditionRspFDD, id-RL-InformationResponseItem-RL-ReconfReadvFDD, id-RL-InformationResponseItem-RL-ReconfRspFDD, id-RL-InformationResponseItem-RL-SetupRspFDD, id-RL-InformationResponseList-RL-AdditionRspFDD, id-RL-InformationResponseList-RL-ReconfReadyFDD, id-RL-InformationResponseList-RL-ReconfRspFDD, id-RL-InformationResponseList-RL-SetupRspFDD, id-RL-ParameterUpdateIndicationFDD-RL-Information-Item, id-RL-ParameterUpdateIndicationFDD-RL-InformationList, id-RL-ReconfigurationFailure-RL-ReconfFail,

id-RL-ReconfigurationRequestFDD-RL-InformationList, id-RL-ReconfigurationReguestFDD-RL-Information-IEs, id-RL-ReconfigurationRequestTDD-RL-Information. id-RL-ReconfigurationResponseTDD-RL-Information, id-RL-Specific-DCH-Info, id-RL-Specific-EDCH-Information, id-RL-Set-InformationItem-DM-Rprt, id-RL-Set-InformationItem-DM-Rgst, id-RL-Set-InformationItem-DM-Rsp, id-RL-Set-Information-RL-FailureInd, id-RL-Set-Information-RL-RestoreInd, id-RL-Set-Successful-InformationItem-DM-Fail, id-RL-Set-Unsuccessful-InformationItem-DM-Fail, id-RL-Set-Unsuccessful-InformationItem-DM-Fail-Ind, id-RL-Successful-InformationItem-DM-Fail, id-RL-Unsuccessful-InformationItem-DM-Fail, id-RL-Unsuccessful-InformationItem-DM-Fail-Ind, id-ReportCharacteristics, id-Reporting-Object-RL-FailureInd, id-Reporting-Object-RL-RestoreInd, id-RNC-ID, id-RxTimingDeviationForTA, id-S-RNTI, id-SAI, id-Secondary-CPICH-Information, id-Secondary-CPICH-Information-Change, id-Secondary-Serving-Cell-List, id-Dual-Band-Secondary-Serving-Cell-List, id-SixtvfourOAM-DL-SupportIndicator, id-SFN, id-SFNReportingIndicator, id-SNA-Information, id-SRNC-ID, id-STTD-SupportIndicator, id-SuccessfulRL-InformationResponse-RL-AdditionFailureFDD, id-SuccessfulRL-InformationResponse-RL-SetupFailureFDD, id-TDD-maxNrDLPhysicalchannels, id-TDD-Support-8PSK, id-TDD-Support-PLCCH, id-timeSlot-ISCP, id-TimeSlot-RL-SetupRspTDD, id-TnlOos, id-TraceDepth, id-TraceRecordingSessionReference, id-TraceReference, id-TransportBearerID, id-TransportBearerRequestIndicator, id-TransportLayerAddress, id-UC-ID, id-ContextInfoItem-Reset, id-ContextGroupInfoItem-Reset, id-Transmission-Gap-Pattern-Sequence-Information, id-UE-AggregateMaximumBitRate, id-UEIdentity,

id-UEMeasurementType, id-UEMeasurementTimeslotInfoHCR. id-UEMeasurementTimeslotInfoLCR. id-UEMeasurementReportCharacteristics, id-UEMeasurementParameterModAllow. id-UEMeasurementValueInformation, id-UE-State, id-UE-with-enhanced-HS-SCCH-support-indicator, id-UL-CCTrCH-AddInformation-RL-ReconfPrepTDD, id-UL-CCTrCH-DeleteInformation-RL-ReconfPrepTDD, id-UL-CCTrCH-ModifyInformation-RL-ReconfPrepTDD, id-UL-CCTrCH-InformationDeleteItem-RL-ReconfRqstTDD, id-UL-CCTrCH-InformationModifyItem-RL-ReconfRqstTDD, id-UL-CCTrCH-InformationAddList-RL-ReconfPrepTDD, id-UL-CCTrCH-InformationDeleteList-RL-ReconfPrepTDD, id-UL-CCTrCH-InformationModifyList-RL-ReconfPrepTDD, id-UL-CCTrCH-InformationDeleteList-RL-ReconfRgstTDD, id-UL-CCTrCH-InformationModifyList-RL-ReconfRgstTDD, id-UL-CCTrCH-InformationItem-RL-SetupRgstTDD, id-UL-CCTrCH-InformationList-RL-SetupRgstTDD, id-UL-CCTrCH-InformationListIE-PhyChReconfRqstTDD, id-UL-CCTrCH-InformationListIE-RL-AdditionRspTDD, id-UL-CCTrCH-InformationListIE-RL-ReconfReadyTDD, id-UL-CCTrCH-InformationListIE-RL-SetupRspTDD, id-UL-DPCH-Information-RL-ReconfPrepFDD, id-UL-DPCH-Information-RL-ReconfRqstFDD, id-UL-DPCH-Information-RL-SetupRqstFDD, id-UL-DPDCHIndicatorEDCH, id-UL-DPCH-InformationItem-PhyChReconfRgstTDD, id-UL-DPCH-InformationItem-RL-AdditionRspTDD, id-UL-DPCH-InformationItem-RL-SetupRspTDD, id-UL-DPCH-InformationAddListIE-RL-ReconfReadyTDD, id-UL-DPCH-InformationDeleteListIE-RL-ReconfReadvTDD, id-UL-DPCH-InformationModifyListIE-RL-ReconfReadyTDD, id-UL-Physical-Channel-Information-RL-SetupRgstTDD, id-UL-SIRTarget, id-URA-ID, id-URA-Information, id-UnsuccessfulRL-InformationResponse-RL-AdditionFailureFDD, id-UnsuccessfulRL-InformationResponse-RL-AdditionFailureTDD, id-UnsuccessfulRL-InformationResponse-RL-SetupFailureFDD, id-UnsuccessfulRL-InformationResponse-RL-SetupFailureTDD, id-USCHs-to-Add, id-USCH-DeleteList-RL-ReconfPrepTDD, id-USCH-InformationListIE-RL-AdditionRspTDD, id-USCH-InformationListIEs-RL-SetupRspTDD, id-USCH-Information, id-USCH-ModifyList-RL-ReconfPrepTDD, id-USCHToBeAddedOrModifiedList-RL-ReconfReadvTDD, id-DL-Timeslot-ISCP-LCR-Information-RL-SetupRgstTDD, id-RL-LCR-InformationResponse-RL-SetupRspTDD, id-UL-CCTrCH-LCR-InformationListIE-RL-SetupRspTDD, id-UL-DPCH-LCR-InformationItem-RL-SetupRspTDD, id-DL-CCTrCH-LCR-InformationListIE-RL-SetupRspTDD,

id-DL-DPCH-LCR-InformationItem-RL-SetupRspTDD, id-DSCH-LCR-InformationListIEs-RL-SetupRspTDD. id-USCH-LCR-InformationListIEs-RL-SetupRspTDD. id-DL-Timeslot-ISCP-LCR-Information-RL-AdditionRgstTDD, id-RL-LCR-InformationResponse-RL-AdditionRspTDD, id-UL-CCTrCH-LCR-InformationListIE-RL-AdditionRspTDD, id-UL-DPCH-LCR-InformationItem-RL-AdditionRspTDD, id-DL-CCTrCH-LCR-InformationListIE-RL-AdditionRspTDD, id-DL-DPCH-LCR-InformationItem-RL-AdditionRspTDD, id-DSCH-LCR-InformationListIEs-RL-AdditionRspTDD, id-USCH-LCR-InformationListIEs-RL-AdditionRspTDD, id-UL-DPCH-LCR-InformationAddListIE-RL-ReconfReadyTDD, id-UL-Timeslot-LCR-InformationModifyList-RL-ReconfReadyTDD, id-DL-DPCH-LCR-InformationAddListIE-RL-ReconfReadvTDD. id-DL-Timeslot-LCR-InformationModifyList-RL-ReconfReadyTDD, id-UL-Timeslot-LCR-InformationList-PhyChReconfRgstTDD, id-DL-Timeslot-LCR-InformationList-PhyChReconfRgstTDD, id-timeSlot-ISCP-LCR-List-DL-PC-Rgst-TDD, id-TSTD-Support-Indicator-RL-SetupRgstTDD, id-PrimaryCCPCH-RSCP-RL-ReconfPrepTDD, id-DL-TimeSlot-ISCP-Info-RL-ReconfPrepTDD, id-DL-Timeslot-ISCP-LCR-Information-RL-ReconfPrepTDD, id-neighbouringTDDCellMeasurementInformationLCR, id-UL-SIR-Target-CCTrCH-InformationItem-RL-SetupRspTDD, id-UL-SIR-Target-CCTrCH-LCR-InformationItem-RL-SetupRspTDD, id-TrafficClass. id-UL-Synchronisation-Parameters-LCR, id-TDD-DL-DPCH-TimeSlotFormatModifyItem-LCR-RL-ReconfReadyTDD, id-TDD-UL-DPCH-TimeSlotFormatModifyItem-LCR-RL-ReconfReadyTDD, id-MAChs-ResetIndicator, id-UL-TimingAdvanceCtrl-LCR, id-CCTrCH-Maximum-DL-Power-RL-SetupRspTDD, id-CCTrCH-Minimum-DL-Power-RL-SetupRspTDD, id-CCTrCH-Maximum-DL-Power-RL-AdditionRspTDD, id-CCTrCH-Minimum-DL-Power-RL-AdditionRspTDD, id-CCTrCH-Maximum-DL-Power-RL-ReconfReadvTDD, id-CCTrCH-Minimum-DL-Power-RL-ReconfReadyTDD, id-Maximum-DL-Power-TimeslotLCR-InformationModifyItem-RL-ReconfReadyTDD, id-Minimum-DL-Power-TimeslotLCR-InformationModifyItem-RL-ReconfReadyTDD, id-DL-CCTrCH-InformationList-RL-ReconfRspTDD, id-DL-DPCH-InformationModifyItem-LCR-RL-ReconfRspTDD, id-TDD-TPC-UplinkStepSize-LCR-RL-SetupRqstTDD, id-UL-CCTrCH-InformationList-RL-AdditionRqstTDD, id-UL-CCTrCH-InformationItem-RL-AdditionRqstTDD, id-DL-CCTrCH-InformationList-RL-AdditionRgstTDD, id-DL-CCTrCH-InformationItem-RL-AdditionRgstTDD, id-TDD-TPC-UplinkStepSize-InformationAdd-LCR-RL-ReconfPrepTDD, id-TDD-TPC-UplinkStepSize-InformationModify-LCR-RL-ReconfPrepTDD, id-TDD-TPC-DownlinkStepSize-InformationAdd-RL-ReconfPrepTDD, id-TDD-TPC-DownlinkStepSize-InformationModify-RL-ReconfPrepTDD, id-PrimaryCCPCH-RSCP-Delta, id-multiple-DedicatedMeasurementValueList-TDD-DM-Rsp, id-multiple-DedicatedMeasurementValueList-LCR-TDD-DM-Rsp, id-SynchronisationIndicator,

id-secondary-LCR-CCPCH-Info-TDD, id-multiple-HSSICHMeasurementValueList-TDD-DM-Rsp, id-CellCapabilityContainer-TDD768. id-neighbouringTDDCellMeasurementInformation768, id-RL-InformationResponse-RL-SetupRspTDD768, id-UL-CCTrCH-InformationListIE-RL-SetupRspTDD768, id-DL-CCTrCH-InformationListIE-RL-SetupRspTDD768, id-UL-DPCH-InformationItem-RL-SetupRspTDD768, id-DL-DPCH-InformationItem-RL-SetupRspTDD768, id-TDD768-minimumSpreadingFactor-UL, id-TDD768-minimumSpreadingFactor-DL, id-TDD768-maxNrDLPhysicalchannels, id-TDD768-maxNrDLPhysicalchannelsTS, id-RL-InformationResponse-RL-AdditionRspTDD768, id-UL-CCTrCH-InformationListIE-RL-AdditionRspTDD768, id-DL-CCTrCH-InformationListIE-RL-AdditionRspTDD768, id-UL-DPCH-InformationItem-RL-AdditionRspTDD768, id-DL-DPCH-InformationItem-RL-AdditionRspTDD768, id-UL-DPCH-InformationAddListIE-RL-ReconfReadyTDD768, id-UL-Timeslot-InformationModifyList-RL-ReconfReadyTDD768, id-DL-DPCH-InformationAddListIE-RL-ReconfReadyTDD768, id-DL-Timeslot-InformationModifyList-RL-ReconfReadyTDD768, id-secondary-CCPCH-Info-RL-ReconfReadyTDD768, id-HSPDSCH-Timeslot-InformationList-PhyChReconfRgstTDD768, id-UL-Timeslot-InformationList-PhyChReconfRqstTDD768, id-DL-Timeslot-InformationList-PhyChReconfRgstTDD768, id-multiple-DedicatedMeasurementValueList-TDD768-DM-Rsp, id-UEMeasurementTimeslotInfo768, id-DL-DPCH-InformationDeleteList768-RL-ReconfReadyTDD, id-DPCH-ID768-DM-Rsp, id-DPCH-ID768-DM-Rgst, id-DPCH-ID768-DM-Rprt, id-RxTimingDeviationForTAext, id-RxTimingDeviationForTA768, id-E-DCH-Information, id-E-DCH-Information-Reconfig, id-E-DCH-Serving-RL-ID, id-E-DCH-Information-Response, id-E-DCH-768-Information, id-E-DCH-768-Information-Reconfig, id-E-DCH-768-Information-Response, id-E-DCH-LCR-Information, id-E-DCH-LCR-Information-Reconfig, id-E-DCH-LCR-Information-Response, id-PowerControlGAP, id-IdleIntervalInformation, id-NeedforIdleInterval, id-IdleIntervalConfigurationIndicator, id-UARFCNforNt, id-HS-SICH-ID-Extension, id-HSSICH-Info-DM-Rgst-Extension, id-UPPCHPositionLCR, id-Common-EDCH-MAC-d-Flow-Specific-InformationLCR, id-Enhanced-FACH-Information-ResponseLCR,

id-HSDSCH-PreconfigurationSetup, id-HSDSCH-PreconfigurationInfo, id-NoOfTargetCellHS-SCCH-Order. id-EnhancedHSServingCC-Abort, id-GANSS-Time-ID. id-Additional-HS-Cell-Information-RL-Setup, id-Additional-HS-Cell-Information-Response, id-Additional-HS-Cell-Information-RL-Addition, id-Additional-HS-Cell-Change-Information-Response, id-Additional-HS-Cell-Information-RL-Reconf-Prep, id-Additional-HS-Cell-Information-RL-Reconf-Req, id-Additional-HS-Cell-RL-Reconf-Response, id-Additional-HS-Cell-Information-RL-Param-Upd, id-MinimumReducedE-DPDCH-GainFactor, id-ContinuousPacketConnectivity-DRX-InformationLCR, id-ContinuousPacketConnectivity-DRX-Information-ResponseLCR, id-CPC-InformationLCR, id-E-DCH-Semi-PersistentScheduling-Information-LCR, id-HS-DSCH-Semi-PersistentScheduling-Information-LCR, id-HS-DSCH-Semi-PersistentScheduling-Information-ResponseLCR, id-E-DCH-Semi-PersistentScheduling-Information-ResponseLCR, id-ActivationInformation, id-Additional-EDCH-Cell-Information-RL-Setup-Req, id-Additional-EDCH-Cell-Information-Response, id-Additional-EDCH-Cell-Information-RL-Add-Reg, id-Additional-EDCH-Cell-Information-Response-RLAdd, id-Additional-EDCH-Cell-Information-RL-Reconf-Prep, id-Additional-EDCH-Cell-Information-RL-Reconf-Reg, id-Additional-EDCH-Cell-Information-RL-Param-Upd, id-Additional-EDCH-Cell-Information-ResponseRLReconf, id-DCH-MeasurementOccasion-Information, id-DCH-MeasurementType-Indicator, id-Non-Serving-RL-Preconfig-Info, id-Non-Serving-RL-Preconfig-Setup, id-Non-Serving-RL-Preconfig-Removal,

```
id-CPC-RecoveryReport
```

FROM RNSAP-Constants;

```
RadioLinkSetupRequestFDD-IEs RNSAP-PROTOCOL-IES ::= {
      ID id-SRNC-ID
                                    CRITICALITY reject TYPE RNC-ID
                                                                                         PRESENCE mandatory }
      ID id-S-RNTI
                                    CRITICALITY reject TYPE S-RNTI
                                                                                         PRESENCE mandatory
                                                                                                                  } |
      ID id-D-RNTI
                                    CRITICALITY reject TYPE D-RNTI
                                                                                     PRESENCE optional
      ID id-AllowedQueuingTime
                                        CRITICALITY reject TYPE AllowedQueuingTime
                                                                                                 PRESENCE optional
      ID id-UL-DPCH-Information-RL-SetupRgstFDD CRITICALITY reject TYPE UL-DPCH-Information-RL-SetupRgstFDD
                                                                                                                         PRESENCE mandatory
      ID id-DL-DPCH-Information-RL-SetupRqstFDD CRITICALITY reject TYPE DL-DPCH-Information-RL-SetupRqstFDD
                                                                                                                         PRESENCE optional
                                                                                                                  } |
      ID id-DCH-FDD-Information
                                    CRITICALITY reject TYPE DCH-FDD-Information
                                                                                         PRESENCE mandatory
      ID id-RL-Information-RL-SetupRqstFDD
                                                CRITICALITY notify TYPE RL-InformationList-RL-SetupRqstFDD
                                                                                                                         PRESENCE mandatory
                                                                                                                                                }|
      ID id-Transmission-Gap-Pattern-Sequence-Information
                                                                CRITICALITY reject TYPE Transmission-Gap-Pattern-Sequence-Information PRESENCE
    optional }
    { ID id-Active-Pattern-Sequence-Information CRITICALITY reject TYPE Active-Pattern-Sequence-Information
                                                                                                                   PRESENCE optional },
    . . .
UL-DPCH-Information-RL-SetupRgstFDD ::= SEQUENCE
    ul-ScramblingCode
                                    UL-ScramblingCode,
    minUL-ChannelisationCodeLength
                                            MinUL-ChannelisationCodeLength,
    maxNrOfUL-DPCHs
                                                            OPTIONAL
                                    MaxNrOfUL-DPCHs
    -- This IE shall be present if minUL-ChannelisationCodeLength equals to 4 -- ,
    ul-PunctureLimit
                                    PunctureLimit,
    ul-TFCS
                                    TFCS,
    ul-DPCCH-SlotFormat
                                    UL-DPCCH-SlotFormat,
    ul-SIRTarget
                                    UL-SIR
                                                    OPTIONAL,
    diversityMode
                                    DiversitvMode,
    not-Used-sSDT-CellIdLength
                                    NULL
                                                    OPTIONAL,
    not-Used-s-FieldLength
                                    NULL
                                                    OPTIONAL,
    iE-Extensions
                                    ProtocolExtensionContainer { { UL-DPCH-Information-RL-SetupRgstFDD-ExtIEs } } OPTIONAL,
    . . .
UL-DPCH-Information-RL-SetupRqstFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= ·
      ID id-DPC-Mode
                                    CRITICALITY reject
                                                            EXTENSION DPC-Mode
                                                                                             PRESENCE optional }|
     ID id-UL-DPDCHIndicatorEDCH CRITICALITY reject
                                                            EXTENSION UL-DPDCHIndicatorEDCH PRESENCE optional },
    . . .
DL-DPCH-Information-RL-SetupRgstFDD ::= SEQUENCE
    tFCS
                                    TFCS,
    dl-DPCH-SlotFormat
                                    DL-DPCH-SlotFormat,
    nrOfDLchannelisationcodes
                                    NrOfDLchannelisationcodes,
    tFCI-SignallingMode
                                    TFCI-SignallingMode,
    tFCI-Presence
                                    TFCI-Presence
                                                            OPTIONAL
    -- This IE shall be present if DL DPCH Slot Format IE is equal to any of the values from 12 to 16 --,
    multiplexingPosition
                                        MultiplexingPosition,
    powerOffsetInformation
                                        PowerOffsetInformation-RL-SetupRqstFDD,
    fdd-dl-TPC-DownlinkStepSize
                                    FDD-TPC-DownlinkStepSize,
    limitedPowerIncrease
                                    LimitedPowerIncrease,
    innerLoopDLPCStatus
                                    InnerLoopDLPCStatus,
    iE-Extensions
                                    ProtocolExtensionContainer { {DL-DPCH-Information-RL-SetupRgstFDD-ExtIEs} } OPTIONAL,
    . . .
```

DL-DPCH-Information-RL-SetupRqstFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {

```
. . .
PowerOffsetInformation-RL-SetupRgstFDD ::= SEQUENCE
        pol-ForTFCI-Bits
                                        PowerOffset.
       po2-ForTPC-Bits
                                        PowerOffset,
       po3-ForPilotBits
                                        PowerOffset,
                                        ProtocolExtensionContainer { { PowerOffsetInformation-RL-SetupRgstFDD-ExtIEs } } OPTIONAL.
       iE-Extensions
PowerOffsetInformation-RL-SetupRqstFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
RL-InformationList-RL-SetupRqstFDD
                                            ::= SEQUENCE (SIZE (1..maxNrOfRLs)) OF ProtocollE-Single-Container { {RL-InformationItemIEs-RL-
SetupRgstFDD } }
RL-InformationItemIEs-RL-SetupRqstFDD RNSAP-PROTOCOL-IES ::= {
    { ID id-RL-InformationItem-RL-SetupRgstFDD CRITICALITY notify TYPE RL-InformationItem-RL-SetupRgstFDD
                                                                                                                         PRESENCE mandatory
RL-InformationItem-RL-SetupRqstFDD ::= SEQUENCE {
    rL-ID
                                    RL-ID,
    C-TD
                                    C-ID,
    firstRLS-indicator
                                    FirstRLS-Indicator,
    frameOffset
                                    FrameOffset,
    chipOffset
                                    ChipOffset,
                                    PropagationDelay
    propagationDelay
                                                            OPTIONAL,
    diversityControlField
                                    DiversityControlField
                                                                OPTIONAL
    -- This IE shall be present if the RL is not the first one in the RL-InformationList-RL-SetupRqstFDD --,
    dl-InitialTX-Power
                                    DL-Power
                                                        OPTIONAL,
    primaryCPICH-EcNo
                                    PrimaryCPICH-EcNo
                                                                OPTIONAL.
   not-Used-sSDT-CellID
                                    NULL
                                                    OPTIONAL,
                                    TransmitDiversitvIndicator
    transmitDiversitvIndicator
                                                                    OPTIONAL,
    -- This IE shall be present unless Diversity Mode IE in UL DPCH Information group is "none"
                                    ProtocolExtensionContainer { {RL-InformationItem-RL-SetupRqstFDD-ExtIEs} } OPTIONAL,
    iE-Extensions
RL-InformationItem-RL-SetupRqstFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
      ID id-Enhanced-PrimaryCPICH-EcNo
                                                CRITICALITY ignore
                                                                         EXTENSION Enhanced-PrimaryCPICH-EcNo
                                                                                                                    PRESENCE optional
      ID id-RL-Specific-DCH-Info
                                                CRITICALITY ignore
                                                                         EXTENSION RL-Specific-DCH-Info
                                                                                                                    PRESENCE optional
      ID id-DelayedActivation
                                                CRITICALITY reject
                                                                         EXTENSION DelayedActivation
                                                                                                                    PRESENCE optional
      ID id-CellPortionID
                                                CRITICALITY ignore
                                                                         EXTENSION CellPortionID
                                                                                                                    PRESENCE optional
      ID id-RL-Specific-EDCH-Information
                                                CRITICALITY reject
                                                                         EXTENSION RL-Specific-EDCH-Information
                                                                                                                    PRESENCE optional
                                                                                                                    PRESENCE optional
      ID id-EDCH-RL-Indication
                                                CRITICALITY reject
                                                                         EXTENSION EDCH-RL-Indication
      ID id-ExtendedPropagationDelay
                                                CRITICALITY ignore
                                                                         EXTENSION ExtendedPropagationDelay
                                                                                                                    PRESENCE optional
      ID id-SynchronisationIndicator
                                                CRITICALITY reject
                                                                         EXTENSION SynchronisationIndicator
                                                                                                                    PRESENCE optional
      ID id-HSDSCH-PreconfigurationSetup
                                                CRITICALITY ignore
                                                                         EXTENSION HSDSCH-PreconfigurationSetup
                                                                                                                    PRESENCE optional
     ID id-Non-Serving-RL-Preconfig-Setup
                                                CRITICALITY ignore
                                                                         EXTENSION Non-Serving-RL-Preconfig-Setup PRESENCE optional },
    . . .
```

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RadioLinkSetupRequestFDD-Extensions RNSAP-PROTOCOL-EXTENSION ::= { ID id-Permanent-NAS-UE-Identity CRITICALITY ignore EXTENSION Permanent-NAS-UE-Identity PRESENCE optional }| ID id-DL-PowerBalancing-Information CRITICALITY ignore EXTENSION DL-PowerBalancing-Information PRESENCE optional } | ID id-HSDSCH-FDD-Information CRITICALITY reject EXTENSION HSDSCH-FDD-Information PRESENCE optional } | ID id-HSPDSCH-RL-ID CRITICALITY reject EXTENSION RL-ID PRESENCE conditional } -- This IE shall be present if HS-DSCH Information IE is present. { ID id-MBMS-Bearer-Service-List CRITICALITY notify EXTENSION MBMS-Bearer-Service-List PRESENCE optional }| { ID id-EDPCH-Information CRITICALITY reject EXTENSION EDPCH-Information-FDD PRESENCE optional } ID id-EDCH-FDD-Information CRITICALITY reject EXTENSION EDCH-FDD-Information PRESENCE conditional }| -- This IE is present if E-DPCH Information IE is present. { ID id-Serving-EDCHRL-Id CRITICALITY reject EXTENSION EDCH-Serving-RL PRESENCE optional } -- This IE is present if E-DCHInformation IE is present. { ID id-F-DPCH-Information-RL-SetupRgstFDD CRITICALITY reject EXTENSION F-DPCH-Information-RL-SetupRgstFDD PRESENCE optional }| { ID id-Initial-DL-DPCH-TimingAdjustment-Allowed PRESENCE optional CRITICALITY ignore EXTENSION Initial-DL-DPCH-TiminqAdjustment-Allowed }| ID id-DCH-Indicator-For-E-DCH-HSDPA-Operation CRITICALITY reject EXTENSION DCH-Indicator-For-E-DCH-HSDPA-Operation PRESENCE optional }| { ID id-Serving-cell-change-CFN CRITICALITY reject PRESENCE optional EXTENSION CFN }| { ID id-Continuous-Packet-Connectivity-DTX-DRX-Information CRITICALITY reject EXTENSION Continuous-Packet-Connectivity-DTX-DRX-Information PRESENCE optional } { ID id-Continuous-Packet-Connectivity-HS-SCCH-Less-Information CRITICALITY reject EXTENSION Continuous-Packet-Connectivity-HS-SCCH-Less-PRESENCE optional Information }| ID id-Extended-SRNC-ID CRITICALITY reject EXTENSION Extended-RNC-ID PRESENCE optional }| { ID id-Additional-HS-Cell-Information-RL-Setup CRITICALITY reject EXTENSION Additional-HS-Cell-Information-RL-Setup-List PRESENCE optional } { ID id-UE-AggregateMaximumBitRate CRITICALITY ignore EXTENSION UE-AggregateMaximumBitRate PRESENCE optional }| { ID id-Additional-EDCH-Cell-Information-RL-Setup-Req CRITICALITY reject EXTENSION Additional-EDCH-Setup-Info PRESENCE optional }, . . . Additional-HS-Cell-Information-RL-Setup-List := SEQUENCE (SIZE (1..maxNrOfHSDSCH-1)) OF Additional-HS-Cell-Information-RL-Setup-ItemIEs Additional-HS-Cell-Information-RL-Setup-ItemIEs ::=SEQUENCE{ hSPDSCH-RL-ID RL-ID, c-ID C-ID, hS-DSCH-FDD-Secondary-Serving-Information HS-DSCH-FDD-Secondary-Serving-Information, iE-Extensions ProtocolExtensionContainer { { Additional-HS-Cell-Information-RL-Setup-ItemIEs-ExtIEs } } OPTIONAL,

PRESENCE mand

PRESENCE mand

```
. . .
}
Additional-HS-Cell-Information-RL-Setup-ItemIEs-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
}
F-DPCH-Information-RL-SetupRqstFDD ::= SEQUENCE {
   powerOffsetInformation
                                  PowerOffsetInformation-F-DPCH-RL-SetupRqstFDD,
    fdd-dl-TPC-DownlinkStepSize
                                  FDD-TPC-DownlinkStepSize,
   limitedPowerIncrease
                                  LimitedPowerIncrease,
    innerLoopDLPCStatus
                                  InnerLoopDLPCStatus,
   iE-Extensions
                                  ProtocolExtensionContainer { { F-DPCH-Information-RL-SetupRgstFDD-ExtIEs } }
   OPTIONAL.
    . . .
F-DPCH-Information-RL-SetupRqstFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
     ID id-F-DPCH-SlotFormatSupportRequest
                                              CRITICALITY reject
                                                                         EXTENSION F-DPCH-SlotFormatSupportRequest
                                                                                                                           PRESENCE optional
    { ID id-F-DPCH-SlotFormat
                                          CRITICALITY ignore EXTENSION F-DPCH-SlotFormat
                                                                                            PRESENCE optional },
    . . .
}
PowerOffsetInformation-F-DPCH-RL-SetupRqstFDD ::= SEQUENCE {
   po2-ForTPC-Bits
                                  PowerOffset,
   --This IE shall be ignored by DRNS
   iE-Extensions
                                  ProtocolExtensionContainer { { PowerOffsetInformation-F-DPCH-RL-SetupRgstFDD-ExtIEs } }
                                                                                                                                  OPTIONAL,
    . . .
}
PowerOffsetInformation-F-DPCH-RL-SetupRgstFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
    ***********
- -
-- RADIO LINK SETUP REQUEST TDD
- -
    *******
RadioLinkSetupRequestTDD ::= SEQUENCE {
                                                             {{RadioLinkSetupRequestTDD-IEs}},
   protocolIEs
                                  ProtocolIE-Container
                                  ProtocolExtensionContainer {{RadioLinkSetupRequestTDD-Extensions}}
   protocolExtensions
                                                                                                                     OPTIONAL,
    . . .
RadioLinkSetupRequestTDD-IEs RNSAP-PROTOCOL-IES ::= {
     ID id-SRNC-ID
                                                                                                           PRESENCE mandatory }
                                                          CRITICALITY reject TYPE RNC-ID
     ID id-S-RNTI
                                                          CRITICALITY reject TYPE S-RNTI
                                                                                                           PRESENCE mandatory }
     ID id-D-RNTI
                                                          CRITICALITY reject TYPE D-RNTI
                                                                                                           PRESENCE optional }
     ID id-UL-Physical-Channel-Information-RL-SetupRqstTDD CRITICALITY reject TYPE UL-Physical-Channel-Information-RL-SetupRqstTDD
     ID id-DL-Physical-Channel-Information-RL-SetupRqstTDD CRITICALITY reject TYPE DL-Physical-Channel-Information-RL-SetupRqstTDD
     ID id-AllowedQueuingTime
                                                                                                           PRESENCE optional } |
                                                          CRITICALITY reject TYPE AllowedQueuingTime
```

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{ ID id-UL-CCTrCH-InformationList-RL-SetupRqstTDD CRITICALITY notify TYPE UL-CCTrCH-InformationList-RL-SetupRqstTDD PRESENCE optional } ID id-DL-CCTrCH-InformationList-RL-SetupRgstTDD CRITICALITY notify TYPE DL-CCTrCH-InformationList-RL-SetupRqstTDD PRESENCE optional } ID id-DCH-TDD-Information CRITICALITY reject TYPE DCH-TDD-Information PRESENCE optional ID id-DSCH-TDD-Information CRITICALITY reject TYPE DSCH-TDD-Information PRESENCE optional ID id-USCH-Information CRITICALITY reject TYPE USCH-Information PRESENCE optional ID id-RL-Information-RL-SetupRqstTDD CRITICALITY reject TYPE RL-Information-RL-SetupRgstTDD PRESENCE mandatory }, . . . UL-Physical-Channel-Information-RL-SetupRgstTDD ::= SEQUENCE { maxNrTimeslots-UL MaxNrTimeslots. minimumSpreadingFactor-UL MinimumSpreadingFactor, maxNrULPhysicalchannels MaxNrULPhysicalchannels, ProtocolExtensionContainer { { UL-Physical-Channel-InformationItem-RL-SetupRgstTDD-ExtIEs } } OPTIONAL, iE-Extensions . . . UL-Physical-Channel-InformationItem-RL-SetupRgstTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= { { ID id-TDD-Support-8PSK }| CRITICALITY ignore EXTENSION Support-8PSK PRESENCE optional -- Applicable to 1.28Mcps TDD only ID id-TDD768-minimumSpreadingFactor-UL CRITICALITY ignore EXTENSION MinimumSpreadingFactor768 PRESENCE optional ł. . . . 3 DL-Physical-Channel-Information-RL-SetupRgstTDD ::= SEQUENCE { maxNrTimeslots-DL MaxNrTimeslots, minimumSpreadingFactor-DL MinimumSpreadingFactor, maxNrDLPhysicalchannels MaxNrDLPhysicalchannels, iE-Extensions ProtocolExtensionContainer { {DL-Physical-Channel-InformationItem-RL-SetupRqstTDD-ExtIEs} } OPTIONAL, . . . DL-Physical-Channel-InformationItem-RL-SetupRqstTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= { { ID id-TDD-maxNrDLPhysicalchannels CRITICALITY ignore EXTENSION MaxNrDLPhysicalchannelsTS PRESENCE optional }| { ID id-TDD-Support-8PSK CRITICALITY ignore EXTENSION Support-8PSK PRESENCE optional }| -- Applicable to 1.28Mcps TDD only { ID id-TDD-Support-PLCCH CRITICALITY ignore EXTENSION Support-PLCCH PRESENCE optional }| { ID id-TDD768-minimumSpreadingFactor-DL PRESENCE CRITICALITY ignore EXTENSION MinimumSpreadingFactor768 optional }| ID id-TDD768-maxNrDLPhysicalchannels CRITICALITY ignore EXTENSION MaxNrDLPhysicalchannels768 PRESENCE optional ID id-TDD768-maxNrDLPhysicalchannelsTS CRITICALITY ignore EXTENSION MaxNrDLPhysicalchannelsTS768 PRESENCE optional **}**, . . .

```
::= SEQUENCE (SIZE (1..maxNrOfCCTrCHs)) OF ProtocolIE-Single-Container { {UL-CCTrCH-
UL-CCTrCH-InformationList-RL-SetupRqstTDD
InformationItemIEs-RL-SetupRgstTDD } 
UL-CCTrCH-InformationItemIEs-RL-SetupRgstTDD RNSAP-PROTOCOL-IES ::= {
      ID id-UL-CCTrCH-InformationItem-RL-SetupRgstTDD CRITICALITY notify TYPE UL-CCTrCH-InformationItem-RL-SetupRgstTDD
                                                                                                                                 PRESENCE mandatory
}
UL-CCTrCH-InformationItem-RL-SetupRqstTDD ::= SEQUENCE {
    cCTrCH-ID
                                    CCTrCH-ID,
    ul-TFCS
                                    TFCS,
    tFCI-Coding
                                    TFCI-Coding,
    ul-PunctureLimit
                                    PunctureLimit.
    iE-Extensions
                                    ProtocolExtensionContainer { { UL-CCTrCH-InformationItem-RL-SetupRgstTDD-ExtIEs } } OPTIONAL,
    . . .
UL-CCTrCH-InformationItem-RL-SetupRqstTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    { ID id-TDD-TPC-UplinkStepSize-LCR-RL-SetupRqstTDD
                                                            CRITICALITY reject
                                                                                     EXTENSION TDD-TPC-UplinkStepSize-LCR
                                                                                                                                         PRESENCE
optional
          },
    -- Mandatory for 1.28Mcps TDD, not applicable to 3.84Mcps TDD or 7.68Mcps TDD
    . . .
}
DL-CCTrCH-InformationList-RL-SetupRqstTDD
                                                    ::= SEQUENCE (SIZE (1..maxNrOfCCTrCHs)) OF ProtocolIE-Single-Container { {DL-CCTrCH-
InformationItemIEs-RL-SetupRqstTDD} }
DL-CCTrCH-InformationItemIEs-RL-SetupRgstTDD RNSAP-PROTOCOL-IES ::= {
     ID id-DL-CCTrCH-InformationItem-RL-SetupRgstTDD CRITICALITY notify TYPE DL-CCTrCH-InformationItem-RL-SetupRgstTDD
                                                                                                                                 PRESENCE mandatory
}
DL-CCTrCH-InformationItem-RL-SetupRqstTDD ::= SEQUENCE {
                                    CCTrCH-ID,
    cCTrCH-ID
   dl-TFCS
                                    TFCS,
    tFCI-Coding
                                    TFCI-Coding,
    dl-PunctureLimit
                                    PunctureLimit,
                                    TDD-TPC-DownlinkStepSize,
    tdd-TPC-DownlinkStepSize
                                    CCTrCH-TPCList-RL-SetupRgstTDD OPTIONAL,
    cCTrCH-TPCList
    iE-Extensions
                                    ProtocolExtensionContainer { {DL-CCTrCH-InformationItem-RL-SetupRgstTDD-ExtIEs} } OPTIONAL,
    . . .
DL-CCTrCH-InformationItem-RL-SetupRgstTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
CCTrCH-TPCList-RL-SetupRqstTDD ::= SEQUENCE (SIZE (1..maxNrOfCCTrCHs)) OF CCTrCH-TPCItem-RL-SetupRqstTDD
CCTrCH-TPCItem-RL-SetupRgstTDD ::= SEQUENCE {
    cCTrCH-ID
                                        CCTrCH-ID,
                                        ProtocolExtensionContainer { { CCTrCH-TPCItem-RL-SetupRqstTDD-ExtIEs } } OPTIONAL,
    iE-Extensions
    . . .
```

CCTrCH-TPCItem-RL-SetupRgstTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= { . . . RL-Information-RL-SetupRgstTDD ::= SEQUENCE { rL-TD RL-ID, c-ID C-ID, frameOffset FrameOffset, SpecialBurstScheduling, specialBurstScheduling primaryCCPCH-RSCP PrimaryCCPCH-RSCP OPTIONAL, DL-TimeSlot-ISCP-Info dL-TimeSlot-ISCP OPTIONAL, --for 3.84Mcps TDD and 7.68Mcps TDD only iE-Extensions ProtocolExtensionContainer { {RL-Information-RL-SetupRgstTDD-ExtIEs} } OPTIONAL, . . . RL-Information-RL-SetupRqstTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= { { ID id-DL-Timeslot-ISCP-LCR-Information-RL-SetupRqstTDD CRITICALITY reject EXTENSION DL-TimeSlot-ISCP-LCR-Information PRESENCE optional }| { ID id-TSTD-Support-Indicator-RL-SetupRqstTDD CRITICALITY ignore EXTENSION TSTD-Support-Indicator PRESENCE optional }| --for 1.28Mcps TDD only ID id-RL-Specific-DCH-Info CRITICALITY ignore }| EXTENSION RL-Specific-DCH-Info PRESENCE optional ID id-DelayedActivation CRITICALITY reject EXTENSION DelayedActivation PRESENCE optional } [ ID id-UL-Synchronisation-Parameters-LCR CRITICALITY reject EXTENSION UL-Synchronisation-Parameters-LCR PRESENCE optional }| -- Mandatory for 1.28Mcps TDD, Not Applicable to 3.84Mcps TDD or 7.68Mcps TDD ID id-PrimaryCCPCH-RSCP-Delta EXTENSION PrimaryCCPCH-RSCP-Delta CRITICALITY ignore PRESENCE optional }| ID id-IdleIntervalConfigurationIndicator CRITICALITY ignore EXTENSION PRESENCE NULL optional } { ID id-CellPortionLCRID CRITICALITY ignore EXTENSION CellPortionLCRID PRESENCE optional }, . . . RadioLinkSetupRequestTDD-Extensions RNSAP-PROTOCOL-EXTENSION ::= ID id-Permanent-NAS-UE-Identity CRITICALITY ignore EXTENSION Permanent-NAS-UE-Identity PRESENCE optional ID id-HSDSCH-TDD-Information CRITICALITY reject EXTENSION HSDSCH-TDD-Information PRESENCE optional ID id-HSPDSCH-RL-ID CRITICALITY reject EXTENSION RL-ID PRESENCE conditional -- This IE shall be present if HS-DSCH Information IE is present. ID id-PDSCH-RL-ID PRESENCE optional }| CRITICALITY ignore EXTENSION RL-ID CRITICALITY notify ID id-MBMS-Bearer-Service-List PRESENCE optional } EXTENSION MBMS-Bearer-Service-List ID id-E-DCH-Information CRITICALITY reject PRESENCE optional } EXTENSION E-DCH-Information PRESENCE optional ID id-E-DCH-Serving-RL-ID CRITICALITY reject EXTENSION RL-ID ID id-E-DCH-768-Information CRITICALITY reject EXTENSION E-DCH-768-Information PRESENCE optional ID id-E-DCH-LCR-Information CRITICALITY reject EXTENSION E-DCH-LCR-Information PRESENCE optional ID id-Extended-SRNC-ID CRITICALITY reject EXTENSION Extended-RNC-ID PRESENCE optional } ID id-ContinuousPacketConnectivity-DRX-InformationLCR CRITICALITY reject EXTENSION ContinuousPacketConnectivity-DRX-InformationLCR PRESENCE optional }|

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{ ID id-HS-DSCH-Semi-PersistentScheduling-Information-LCR CRITICALITY reject EXTENSION HS-DSCH-Semi-PersistentScheduling-Information-LCR PRESENCE optional }| { ID id-E-DCH-Semi-PersistentScheduling-Information-LCR CRITICALITY reject EXTENSION E-DCH-Semi-PersistentScheduling-Information-LCR PRESENCE optional }| { ID id-RNTI-Allocation-Indicator CRITICALITY ignore EXTENSION RNTI-Allocation-Indicator PRESENCE optional }| { ID id-DCH-MeasurementType-Indicator CRITICALITY reject EXTENSION DCH-MeasurementType-Indicator PRESENCE optional }, . . . RADIO LINK SETUP RESPONSE FDD \_ \_ \*\*\*\*\*\*\* RadioLinkSetupResponseFDD ::= SEQUENCE { protocolIEs ProtocolIE-Container {{RadioLinkSetupResponseFDD-IEs}}, ProtocolExtensionContainer {{RadioLinkSetupResponseFDD-Extensions}} protocolExtensions OPTIONAL, . . . RadioLinkSetupResponseFDD-IEs RNSAP-PROTOCOL-IES ::= { ID id-D-RNTI CRITICALITY ignore TYPE D-RNTI PRESENCE optional ID id-CN-PS-DomainIdentifier CRITICALITY ignore TYPE CN-PS-DomainIdentifier PRESENCE optional ID id-CN-CS-DomainIdentifier CRITICALITY ignore TYPE CN-CS-DomainIdentifier PRESENCE optional ID id-RL-InformationResponseList-RL-SetupRspFDD CRITICALITY ignore TYPE RL-InformationResponseList-RL-SetupRspFDD PRESENCE mandatory ID id-UL-SIRTarget CRITICALITY ignore TYPE UL-SIR PRESENCE optional } ID id-CriticalityDiagnostics TYPE CriticalityDiagnostics PRESENCE optional }, CRITICALITY ignore . . . RL-InformationResponseList-RL-SetupRspFDD ::= SEQUENCE (SIZE (1..maxNrOfRLs)) OF ProtocolIE-Single-Container { {RL-InformationResponseItemIEs-RL-SetupRspFDD } } RL-InformationResponseItemIEs-RL-SetupRspFDD RNSAP-PROTOCOL-IES ::= { ID id-RL-InformationResponseItem-RL-SetupRspFDD CRITICALITY ignore TYPE RL-InformationResponseItem-RL-SetupRspFDD PRESENCE mandatory } RL-InformationResponseItem-RL-SetupRspFDD ::= SEQUENCE { rL-ID RL-ID, rL-Set-TD RL-Set-ID, URA-Information uRA-Information OPTIONAL, αΔT SAI, qA-Cell GA-Cell OPTIONAL, qA-AccessPointPosition GA-AccessPointPosition OPTIONAL. received-total-wide-band-power Received-total-wide-band-power, not-Used-secondary-CCPCH-Info OPTIONAL, NULL dl-CodeInformation FDD-DL-CodeInformation, diversityIndication DiversityIndication-RL-SetupRspFDD, sSDT-SupportIndicator SSDT-SupportIndicator, maxUL-SIR UL-SIR,

minUL-SIR UL-SI	TP		
	edlooptimingadjustmentmode	OPTIONAL,	
	mumAllowedULTxPower,	OFIIONAL,	
	ower,		
	ower,		
	aryScramblingCode	OPTIONAL,	
uL-UARFCN UARFC		OPTIONAL,	
dL-UARFCN UARFC		OPTIONAL,	
	aryCPICH-Power,	OFIIONAL,	
	NULL	OPTIONAL,	
-	Neighbouring-UMTS-CellInformation	OPTIONAL,	
	Neighbouring-GSM-CellInformation	OPTIONAL,	
5 5	reamble,		
1	Delay,		
		ationResponseItem-RL-SetupRspFDD-ExtIEs} } OPTIONAL,	
}			
]			
RL-InformationResponseItem-RL-SetupRspFD	O-ExtIEs RNSAP-PROTOCOL-EXTENSION :	:= {	
{ ID id-GA-CellAdditionalShapes		EXTENSION GA-CellAdditionalShapes	
PRESENCE optional }			
{ ID id-DL-PowerBalancing-Activation	Indicator CRITICALITY ignore	EXTENSION DL-PowerBalancing-ActivationIndicator	
PRESENCE optional }			
{ ID id-HCS-Prio	CRITICALITY ignore	EXTENSION HCS-Prio	
PRESENCE optional }			
	nel-Estimation CRITICALITY ignore	EXTENSION Primary-CPICH-Usage-For-Channel-Estimation PRESENC	Е
optional }			
{ ID id-Secondary-CPICH-Information	CRITICALITY ignore	EXTENSION Secondary-CPICH-Information	
PRESENCE optional }	5	-	
{ ID id-Active-MBMS-Bearer-ServiceFD	D-PFL CRITICALITY ignore	EXTENSION Active-MBMS-Bearer-Service-ListFDD-PFL	
PRESENCE optional }			
{ ID id-EDCH-RLSet-Id	CRITICALITY ignore	EXTENSION RL-Set-ID	
PRESENCE optional }	_		
{ ID id-EDCH-FDD-DL-ControlChannelIn:	formation CRITICALITY ignore	EXTENSION EDCH-FDD-DL-ControlChannelInformation	
PRESENCE optional }			
{ ID id-Initial-DL-DPCH-TimingAdjust	nent CRITICALITY ignore	EXTENSION DL-DPCH-TimingAdjustment	
PRESENCE optional }			
{ ID id-F-DPCH-SlotFormat	CRITICALITY ignore	EXTENSION F-DPCH-SlotFormat	
PRESENCE optional }			
{ ID id-FrameOffset	CRITICALITY ignore	EXTENSION FrameOffset	
PRESENCE optional }			
{ ID id-ChipOffset	CRITICALITY ignore	EXTENSION ChipOffset	
PRESENCE optional }			
{ ID id-Neighbouring-E-UTRA-CellInfo:	cmation CRITICALITY ignore	EXTENSION Neighbouring-E-UTRA-CellInformation	
PRESENCE optional }			
{ ID id-HSDSCH-PreconfigurationInfo	CRITICALITY ignore	EXTENSION HSDSCH-PreconfigurationInfo	
PRESENCE optional }			
{ ID id-Non-Serving-RL-Preconfig-Info	CRITICALITY ignore	EXTENSION Non-Serving-RL-Preconfig-Info	
<pre>PRESENCE optional },</pre>			

}

DiversityIndication-RL-SetupRspFDD ::= CHOICE { combining Combining-RL-SetupRspFDD,

```
nonCombiningOrFirstRL
                                    NonCombiningOrFirstRL-RL-SetupRspFDD
3
Combining-RL-SetupRspFDD ::= SEQUENCE
    rL-TD
                                RL-ID.
                                ProtocolExtensionContainer { { CombiningItem-RL-SetupRspFDD-ExtIEs } } OPTIONAL,
    iE-Extensions
    . . .
CombiningItem-RL-SetupRspFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::=
      ID id-DCH-InformationResponse
                                            CRITICALITY ignore EXTENSION DCH-InformationResponse
                                                                                                                                PRESENCE optional
     ID id-EDCH-FDD-InformationResponse
                                            CRITICALITY ignore EXTENSION EDCH-FDD-InformationResponse
                                                                                                                        PRESENCE optional
                                                                                                                                               },
NonCombiningOrFirstRL-RL-SetupRspFDD ::= SEQUENCE {
    dCH-InformationResponse
                                DCH-InformationResponse,
                                ProtocolExtensionContainer { { NonCombiningOrFirstRLItem-RL-SetupRspFDD-ExtIEs } } OPTIONAL,
    iE-Extensions
    . . .
NonCombiningOrFirstRLItem-RL-SetupRspFDD-ExtlEs RNSAP-PROTOCOL-EXTENSION ::= {
                                           CRITICALITY ignore EXTENSION EDCH-FDD-InformationResponse
    {ID id-EDCH-FDD-InformationResponse
                                                                                                                        PRESENCE optional }.
    . . .
}
RadioLinkSetupResponseFDD-Extensions RNSAP-PROTOCOL-EXTENSION ::= {
    { ID id-HSDSCH-RNTI
                                                CRITICALITY ignore
                                                                        EXTENSION HSDSCH-RNTI
    PRESENCE optional }|
     ID id-HSDSCH-FDD-Information-Response
                                                CRITICALITY ignore
                                                                        EXTENSION HSDSCH-FDD-Information-Response
                                                                                                                                PRESENCE optional }
     ID id-Continuous-Packet-Connectivity-HS-SCCH-Less-Information-Response
                                                                                    CRITICALITY iqnore
                                                                                                                 EXTENSION Continuous-Packet-
Connectivity-HS-SCCH-Less-Information-Response
                                                    PRESENCE optional }
     ID id-SixtyfourQAM-DL-SupportIndicator CRITICALITY ignore
                                                                        EXTENSION SixtyfourQAM-DL-SupportIndicator
                                                                                                                                PRESENCE optional }
      ID id-Additional-HS-Cell-Information-Response CRITICALITY ignore
                                                                            EXTENSION Additional-HS-Cell-Information-Response-List
    PRESENCE optional }|
    { ID id-Additional-EDCH-Cell-Information-Response
                                                            CRITICALITY ignore EXTENSION Additional-EDCH-Cell-Information-Response-List
        PRESENCE optional },
    . . .
Additional-HS-Cell-Information-Response-List := SEQUENCE (SIZE (1..maxNrOfHSDSCH-1)) OF Additional-HS-Cell-Information-Response-ItemIEs
Additional-HS-Cell-Information-Response-ItemIEs ::=SEQUENCE{
    hSPDSCH-RL-ID
                                                        RL-ID,
    hSDSCH-RNTI
                                                        HSDSCH-RNTI,
    hS-DSCH-FDD-Secondary-Serving-Information-Response HS-DSCH-FDD-Secondary-Serving-Information-Response,
    sixtyfourQAM-DL-SupportIndicator
                                                        SixtyfourOAM-DL-SupportIndicator
                                                                                            OPTIONAL,
    iE-Extensions
                                    ProtocolExtensionContainer { { Additional-HS-Cell-Information-Response-ItemIEs-ExtIEs } } OPTIONAL,
    . . .
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Additional-HS-Cell-Information-Response-ItemIEs-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= { - --- RADIO LINK SETUP RESPONSE TDD \*\*\*\*\*\*\*\*\*\* RadioLinkSetupResponseTDD ::= SEQUENCE { {{RadioLinkSetupResponseTDD-IEs}}, protocolIEs ProtocolIE-Container protocolExtensions ProtocolExtensionContainer {{RadioLinkSetupResponseTDD-Extensions}} OPTIONAL, . . . } RadioLinkSetupResponseTDD-IEs RNSAP-PROTOCOL-IES ::= { ID id-D-RNTI CRITICALITY ignore TYPE D-RNTI PRESENCE optional ID id-CN-PS-DomainIdentifier PRESENCE optional CRITICALITY ignore TYPE CN-PS-DomainIdentifier ID id-CN-CS-DomainIdentifier CRITICALITY ignore TYPE CN-CS-DomainIdentifier PRESENCE optional ID id-RL-InformationResponse-RL-SetupRspTDD CRITICALITY ignore TYPE RL-InformationResponse-RL-SetupRspTDD PRESENCE optional --Mandatory for 3.84Mcps TDD only PRESENCE mandatory } ID id-UL-SIRTarget CRITICALITY ignore TYPE UL-SIR CRITICALITY ignore TYPE CriticalityDiagnostics ID id-CriticalityDiagnostics PRESENCE optional }, . . . } RL-InformationResponse-RL-SetupRspTDD ::= SEQUENCE { rL-ID RL-ID, uRA-Information URA-Information OPTIONAL, sAI SAI. GA-Cell OPTIONAL, qA-Cell qA-AccessPointPosition GA-AccessPointPosition OPTIONAL, ul-TimeSlot-ISCP-Info UL-TimeSlot-ISCP-Info, maxUL-SIR UL-SIR, minUL-SIR UL-SIR, maximumAllowedULTxPower MaximumAllowedULTxPower, maximumDLTxPower DL-Power, minimumDLTxPower DL-Power, uARFCNforNt UARFCN OPTIONAL, cellParameterID CellParameterID OPTIONAL, syncCase SyncCase OPTIONAL, sCH-TimeSlot SCH-TimeSlot OPTIONAL, -- This IE shall be present if Sync Case IE is equal to "Case2". -sCTD-Indicator SCTD-Indicator OPTIONAL, pCCPCH-Power PCCPCH-Power, TimingAdvanceApplied, timingAdvanceApplied alphaValue AlphaValue, ul-PhysCH-SF-Variation UL-PhysCH-SF-Variation, synchronisationConfiguration SynchronisationConfiguration, secondary-CCPCH-Info-TDD Secondary-CCPCH-Info-TDD OPTIONAL, ul-CCTrCHInformation UL-CCTrCHInformationList-RL-SetupRspTDD OPTIONAL, dl-CCTrCHInformation DL-CCTrCHInformationList-RL-SetupRspTDD OPTIONAL, DCH-InformationResponseList-RL-SetupRspTDD dCH-InformationResponse OPTIONAL,

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DSCH-InformationResponse-RL-SetupRspTDD OPTIONAL,
    dsch-InformationResponse
    usch-InformationResponse
                                        USCH-InformationResponse-RL-SetupRspTDD OPTIONAL,
    neighbouring-UMTS-CellInformation
                                                Neighbouring-UMTS-CellInformation OPTIONAL,
    neighbouring-GSM-CellInformation
                                                Neighbouring-GSM-CellInformation OPTIONAL,
    iE-Extensions
                                    ProtocolExtensionContainer { {RL-InformationResponse-RL-SetupRspTDD-ExtIEs } } OPTIONAL,
    . . .
RL-InformationResponse-RL-SetupRspTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    { ID id-GA-CellAdditionalShapes
                                                    CRITICALITY ignore EXTENSION
                                                                                    GA-CellAdditionalShapes
    PRESENCE optional }|
    { ID id-HCS-Prio
                                                    CRITICALITY ignore EXTENSION
                                                                                    HCS-Prio
        PRESENCE optional }|
    { ID id-TimeSlot-RL-SetupRspTDD
                                                    CRITICALITY ignore EXTENSION
                                                                                    TimeSlot
        PRESENCE conditional
                               }|
    -- This IE shall be present if Sync Case IE is Case1. --
    { ID id-Neighbouring-E-UTRA-CellInformation
                                                    CRITICALITY ignore EXTENSION Neighbouring-E-UTRA-CellInformation
                                                                                                                                 PRESENCE optional },
UL-CCTrCHInformationList-RL-SetupRspTDD ::= ProtocolIE-Single-Container {{UL-CCTrCHInformationListIEs-RL-SetupRspTDD}}
UL-CCTrCHInformationListIEs-RL-SetupRspTDD RNSAP-PROTOCOL-IES ::= {
    { ID id-UL-CCTrCH-InformationListIE-RL-SetupRspTDD CRITICALITY ignore TYPE UL-CCTrCHInformationListIE-RL-SetupRspTDD
                                                                                                                                        PRESENCE
mandatory }
J
UL-CCTrCHInformationListIE-RL-SetupRspTDD ::= SEQUENCE (SIZE (1..maxNrOfCCTrCHs)) OF UL-CCTrCHInformationItem-RL-SetupRspTDD
UL-CCTrCHInformationItem-RL-SetupRspTDD ::= SEQUENCE {
                                CCTrCH-ID,
    cCTrCH-ID
    ul-DPCH-Information
                                    UL-DPCH-InformationList-RL-SetupRspTDD
                                                                                OPTIONAL,
    iE-Extensions
                                    ProtocolExtensionContainer { {UL-CCTrCHInformationItem-RL-SetupRspTDD-ExtIEs} } OPTIONAL,
    . . .
UL-CCTrCHInformationItem-RL-SetupRspTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    {ID id-UL-SIR-Target-CCTrCH-InformationItem-RL-SetupRspTDD
                                                                    CRITICALITY ignore
                                                                                             EXTENSION UL-SIR
                                                                                                                         PRESENCE optional }
    . . .
}
UL-DPCH-InformationList-RL-SetupRspTDD ::= ProtocolIE-Single-Container { {UL-DPCH-InformationListIEs-RL-SetupRspTDD }
UL-DPCH-InformationListIEs-RL-SetupRspTDD RNSAP-PROTOCOL-IES ::= {
     ID id-UL-DPCH-InformationItem-RL-SetupRspTDD
                                                        CRITICALITY ignore TYPE UL-DPCH-InformationItem-RL-SetupRspTDD PRESENCE mandatory
UL-DPCH-InformationItem-RL-SetupRspTDD ::= SEQUENCE
    repetitionPeriod
                                    RepetitionPeriod,
    repetitionLength
                                    RepetitionLength,
    tDD-DPCHOffset
                                    TDD-DPCHOffset,
    uL-Timeslot-Information
                                    UL-Timeslot-Information,
    iE-Extensions
                                    ProtocolExtensionContainer { {UL-DPCH-InformationItem-RL-SetupRspTDD-ExtIEs} } OPTIONAL,
```

```
. . .
UL-DPCH-InformationItem-RL-SetupRspTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
}
DL-CCTrCHInformationList-RL-SetupRspTDD ::= Protocolle-Single-Container {{DL-CCTrCHInformationListIEs-RL-SetupRspTDD}}
DL-CCTrCHInformationListIEs-RL-SetupRspTDD RNSAP-PROTOCOL-IES ::= {
    { ID id-DL-CCTrCH-InformationListIE-RL-SetupRspTDD CRITICALITY ignore TYPE DL-CCTrCHInformationListIE-RL-SetupRspTDD PRESENCE mandatory }
DL-CCTrCHInformationListIE-RL-SetupRspTDD ::= SEQUENCE (SIZE (1..maxNrOfCCTrCHs)) OF DL-CCTrCHInformationItem-RL-SetupRspTDD
DL-CCTrCHInformationItem-RL-SetupRspTDD ::= SEQUENCE {
    cCTrCH-ID
                                   CCTrCH-ID,
    dl-DPCH-Information
                                   DL-DPCH-InformationList-RL-SetupRspTDD
                                                                               OPTIONAL,
                                   ProtocolExtensionContainer { {DL-CCTrCHInformationItem-RL-SetupRspTDD-ExtIEs } } OPTIONAL,
   iE-Extensions
    . . .
DL-CCTrCHInformationItem-RL-SetupRspTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
     ID id-CCTrCH-Maximum-DL-Power-RL-SetupRspTDD CRITICALITY ignore EXTENSION DL-Power PRESENCE optional } -- this is a DCH type CCTrCH power
     ID id-CCTrCH-Minimum-DL-Power-RL-SetupRspTDD CRITICALITY ignore EXTENSION DL-Power PRESENCE optional }, -- this is a DCH type CCTrCH power
    . . .
3
DL-DPCH-InformationList-RL-SetupRspTDD ::= ProtocolIE-Single-Container { {DL-DPCH-InformationListIEs-RL-SetupRspTDD } }
DL-DPCH-InformationListIEs-RL-SetupRspTDD RNSAP-PROTOCOL-IES ::= {
    { ID id-DL-DPCH-InformationItem-RL-SetupRspTDD
                                                       CRITICALITY ignore TYPE DL-DPCH-InformationItem-RL-SetupRspTDD PRESENCE mandatory
DL-DPCH-InformationItem-RL-SetupRspTDD ::= SEQUENCE
    repetitionPeriod
                                  RepetitionPeriod,
    repetitionLength
                                   RepetitionLength,
                                   TDD-DPCHOffset,
    tDD-DPCHOffset
   dL-Timeslot-Information
                                   DL-Timeslot-Information,
   iE-Extensions
                                   ProtocolExtensionContainer { {DL-DPCH-InformationItem-RL-SetupRspTDD-ExtIEs } } OPTIONAL,
    . . .
DL-DPCH-InformationItem-RL-SetupRspTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
DCH-InformationResponseList-RL-SetupRspTDD ::= ProtocollE-Single-Container {{DCH-InformationResponseListIEs-RL-SetupRspTDD}}
DCH-InformationResponseListIEs-RL-SetupRspTDD RNSAP-PROTOCOL-IES ::= {
    { ID id-DCH-InformationResponse CRITICALITY ignore TYPE DCH-InformationResponse PRESENCE mandatory }
DSCH-InformationResponse-RL-SetupRspTDD ::= ProtocolIE-Single-Container {{DSCH-InformationList-RL-SetupRspTDD}}
```

```
DSCH-InformationList-RL-SetupRspTDD RNSAP-PROTOCOL-IES ::= {
    { ID id-DSCH-InformationListIEs-RL-SetupRspTDD
                                                       CRITICALITY ignore TYPE DSCH-InformationListIEs-RL-SetupRspTDD PRESENCE mandatory }
DSCH-InformationListIEs-RL-SetupRspTDD ::= SEQUENCE (SIZE(0..maxNoOfDSCHs)) OF DSCHInformationItem-RL-SetupRspTDD
DSCHInformationItem-RL-SetupRspTDD ::= SEOUENCE {
    dsch-TD
                           DSCH-ID,
    dSCH-FlowControlInformation
                                   DSCH-FlowControlInformation,
    bindingID
                           BindingID OPTIONAL,
    transportLayerAddress TransportLayerAddress OPTIONAL,
    transportFormatManagement TransportFormatManagement,
    iE-Extensions
                            ProtocolExtensionContainer { {DSCHInformationItem-RL-SetupRspTDD-ExtIEs} } OPTIONAL,
    . . .
DSCHInformationItem-RL-SetupRspTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
}
USCH-InformationResponse-RL-SetupRspTDD ::= ProtocolIE-Single-Container {{USCH-InformationList-RL-SetupRspTDD}}
USCH-InformationList-RL-SetupRspTDD RNSAP-PROTOCOL-IES ::= {
    { ID id-USCH-InformationListIEs-RL-SetupRspTDD
                                                       CRITICALITY ignore TYPE USCH-InformationListIEs-RL-SetupRspTDD PRESENCE mandatory }
}
USCH-InformationListIEs-RL-SetupRspTDD ::= SEQUENCE (SIZE(0..maxNoOfUSCHs)) OF USCHInformationItem-RL-SetupRspTDD
USCHInformationItem-RL-SetupRspTDD ::= SEQUENCE {
    usch-ID
                               USCH-ID,
    bindingID
                                BindingID OPTIONAL,
    transportLayerAddress
                               TransportLayerAddress
                                                       OPTIONAL,
    transportFormatManagement TransportFormatManagement,
                                ProtocolExtensionContainer { {USCHInformationItem-RL-SetupRspTDD-ExtIEs} } OPTIONAL.
    iE-Extensions
    . . .
USCHInformationItem-RL-SetupRspTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
}
RadioLinkSetupResponseTDD-Extensions RNSAP-PROTOCOL-EXTENSION ::= {
    ID id-RL-LCR-InformationResponse-RL-SetupRspTDD CRITICALITY iqnore EXTENSION RL-LCR-InformationResponse-RL-SetupRspTDD
    PRESENCE optional }
    --Mandatory for 1.28Mcps TDD only
    { ID id-HSDSCH-RNTI
                                                        CRITICALITY ignore EXTENSION HSDSCH-RNTI
                    PRESENCE optional }
    { ID id-HSDSCH-TDD-Information-Response
                                                        CRITICALITY ignore EXTENSION HSDSCH-TDD-Information-Response
    PRESENCE optional }|
    { ID id-DSCH-RNTI
                                                        CRITICALITY ignore EXTENSION DSCH-RNTI
                   PRESENCE optional }|
    { ID id-Active-MBMS-Bearer-ServiceTDD-PFL
                                                        CRITICALITY ignore EXTENSION Active-MBMS-Bearer-Service-ListTDD-PFL
    PRESENCE optional }|
```

. . .

```
{ ID id-RL-InformationResponse-RL-SetupRspTDD768
                                                         CRITICALITY ignore EXTENSION RL-InformationResponse-RL-SetupRspTDD768
                                                                                                                                         PRESENCE
optional }
    { ID id-E-DCH-Information-Response
                                                         CRITICALITY ignore EXTENSION E-DCH-Information-Response
    PRESENCE optional }|
    { ID id-E-DCH-768-Information-Response
                                                         CRITICALITY ignore EXTENSION E-DCH-768-Information-Response
    PRESENCE optional }|
    { ID id-E-DCH-LCR-Information-Response
                                                         CRITICALITY ignore EXTENSION E-DCH-LCR-Information-Response
    PRESENCE optional
                       }|
    { ID id-ContinuousPacketConnectivity-DRX-Information-ResponseLCR
                                                                         CRITICALITY ignore EXTENSION ContinuousPacketConnectivity-DRX-Information-
                    PRESENCE optional
ResponseLCR
                                       }|
    { ID id-HS-DSCH-Semi-PersistentScheduling-Information-ResponseLCR
                                                                         CRITICALITY ignore EXTENSION HS-DSCH-Semi-PersistentScheduling-
                                PRESENCE optional
Information-ResponseLCR
                                                    }|
    { ID id-E-DCH-Semi-PersistentScheduling-Information-ResponseLCR
                                                                         CRITICALITY ignore EXTENSION E-DCH-Semi-PersistentScheduling-Information-
ResponseLCR
                    PRESENCE optional } |
    { ID id-E-RNTI-For-FACH
                                                         CRITICALITY ignore EXTENSION E-RNTI
                    PRESENCE optional }|
    { ID id-H-RNTI-For-FACH
                                                         CRITICALITY ignore EXTENSION HSDSCH-RNTI
                    PRESENCE optional }|
    { ID id-DCH-MeasurementOccasion-Information
                                                         CRITICALITY reject EXTENSION DCH-MeasurementOccasion-Information
    PRESENCE optional },
    . . .
RL-LCR-InformationResponse-RL-SetupRspTDD ::= SEQUENCE {
    rL-TD
                                RL-ID,
    uRA-Information
                                URA-Information,
    sAI
                                SAI,
    qA-Cell
                                GA-Cell
                                            OPTIONAL,
    qA-AccessPointPosition
                                GA-AccessPointPosition OPTIONAL,
                                UL-TimeSlot-ISCP-LCR-Info,
    ul-TimeSlot-ISCP-LCR-Info
    maxUL-SIR
                                UL-SIR,
    minUL-STR
                                UL-SIR,
    maximumAllowedULTxPower
                                MaximumAllowedULTxPower,
    maximumDLTxPower
                                DL-Power,
    minimumDLTxPower
                                DL-Power,
    uARFCNforNt
                                UARFCN
                                                         OPTIONAL,
    cellParameterID
                                CellParameterID
                                                         OPTIONAL,
    sCTD-Indicator
                        SCTD-Indicator OPTIONAL,
    pCCPCH-Power
                                PCCPCH-Power,
    alphaValue
                                AlphaValue,
                                UL-PhysCH-SF-Variation,
    ul-PhysCH-SF-Variation
    synchronisationConfiguration
                                            SynchronisationConfiguration,
    secondary-LCR-CCPCH-Info-TDD
                                            Secondary-LCR-CCPCH-Info-TDD
                                                                                             OPTIONAL,
    ul-LCR-CCTrCHInformation
                                            UL-LCR-CCTrCHInformationList-RL-SetupRspTDD
                                                                                             OPTIONAL,
    dl-LCR-CCTrCHInformation
                                            DL-LCR-CCTrCHInformationList-RL-SetupRspTDD
                                                                                             OPTIONAL,
                                            DCH-InformationResponseList-RL-SetupRspTDD
    dCH-InformationResponse
                                                                                             OPTIONAL,
    dsch-LCR-InformationResponse
                                            DSCH-LCR-InformationResponse-RL-SetupRspTDD
                                                                                             OPTIONAL,
    usch-LCR-InformationResponse
                                            USCH-LCR-InformationResponse-RL-SetupRspTDD
                                                                                             OPTIONAL,
    neighbouring-UMTS-CellInformation
                                            Neighbouring-UMTS-CellInformation
                                                                                             OPTIONAL,
    neighbouring-GSM-CellInformation
                                            Neighbouring-GSM-CellInformation
                                                                                             OPTIONAL,
    iE-Extensions
                                            ProtocolExtensionContainer { { RL-LCR-InformationResponseList-RL-SetupRspTDD-ExtIEs } }
    OPTIONAL,
```

**ETSI** 

RL-LCR-InformationResponseList-RL-SetupRspTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= { { ID id-GA-CellAdditionalShapes CRITICALITY ignore EXTENSION GA-CellAdditionalShapes PRESENCE optional } { ID id-HCS-Prio CRITICALITY ignore EXTENSION HCS-Prio PRESENCE optional }| { ID id-UL-TimingAdvanceCtrl-LCR CRITICALITY ignore EXTENSION UL-TimingAdvanceCtrl-LCR PRESENCE optional }| --Mandatory for 1.28Mcps TDD only { ID id-PowerControlGAP PRESENCE optional }| CRITICALITY ignore EXTENSION ControlGAP -- Applicable to 1.28Mcps TDD only { ID id-SixtyfourQAM-DL-SupportIndicator CRITICALITY iqnore EXTENSION SixtyfourQAM-DL-SupportIndicator PRESENCE optional } -- Applicable to 1.28Mcps TDD only ID id-Neighbouring-E-UTRA-CellInformation CRITICALITY ignore EXTENSION Neighbouring-E-UTRA-CellInformation PRESENCE optional }| IdleIntervalInformation { ID id-IdleIntervalInformation CRITICALITY ignore EXTENSION PRESENCE optional }, . . . UL-LCR-CCTrCHInformationList-RL-SetupRspTDD ::= ProtocolIE-Single-Container {{UL-LCR-CCTrCHInformationListIEs-RL-SetupRspTDD}} UL-LCR-CCTrCHInformationListIEs-RL-SetupRspTDD RNSAP-PROTOCOL-IES ::= { ID id-UL-CCTrCH-LCR-InformationListIE-RL-SetupRspTDD CRITICALITY ignore TYPE UL-LCR-CCTrCHInformationListIE-RL-SetupRspTDD PRESENCE mandatory } } UL-LCR-CCTrCHInformationListIE-RL-SetupRspTDD ::= SEQUENCE (SIZE (1..maxNrOfCCTrCHsLCR)) OF UL-LCR-CCTrCHInformationItem-RL-SetupRspTDD UL-LCR-CCTrCHInformationItem-RL-SetupRspTDD ::= SEQUENCE { cCTrCH-ID CCTrCH-ID, ul-DPCH-LCR-Information UL-DPCH-LCR-InformationList-RL-SetupRspTDD OPTIONAL, ProtocolExtensionContainer { { UL-LCR-CCTrCHInformationItem-RL-SetupRspTDD-ExtIEs } } OPTIONAL, iE-Extensions . . . UL-LCR-CCTrCHInformationItem-RL-SetupRspTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= { {ID id-UL-SIR-Target-CCTrCH-LCR-InformationItem-RL-SetupRspTDD CRITICALITY ignore EXTENSION UL-SIR PRESENCE optional }. . . . 3 UL-DPCH-LCR-InformationList-RL-SetupRspTDD ::= ProtocolIE-Single-Container { {UL-DPCH-LCR-InformationListIEs-RL-SetupRspTDD} } UL-DPCH-LCR-InformationListIEs-RL-SetupRspTDD RNSAP-PROTOCOL-IES ::= { ID id-UL-DPCH-LCR-InformationItem-RL-SetupRspTDD CRITICALITY ignore TYPE UL-DPCH-LCR-InformationItem-RL-SetupRspTDD PRESENCE mandatory } UL-DPCH-LCR-InformationItem-RL-SetupRspTDD ::= SEOUENCE repetitionPeriod RepetitionPeriod, repetitionLength RepetitionLength, TDD-DPCHOffset, tDD-DPCHOffset uL-TimeslotLCR-Information UL-TimeslotLCR-Information, iE-Extensions ProtocolExtensionContainer { {UL-DPCH-LCR-InformationItem-RL-SetupRspTDD-ExtIEs} } OPTIONAL, . . .

```
UL-DPCH-LCR-InformationItem-RL-SetupRspTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
DL-LCR-CCTrCHInformationList-RL-SetupRspTDD ::= ProtocollE-Single-Container {{DL-LCR-CCTrCHInformationListIEs-RL-SetupRspTDD}}
DL-LCR-CCTrCHInformationListIEs-RL-SetupRspTDD RNSAP-PROTOCOL-IES ::= {
    { ID id-DL-CCTrCH-LCR-InformationListIE-RL-SetupRspTDD CRITICALITY ignore TYPE DL-CCTrCH-LCR-InformationListIE-RL-SetupRspTDD PRESENCE
mandatory }
DL-CCTrCH-LCR-InformationListIE-RL-SetupRspTDD ::= SEQUENCE (SIZE (1..maxNrOfCCTrCHsLCR)) OF DL-CCTrCH-LCR-InformationItem-RL-SetupRspTDD
DL-CCTrCH-LCR-InformationItem-RL-SetupRspTDD ::= SEQUENCE
    cCTrCH-ID
                               CCTrCH-ID,
    dl-DPCH-LCR-Information
                               DL-DPCH-LCR-InformationList-RL-SetupRspTDD
                                                                                OPTIONAL.
                               ProtocolExtensionContainer { {DL-CCTrCH-LCR-InformationItem-RL-SetupRspTDD-ExtIEs} } OPTIONAL,
   iE-Extensions
    . . .
DL-CCTrCH-LCR-InformationItem-RL-SetupRspTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
DL-DPCH-LCR-InformationList-RL-SetupRspTDD ::= ProtocolIE-Single-Container { {DL-DPCH-LCR-InformationListIEs-RL-SetupRspTDD } }
DL-DPCH-LCR-InformationListIEs-RL-SetupRspTDD RNSAP-PROTOCOL-IES ::= {
     ID id-DL-DPCH-LCR-InformationItem-RL-SetupRspTDD
                                                            CRITICALITY ignore TYPE DL-DPCH-LCR-InformationItem-RL-SetupRspTDD PRESENCE mandatory
}
DL-DPCH-LCR-InformationItem-RL-SetupRspTDD ::= SEQUENCE {
    repetitionPeriod
                                   RepetitionPeriod,
    repetitionLength
                                   RepetitionLength,
    tDD-DPCHOffset
                                  TDD-DPCHOffset,
    dL-Timeslot-LCR-Information DL-TimeslotLCR-Information,
    tSTD-Indicator
                                   TSTD-Indicator,
                                   ProtocolExtensionContainer { {DL-DPCH-LCR-InformationItem-RL-SetupRspTDD-ExtIEs } } OPTIONAL,
   iE-Extensions
    . . .
DL-DPCH-LCR-InformationItem-RL-SetupRspTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::=
    . . .
DSCH-LCR-InformationResponse-RL-SetupRspTDD ::= ProtocolIE-Single-Container {{DSCH-LCR-InformationList-RL-SetupRspTDD}}
DSCH-LCR-InformationList-RL-SetupRspTDD RNSAP-PROTOCOL-IES ::= {
    { ID id-DSCH-LCR-InformationListIEs-RL-SetupRspTDD
                                                           CRITICALITY ignore TYPE DSCH-LCR-InformationListIEs-RL-SetupRspTDD PRESENCE mandatory
DSCH-LCR-InformationListIEs-RL-SetupRspTDD ::= SEQUENCE (SIZE(0..maxNoOfDSCHsLCR)) OF DSCH-LCR-InformationItem-RL-SetupRspTDD
```

```
DSCH-LCR-InformationItem-RL-SetupRspTDD ::= SEQUENCE {
    dsch-ID
                                        DSCH-ID.
    dSCH-FlowControlInformation
                                        DSCH-FlowControlInformation,
    bindingID
                                        BindingID OPTIONAL,
    transportLayerAddress
                                        TransportLayerAddress
                                                                 OPTIONAL.
    transportFormatManagement
                                        TransportFormatManagement,
                                        ProtocolExtensionContainer { {DSCH-LCR-InformationItem-RL-SetupRspTDD-ExtIEs} } OPTIONAL,
    iE-Extensions
    . . .
DSCH-LCR-InformationItem-RL-SetupRspTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
3
USCH-LCR-InformationResponse-RL-SetupRspTDD ::= ProtocolIE-Single-Container {{USCH-LCR-InformationList-RL-SetupRspTDD}}
USCH-LCR-InformationList-RL-SetupRspTDD RNSAP-PROTOCOL-IES ::= {
    { ID id-USCH-LCR-InformationListIEs-RL-SetupRspTDD
                                                             CRITICALITY ignore TYPE USCH-LCR-InformationListIEs-RL-SetupRspTDD PRESENCE mandatory
USCH-LCR-InformationListIEs-RL-SetupRspTDD ::= SEQUENCE (SIZE(0..maxNoOfUSCHsLCR)) OF USCH-LCR-InformationItem-RL-SetupRspTDD
USCH-LCR-InformationItem-RL-SetupRspTDD ::= SEOUENCE {
    usch-ID
                                USCH-ID,
    bindingID
                                BindingID OPTIONAL,
    transportLayerAddress
                                TransportLayerAddress
                                                        OPTIONAL,
    transportFormatManagement
                                TransportFormatManagement,
                                ProtocolExtensionContainer { {USCH-LCR-InformationItem-RL-SetupRspTDD-ExtIEs } } OPTIONAL,
    iE-Extensions
    . . .
USCH-LCR-InformationItem-RL-SetupRspTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
RL-InformationResponse-RL-SetupRspTDD768 ::= SEQUENCE {
    rL-ID
                                RL-ID,
    uRA-Information
                                URA-Information
                                                     OPTIONAL,
    sAI
                                SAI,
    qA-Cell
                                GA-Cell
                                            OPTIONAL,
    gA-AccessPointPosition
                                GA-AccessPointPosition OPTIONAL,
    ul-TimeSlot-ISCP-Info
                                UL-TimeSlot-ISCP-Info,
    maxUL-SIR
                                UL-SIR,
    minUL-SIR
                                UL-SIR,
    maximumAllowedULTxPower
                                MaximumAllowedULTxPower,
    maximumDLTxPower
                                DL-Power,
    minimumDLTxPower
                                DL-Power,
    uARFCNforNt
                                UARFCN
                                                     OPTIONAL,
    cellParameterID
                                CellParameterID
                                                     OPTIONAL,
    syncCase
                                SyncCase
                                                     OPTIONAL,
    sCH-TimeSlot
                                SCH-TimeSlot
                                                    OPTIONAL,
    -- This IE shall be present if Sync Case IE is equal to "Case2". --
                                SCTD-Indicator OPTIONAL,
    sCTD-Indicator
```

```
pCCPCH-Power
                                PCCPCH-Power,
    timingAdvanceApplied
                                TimingAdvanceApplied,
    alphaValue
                                AlphaValue.
    ul-PhysCH-SF-Variation
                                UL-PhysCH-SF-Variation,
    synchronisationConfiguration
                                        SynchronisationConfiguration,
    secondary-CCPCH-Info-TDD768
                                        Secondary-CCPCH-Info-TDD768
                                                                         OPTIONAL,
    ul-CCTrCHInformation768
                                        UL-CCTrCHInformationList-RL-SetupRspTDD768
                                                                                         OPTIONAL,
    dl-CCTrCHInformation768
                                        DL-CCTrCHInformationList-RL-SetupRspTDD768
                                                                                         OPTIONAL,
    dCH-InformationResponse
                                        DCH-InformationResponseList-RL-SetupRspTDD OPTIONAL,
    dsch-InformationResponse
                                        DSCH-InformationResponse-RL-SetupRspTDD OPTIONAL,
    usch-InformationResponse
                                        USCH-InformationResponse-RL-SetupRspTDD OPTIONAL,
                                                Neighbouring-UMTS-CellInformation OPTIONAL,
    neighbouring-UMTS-CellInformation
    neighbouring-GSM-CellInformation
                                                Neighbouring-GSM-CellInformation OPTIONAL,
    qA-CellAdditionalShapes
                                                GA-CellAdditionalShapes
                                                                             OPTIONAL.
    hCS-Prio
                                                        OPTIONAL.
                                        HCS-Prio
    timeSlot-RL-SetupRspTDD
                                        TimeSlot
                                                    OPTIONAL,
    -- This IE shall be present if Sync Case IE is Case1. --
                                    ProtocolExtensionContainer { {RL-InformationResponse-RL-SetupRspTDD768-ExtIEs } } OPTIONAL,
    iE-Extensions
    . . .
RL-InformationResponse-RL-SetupRspTDD768-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    { ID id-Neighbouring-E-UTRA-CellInformation
                                                        CRITICALITY ignore EXTENSION Neighbouring-E-UTRA-CellInformation
    PRESENCE optional },
    . . .
}
UL-CCTrCHInformationList-RL-SetupRspTDD768 ::= ProtocolIE-Single-Container {{UL-CCTrCHInformationListIEs-RL-SetupRspTDD768}}
UL-CCTrCHInformationListIEs-RL-SetupRspTDD768 RNSAP-PROTOCOL-IES ::= {
    { ID id-UL-CCTrCH-InformationListIE-RL-SetupRspTDD768 CRITICALITY ignore TYPE UL-CCTrCHInformationListIE-RL-SetupRspTDD768
    PRESENCE mandatory }
}
UL-CCTrCHInformationListIE-RL-SetupRspTDD768 ::= SEQUENCE (SIZE (1..maxNrOfCCTrCHs)) OF UL-CCTrCHInformationItem-RL-SetupRspTDD768
UL-CCTrCHInformationItem-RL-SetupRspTDD768 ::= SEQUENCE {
    cCTrCH-ID
                                CCTrCH-ID,
    ul-DPCH-Information768
                                        UL-DPCH-InformationList-RL-SetupRspTDD768
                                                                                         OPTIONAL,
    uL-SIR-Target-CCTrCH-InformationItem-RL-SetupRspTDD768
                                                                UL-SIR
                                                                             OPTIONAL,
                                    ProtocolExtensionContainer { { UL-CCTrCHInformationItem-RL-SetupRspTDD768-ExtIEs } } OPTIONAL,
    iE-Extensions
    . . .
UL-CCTrCHInformationItem-RL-SetupRspTDD768-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
ļ
UL-DPCH-InformationList-RL-SetupRspTDD768 ::= ProtocolIE-Single-Container { { UL-DPCH-InformationListIEs-RL-SetupRspTDD768 } }
UL-DPCH-InformationListIEs-RL-SetupRspTDD768 RNSAP-PROTOCOL-IES ::= {
      ID id-UL-DPCH-InformationItem-RL-SetupRspTDD768
                                                            CRITICALITY ignore TYPE UL-DPCH-InformationItem-RL-SetupRspTDD768 PRESENCE mandatory
```

```
UL-DPCH-InformationItem-RL-SetupRspTDD768 ::= SEQUENCE {
    repetitionPeriod
                                    RepetitionPeriod,
    repetitionLength
                                    RepetitionLength,
    tDD-DPCHOffset
                                    TDD-DPCHOffset,
    uL-Timeslot-Information768
                                        UL-Timeslot-Information768,
    iE-Extensions
                                    ProtocolExtensionContainer { { UL-DPCH-InformationItem-RL-SetupRspTDD768-ExtIEs } } OPTIONAL,
    . . .
UL-DPCH-InformationItem-RL-SetupRspTDD768-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
DL-CCTrCHInformationList-RL-SetupRspTDD768 ::= ProtocolIE-Single-Container {{DL-CCTrCHInformationListIEs-RL-SetupRspTDD768}}
DL-CCTrCHInformationListIEs-RL-SetupRspTDD768 RNSAP-PROTOCOL-IES ::= {
    { ID id-DL-CCTrCH-InformationListIE-RL-SetupRspTDD768 CRITICALITY ignore TYPE DL-CCTrCHInformationListIE-RL-SetupRspTDD768
                                                                                                                                   PRESENCE
mandatory }
DL-CCTrCHInformationListIE-RL-SetupRspTDD768 ::= SEQUENCE (SIZE (1..maxNrOfCCTrCHs)) OF DL-CCTrCHInformationItem-RL-SetupRspTDD768
DL-CCTrCHInformationItem-RL-SetupRspTDD768 ::= SEQUENCE {
    cCTrCH-ID
                                CCTrCH-ID.
    dl-DPCH-Information768
                                        DL-DPCH-InformationList-RL-SetupRspTDD768
                                                                                         OPTIONAL,
    cCTrCH-Maximum-DL-Power
                                        DL-Power
                                                        OPTIONAL, -- this is a DCH type CCTrCH power
                                                        OPTIONAL, -- this is a DCH type CCTrCH power
    cCTrCH-Minimum-DL-Power
                                        DL-Power
                                    ProtocolExtensionContainer { {DL-CCTrCHInformationItem-RL-SetupRspTDD768-ExtIEs } } OPTIONAL,
    iE-Extensions
    . . .
DL-CCTrCHInformationItem-RL-SetupRspTDD768-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
DL-DPCH-InformationList-RL-SetupRspTDD768 ::= ProtocolIE-Single-Container { {DL-DPCH-InformationListIEs-RL-SetupRspTDD768 } }
DL-DPCH-InformationListIEs-RL-SetupRspTDD768 RNSAP-PROTOCOL-IES ::= {
      ID id-DL-DPCH-InformationItem-RL-SetupRspTDD768
                                                            CRITICALITY ignore TYPE DL-DPCH-InformationItem-RL-SetupRspTDD768 PRESENCE mandatory
}
DL-DPCH-InformationItem-RL-SetupRspTDD768 ::= SEOUENCE {
    repetitionPeriod
                                    RepetitionPeriod,
    repetitionLength
                                    RepetitionLength,
    tDD-DPCHOffset
                                    TDD-DPCHOffset,
    dL-Timeslot-Information768
                                    DL-Timeslot-Information768,
                                    ProtocolExtensionContainer { {DL-DPCH-InformationItem-RL-SetupRspTDD768-ExtIEs } } OPTIONAL,
    iE-Extensions
    . . .
```

```
DL-DPCH-InformationItem-RL-SetupRspTDD768-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
```

. . . -- RADIO LINK SETUP FAILURE FDD - -\*\*\*\*\*\*\* RadioLinkSetupFailureFDD ::= SEQUENCE { ProtocolIE-Container {{RadioLinkSetupFailureFDD-IEs}}, protocolIEs ProtocolExtensionContainer {{RadioLinkSetupFailureFDD-Extensions}} protocolExtensions OPTIONAL. . . . RadioLinkSetupFailureFDD-IEs RNSAP-PROTOCOL-IES ::= { ID id-D-RNTI CRITICALITY ignore TYPE D-RNTI PRESENCE optional ID id-CN-PS-DomainIdentifier CRITICALITY ignore TYPE CN-PS-DomainIdentifier PRESENCE optional ID id-CN-CS-DomainIdentifier CRITICALITY ignore TYPE CN-CS-DomainIdentifier PRESENCE optional ID id-CauseLevel-RL-SetupFailureFDD PRESENCE mandatory } | CRITICALITY ignore TYPE CauseLevel-RL-SetupFailureFDD ID id-UL-SIRTarget CRITICALITY ignore TYPE UL-SIR PRESENCE optional ID id-CriticalityDiagnostics CRITICALITY ignore TYPE CriticalityDiagnostics PRESENCE optional . . . CauseLevel-RL-SetupFailureFDD ::= CHOICE { GeneralCauseList-RL-SetupFailureFDD, generalCause rLSpecificCause RLSpecificCauseList-RL-SetupFailureFDD, . . . } GeneralCauseList-RL-SetupFailureFDD ::= SEQUENCE cause Cause, ProtocolExtensionContainer { { GeneralCauseItem-RL-SetupFailureFDD-ExtIEs } } iE-Extensions OPTIONAL, GeneralCauseItem-RL-SetupFailureFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= { . . . } RLSpecificCauseList-RL-SetupFailureFDD ::= SEQUENCE { unsuccessful-RL-InformationRespList-RL-SetupFailureFDD UnsuccessfulRL-InformationResponseList-RL-SetupFailureFDD, successful-RL-InformationRespList-RL-SetupFailureFDD SuccessfulRL-InformationResponseList-RL-SetupFailureFDD OPTIONAL, iE-Extensions ProtocolExtensionContainer { { RLSpecificCauseItem-RL-SetupFailureFDD-ExtIEs } } OPTIONAL, . . . RLSpecificCauseItem-RL-SetupFailureFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= { ID id-HSDSCH-RNTI CRITICALITY ignore EXTENSION HSDSCH-RNTI PRESENCE optional } ID id-HSDSCH-FDD-Information-Response CRITICALITY ignore EXTENSION HSDSCH-FDD-Information-Response PRESENCE optional } ID id-Continuous-Packet-Connectivity-HS-SCCH-Less-Information-Response CRITICALITY ignore EXTENSION Continuous-Packet-Connectivity-HS-SCCH-Less-Information-Response PRESENCE optional }|

```
ID id-SixtyfourQAM-DL-SupportIndicator
                                                CRITICALITY ignore
                                                                         EXTENSION SixtyfourQAM-DL-SupportIndicator
                                                                                                                                 PRESENCE optional }
      ID id-Additional-HS-Cell-Information-Response CRITICALITY ignore
                                                                             EXTENSION Additional-HS-Cell-Information-Response-List
    PRESENCE optional }|
    { ID id-Additional-EDCH-Cell-Information-Response
                                                            CRITICALITY ignore EXTENSION Additional-EDCH-Cell-Information-Response-List
        PRESENCE optional },
    . . .
UnsuccessfulRL-InformationResponseList-RL-SetupFailureFDD ::= SEQUENCE (SIZE (1..maxNrOfRLs)) OF ProtocolIE-Single-Container { { UnsuccessfulRL-
InformationResponse-RL-SetupFailureFDD-IEs } }
UnsuccessfulRL-InformationResponse-RL-SetupFailureFDD-IEs RNSAP-PROTOCOL-IES ::= {
    { ID id-UnsuccessfulRL-InformationResponse-RL-SetupFailureFDD
                                                                         CRITICALITY ignore TYPE UnsuccessfulRL-InformationResponse-RL-
SetupFailureFDD
                    PRESENCE mandatory }
}
UnsuccessfulRL-InformationResponse-RL-SetupFailureFDD ::= SEQUENCE {
                                RL-ID,
    rL-ID
    cause
                                Cause,
                                    ProtocolExtensionContainer { { UnsuccessfulRL-InformationResponse-RL-SetupFailureFDD-ExtIEs } } OPTIONAL,
    iE-Extensions
    . . .
UnsuccessfulRL-InformationResponse-RL-SetupFailureFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    { ID id-Max-UE-DTX-Cvcle
                                   CRITICALITY ignore
                                                            EXTENSION Max-UE-DTX-Cvcle
                                                                                                   PRESENCE conditional }.
    -- This IE shall be present if the Cause IE is set to "Continuous Packet Connectivity UE DTX Cycle not Available".
    . . .
SuccessfulRL-InformationResponseList-RL-SetupFailureFDD ::= SEQUENCE (SIZE (0..maxNrOfRLs-1)) OF ProtocollE-Single-Container { {SuccessfulRL-
InformationResponse-RL-SetupFailureFDD-IEs}
SuccessfulRL-InformationResponse-RL-SetupFailureFDD-IEs RNSAP-PROTOCOL-IES ::= {
    { ID id-SuccessfulRL-InformationResponse-RL-SetupFailureFDD
                                                                    CRITICALITY iqnore TYPE SuccessfulRL-InformationResponse-RL-SetupFailureFDD
        PRESENCE mandatory }
SuccessfulRL-InformationResponse-RL-SetupFailureFDD ::= SEQUENCE
    rL-ID
                                            RL-ID,
    rL-Set-ID
                                            RL-Set-ID,
    uRA-Information
                                            URA-Information
                                                                                 OPTIONAL,
    sAI
                                            SAI.
    qA-Cell
                                                        OPTIONAL.
                                            GA-Cell
    qA-AccessPointPosition
                                            GA-AccessPointPosition
                                                                                 OPTIONAL,
    received-total-wide-band-power
                                            Received-total-wide-band-power,
    not-Used-secondary-CCPCH-Info
                                                    NULL
                                                                         OPTIONAL,
    dl-CodeInformation
                                            FDD-DL-CodeInformation,
    diversityIndication
                                            DiversityIndication-RL-SetupFailureFDD,
    sSDT-SupportIndicator
                                            SSDT-SupportIndicator,
    maxUL-SIR
                                            UL-SIR,
    minUL-SIR
                                            UL-SIR,
    closedlooptimingadjustmentmode
                                            Closedlooptimingadjustmentmode
                                                                                 OPTIONAL,
    maximumAllowedULTxPower
                                            MaximumAllowedULTxPower,
    maximumDLTxPower
                                            DL-Power,
```

primaryCPICH-PowerPprimaryScramblingCodePuL-UARFCNUdL-UARFCNUnot-Used-dSCH-InformationResponse-RL-Setuneighbouring-UMTS-CellInformationNneighbouring-GSM-CellInformationNpC-PreamblePsRB-DelayS	eighbouring eighbouring C-Preamble, RB-Delay,	blingCode ) NULL g-UMTS-CellInformati g-GSM-CellInformatio	on OPTIO	NAL, NAL, NAL, NAL,	<pre>} OPTIONAL,</pre>	
}						
SuccessfulRL-InformationResponse-RL-SetupFail { ID id-GA-CellAdditionalShapes PRESENCE optional }  { ID id-DL-PowerBalancing-ActivationIndic		CRITICALITY ignore	EXTENSION	:= { GA-CellAdditionalShapes DL-PowerBalancing-ActivationIndicator		
PRESENCE optional }  { ID id-HCS-Prio		CRITICALITY ignore	EVTENCTON	UCS Drie		
PRESENCE optional }		CRITICALITY IGNOLE	EATENSION	hCS-P110		
<pre>{ ID id-Primary-CPICH-Usage-For-Channel-E optional } </pre>	stimation	CRITICALITY ignore	EXTENSION	Primary-CPICH-Usage-For-Channel-Estimation	PRESENCE	
optional }  { ID id-Secondary-CPICH-Information PRESENCE optional }		CRITICALITY ignore	EXTENSION	Secondary-CPICH-Information		
{ ID id-Active-MBMS-Bearer-ServiceFDD-PFL PRESENCE optional }		CRITICALITY ignore	EXTENSION	Active-MBMS-Bearer-Service-ListFDD-PFL		
{ ID id-EDCH-RLSet-Id		CRITICALITY ignore	EXTENSION	RL-Set-ID		
PRESENCE optional }  { ID id-EDCH-FDD-DL-ControlChannelInformation		CRITICALITY ignore	EXTENSION	EDCH-FDD-DL-ControlChannelInformation		
PRESENCE optional }   {     ID id-Initial-DL-DPCH-TimingAdjustment     DEFENCE article }		CRITICALITY ignore	EXTENSION	DL-DPCH-TimingAdjustment		
PRESENCE optional }  { ID id-Neighbouring-E-UTRA-CellInformation PRESENCE optional }		CRITICALITY ignore	EXTENSION	Neighbouring-E-UTRA-CellInformation		
{ ID id-HSDSCH-PreconfigurationInfo		CRITICALITY ignore	EXTENSION	HSDSCH-PreconfigurationInfo		
PRESENCE optional }  { ID id-F-DPCH-SlotFormat		CRITICALITY ignore	EXTENSION	F-DPCH-SlotFormat		
PRESENCE optional }  { ID id-Non-Serving-RL-Preconfig-Info PRESENCE optional },		CRITICALITY ignore	EXTENSION	Non-Serving-RL-Preconfig-Info		
}						
DiversityIndication-RL-SetupFailureFDD ::= CHOICE { combining Combining-RL-SetupFailureFDD, nonCombiningOrFirstRL NonCombiningOrFirstRL-RL-SetupFailureFDD }						
Combining-RL-SetupFailureFDD ::= SEQUENCE { rL-ID RL-ID, iE-Extensions ProtocolExtensionContainer { { CombiningItem-RL-SetupFailureFDD-ExtIEs} } OPTIONAL,						
}	Stoneoneath		III beeup	artalorbb Bachby ; orrional,		

```
CombiningItem-RL-SetupFailureFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
     ID id-DCH-InformationResponse
                                         CRITICALITY ignore EXTENSION DCH-InformationResponse
                                                                                                           PRESENCE optional
     ID id-EDCH-FDD-InformationResponse
                                         CRITICALITY ignore EXTENSION EDCH-FDD-InformationResponse
                                                                                                                  PRESENCE optional
                                                                                                                                        },
    . . .
}
NonCombiningOrFirstRL-RL-SetupFailureFDD ::= SEQUENCE {
    dCH-InformationResponse
                                         DCH-InformationResponse,
                                         ProtocolExtensionContainer { { NonCombiningOrFirstRLItem-RL-SetupFailureFDD-ExtIEs } } OPTIONAL,
   iE-Extensions
    . . .
NonCombiningOrFirstRLItem-RL-SetupFailureFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    { ID id-EDCH-FDD-InformationResponse
                                        CRITICALITY ignore EXTENSION EDCH-FDD-InformationResponse
                                                                                                                  PRESENCE optional
                                                                                                                                        },
    . . .
}
RadioLinkSetupFailureFDD-Extensions RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
      - -
-- RADIO LINK SETUP FAILURE TDD
RadioLinkSetupFailureTDD ::= SEQUENCE {
                                                            {{RadioLinkSetupFailureTDD-IEs}},
   protocolIEs
                                  ProtocolIE-Container
                                  ProtocolExtensionContainer {{RadioLinkSetupFailureTDD-Extensions}}
   protocolExtensions
                                                                                                                   OPTIONAL,
    . . .
RadioLinkSetupFailureTDD-IEs RNSAP-PROTOCOL-IES ::= {
     ID id-CauseLevel-RL-SetupFailureTDD CRITICALITY ignore TYPE CauseLevel-RL-SetupFailureTDD
                                                                                                           PRESENCE mandatory }|
    { ID id-CriticalityDiagnostics
                                         CRITICALITY ignore TYPE CriticalityDiagnostics
                                                                                                           PRESENCE optional
                                                                                                                                 }.
    . . .
CauseLevel-RL-SetupFailureTDD ::= CHOICE {
   generalCause
                      GeneralCauseList-RL-SetupFailureTDD,
    rLSpecificCause
                      RLSpecificCauseList-RL-SetupFailureTDD,
    . . .
GeneralCauseList-RL-SetupFailureTDD ::= SEQUENCE {
   cause
                              Cause,
   iE-Extensions
                              ProtocolExtensionContainer { { GeneralCauseItem-RL-SetupFailureTDD-ExtIEs } }
                                                                                                                  OPTIONAL.
    . . .
}
GeneralCauseItem-RL-SetupFailureTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
```

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}
RLSpecificCauseList-RL-SetupFailureTDD ::= SEQUENCE {
   unsuccessful-RL-InformationRespItem-RL-SetupFailureTDD Unsuccessful-RL-InformationRespItem-RL-SetupFailureTDD,
   iE-Extensions
                                                         ProtocolExtensionContainer { { RLSpecificCauseItem-RL-SetupFailureTDD-ExtIEs }
   OPTIONAL,
    . . .
RLSpecificCauseItem-RL-SetupFailureTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    { ID id-SixtyfourQAM-DL-SupportIndicator
                                                                     EXTENSION SixtyfourQAM-DL-SupportIndicator
                                             CRITICALITY ignore
                                                                                                                          PRESENCE optional },
    . . .
ι
Unsuccessful-RL-InformationRespItem-RL-SetupFailureTDD ::= ProtocolIE-Single-Container { {Unsuccessful-RL-InformationRespItemIE-RL-SetupFailureTDD}
}
Unsuccessful-RL-InformationRespItemIE-RL-SetupFailureTDD RNSAP-PROTOCOL-IES ::= {
    { ID
           id-UnsuccessfulRL-InformationResponse-RL-SetupFailureTDD
                                                                        CRITICALITY ignore
                                                                                             TYPE
                                                                                                    UnsuccessfulRL-InformationResponse-RL-
                   PRESENCE
SetupFailureTDD
                              mandatory
}
UnsuccessfulRL-InformationResponse-RL-SetupFailureTDD ::= SEQUENCE {
   rL-ID
                              RL-ID,
   cause
                              Cause,
                              ProtocolExtensionContainer { {UnsuccessfulRL-InformationResponse-RL-SetupFailureTDD-ExtIEs} } OPTIONAL,
   iE-Extensions
    . . .
UnsuccessfulRL-InformationResponse-RL-SetupFailureTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
RadioLinkSetupFailureTDD-Extensions RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
    _ _
-- RADIO LINK ADDITION REQUEST FDD
        RadioLinkAdditionRequestFDD ::= SEQUENCE {
                                  ProtocolIE-Container
                                                            {{RadioLinkAdditionRequestFDD-IEs}},
   protocolIEs
                                  ProtocolExtensionContainer {{RadioLinkAdditionRequestFDD-Extensions}}
   protocolExtensions
                                                                                                                      OPTIONAL,
    . . .
}
RadioLinkAdditionRequestFDD-IEs RNSAP-PROTOCOL-IES ::= {
                                                                                                            } |
     ID id-UL-SIRTarget
                                      CRITICALITY reject TYPE UL-SIR
                                                                                    PRESENCE mandatory
     ID id-RL-InformationList-RL-AdditionRqstFDD CRITICALITY notify TYPE RL-InformationList-RL-AdditionRqstFDD
                                                                                                                   PRESENCE mandatory
                                                                                                                                        }|
     ID id-Active-Pattern-Sequence-Information CRITICALITY reject TYPE Active-Pattern-Sequence-Information
                                                                                                            PRESENCE optional },
```

} RL-InformationList-RL-AdditionRgstFDD ::= SEQUENCE (SIZE (1., maxNrOfRLs-1)) OF ProtocollE-Single-Container { {RL-Information-RL-AdditionRgstFDD-IEs } } RL-Information-RL-AdditionRqstFDD-IEs RNSAP-PROTOCOL-IES ::= { { ID id-RL-Information-RL-AdditionRqstFDD CRITICALITY notify TYPE RL-Information-RL-AdditionRqstFDD PRESENCE mandatory RL-Information-RL-AdditionRqstFDD ::= SEQUENCE { rL-TD RL-ID, C-TD C-ID, frameOffset. FrameOffset. chipOffset. ChipOffset. diversityControlField DiversityControlField, primaryCPICH-EcNo PrimaryCPICH-EcNo OPTIONAL, not-Used-sSDT-CellID NULL OPTIONAL, TransmitDiversityIndicator transmitDiversityIndicator OPTIONAL, ProtocolExtensionContainer { {RL-Information-RL-AdditionRgstFDD-ExtIEs} } OPTIONAL, iE-Extensions . . . RL-Information-RL-AdditionRqstFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= { ID id-DLReferencePower CRITICALITY ignore EXTENSION DL-Power PRESENCE optional } | ID id-Enhanced-PrimarvCPICH-EcNo CRITICALITY ignore EXTENSION Enhanced-PrimaryCPICH-EcNo PRESENCE optional }| { ID id-RL-Specific-DCH-Info CRITICALITY ignore EXTENSION RL-Specific-DCH-Info PRESENCE optional }| { ID id-DelayedActivation CRITICALITY reject EXTENSION DelayedActivation PRESENCE optional }| { ID id-RL-Specific-EDCH-Information CRITICALITY reject EXTENSION RL-Specific-EDCH-Information PRESENCE optional }| ID id-EDCH-RL-Indication CRITICALITY reject EXTENSION EDCH-RL-Indication PRESENCE optional }| { ID id-SynchronisationIndicator CRITICALITY ignore EXTENSION SynchronisationIndicator PRESENCE optional }| CRITICALITY ignore EXTENSION HSDSCH-PreconfigurationSetup ID id-HSDSCH-PreconfigurationSetup PRESENCE optional }| { ID id-Non-Serving-RL-Preconfig-Setup CRITICALITY ignore EXTENSION Non-Serving-RL-Preconfig-Setup PRESENCE optional }, RadioLinkAdditionRequestFDD-Extensions RNSAP-PROTOCOL-EXTENSION ::= { { ID id-DPC-Mode CRITICALITY reject EXTENSION DPC-Mode PRESENCE optional }| { ID id-Permanent-NAS-UE-Identity CRITICALITY ignore EXTENSION Permanent-NAS-UE-Identity PRESENCE optional } { ID id-Serving-EDCHRL-Id CRITICALITY reject EXTENSION EDCH-Serving-RL PRESENCE optional }| { ID id-Initial-DL-DPCH-TimingAdjustment-Allowed CRITICALITY ignore EXTENSION Initial-DL-DPCH-TimingAdjustment-Allowed PRESENCE optional }| { ID id-HS-DSCH-serving-cell-change-information CRITICALITY reject EXTENSION HS-DSCH-serving-cell-change-information PRESENCE optional } { ID id-Serving-cell-change-CFN CRITICALITY reject EXTENSION CFN PRESENCE optional }|

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{ ID id-EDPCH-Information
                                                        CRITICALITY reject EXTENSION EDPCH-Information-RLAdditionReg-FDD
    PRESENCE optional }|
    { ID id-EDCH-FDD-Information
                                                        CRITICALITY reject EXTENSION EDCH-FDD-Information
                PRESENCE optional }|
    { ID id-Additional-HS-Cell-Information-RL-Addition CRITICALITY reject EXTENSION Additional-HS-Cell-Information-RL-Addition-List PRESENCE
optional }|
    -- This IE shall be present if E-DPCH Information is present
    { ID id-UE-AggregateMaximumBitRate
                                                        CRITICALITY ignore EXTENSION UE-AggregateMaximumBitRate
       PRESENCE optional }
     ID id-Additional-EDCH-Cell-Information-RL-Add-Req
                                                            CRITICALITY reject EXTENSION Additional-EDCH-Cell-Information-RL-Add-Reg
    PRESENCE optional },
    . . .
٦
Additional-HS-Cell-Information-RL-Addition-List ::= SEQUENCE (SIZE (1..maxNrOfHSDSCH-1)) OF Additional-HS-Cell-Information-RL-Addition-ItemIEs
Additional-HS-Cell-Information-RL-Addition-ItemIEs ::=SEOUENCE{
    hSPDSCH-RL-ID
                                                RL-ID,
    C-TD
                                                C-ID,
    hS-DSCH-FDD-Secondary-Serving-Information HS-DSCH-FDD-Secondary-Serving-Information,
                                    ProtocolExtensionContainer { { Additional-HS-Cell-Information-RL-Addition-ItemIEs-ExtIEs } } OPTIONAL,
    iE-Extensions
    . . .
Additional-HS-Cell-Information-RL-Addition-ItemIEs-ExtIEs
                                                           RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
Additional-EDCH-Cell-Information-RL-Add-Reg ::=SEQUENCE{
    setup-Or-Addition-Of-EDCH-On-secondary-UL-Frequency
                                                                                 Setup-Or-Addition-Of-EDCH-On-secondary-UL-Frequency,
    iE-Extensions
                                    ProtocolExtensionContainer { { Additional-EDCH-Cell-Information-RL-Add-Reg-ExtIEs } } OPTIONAL,
    . . .
Additional-EDCH-Cell-Information-RL-Add-Reg-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
Setup-Or-Addition-Of-EDCH-On-secondary-UL-Frequency::= CHOICE {
    setup
                    Additional-EDCH-Setup-Info,
    addition
                    Additional-EDCH-Cell-Information-To-Add-List,
    . . .
EDPCH-Information-RLAdditionReg-FDD::= SEQUENCE
    maxSet-E-DPDCHs
                                                Max-Set-E-DPDCHs,
    ul-PunctureLimit
                                                PunctureLimit,
    e-TFCS-Information
                                                E-TFCS-Information,
    e-TTI
                                                E-TTI,
    e-DPCCH-PO
                                                E-DPCCH-PO,
    e-RGCH-2-IndexStepThreshold
                                                E-RGCH-2-IndexStepThreshold,
                                                E-RGCH-3-IndexStepThreshold,
    e-RGCH-3-IndexStepThreshold
```

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hARO-Info-for-E-DCH HARO-Info-for-E-DCH, iE-Extensions ProtocolExtensionContainer { { EDPCH-Information-RLAdditionReg-FDD-ExtIEs } } OPTIONAL. . . . EDPCH-Information-RLAdditionReg-FDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= { { ID id-HSDSCH-Configured-Indicator CRITICALITY reject EXTENSION HSDSCH-Configured-Indicator PRESENCE mandatory } -- This shall be present for EDPCH configuration with HSDCH { ID id-MinimumReducedE-DPDCH-GainFactor CRITICALITY ignore EXTENSION MinimumReducedE-DPDCH-GainFactor PRESENCE optional }, \*\*\*\*\*\* \_ \_ -- RADIO LINK ADDITION REQUEST TDD \*\*\*\*\* RadioLinkAdditionReguestTDD ::= SEQUENCE { ProtocolIE-Container {{RadioLinkAdditionRequestTDD-IEs}}, protocolIEs protocolExtensions ProtocolExtensionContainer {{RadioLinkAdditionRequestTDD-Extensions}} OPTIONAL. . . . } RadioLinkAdditionRequestTDD-IEs RNSAP-PROTOCOL-IES ::= { { ID id-RL-Information-RL-AdditionRgstTDD CRITICALITY reject TYPE RL-Information-RL-AdditionRgstTDD PRESENCE mandatory }. . . . } RL-Information-RL-AdditionRqstTDD ::= SEQUENCE { rL-ID RL-ID, C-TD C-ID, frameOffset FrameOffset, diversityControlField DiversityControlField, primarvCCPCH-RSCP PrimarvCCPCH-RSCP OPTIONAL. dL-TimeSlot-ISCP-Info DL-TimeSlot-ISCP-Info OPTIONAL, --for 3.84Mcps TDD only iE-Extensions ProtocolExtensionContainer { {RL-Information-RL-AdditionRgstTDD-ExtIEs} } OPTIONAL, . . . RL-Information-RL-AdditionRqstTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= { { ID id-DL-Timeslot-ISCP-LCR-Information-RL-AdditionRqstTDD CRITICALITY reject EXTENSION DL-TimeSlot-ISCP-LCR-Information PRESENCE optional }| --for 1.28Mcps TDD only ID id-RL-Specific-DCH-Info CRITICALITY ignore EXTENSION RL-Specific-DCH-Info PRESENCE optional } EXTENSION DelayedActivation ID id-DelavedActivation CRITICALITY reject PRESENCE optional { ID id-UL-Synchronisation-Parameters-LCR CRITICALITY reject EXTENSION UL-Synchronisation-Parameters-LCR PRESENCE optional } -- Mandatory for 1.28Mcps TDD, Not Applicable to 3.84Mcps TDD or 7.68Mcps TDD ID id-PrimaryCCPCH-RSCP-Delta CRITICALITY ignore EXTENSION PrimaryCCPCH-RSCP-Delta PRESENCE optional } CRITICALITY ignore PRESENCE optional }, { ID id-IdleIntervalConfigurationIndicator EXTENSION NULL

RadioLinkAdditionRequestTDD-Extensions RNSAP-PROTOCOL-EXTEN { ID id-Permanent-NAS-UE-Identity CRITIC; }	NSION ::= { ALITY ignore	EXTENSION Permanent-NAS-UE-Identity	PRESENCE optional				
{ ID id-UL-CCTrCH-InformationList-RL-AdditionRqstTDD optional }	CRITICALITY notify	EXTENSION UL-CCTrCH-InformationList-RL-Addit	ionRqstTDD PRESENCE				
{ ID id-DL-CCTrCH-InformationList-RL-AdditionRqstTDD PRESENCE optional }	CRITICALITY notify	EXTENSION DL-CCTrCH-InformationList-RL-Addit	ionRqstTDD				
{ ID id-HSDSCH-TDD-Information optional }	CRITICALITY reject	EXTENSION HSDSCH-TDD-Information	PRESENCE				
{ ID id-HSPDSCH-RL-ID PRESENCE optional }	CRITICALITY reject	EXTENSION RL-ID					
{ ID id-E-DCH-Information optional }	CRITICALITY reject	EXTENSION E-DCH-Information	PRESENCE				
{ ID id-E-DCH-Serving-RL-ID optional }	CRITICALITY reject	EXTENSION RL-ID	PRESENCE				
{ ID id-E-DCH-768-Information	CRITICALITY reject	EXTENSION E-DCH-768-Information					
PRESENCE optional }  { ID id-E-DCH-LCR-Information DECENCE optional }	CRITICALITY reject	EXTENSION E-DCH-LCR-Information					
PRESENCE optional }  { ID id-ContinuousPacketConnectivity-DRX-InformationLCI	R CRITICALITY re	ject EXTENSION ContinuousPacketConnectivi	ty-DRX-InformationLCR				
PRESENCE optional }  { ID id-HS-DSCH-Semi-PersistentScheduling-Information-:	LCR CRITICALITY re	ject EXTENSION HS-DSCH-Semi-PersistentSch	eduling-Information-LCR				
PRESENCE optional }  { ID id-E-DCH-Semi-PersistentScheduling-Information-LCR CRITICALITY reject EXTENSION E-DCH-Semi-PersistentScheduling-Information-LCR							
PRESENCE optional }  { ID id-DCH-MeasurementType-Indicator	CRITICALITY reject	EXTENSION DCH-MeasurementType-Indicator	PRESENCE optional},				
}							
UL-CCTrCH-InformationList-RL-AdditionRqstTDD ::= SEQUENCE (SIZE (1maxNrOfCCTrCHs)) OF ProtocolIE-Single-Container { {UL-CCTrCH- InformationItemIEs-RL-AdditionRqstTDD} }							
UL-CCTrCH-InformationItemIEs-RL-AdditionRqstTDD RNSAP-PROTOCOL-IES ::= { { ID id-UL-CCTrCH-InformationItem-RL-AdditionRqstTDD CRITICALITY notify TYPE UL-CCTrCH-InformationItem-RL-AdditionRqstTDD PRESENCE optional},							
}							
UL-CCTrCH-InformationItem-RL-AdditionRqstTDD ::= SEQUENCE cCTrCH-ID CCTrCH-ID, uplinkStepSizeLCR TDD-TPC-UplinkStepSize-LCR Applicable to 1.28Mcps TDD only iE-Extensions ProtocolExtensionContainer	OPTIONAL,	ationItem-RL-AdditionRqstTDD-ExtIEs} } OPTIONA	L,				
}							
UL-CCTrCH-InformationItem-RL-AdditionRqstTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {							
}							
DL-CCTrCH-InformationList-RL-AdditionRqstTDD ::= SEQUENCE (SIZE (1maxNrOfCCTrCHs)) OF ProtocolIE-Single-Container { {DL-CCTrCH- InformationItemIEs-RL-AdditionRqstTDD} }							
DL-CCTrCH-InformationItemIEs-RL-AdditionRqstTDD RNSAP-PROTOCOL-IES ::= {							

{ ID id-DL-CCTrCH-InformationItem-RL-AdditionRgstTDD CRITICALITY notify TYPE DL-CCTrCH-InformationItem-RL-AdditionRgstTDD PRESENCE optional}, . . . DL-CCTrCH-InformationItem-RL-AdditionRqstTDD ::= SEQUENCE cCTrCH-ID CCTrCH-ID, downlinkStepSize TDD-TPC-DownlinkStepSize OPTIONAL, iE-Extensions ProtocolExtensionContainer { {DL-CCTrCH-InformationItem-RL-AdditionRqstTDD-ExtIEs} } OPTIONAL, DL-CCTrCH-InformationItem-RL-AdditionRqstTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= { \_ \_ RADIO LINK ADDITION RESPONSE FDD \*\*\*\*\*\*\*\*\*\*\* RadioLinkAdditionResponseFDD ::= SEQUENCE { {{RadioLinkAdditionResponseFDD-IEs}}, protocolIEs ProtocolIE-Container ProtocolExtensionContainer {{RadioLinkAdditionResponseFDD-Extensions}} protocolExtensions OPTIONAL, . . . 3 RadioLinkAdditionResponseFDD-IEs RNSAP-PROTOCOL-IES ::= { CRITICALITY ignore TYPE RL-InformationResponseList-RL-AdditionRspFDD { ID id-RL-InformationResponseList-RL-AdditionRspFDD PRESENCE mandatory } | { ID id-CriticalityDiagnostics CRITICALITY ignore TYPE CriticalityDiagnostics PRESENCE optional }, . . . } RL-InformationResponseList-RL-AdditionRspFDD ::= SEQUENCE (SIZE (1..maxNrOfRLs-1)) OF ProtocolIE-Single-Container { {RL-InformationResponseItemIEs-RL-AdditionRspFDD } } RL-InformationResponseItemIEs-RL-AdditionRspFDD RNSAP-PROTOCOL-IES ::= { { ID id-RL-InformationResponseItem-RL-AdditionRspFDD CRITICALITY ignore TYPE RL-InformationResponseItem-RL-AdditionRspFDD PRESENCE mandatory } } RL-InformationResponseItem-RL-AdditionRspFDD ::= SEQUENCE rL-ID RL-ID, rL-Set-TD RL-Set-ID, uRA-Information URA-Information OPTIONAL, sAI SAI, qA-Cell GA-Cell OPTIONAL, qA-AccessPointPosition GA-AccessPointPosition OPTIONAL, received-total-wide-band-power Received-total-wide-band-power, not-Used-secondary-CCPCH-Info NULL OPTIONAL, dl-CodeInformation DL-CodeInformationList-RL-AdditionRspFDD, diversityIndication DiversityIndication-RL-AdditionRspFDD,

```
sSDT-SupportIndicator
                                        SSDT-SupportIndicator,
    minUL-SIR
                                        UL-SIR.
    maxUL-SIR
                                        UL-SIR.
    closedlooptimingadjustmentmode
                                        Closedlooptimingadjustmentmode OPTIONAL,
    maximumAllowedULTxPower
                                        MaximumAllowedULTxPower,
    maximumDLTxPower
                                        DL-Power,
                                        DL-Power,
    minimumDLTxPower
    neighbouring-UMTS-CellInformation
                                        Neighbouring-UMTS-CellInformation OPTIONAL,
                                        Neighbouring-GSM-CellInformation OPTIONAL,
    neighbouring-GSM-CellInformation
    pC-Preamble
                                        PC-Preamble,
    sRB-Delay
                                        SRB-Delay,
    primaryCPICH-Power
                                        PrimaryCPICH-Power,
    iE-Extensions
                                        ProtocolExtensionContainer { {RL-InformationResponseItem-RL-AdditionRspFDD-ExtIEs } } OPTIONAL,
    . . .
RL-InformationResponseItem-RL-AdditionRspFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    { ID id-GA-CellAdditionalShapes
                                                    CRITICALITY ignore EXTENSION GA-CellAdditionalShapes
        PRESENCE optional }|
      ID id-DL-PowerBalancing-ActivationIndicator
                                                    CRITICALITY ignore EXTENSION DL-PowerBalancing-ActivationIndicator
                                                                                                                                 PRESENCE optional }|
     ID id-HCS-Prio
                                                    CRITICALITY ignore EXTENSION HCS-Prio
           PRESENCE optional }|
    { ID id-Active-MBMS-Bearer-ServiceFDD-PFL
                                                    CRITICALITY ignore
                                                                        EXTENSION Active-MBMS-Bearer-Service-ListFDD-PFL
                                                                                                                                        PRESENCE
optional }|
    { ID id-EDCH-RLSet-Id
                                                    CRITICALITY ignore EXTENSION RL-Set-ID
            PRESENCE optional }|
      ID id-EDCH-FDD-DL-ControlChannelInformation
                                                    CRITICALITY ignore EXTENSION EDCH-FDD-DL-ControlChannelInformation
                                                                                                                                 PRESENCE optional }|
     ID id-Initial-DL-DPCH-TimingAdjustment
                                                    CRITICALITY ignore EXTENSION DL-DPCH-TimingAdjustment
        PRESENCE optional }|
     ID id-F-DPCH-SlotFormat
                                                    CRITICALITY ignore EXTENSION F-DPCH-SlotFormat
            PRESENCE optional }|
    { ID id-Neighbouring-E-UTRA-CellInformation
                                                    CRITICALITY ignore EXTENSION Neighbouring-E-UTRA-CellInformation
                                                                                                                                        PRESENCE
optional }|
    { ID id-HSDSCH-PreconfigurationInfo
                                                    CRITICALITY ignore EXTENSION HSDSCH-PreconfigurationInfo
    PRESENCE optional }
    { ID id-Non-Serving-RL-Preconfig-Info
                                                    CRITICALITY ignore EXTENSION Non-Serving-RL-Preconfig-Info
    PRESENCE optional },
    . . .
DL-CodeInformationList-RL-AdditionRspFDD ::= ProtocollE-Single-Container {{ DL-CodeInformationListIEs-RL-AdditionRspFDD }}
DL-CodeInformationListIEs-RL-AdditionRspFDD RNSAP-PROTOCOL-IES ::= {
     ID id-FDD-DL-CodeInformation CRITICALITY ignore TYPE FDD-DL-CodeInformation
                                                                                         PRESENCE mandatory }
DiversityIndication-RL-AdditionRspFDD ::= CHOICE {
    combining
                                    Combining-RL-AdditionRspFDD,
    nonCombining
                                    NonCombining-RL-AdditionRspFDD
}
Combining-RL-AdditionRspFDD ::= SEQUENCE {
    rL-ID
                                RL-ID,
```

```
ProtocolExtensionContainer { { CombiningItem-RL-AdditionRspFDD-ExtIEs } } OPTIONAL,
    iE-Extensions
    . . .
CombiningItem-RL-AdditionRspFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
     ID id-DCH-InformationResponse
                                           CRITICALITY ignore EXTENSION DCH-InformationResponse
                                                                                                               PRESENCE optional
    { ID id-EDCH-FDD-InformationResponse
                                           CRITICALITY ignore EXTENSION EDCH-FDD-InformationResponse
                                                                                                                      PRESENCE optional
                                                                                                                                             },
    . . .
}
NonCombining-RL-AdditionRspFDD ::= SEQUENCE
    dCH-InformationResponse
                                           DCH-InformationResponse,
    iE-Extensions
                                               ProtocolExtensionContainer { { NonCombiningItem-RL-AdditionRspFDD-ExtIEs } } OPTIONAL,
    . . .
NonCombiningItem-RL-AdditionRspFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    { ID id-EDCH-FDD-InformationResponse
                                           CRITICALITY ignore EXTENSION EDCH-FDD-InformationResponse
                                                                                                                      PRESENCE optional
                                                                                                                                             },
    . . .
}
RadioLinkAdditionResponseFDD-Extensions RNSAP-PROTOCOL-EXTENSION ::= {
     ID id-HS-DSCH-serving-cell-change-informationResponse CRITICALITY ignore EXTENSION HS-DSCH-serving-cell-change-informationResponse
        PRESENCE optional } |
     ID id-E-DCH-Serving-cell-change-informationResponse CRITICALITY ignore EXTENSION E-DCH-Serving-cell-change-informationResponse
            PRESENCE optional } |
    { ID id-MAChs-ResetIndicator
                                                           CRITICALITY ignore EXTENSION MAChs-ResetIndicator
                           PRESENCE optional } |
    { ID id-Additional-HS-Cell-Change-Information-Response CRITICALITY ignore EXTENSION Additional-HS-Cell-Change-Information-Response-List
    PRESENCE optional } |
    { ID id-Additional-EDCH-Cell-Information-Response-RLAdd CRITICALITY ignore EXTENSION Additional-EDCH-Cell-Information-Response-RLAddList
    PRESENCE optional },
    . . .
Additional-HS-Cell-Change-Information-Response-List ::= SEQUENCE (SIZE (1..maxNrOfHSDSCH-1)) OF Additional-HS-Cell-Change-Information-Response-
ItemIEs
Additional-HS-Cell-Change-Information-Response-ItemIEs ::=SEQUENCE{
    hSPDSCH-RL-ID
                                                               RL-ID.
                                                               HSDSCH-RNTI,
    hSDSCH-RNTI
    hS-DSCH-Secondary-Serving-Cell-Change-Information-Response HS-DSCH-Secondary-Serving-Cell-Change-Information-Response,
                                   ProtocolExtensionContainer { { Additional-HS-Cell-Change-Information-Response-ItemIEs-ExtIEs } } OPTIONAL,
    iE-Extensions
    . . .
Additional-HS-Cell-Change-Information-Response-ItemIEs-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
```

```
-- RADIO LINK ADDITION RESPONSE TOD
RadioLinkAdditionResponseTDD ::= SEQUENCE {
                                                               {{RadioLinkAdditionResponseTDD-IEs}},
    protocolIEs
                                   ProtocolIE-Container
    protocolExtensions
                                   ProtocolExtensionContainer {{RadioLinkAdditionResponseTDD-Extensions}}
                                                                                                                           OPTIONAL,
    . . .
RadioLinkAdditionResponseTDD-IEs RNSAP-PROTOCOL-IES ::= {
     ID id-RL-InformationResponse-RL-AdditionRspTDD
                                                           CRITICALITY ignore TYPE RL-InformationResponse-RL-AdditionRspTDD PRESENCE optional
    --Mandatory for 3.84Mcps TDD only
    { ID id-CriticalityDiagnostics
                                           CRITICALITY ignore TYPE CriticalityDiagnostics
                                                                                                PRESENCE optional
                                                                                                                      },
    . . .
RL-InformationResponse-RL-AdditionRspTDD ::= SEQUENCE {
    rL-TD
                                       RL-ID,
    uRA-Information
                                       URA-Information
                                                           OPTIONAL,
    SAT
                                       SAI,
    qA-Cell
                                       GA-Cell
                                                   OPTIONAL,
    qA-AccessPointPosition
                                       GA-AccessPointPosition OPTIONAL,
    ul-TimeSlot-ISCP-Info
                                       UL-TimeSlot-ISCP-Info,
    minUL-SIR
                                       UL-SIR,
    maxUL-SIR
                                       UL-SIR,
                                       MaximumAllowedULTxPower,
    maximumAllowedULTxPower
    maximumDLTxPower
                                       DL-Power,
    minimumDLTxPower
                                       DL-Power,
    pCCPCH-Power
                                       PCCPCH-Power,
    timingAdvanceApplied
                                       TimingAdvanceApplied,
    alphaValue
                                       AlphaValue,
                                       UL-PhysCH-SF-Variation,
    ul-PhysCH-SF-Variation
    synchronisationConfiguration
                                       SynchronisationConfiguration,
    secondary-CCPCH-Info-TDD
                                       Secondary-CCPCH-Info-TDD
                                                                                       OPTIONAL,
    ul-CCTrCHInformation
                                       UL-CCTrCHInformationList-RL-AdditionRspTDD
                                                                                      OPTIONAL,
    dl-CCTrCHInformation
                                       DL-CCTrCHInformationList-RL-AdditionRspTDD
                                                                                      OPTIONAL,
    dCH-Information
                                       DCH-Information-RL-AdditionRspTDD
                                                                                      OPTIONAL,
    dSCH-InformationResponse
                                       DSCH-InformationResponse-RL-AdditionRspTDD
                                                                                      OPTIONAL,
    uSCH-InformationResponse
                                       USCH-InformationResponse-RL-AdditionRspTDD
                                                                                      OPTIONAL,
                                       Neighbouring-UMTS-CellInformation OPTIONAL,
    neighbouring-UMTS-CellInformation
                                       Neighbouring-GSM-CellInformation OPTIONAL,
    neighbouring-GSM-CellInformation
    iE-Extensions
                                       ProtocolExtensionContainer { {RL-InformationResponse-RL-AdditionRspTDD-ExtIEs } } OPTIONAL,
    . . .
RL-InformationResponse-RL-AdditionRspTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    { ID id-GA-CellAdditionalShapes
                                                   CRITICALITY ignore EXTENSION
                                                                                  GA-CellAdditionalShapes
    PRESENCE optional }
    { ID id-HCS-Prio
                                                   CRITICALITY ignore EXTENSION
                                                                                  HCS-Prio
           PRESENCE optional }|
```

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{ ID id-Neighbouring-E-UTRA-CellInformation
                                                 CRITICALITY ignore EXTENSION Neighbouring-E-UTRA-CellInformation
                                                                                                                                        PRESENCE
optional },
    . . .
UL-CCTrCHInformationList-RL-AdditionRspTDD ::= ProtocolIE-Single-Container {{UL-CCTrCHInformationListIEs-RL-AdditionRspTDD}}
UL-CCTrCHInformationListIEs-RL-AdditionRspTDD RNSAP-PROTOCOL-IES ::= {
    { ID id-UL-CCTrCH-InformationListIE-RL-AdditionRspTDD CRITICALITY ignore TYPE UL-CCTrCHInformationListIE-RL-AdditionRspTDD
    PRESENCE mandatory }
UL-CCTrCHInformationListIE-RL-AdditionRspTDD ::= SEOUENCE (SIZE (1..maxNrOfCCTrCHs)) OF UL-CCTrCHInformationItem-RL-AdditionRspTDD
UL-CCTrCHInformationItem-RL-AdditionRspTDD ::= SEQUENCE {
    cCTrCH-ID
                               CCTrCH-ID,
    ul-DPCH-Information
                                    UL-DPCH-InformationList-RL-AdditionRspTDD
                                                                                    OPTIONAL,
                                    ProtocolExtensionContainer { { UL-CCTrCHInformationItem-RL-AdditionRspTDD-ExtIEs } } OPTIONAL,
    iE-Extensions
    . . .
}
UL-CCTrCHInformationItem-RL-AdditionRspTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
UL-DPCH-InformationList-RL-AdditionRspTDD ::= ProtocolIE-Single-Container { {UL-DPCH-InformationListIEs-RL-AdditionRspTDD } }
UL-DPCH-InformationListIEs-RL-AdditionRspTDD RNSAP-PROTOCOL-IES ::= {
     ID id-UL-DPCH-InformationItem-RL-AdditionRspTDD
                                                            CRITICALITY ignore TYPE UL-DPCH-InformationItem-RL-AdditionRspTDD PRESENCE mandatory
}
UL-DPCH-InformationItem-RL-AdditionRspTDD ::= SEQUENCE {
                                    RepetitionPeriod,
    repetitionPeriod
    repetitionLength
                                   RepetitionLength,
    t.DD-DPCHOffset
                                   TDD-DPCHOffset,
    uL-Timeslot-Information
                                   UL-Timeslot-Information,
                                    ProtocolExtensionContainer { { UL-DPCH-InformationItem-RL-AdditionRspTDD-ExtIEs } } OPTIONAL,
   iE-Extensions
    . . .
UL-DPCH-InformationItem-RL-AdditionRspTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
DL-CCTrCHInformationList-RL-AdditionRspTDD ::= ProtocolIE-Single-Container {{DL-CCTrCHInformationListIEs-RL-AdditionRspTDD}}
DL-CCTrCHInformationListIEs-RL-AdditionRspTDD RNSAP-PROTOCOL-IES ::= {
    { ID id-DL-CCTrCH-InformationListIE-RL-AdditionRspTDD CRITICALITY ignore TYPE DL-CCTrCHInformationListIE-RL-AdditionRspTDD
    PRESENCE mandatory }
}
DL-CCTrCHInformationListIE-RL-AdditionRspTDD ::= SEQUENCE (SIZE (1..maxNrOfCCTrCHs)) OF DL-CCTrCHInformationItem-RL-AdditionRspTDD
```

```
DL-CCTrCHInformationItem-RL-AdditionRspTDD ::= SEQUENCE {
    cCTrCH-ID
                                CCTrCH-ID.
    dl-DPCH-Information
                                    DL-DPCH-InformationList-RL-AdditionRspTDD
                                                                                     OPTIONAL.
                                    ProtocolExtensionContainer { {DL-CCTrCHInformationItem-RL-AdditionRspTDD-ExtIEs } } OPTIONAL,
    iE-Extensions
    . . .
3
DL-CCTrCHInformationItem-RL-AdditionRspTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    { ID id-CCTrCH-Maximum-DL-Power-RL-AdditionRspTDD
                                                             CRITICALITY ignore
                                                                                     EXTENSION DL-Power
                                                                                                            PRESENCE optional
                                                                                                                                 }| -- this is a DCH
type CCTrCH power
    { ID id-CCTrCH-Minimum-DL-Power-RL-AdditionRspTDD
                                                                                                            PRESENCE optional
                                                                                                                                 }, -- this is a DCH
                                                             CRITICALITY iqnore
                                                                                     EXTENSION DL-Power
type CCTrCH power
    . . .
DL-DPCH-InformationList-RL-AdditionRspTDD ::= ProtocolIE-Single-Container { {DL-DPCH-InformationListIEs-RL-AdditionRspTDD } }
DL-DPCH-InformationListIEs-RL-AdditionRspTDD RNSAP-PROTOCOL-IES ::= {
      ID id-DL-DPCH-InformationItem-RL-AdditionRspTDD
                                                            CRITICALITY ignore TYPE DL-DPCH-InformationItem-RL-AdditionRspTDD PRESENCE mandatory
}
DL-DPCH-InformationItem-RL-AdditionRspTDD ::= SEQUENCE {
    repetitionPeriod
                                    RepetitionPeriod,
    repetitionLength
                                    RepetitionLength,
    tDD-DPCHOffset
                                    TDD-DPCHOffset,
    dL-Timeslot-Information
                                    DL-Timeslot-Information,
    iE-Extensions
                                    ProtocolExtensionContainer { {DL-DPCH-InformationItem-RL-AdditionRspTDD-ExtIEs } } OPTIONAL,
    . . .
DL-DPCH-InformationItem-RL-AdditionRspTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
DCH-Information-RL-AdditionRspTDD ::= SEQUENCE {
    diversityIndication
                                        DiversityIndication-RL-AdditionRspTDD,
                                    ProtocolExtensionContainer { { DCH-Information-RL-AdditionRspTDD-ExtIEs } } OPTIONAL,
    iE-Extensions
    . . .
3
DCH-Information-RL-AdditionRspTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::=
DiversityIndication-RL-AdditionRspTDD ::= CHOICE {
    combining
                    Combining-RL-AdditionRspTDD,
    nonCombining
                 NonCombining-RL-AdditionRspTDD
}
Combining-RL-AdditionRspTDD ::= SEQUENCE {
    rL-ID
                                RL-ID,
    iE-Extensions
                                ProtocolExtensionContainer { { CombiningItem-RL-AdditionRspTDD-ExtIEs } } OPTIONAL,
```

```
. . .
3
CombiningItem-RL-AdditionRspTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    { ID id-DCH-InformationResponse
                                           CRITICALITY ignore EXTENSION DCH-InformationResponse
                                                                                                               PRESENCE optional
                                                                                                                                      }.
    . . .
}
NonCombining-RL-AdditionRspTDD ::= SEQUENCE {
    dCH-InformationResponse DCH-InformationResponse,
    iE-Extensions
                                   ProtocolExtensionContainer { { NonCombiningItem-RL-AdditionRspTDD-ExtIEs } } OPTIONAL,
    . . .
}
NonCombiningItem-RL-AdditionRspTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
DSCH-InformationResponse-RL-AdditionRspTDD ::= Protocolle-Single-Container {{DSCH-InformationListles-RL-AdditionRspTDD}}
DSCH-InformationListIEs-RL-AdditionRspTDD RNSAP-PROTOCOL-IES ::= {
    { ID id-DSCH-InformationListIE-RL-AdditionRspTDD CRITICALITY ignore TYPE DSCH-InformationListIE-RL-AdditionRspTDD
                                                                                                                                      PRESENCE
mandatory }
}
DSCH-InformationListIE-RL-AdditionRspTDD ::= SEQUENCE (SIZE(0..maxNoOfDSCHs)) OF DSCHInformationItem-RL-AdditionRspTDD
DSCHInformationItem-RL-AdditionRspTDD ::= SEQUENCE {
    dsch-ID
                           DSCH-ID,
    transportFormatManagement TransportFormatManagement,
    dSCH-FlowControlInformation
                                   DSCH-FlowControlInformation,
    diversityIndication DiversityIndication-RL-AdditionRspTDD2 OPTIONAL,
    -- diversityIndication present, if CHOICE = nonCombining
    iE-Extensions ProtocolExtensionContainer { {DSCHInformationItem-RL-AdditionRspTDD-ExtIEs} } OPTIONAL,
    . . .
DSCHInformationItem-RL-AdditionRspTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
}
DiversityIndication-RL-AdditionRspTDD2 ::= SEQUENCE {
                           BindingID OPTIONAL,
    bindingID
    transportLayerAddress TransportLayerAddress OPTIONAL,
   iE-Extensions
                           ProtocolExtensionContainer { {DiversityIndication-RL-AdditionRspTDD2-ExtIEs} } OPTIONAL,
DiversityIndication-RL-AdditionRspTDD2-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
USCH-InformationResponse-RL-AdditionRspTDD ::= ProtocollE-Single-Container {{USCH-InformationListlEs-RL-AdditionRspTDD}}
USCH-InformationListIEs-RL-AdditionRspTDD RNSAP-PROTOCOL-IES ::= {
```

```
{ ID id-USCH-InformationListIE-RL-AdditionRspTDD
                                                       CRITICALITY ignore TYPE USCH-InformationListIE-RL-AdditionRspTDD
                                                                                                                                        PRESENCE
mandatory }
USCH-InformationListIE-RL-AdditionRspTDD ::= SEQUENCE (SIZE(0..maxNoOfUSCHs)) OF USCHInformationItem-RL-AdditionRspTDD
USCHInformationItem-RL-AdditionRspTDD ::= SEQUENCE {
    uSCH-ID
                           USCH-ID,
    transportFormatManagement TransportFormatManagement,
                           DiversityIndication-RL-AdditionRspTDD2 OPTIONAL,
    diversityIndication
    -- diversityIndication present, if CHOICE = nonCombining
                            ProtocolExtensionContainer { {USCHInformationItem-RL-AdditionRspTDD-ExtIEs} } OPTIONAL,
    iE-Extensions
    . . .
USCHInformationItem-RL-AdditionRspTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
RadioLinkAdditionResponseTDD-Extensions RNSAP-PROTOCOL-EXTENSION ::= {
    { ID id-RL-LCR-InformationResponse-RL-AdditionRspTDD
                                                            CRITICALITY ignore
                                                                                    EXTENSION RL-LCR-InformationResponse-RL-AdditionRspTDD
    PRESENCE optional }|
    --Mandatory for 1.28Mcps TDD only
    { ID id-Active-MBMS-Bearer-ServiceTDD-PFL
                                                            CRITICALITY ignore
                                                                                    EXTENSION Active-MBMS-Bearer-Service-ListTDD-PFL
                PRESENCE optional } |
    { ID id-HSDSCH-TDD-Information-Response
                                                            CRITICALITY ignore
                                                                                    EXTENSION HSDSCH-TDD-Information-Response
                PRESENCE optional }|
    { ID id-DSCH-RNTI
                                                            CRITICALITY ignore
                                                                                    EXTENSION DSCH-RNTI
                                    PRESENCE optional }|
    { ID id-RL-InformationResponse-RL-AdditionRspTDD768
                                                            CRITICALITY ignore
                                                                                    EXTENSION RL-InformationResponse-RL-AdditionRspTDD768
                PRESENCE optional } |
     ID id-E-DCH-Information-Response
                                                            CRITICALITY iqnore
                                                                                    EXTENSION E-DCH-Information-Response
                        PRESENCE optional }|
    { ID id-E-DCH-768-Information-Response
                                                            CRITICALITY iqnore
                                                                                    EXTENSION E-DCH-768-Information-Response
                    PRESENCE optional }|
    { ID id-E-DCH-LCR-Information-Response
                                                            CRITICALITY iqnore
                                                                                    EXTENSION E-DCH-LCR-Information-Response
                    PRESENCE optional }|
     ID id-ContinuousPacketConnectivity-DRX-Information-ResponseLCR
                                                                                    CRITICALITY ignore
                                                                                                                         EXTENSION
ContinuousPacketConnectivity-DRX-Information-ResponseLCR
                                                                    PRESENCE optional }|
     ID id-HS-DSCH-Semi-PersistentScheduling-Information-ResponseLCR
                                                                            CRITICALITY ignore
                                                                                                                    EXTENSION HS-DSCH-Semi-
                                                        PRESENCE optional }|
PersistentScheduling-Information-ResponseLCR
    { ID id-E-DCH-Semi-PersistentScheduling-Information-ResponseLCR
                                                                        CRITICALITY ignore
                                                                                                  EXTENSION E-DCH-Semi-PersistentScheduling-
Information-ResponseLCR
                               PRESENCE optional}
    { ID id-DCH-MeasurementOccasion-Information
                                                            CRITICALITY reject
                                                                                    EXTENSION DCH-MeasurementOccasion-Information
                    PRESENCE optional },
    . . .
RL-LCR-InformationResponse-RL-AdditionRspTDD ::= SEQUENCE {
    rL-ID
                                RL-ID,
    uRA-Information
                                URA-Information,
    sAI
                                SAI,
    qA-Cell
                                GA-Cell
                                            OPTIONAL,
    gA-AccessPointPosition
                                GA-AccessPointPosition OPTIONAL,
```

```
ul-TimeSlot-ISCP-LCR-Info
                               UL-TimeSlot-ISCP-LCR-Info,
    maxUL-SIR
                                UL-SIR.
    minUL-SIR
                                UL-SIR.
    pCCPCH-Power
                                PCCPCH-Power,
    maximumAllowedULTxPower
                                MaximumAllowedULTxPower,
    maximumDLTxPower
                                DL-Power,
    minimumDLTxPower
                                DL-Power,
    alphaValue
                                AlphaValue,
    ul-PhysCH-SF-Variation
                                UL-PhysCH-SF-Variation,
                                        SynchronisationConfiguration,
    synchronisationConfiguration
    secondary-LCR-CCPCH-Info-TDD
                                        Secondary-LCR-CCPCH-Info-TDD
                                                                                            OPTIONAL,
    ul-CCTrCH-LCR-Information
                                        UL-CCTrCH-LCR-InformationList-RL-AdditionRspTDD
                                                                                             OPTIONAL,
    dl-CCTrCH-LCR-Information
                                        DL-CCTrCH-LCR-InformationList-RL-AdditionRspTDD
                                                                                            OPTIONAL.
    dCH-InformationResponse
                                        DCH-InformationResponseList-RL-AdditionRspTDD
                                                                                            OPTIONAL.
    dsch-LCR-InformationResponse
                                        DSCH-LCR-InformationResponse-RL-AdditionRspTDD OPTIONAL,
    usch-LCR-InformationResponse
                                            USCH-LCR-InformationResponse-RL-AdditionRspTDD OPTIONAL,
                                                Neighbouring-UMTS-CellInformation OPTIONAL,
    neighbouring-UMTS-CellInformation
    neighbouring-GSM-CellInformation
                                                Neighbouring-GSM-CellInformation
                                                                                              OPTIONAL,
                                                ProtocolExtensionContainer { { RL-LCR-InformationResponseList-RL-AdditionRspTDD-ExtIEs } }
    iE-Extensions
    OPTIONAL,
    . . .
RL-LCR-InformationResponseList-RL-AdditionRspTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::=
    { ID id-GA-CellAdditionalShapes
                                                    CRITICALITY ignore EXTENSION
                                                                                    GA-CellAdditionalShapes
    PRESENCE optional }|
    { ID id-HCS-Prio
                                                    CRITICALITY ignore EXTENSION
                                                                                    HCS-Prio
            PRESENCE optional } |
    { ID id-UL-TimingAdvanceCtrl-LCR
                                                    CRITICALITY ignore EXTENSION
                                                                                    UL-TimingAdvanceCtrl-LCR
    PRESENCE optional }|
    --Mandatory for 1.28Mcps TDD only
    { ID id-PowerControlGAP
                                                    CRITICALITY ignore EXTENSION ControlGAP
        PRESENCE optional }|
    -- Applicable to 1.28Mcps TDD only
    { ID id-UARFCNforNt
                                                    CRITICALITY ignore EXTENSION UARFCN
        PRESENCE optional }|
    -- Applicable to 1.28Mcps TDD only
    { ID id-Neighbouring-E-UTRA-CellInformation
                                                    CRITICALITY ignore EXTENSION Neighbouring-E-UTRA-CellInformation
                                                                                                                                        PRESENCE
optional }
    { ID id-IdleIntervalInformation
                                                            CRITICALITY ignore EXTENSION IdleIntervalInformation
                                                                                                                                        PRESENCE
optional },
    . . .
UL-CCTrCH-LCR-InformationList-RL-AdditionRspTDD ::= ProtocolIE-Single-Container {{UL-CCTrCH-LCR-InformationListIEs-RL-AdditionRspTDD }}
UL-CCTrCH-LCR-InformationListIEs-RL-AdditionRspTDD RNSAP-PROTOCOL-IES ::= {
    { ID id-UL-CCTrCH-LCR-InformationListIE-RL-AdditionRspTDD CRITICALITY ignore TYPE UL-CCTrCH-LCR-InformationListIE-RL-AdditionRspTDD
    PRESENCE mandatory }
J
UL-CCTrCH-LCR-InformationListIE-RL-AdditionRspTDD ::= SEQUENCE (SIZE (1..maxNrOfCCTrCHsLCR)) OF UL-CCTrCH-LCR-InformationItem-RL-AdditionRspTDD
UL-CCTrCH-LCR-InformationItem-RL-AdditionRspTDD ::= SEQUENCE {
```

```
cCTrCH-ID
                                CCTrCH-ID,
    ul-DPCH-LCR-Information
                                        UL-DPCH-LCR-InformationList-RL-AdditionRspTDD
                                                                                            OPTIONAL.
    iE-Extensions
                                    ProtocolExtensionContainer { { UL-CCTrCH-LCR-InformationItem-RL-AdditionRspTDD-ExtIEs } } OPTIONAL.
    . . .
UL-CCTrCH-LCR-InformationItem-RL-AdditionRspTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
UL-DPCH-LCR-InformationList-RL-AdditionRspTDD ::= ProtocolIE-Single-Container { { UL-DPCH-LCR-InformationListIEs-RL-AdditionRspTDD } }
UL-DPCH-LCR-InformationListIEs-RL-AdditionRspTDD RNSAP-PROTOCOL-IES ::= {
    { ID id-UL-DPCH-LCR-InformationItem-RL-AdditionRspTDD
                                                                CRITICALITY ignore TYPE UL-DPCH-LCR-InformationItem-RL-AdditionRspTDD PRESENCE
mandatory }
}
UL-DPCH-LCR-InformationItem-RL-AdditionRspTDD ::= SEQUENCE {
    repetitionPeriod
                                    RepetitionPeriod,
    repetitionLength
                                    RepetitionLength,
    tDD-DPCHOffset
                                   TDD-DPCHOffset,
    uL-TimeslotLCR-Information UL-TimeslotLCR-Information,
                                    ProtocolExtensionContainer { { UL-DPCH-LCR-InformationItem-RL-AdditionRspTDD-ExtIEs } } OPTIONAL,
    iE-Extensions
    . . .
UL-DPCH-LCR-InformationItem-RL-AdditionRspTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
DL-CCTrCH-LCR-InformationList-RL-AdditionRspTDD ::= ProtocolIE-Single-Container {{DL-CCTrCH-LCR-InformationListIEs-RL-AdditionRspTDD}
DL-CCTrCH-LCR-InformationListIEs-RL-AdditionRspTDD RNSAP-PROTOCOL-IES ::= {
    { ID id-DL-CCTrCH-LCR-InformationListIE-RL-AdditionRspTDD CRITICALITY ignore TYPE DL-CCTrCH-LCR-InformationListIE-RL-AdditionRspTDD
PRESENCE mandatory }
DL-CCTrCH-LCR-InformationListIE-RL-AdditionRspTDD ::= SEQUENCE (SIZE (1..maxNrOfCCTrCHsLCR)) OF DL-CCTrCH-LCR-InformationItem-RL-AdditionRspTDD
DL-CCTrCH-LCR-InformationItem-RL-AdditionRspTDD ::= SEQUENCE {
                                CCTrCH-ID,
    cCTrCH-ID
    dl-DPCH-LCR-Information
                               DL-DPCH-LCR-InformationList-RL-AdditionRspTDD
                                                                                    OPTIONAL.
    iE-Extensions
                                ProtocolExtensionContainer { {DL-CCTrCH-LCR-InformationItem-RL-AdditionRspTDD-ExtIEs } } OPTIONAL,
    . . .
DL-CCTrCH-LCR-InformationItem-RL-AdditionRspTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
DL-DPCH-LCR-InformationList-RL-AdditionRspTDD ::= ProtocolIE-Single-Container { {DL-DPCH-LCR-InformationListIEs-RL-AdditionRspTDD } }
DL-DPCH-LCR-InformationListIEs-RL-AdditionRspTDD RNSAP-PROTOCOL-IES ::= {
```

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```

```
{ ID id-DL-DPCH-LCR-InformationItem-RL-AdditionRspTDD
                                                                CRITICALITY ignore TYPE DL-DPCH-LCR-InformationItem-RL-AdditionRspTDD PRESENCE
mandatory }
DL-DPCH-LCR-InformationItem-RL-AdditionRspTDD ::= SEQUENCE {
    repetitionPeriod
                                    RepetitionPeriod,
    repetitionLength
                                   RepetitionLength,
    tDD-DPCHOffset
                                   TDD-DPCHOffset,
    dL-TimeslotLCR-Information
                                   DL-TimeslotLCR-Information,
    tSTD-Indicator
                                   TSTD-Indicator,
                                   ProtocolExtensionContainer { {DL-DPCH-LCR-InformationItem-RL-AdditionRspTDD-ExtIEs } } OPTIONAL,
    iE-Extensions
    . . .
DL-DPCH-LCR-InformationItem-RL-AdditionRspTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
DCH-InformationResponseList-RL-AdditionRspTDD ::= ProtocolIE-Single-Container {{DCH-InformationResponseListIEs-RL-AdditionRspTDD}}
DCH-InformationResponseListIEs-RL-AdditionRspTDD RNSAP-PROTOCOL-IES ::= {
    { ID id-DCH-InformationResponse CRITICALITY ignore
                                                           TYPE DCH-InformationResponse PRESENCE mandatory }
DSCH-LCR-InformationResponse-RL-AdditionRspTDD ::= ProtocolIE-Single-Container {{DSCH-LCR-InformationList-RL-AdditionRspTDD}}
DSCH-LCR-InformationList-RL-AdditionRspTDD RNSAP-PROTOCOL-IES ::= {
    { ID id-DSCH-LCR-InformationListIEs-RL-AdditionRspTDD
                                                                CRITICALITY ignore TYPE DSCH-LCR-InformationListIEs-RL-AdditionRspTDD PRESENCE
mandatory }
}
DSCH-LCR-InformationListIEs-RL-AdditionRspTDD ::= SEQUENCE (SIZE(0..maxNoOfDSCHsLCR)) OF DSCH-LCR-InformationItem-RL-AdditionRspTDD
DSCH-LCR-InformationItem-RL-AdditionRspTDD ::= SEQUENCE {
    dsch-ID
                           DSCH-ID,
    dSCH-FlowControlInformation
                                   DSCH-FlowControlInformation,
    bindingID
                           BindingID OPTIONAL,
    transportLayerAddress TransportLayerAddress OPTIONAL,
    transportFormatManagement TransportFormatManagement,
    iE-Extensions
                            ProtocolExtensionContainer { {DSCH-LCR-InformationItem-RL-AdditionRspTDD-ExtIEs } } OPTIONAL,
    . . .
DSCH-LCR-InformationItem-RL-AdditionRspTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
USCH-LCR-InformationResponse-RL-AdditionRspTDD ::= ProtocolIE-Single-Container {{USCH-LCR-InformationList-RL-AdditionRspTDD}}
USCH-LCR-InformationList-RL-AdditionRspTDD RNSAP-PROTOCOL-IES ::= {
    { ID id-USCH-LCR-InformationListIEs-RL-AdditionRspTDD
                                                                CRITICALITY ignore TYPE USCH-LCR-InformationListIEs-RL-AdditionRspTDD PRESENCE
mandatory }
```

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USCH-LCR-InformationListIEs-RL-AdditionRspTDD ::= SEQUENCE (SIZE(0..maxNoOfUSCHsLCR)) OF USCH-LCR-InformationItem-RL-AdditionRspTDD USCH-LCR-InformationItem-RL-AdditionRspTDD ::= SEQUENCE { usch-ID USCH-ID. transportFormatManagement TransportFormatManagement, diversityIndication DiversityIndication-RL-AdditionRspTDD2 OPTIONAL, iE-Extensions ProtocolExtensionContainer { {USCH-LCR-InformationItem-RL-AdditionRspTDD-ExtIEs } } OPTIONAL, . . . USCH-LCR-InformationItem-RL-AdditionRspTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= { . . . 3 RL-InformationResponse-RL-AdditionRspTDD768 ::= SEQUENCE { rL-ID RL-ID, uRA-Information URA-Information OPTIONAL, sΔT SAI, qA-Cell GA-Cell OPTIONAL, GA-AccessPointPosition OPTIONAL, qA-AccessPointPosition ul-TimeSlot-ISCP-Info UL-TimeSlot-ISCP-Info, minUL-SIR UL-SIR, maxIII.-STR UL-SIR, maximumAllowedULTxPower MaximumAllowedULTxPower, maximumDLTxPower DL-Power, minimumDLTxPower DL-Power, PCCPCH-Power, pCCPCH-Power timingAdvanceApplied TimingAdvanceApplied, alphaValue AlphaValue, ul-PhysCH-SF-Variation UL-PhysCH-SF-Variation, synchronisationConfiguration SynchronisationConfiguration, secondary-CCPCH-Info-TDD768 Secondary-CCPCH-Info-TDD768 OPTIONAL, ul-CCTrCHInformation768 UL-CCTrCHInformationList-RL-AdditionRspTDD768 OPTIONAL, dl-CCTrCHInformation768 DL-CCTrCHInformationList-RL-AdditionRspTDD768 OPTIONAL, DCH-Information-RL-AdditionRspTDD dCH-Information OPTIONAL, DSCH-InformationResponse-RL-AdditionRspTDD dSCH-InformationResponse OPTIONAL, USCH-InformationResponse-RL-AdditionRspTDD uSCH-InformationResponse OPTIONAL, neighbouring-UMTS-CellInformation Neighbouring-UMTS-CellInformation OPTIONAL, neighbouring-GSM-CellInformation Neighbouring-GSM-CellInformation OPTIONAL, qA-CellAdditionalShapes GA-CellAdditionalShapes OPTIONAL, hCS-Prio HCS-Prio OPTIONAL, ProtocolExtensionContainer { {RL-InformationResponse-RL-AdditionRspTDD768-ExtIEs } } OPTIONAL, iE-Extensions . . . RL-InformationResponse-RL-AdditionRspTDD768-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= { { ID id-Neighbouring-E-UTRA-CellInformation CRITICALITY ignore EXTENSION Neighbouring-E-UTRA-CellInformation PRESENCE optional }, . . . UL-CCTrCHInformationList-RL-AdditionRspTDD768 ::= ProtocolIE-Single-Container {{UL-CCTrCHInformationListIEs-RL-AdditionRspTDD768}} UL-CCTrCHInformationListIEs-RL-AdditionRspTDD768 RNSAP-PROTOCOL-IES ::= {

```
{ ID id-UL-CCTrCH-InformationListIE-RL-AdditionRspTDD768 CRITICALITY ignore TYPE UL-CCTrCHInformationListIE-RL-AdditionRspTDD768
    PRESENCE mandatory }
}
UL-CCTrCHInformationListIE-RL-AdditionRspTDD768 ::= SEQUENCE (SIZE (1..maxNrOfCCTrCHs)) OF UL-CCTrCHInformationItem-RL-AdditionRspTDD768
UL-CCTrCHInformationItem-RL-AdditionRspTDD768 ::= SEQUENCE {
    cCTrCH-ID
                                CCTrCH-ID,
    ul-DPCH-Information768
                                        UL-DPCH-InformationList-RL-AdditionRspTDD768
                                                                                            OPTIONAL,
                                    ProtocolExtensionContainer { { UL-CCTrCHInformationItem-RL-AdditionRspTDD768-ExtIEs } } OPTIONAL,
    iE-Extensions
    . . .
UL-CCTrCHInformationItem-RL-AdditionRspTDD768-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
UL-DPCH-InformationList-RL-AdditionRspTDD768 ::= ProtocolIE-Single-Container { {UL-DPCH-InformationListIEs-RL-AdditionRspTDD768 }
UL-DPCH-InformationListIEs-RL-AdditionRspTDD768 RNSAP-PROTOCOL-IES ::= {
    { ID id-UL-DPCH-InformationItem-RL-AdditionRspTDD
                                                            CRITICALITY ignore TYPE UL-DPCH-InformationItem-RL-AdditionRspTDD768 PRESENCE
mandatory }
UL-DPCH-InformationItem-RL-AdditionRspTDD768 ::= SEQUENCE
    repetitionPeriod
                                        RepetitionPeriod,
    repetitionLength
                                        RepetitionLength,
    tDD-DPCHOffset
                                        TDD-DPCHOffset,
    uL-Timeslot-Information768
                                        UL-Timeslot-Information768
                                        ProtocolExtensionContainer { {UL-DPCH-InformationItem-RL-AdditionRspTDD768-ExtIEs} } OPTIONAL,
    iE-Extensions
    . . .
UL-DPCH-InformationItem-RL-AdditionRspTDD768-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
DL-CCTrCHInformationList-RL-AdditionRspTDD768 ::= ProtocolIE-Single-Container {{DL-CCTrCHInformationListIEs-RL-AdditionRspTDD768}}
DL-CCTrCHInformationListIEs-RL-AdditionRspTDD768 RNSAP-PROTOCOL-IES ::= {
    { ID id-DL-CCTrCH-InformationListIE-RL-AdditionRspTDD768 CRITICALITY ignore TYPE DL-CCTrCHInformationListIE-RL-AdditionRspTDD768
    PRESENCE mandatory }
DL-CCTrCHInformationListIE-RL-AdditionRspTDD768 ::= SEQUENCE (SIZE (1..maxNrOfCCTrCHs)) OF DL-CCTrCHInformationItem-RL-AdditionRspTDD768
DL-CCTrCHInformationItem-RL-AdditionRspTDD768 ::= SEOUENCE {
    cCTrCH-ID
                                        CCTrCH-ID,
    dl-DPCH-Information768
                                        DL-DPCH-InformationList-RL-AdditionRspTDD768
                                                                                             OPTIONAL.
    cCTrCH-Maximum-DL-Power
                                        DL-Power
                                                    OPTIONAL, -- this is a DCH type CCTrCH power
    cCTrCH-Minimum-DL-Power
                                        DL-Power
                                                    OPTIONAL, -- this is a DCH type CCTrCH power
    iE-Extensions
                                        ProtocolExtensionContainer { {DL-CCTrCHInformationItem-RL-AdditionRspTDD768-ExtIEs } } OPTIONAL,
    . . .
```

```
DL-CCTrCHInformationItem-RL-AdditionRspTDD768-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
DL-DPCH-InformationList-RL-AdditionRspTDD768 ::= ProtocolIE-Single-Container { {DL-DPCH-InformationListIEs-RL-AdditionRspTDD768 }
DL-DPCH-InformationListIEs-RL-AdditionRspTDD768 RNSAP-PROTOCOL-IES ::= {
    { ID id-DL-DPCH-InformationItem-RL-AdditionRspTDD768
                                                            CRITICALITY ignore TYPE DL-DPCH-InformationItem-RL-AdditionRspTDD768 PRESENCE
mandatory }
DL-DPCH-InformationItem-RL-AdditionRspTDD768 ::= SEQUENCE {
   repetitionPeriod
                                  RepetitionPeriod,
    repetitionLength
                                  RepetitionLength,
   tDD-DPCHOffset
                                  TDD-DPCHOffset,
   dL-Timeslot-Information768
                                  DL-Timeslot-Information768,
   iE-Extensions
                                  ProtocolExtensionContainer { {DL-DPCH-InformationItem-RL-AdditionRspTDD768-ExtIEs} } OPTIONAL,
    . . .
٦
DL-DPCH-InformationItem-RL-AdditionRspTDD768-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    - -
-- RADIO LINK ADDITION FAILURE FDD
          RadioLinkAdditionFailureFDD ::= SEQUENCE {
   protocolIEs
                                  ProtocolIE-Container
                                                            {{RadioLinkAdditionFailureFDD-IEs}},
                                  ProtocolExtensionContainer {{RadioLinkAdditionFailureFDD-Extensions}}
                                                                                                                      OPTIONAL,
   protocolExtensions
    . . .
RadioLinkAdditionFailureFDD-IEs RNSAP-PROTOCOL-IES ::= {
    { ID id-CauseLevel-RL-AdditionFailureFDD
                                                                                             TYPE CauseLevel-RL-AdditionFailureFDD
                                                             CRITICALITY
                                                                            ignore
                   PRESENCE
                              mandatory }|
                                         CRITICALITY ignore TYPE CriticalityDiagnostics
                                                                                                                  },
    { ID id-CriticalityDiagnostics
                                                                                             PRESENCE optional
    . . .
CauseLevel-RL-AdditionFailureFDD ::= CHOICE {
   generalCause
                     GeneralCauseList-RL-AdditionFailureFDD,
   rLSpecificCause
                     RLSpecificCauseList-RL-AdditionFailureFDD,
    . . .
}
GeneralCauseList-RL-AdditionFailureFDD ::= SEQUENCE {
   cause
                                             Cause,
   iE-Extensions
                                             ProtocolExtensionContainer { { GeneralCauseItem-RL-AdditionFailureFDD-ExtIEs } }
   OPTIONAL,
```

```
. . .
GeneralCauseItem-RL-AdditionFailureFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
}
RLSpecificCauseList-RL-AdditionFailureFDD ::= SEQUENCE {
    unsuccessful-RL-InformationRespList-RL-AdditionFailureFDD
                                                                     UnsuccessfulRL-InformationResponseList-RL-AdditionFailureFDD,
    successful-RL-InformationRespList-RL-AdditionFailureFDD
                                                                     SuccessfulRL-InformationResponseList-RL-AdditionFailureFDD OPTIONAL,
                                                ProtocolExtensionContainer { { RLSpecificCauseItem-RL-AdditionFailureFDD-ExtIEs } }
    iE-Extensions
    OPTIONAL,
    . . .
RLSpecificCauseItem-RL-AdditionFailureFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
UnsuccessfulRL-InformationResponseList-RL-AdditionFailureFDD ::= SEQUENCE (SIZE (1..maxNrOfRLs-1)) OF ProtocolIE-Single-Container {
{UnsuccessfulRL-InformationResponse-RL-AdditionFailureFDD-IEs} }
UnsuccessfulRL-InformationResponse-RL-AdditionFailureFDD-IEs RNSAP-PROTOCOL-IES ::= {
    { ID id-UnsuccessfulRL-InformationResponse-RL-AdditionFailureFDD CRITICALITY ignore TYPE UnsuccessfulRL-InformationResponse-RL-
AdditionFailureFDD
                       PRESENCE mandatory }
}
UnsuccessfulRL-InformationResponse-RL-AdditionFailureFDD ::= SEQUENCE
    rL-ID
                                    RL-ID,
    cause
                                    Cause,
                                    ProtocolExtensionContainer { {UnsuccessfulRL-InformationResponse-RL-AdditionFailureFDD-ExtIEs} } OPTIONAL,
    iE-Extensions
    . . .
UnsuccessfulRL-InformationResponse-RL-AdditionFailureFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
SuccessfulRL-InformationResponseList-RL-AdditionFailureFDD ::= SEQUENCE (SIZE (0..maxNrOfRLs-2)) OF ProtocolIE-Single-Container { {SuccessfulRL-
InformationResponse-RL-AdditionFailureFDD-IEs } }
SuccessfulRL-InformationResponse-RL-AdditionFailureFDD-IEs RNSAP-PROTOCOL-IES ::= {
    { ID id-SuccessfulRL-InformationResponse-RL-AdditionFailureFDD
                                                                        CRITICALITY ignore TYPE SuccessfulRL-InformationResponse-RL-
AdditionFailureFDD
                        PRESENCE mandatory }
}
SuccessfulRL-InformationResponse-RL-AdditionFailureFDD ::= SEQUENCE {
    rL-ID
                                        RL-ID,
    rL-Set-ID
                                        RL-Set-ID,
    uRA-Information
                                        URA-Information
                                                            OPTIONAL,
    sAI
                                        SAI,
    qA-Cell
                                        GA-Cell
                                                    OPTIONAL,
    gA-AccessPointPosition
                                        GA-AccessPointPosition
                                                                     OPTIONAL,
    received-total-wide-band-power
                                        Received-total-wide-band-power,
```

not-Used-secondary-CCPCH-Info	NULL	OPTIONAL,					
dl-CodeInformation	DL-CodeInformationList-RL-AdditionFailureFDD,						
diversityIndication	DiversityIndication-RL-AdditionFailureFDD,						
This IE represents both the Div	ersity Indicatio	n IE and the choice b	ased on the diversity indication as described in				
the tabular message format in s	ubclause 9.1.						
sSDT-SupportIndicator	SSDT-SupportIn	dicator,					
minUL-SIR	UL-SIR,						
maxUL-SIR	UL-SIR,						
closedlooptimingadjustmentmode	Closedlooptimingadjustmentmode OPTIONAL,						
maximumAllowedULTxPower	MaximumAllowedULTxPower,						
maximumDLTxPower	DL-Power,						
minimumDLTxPower	DL-Power,						
neighbouring-UMTS-CellInformation	Neighbouring-UMTS-CellInformation OPTIONAL,						
neighbouring-GSM-CellInformation	Neighbouring-G	Neighbouring-GSM-CellInformation OPTIONAL,					
primaryCPICH-Power	PrimaryCPICH-Power,						
pC-Preamble	PC-Preamble,						
sRB-Delay	SRB-Delay,						
iE-Extensions	ProtocolExtens	ionContainer { {Succe	ssfulRL-InformationResponse-RL-AdditionFailureFDD-ExtIEs}	OPTIONAL,			
}							
SuccessfulRL-InformationResponse-RL-Ad	ditionFailureFDD	-ExtIEs RNSAP-PROTOCO	L-EXTENSION ::= {				
{ ID id-GA-CellAdditionalShapes		CRITICALITY ignore	EXTENSION GA-CellAdditionalShapes				
PRESENCE optional }							
{ ID id-DL-PowerBalancing-Activation	onIndicator	CRITICALITY ignore	EXTENSION DL-PowerBalancing-ActivationIndicator	PRESENCE			
optional }							
{ ID id-HCS-Prio		CRITICALITY ignore	EXTENSION HCS-Prio				
PRESENCE optional }							
{    ID id-Active-MBMS-Bearer-ServiceFDD-PFL		CRITICALITY ignore	EXTENSION Active-MBMS-Bearer-Service-ListFDD-PFL	PRESENCE			
optional }							
{ ID id-EDCH-RLSet-Id		CRITICALITY ignore	EXTENSION RL-Set-ID				
PRESENCE optional }							
{    ID id-EDCH-FDD-DL-ControlChannelInformation		CRITICALITY ignore	EXTENSION EDCH-FDD-DL-ControlChannelInformation	PRESENCE			
optional }							
{ ID id-Initial-DL-DPCH-TimingAdju	stment	CRITICALITY ignore	EXTENSION DL-DPCH-TimingAdjustment				
PRESENCE optional }							
	{    ID id-Neighbouring-E-UTRA-CellInformation		EXTENSION Neighbouring-E-UTRA-CellInformation				
PRESENCE optional }							
{    ID id-HSDSCH-PreconfigurationInfo		CRITICALITY ignore	EXTENSION HSDSCH-PreconfigurationInfo				
PRESENCE optional }							
{ ID id-F-DPCH-SlotFormat		CRITICALITY ignore	EXTENSION F-DPCH-SlotFormat				
PRESENCE optional }							
{    ID id-Non-Serving-RL-Preconfig-Info		CRITICALITY ignore	EXTENSION Non-Serving-RL-Preconfig-Info				
PRESENCE optional },							
· · · ·							
}							
DL-CodeInformationList-RL-AdditionFail	ureFDD ::= Proto	collE-Single-Containe	r {{ DL-CodeInformationListIEs-RL-AdditionFailureFDD }}				
DL-CodeInformationListIEs-RL-AdditionF							
{ ID id-FDD-DL-CodeInformation CRITICALITY ignore TYPE FDD-DL-CodeInformation PRESENCE mandatory }							

}

DiversityIndication-RL-AdditionFailureFDD ::= CHOICE {

```
combining
                                  Combining-RL-AdditionFailureFDD,
   nonCombining
                                  NonCombining-RL-AdditionFailureFDD
Combining-RL-AdditionFailureFDD ::= SEQUENCE {
    rL-ID
                              RL-ID,
                              ProtocolExtensionContainer { { CombiningItem-RL-AdditionFailureFDD-ExtIEs } } OPTIONAL,
   iE-Extensions
    . . .
CombiningItem-RL-AdditionFailureFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= ·
     ID id-DCH-InformationResponse
                                          CRITICALITY ignore EXTENSION DCH-InformationResponse
                                                                                                            PRESENCE optional
    { ID id-EDCH-FDD-InformationResponse
                                          CRITICALITY ignore EXTENSION EDCH-FDD-InformationResponse
                                                                                                                   PRESENCE optional
                                                                                                                                        },
    . . .
}
NonCombining-RL-AdditionFailureFDD ::= SEQUENCE {
    dCH-InformationResponse
                              DCH-InformationResponse,
                                              ProtocolExtensionContainer { { NonCombiningItem-RL-AdditionFailureFDD-ExtIEs } } OPTIONAL,
   iE-Extensions
    . . .
NonCombiningItem-RL-AdditionFailureFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    { ID id-EDCH-FDD-InformationResponse CRITICALITY ignore EXTENSION EDCH-FDD-InformationResponse
                                                                                                                   PRESENCE optional
                                                                                                                                         }.
    . . .
}
RadioLinkAdditionFailureFDD-Extensions RNSAP-PROTOCOL-EXTENSION ::= {
    { ID id-HS-DSCH-serving-cell-change-informationResponse CRITICALITY ignore EXTENSION HS-DSCH-serving-cell-change-informationResponse
       PRESENCE optional } |
     ID id-E-DCH-Serving-cell-change-informationResponse CRITICALITY ignore EXTENSION E-DCH-Serving-cell-change-informationResponse
           PRESENCE optional } |
    { ID id-Additional-HS-Cell-Change-Information-Response CRITICALITY ignore EXTENSION Additional-HS-Cell-Change-Information-Response-List
           PRESENCE optional } |
    { ID id-MAChs-ResetIndicator
                                                         CRITICALITY ignore EXTENSION MAChs-ResetIndicator
                          PRESENCE optional }
    { ID id-Additional-EDCH-Cell-Information-Response-RLAdd CRITICALITY ignore EXTENSION Additional-EDCH-Cell-Information-Response-RLAddList
    PRESENCE optional },
    . . .
   _ _
-- RADIO LINK ADDITION FAILURE TDD
RadioLinkAdditionFailureTDD ::= SEQUENCE {
                                                             {{RadioLinkAdditionFailureTDD-IEs}},
   protocolIEs
                                  ProtocolIE-Container
                                  ProtocolExtensionContainer {{RadioLinkAdditionFailureTDD-Extensions}}
   protocolExtensions
                                                                                                                       OPTIONAL,
    . . .
}
RadioLinkAdditionFailureTDD-IEs RNSAP-PROTOCOL-IES ::= {
```

```
ID id-CauseLevel-RL-AdditionFailureTDD
                                                 CRITICALITY ignore TYPE CauseLevel-RL-AdditionFailureTDD
                                                                                                                   PRESENCE mandatory }|
     ID id-CriticalityDiagnostics
                                             CRITICALITY ignore TYPE CriticalityDiagnostics
                                                                                                    PRESENCE optional
                                                                                                                           },
    . . .
CauseLevel-RL-AdditionFailureTDD ::= CHOICE {
    generalCause
                        GeneralCauseList-RL-AdditionFailureTDD,
    rLSpecificCause
                        RLSpecificCauseList-RL-AdditionFailureTDD,
    . . .
GeneralCauseList-RL-AdditionFailureTDD ::= SEQUENCE {
    cause
                                Cause.
    iE-Extensions
                                ProtocolExtensionContainer { { GeneralCauseItem-RL-AdditionFailureTDD-ExtIEs } }
                                                                                                                           OPTIONAL.
    . . .
GeneralCauseItem-RL-AdditionFailureTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
3
RLSpecificCauseList-RL-AdditionFailureTDD ::= SEQUENCE {
    unsuccessful-RL-InformationRespItem-RL-AdditionFailureTDD
                                                                 Unsuccessful-RL-InformationRespItem-RL-AdditionFailureTDD,
    iE-Extensions
                                                                 ProtocolExtensionContainer { { RLSpecificCauseItem-RL-AdditionFailureTDD-ExtIEs } }
        OPTIONAL,
    . . .
}
RLSpecificCauseItem-RL-AdditionFailureTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
Unsuccessful-RL-InformationRespItem-RL-AdditionFailureTDD ::= ProtocolIE-Single-Container { {Unsuccessful-RL-InformationRespItemIE-RL-
AdditionFailureTDD } }
Unsuccessful-RL-InformationRespItemIE-RL-AdditionFailureTDD RNSAP-PROTOCOL-IES ::= {
    { ID
           id-UnsuccessfulRL-InformationResponse-RL-AdditionFailureTDD
                                                                              CRITICALITY ignore
                                                                                                   TYPE
                                                                                                           UnsuccessfulRL-InformationResponse-RL-
AdditionFailureTDD PRESENCE mandatory }
UnsuccessfulRL-InformationResponse-RL-AdditionFailureTDD ::= SEQUENCE {
    rL-ID
                                RL-ID.
                                Cause,
    cause
                                ProtocolExtensionContainer { {UnsuccessfulRL-InformationResponse-RL-AdditionFailureTDD-ExtIEs} } OPTIONAL,
    iE-Extensions
    . . .
UnsuccessfulRL-InformationResponse-RL-AdditionFailureTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
RadioLinkAdditionFailureTDD-Extensions RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
```

```
-- RADIO LINK DELETION REQUEST
RadioLinkDeletionRequest ::= SEQUENCE {
   protocolIEs
                               ProtocolIE-Container
                                                        {{RadioLinkDeletionRequest-IEs}},
                               ProtocolExtensionContainer {{RadioLinkDeletionRequest-Extensions}}
   protocolExtensions
                                                                                                          OPTIONAL.
   . . .
RadioLinkDeletionRequest-IEs RNSAP-PROTOCOL-IES ::= {
   { ID id-RL-InformationList-RL-DeletionRqst CRITICALITY notify TYPE RL-InformationList-RL-DeletionRqst
                                                                                                         PRESENCE mandatory
                                                                                                                             },
   . . .
}
                                      ::= SEQUENCE (SIZE (1..maxNrOfRLs)) OF ProtocolIE-Single-Container { {RL-Information-RL-DeletionRgst-
RL-InformationList-RL-DeletionRqst
IEs} }
RL-Information-RL-DeletionRqst-IEs RNSAP-PROTOCOL-IES ::=
   { ID id-RL-Information-RL-DeletionRqst
                                          CRITICALITY notify TYPE RL-Information-RL-DeletionRgst
                                                                                                   PRESENCE mandatory
RL-Information-RL-DeletionRqst ::= SEQUENCE {
   rL-ID
                            RL-ID,
   iE-Extensions
                            ProtocolExtensionContainer { {RL-Information-RL-DeletionRqst-ExtIEs } } OPTIONAL,
   . . .
}
RL-Information-RL-DeletionRqst-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
   . . .
RadioLinkDeletionRequest-Extensions RNSAP-PROTOCOL-EXTENSION ::= {
   . . .
    - -
-- RADIO LINK DELETION RESPONSE
_ _
         RadioLinkDeletionResponse ::= SEQUENCE {
   protocolIEs
                               ProtocolIE-Container
                                                        {{RadioLinkDeletionResponse-IEs}},
   protocolExtensions
                               ProtocolExtensionContainer {{RadioLinkDeletionResponse-Extensions}}
                                                                                                           OPTIONAL,
   . . .
}
RadioLinkDeletionResponse-IEs RNSAP-PROTOCOL-IES ::= {
   { ID id-CriticalityDiagnostics
                                      CRITICALITY ignore TYPE CriticalityDiagnostics
                                                                                      PRESENCE optional
                                                                                                         },
   . . .
```

```
RadioLinkDeletionResponse-Extensions RNSAP-PROTOCOL-EXTENSION ::= {
     - -
  RADIO LINK RECONFIGURATION PREPARE FDD
- -
  RadioLinkReconfigurationPrepareFDD ::= SEQUENCE {
   protocolIEs
                                  ProtocolIE-Container
                                                             {RadioLinkReconfigurationPrepareFDD-IEs}},
   protocolExtensions
                                  ProtocolExtensionContainer {{RadioLinkReconfigurationPrepareFDD-Extensions}}
                                                                                                                             OPTIONAL,
    . . .
3
RadioLinkReconfigurationPrepareFDD-IEs RNSAP-PROTOCOL-IES ::= {
     ID id-AllowedQueuingTime
                                      CRITICALITY reject TYPE AllowedQueuingTime
                                                                                           PRESENCE optional
     ID id-UL-DPCH-Information-RL-ReconfPrepFDD
                                                         CRITICALITY reject TYPE UL-DPCH-Information-RL-ReconfPrepFDD
    PRESENCE optional } |
    { ID id-DL-DPCH-Information-RL-ReconfPrepFDD
                                                         CRITICALITY reject TYPE DL-DPCH-Information-RL-ReconfPrepFDD
    PRESENCE optional } |
     ID id-FDD-DCHs-to-Modify
                                  CRITICALITY reject TYPE FDD-DCHs-to-Modify
                                                                                PRESENCE optional
     ID id-DCHs-to-Add-FDD
                              CRITICALITY reject TYPE DCH-FDD-Information
                                                                                PRESENCE optional
     ID id-DCH-DeleteList-RL-ReconfPrepFDD
                                             CRITICALITY reject TYPE DCH-DeleteList-RL-ReconfPrepFDD
                                                                                                           PRESENCE optional
     ID id-RL-InformationList-RL-ReconfPrepFDD CRITICALITY reject TYPE RL-InformationList-RL-ReconfPrepFDD
                                                                                                           PRESENCE optional
                                                                                                                                 } |
     ID id-Transmission-Gap-Pattern-Sequence-Information CRITICALITY reject TYPE Transmission-Gap-Pattern-Sequence-Information
                                                                                                                                  PRESENCE
optional },
    . . .
UL-DPCH-Information-RL-ReconfPrepFDD ::= SEQUENCE {
   ul-ScramblingCode
                                  UL-ScramblingCode
                                                         OPTIONAL,
   ul-SIRTarget
                                  UL-SIR
                                                         OPTIONAL,
   minUL-ChannelisationCodeLength MinUL-ChannelisationCodeLength OPTIONAL,
    maxNrOfUL-DPDCHs
                                  MaxNrOfUL-DPCHs
                                                         OPTIONAL
    -- This IE shall be present if minUL-ChannelisationCodeLength equals to 4 --,
   ul-PunctureLimit
                                  PunctureLimit
                                                         OPTIONAL,
    tFCS
                                  TFCS
                                         OPTIONAL,
   ul-DPCCH-SlotFormat
                                  UL-DPCCH-SlotFormat
                                                         OPTIONAL,
                                  DiversityMode
   diversityMode
                                                         OPTIONAL,
   not-Used-sSDT-CellIDLength
                                  NULL
                                             OPTIONAL,
                                  NULL
                                                 OPTIONAL,
   not-Used-s-FieldLength
                                  ProtocolExtensionContainer { {UL-DPCH-Information-RL-ReconfPrepFDD-ExtIEs} } OPTIONAL,
   iE-Extensions
    . . .
UL-DPCH-Information-RL-ReconfPrepFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::=
    { ID id-UL-DPDCHIndicatorEDCH CRITICALITY reject
                                                         EXTENSION UL-DPDCHIndicatorEDCH PRESENCE optional
                                                                                                           },
    . . .
}
```

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```
DL-DPCH-Information-RL-ReconfPrepFDD ::= SEQUENCE {
    tFCS
                                    TFCS OPTIONAL,
    dl-DPCH-SlotFormat
                                    DL-DPCH-SlotFormat
                                                            OPTIONAL.
    nrOfDLchannelisationcodes
                                    NrOfDLchannelisationcodes OPTIONAL,
    tFCI-SignallingMode
                                    TFCI-SignallingMode
                                                            OPTIONAL,
    tFCI-Presence
                                    TFCI-Presence
                                                            OPTIONAL
    -- This IE shall be present if DL DPCH Slot Format IE is from 12 to 16 --,
    multiplexingPosition
                                   MultiplexingPosition
                                                                OPTIONAL,
   limitedPowerIncrease
                                    LimitedPowerIncrease
                                                                OPTIONAL,
    iE-Extensions
                                    ProtocolExtensionContainer { {DL-DPCH-Information-RL-ReconfPrepFDD-ExtIEs} } OPTIONAL,
    . . .
DL-DPCH-Information-RL-ReconfPrepFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    { ID id-DL-DPCH-Power-Information-RL-ReconfPrepFDD CRITICALITY reject EXTENSION DL-DPCH-Power-Information-RL-ReconfPrepFDD
                                                                                                                                         PRESENCE
optional
          },
    . . .
DL-DPCH-Power-Information-RL-ReconfPrepFDD ::= SEQUENCE {
    powerOffsetInformation
                                            PowerOffsetInformation-RL-ReconfPrepFDD,
    fdd-TPC-DownlinkStepSize
                                            FDD-TPC-DownlinkStepSize,
    innerLoopDLPCStatus
                                            InnerLoopDLPCStatus,
                                            ProtocolExtensionContainer { { DL-DPCH-Power-Information-RL-ReconfPrepFDD-ExtIEs } }
   iE-Extensions
                                                                                                                                        OPTIONAL.
    . . .
DL-DPCH-Power-Information-RL-ReconfPrepFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
}
PowerOffsetInformation-RL-ReconfPrepFDD ::= SEQUENCE {
    pO1-ForTFCI-Bits
                                            PowerOffset,
   pO2-ForTPC-Bits
                                            PowerOffset,
   pO3-ForPilotBits
                                            PowerOffset,
                                            ProtocolExtensionContainer { { PowerOffsetInformation-RL-ReconfPrepFDD-ExtIEs } }
   iE-Extensions
                                                                                                                                 OPTIONAL,
    . . .
PowerOffsetInformation-RL-ReconfPrepFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
DCH-DeleteList-RL-ReconfPrepFDD
                                            ::= SEQUENCE (SIZE (0..maxNrOfDCHs)) OF DCH-DeleteItem-RL-ReconfPrepFDD
DCH-DeleteItem-RL-ReconfPrepFDD ::= SEQUENCE {
    dCH-ID
                                    DCH-ID,
                                    ProtocolExtensionContainer { {DCH-DeleteItem-RL-ReconfPrepFDD-ExtIEs} } OPTIONAL,
    iE-Extensions
DCH-DeleteItem-RL-ReconfPrepFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
}
```

RL-InformationList-RL-ReconfPrepFDD ::= SEQUENCE (SIZE (0..maxNrOfRLs)) OF ProtocolIE-Single-Container { {RL-Information-RL-ReconfPrepFDD-IEs} } RL-Information-RL-ReconfPrepFDD-IEs RNSAP-PROTOCOL-IES ::= { { ID id-RL-Information-RL-ReconfPrepFDD CRITICALITY reject TYPE RL-Information-RL-ReconfPrepFDD PRESENCE mandatory RL-Information-RL-ReconfPrepFDD ::= SEQUENCE { rL-TD RL-TD. not-Used-sSDT-Indication NULL OPTIONAL, not-Used-sSDT-CellIdentity NULL OPTIONAL, transmitDiversityIndicator TransmitDiversityIndicator OPTIONAL. -- This IE shall be present if Diversity Mode IE is present in UL DPCH Information IE and is not equal to "none" iE-Extensions ProtocolExtensionContainer { {RL-Information-RL-ReconfPrepFDD-ExtIEs} } OPTIONAL, RL-Information-RL-ReconfPrepFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= { ID id-DLReferencePower PRESENCE CRITICALITY ignore EXTENSION DL-Power optional }| { ID id-RL-Specific-DCH-Info CRITICALITY ignore EXTENSION RL-Specific-DCH-Info PRESENCE optional }| PRESENCE optional }| ID id-DL-DPCH-TimingAdjustment CRITICALITY reject EXTENSION DL-DPCH-TimingAdjustment ID id-Phase-Reference-Update-Indicator CRITICALITY ignore EXTENSION Phase-Reference-Update-Indicator PRESENCE optional } ID id-RL-Specific-EDCH-Information CRITICALITY reject EXTENSION RL-Specific-EDCH-Information PRESENCE optional }| ID id-EDCH-RL-Indication CRITICALITY reject EXTENSION EDCH-RL-Indication PRESENCE optional }| ID id-HSDSCH-PreconfigurationSetup CRITICALITY ignore EXTENSION HSDSCH-PreconfigurationSetup PRESENCE optional } ID id-Non-Serving-RL-Preconfig-Setup CRITICALITY ignore EXTENSION Non-Serving-RL-Preconfig-Setup PRESENCE optional }| ID id-Non-Serving-RL-Preconfig-Removal CRITICALITY ignore EXTENSION Non-Serving-RL-Preconfig-Setup PRESENCE optional }, . . . RadioLinkReconfigurationPrepareFDD-Extensions RNSAP-PROTOCOL-EXTENSION ::= { { ID id-HSDSCH-FDD-Information CRITICALITY reject EXTENSION HSDSCH-FDD-Information PRESENCE optional } | { ID id-HSDSCH-Information-to-Modify CRITICALITY reject EXTENSION HSDSCH-Information-to-Modify PRESENCE optional } | { ID id-HSDSCH-MACdFlows-to-Add CRITICALITY reject EXTENSION HSDSCH-MACdFlows-Information PRESENCE optional } { ID id-HSDSCH-MACdFlows-to-Delete CRITICALITY reject EXTENSION HSDSCH-MACdFlows-to-Delete PRESENCE optional } | { ID id-HSPDSCH-RL-ID CRITICALITY reject EXTENSION RL-ID PRESENCE optional } { ID id-EDPCH-Information CRITICALITY reject EXTENSION EDPCH-Information-RLReconfPrepare-FDD PRESENCE optional } | { ID id-EDCH-FDD-Information CRITICALITY reject EXTENSION EDCH-FDD-Information PRESENCE optional } | { ID id-EDCH-FDD-Information-To-Modify CRITICALITY reject EXTENSION EDCH-FDD-Information-To-Modify PRESENCE optional } | { ID id-EDCH-MACdFlows-To-Add CRITICALITY reject EXTENSION EDCH-MACdFlows-Information PRESENCE optional } |

```
{ ID id-EDCH-MACdFlows-To-Delete
                                                            CRITICALITY reject EXTENSION EDCH-MACdFlows-To-Delete
    PRESENCE optional } |
    { ID id-Serving-EDCHRL-Id
                                                            CRITICALITY reject EXTENSION EDCH-Serving-RL
           PRESENCE optional }
     ID id-F-DPCH-Information-RL-ReconfPrepFDD
                                                            CRITICALITY reject EXTENSION F-DPCH-Information-RL-ReconfPrepFDD PRESENCE optional }
     ID id-Fast-Reconfiguration-Mode
                                                            CRITICALITY ignore EXTENSION Fast-Reconfiguration-Mode
    PRESENCE optional }|
    { ID id-CPC-Information
                                                            CRITICALITY reject EXTENSION CPC-Information
            PRESENCE optional } |
    { ID id-Additional-HS-Cell-Information-RL-Reconf-Prep
                                                            CRITICALITY reject EXTENSION Additional-HS-Cell-Information-RL-Reconf-Prep
    PRESENCE optional } |
    { ID id-UE-AggregateMaximumBitRate
                                                            CRITICALITY ignore EXTENSION UE-AggregateMaximumBitRate
    PRESENCE optional }|
    { ID id-Additional-EDCH-Cell-Information-RL-Reconf-Prep CRITICALITY reject EXTENSION Additional-EDCH-Cell-Information-RL-Reconf-Prep
        PRESENCE optional },
    . . .
Additional-HS-Cell-Information-RL-Reconf-Prep ::= SEQUENCE (SIZE (1..maxNrOfHSDSCH-1)) OF Additional-HS-Cell-Information-RL-Reconf-Prep-ItemIEs
Additional-HS-Cell-Information-RL-Reconf-Prep-ItemIEs ::=SEQUENCE{
    hSPDSCH-RL-ID
                                                    RL-ID.
    C-TD
                                                    C-TD
                                                                                                          OPTIONAL,
    hS-DSCH-FDD-Secondary-Serving-Information
                                                    HS-DSCH-FDD-Secondary-Serving-Information
                                                                                                          OPTIONAL.
    hS-DSCH-Secondary-Serving-Information-To-Modify HS-DSCH-Secondary-Serving-Information-To-Modify
                                                                                                          OPTIONAL,
    hS-HS-DSCH-Secondary-Serving-Remove
                                                    HS-DSCH-Secondary-Serving-Remove OPTIONAL,
    iE-Extensions
                                    ProtocolExtensionContainer { { Additional-HS-Cell-Information-RL-Reconf-Prep-ItemIEs-ExtIEs } } OPTIONAL,
    . . .
Additional-HS-Cell-Information-RL-Reconf-Prep-ItemIEs-ExtIEs
                                                                RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
}
Additional-EDCH-Cell-Information-RL-Reconf-Prep ::=SEOUENCE{
    setup-Or-ConfigurationChange-Or-Removal-Of-EDCH-On-secondary-UL-Frequency
                                                                                                          Setup-Or-ConfigurationChange-Or-Removal-
Of-EDCH-On-secondary-UL-Frequency,
   iE-Extensions
                                    ProtocolExtensionContainer { { Additional-EDCH-Cell-Information-RL-Reconf-Prep-ExtIEs } } OPTIONAL,
    . . .
}
Additional-EDCH-Cell-Information-RL-Reconf-Prep-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
F-DPCH-Information-RL-ReconfPrepFDD ::= SEQUENCE
    powerOffsetInformation
                                    PowerOffsetInformation-F-DPCH-RL-ReconfPrepFDD,
    fdd-dl-TPC-DownlinkStepSize
                                    FDD-TPC-DownlinkStepSize,
    limitedPowerIncrease
                                    LimitedPowerIncrease,
    innerLoopDLPCStatus
                                    InnerLoopDLPCStatus,
    iE-Extensions
                                    ProtocolExtensionContainer { { F-DPCH-Information-RL-ReconfPrepFDD-ExtIEs } }
    OPTIONAL,
    . . .
```

F-DPCH-Information-RL-ReconfPrepFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= { ID id-F-DPCH-SlotFormatSupportRequest CRITICALITY reject EXTENSION F-DPCH-SlotFormatSupportRequest PRESENCE optional ID id-F-DPCH-SlotFormat CRITICALITY ignore EXTENSION F-DPCH-SlotFormat PRESENCE optional }, . . . PowerOffsetInformation-F-DPCH-RL-ReconfPrepFDD ::= SEQUENCE { po2-ForTPC-Bits PowerOffset, --This IE shall be ignored by DRNS ProtocolExtensionContainer { { PowerOffsetInformation-F-DPCH-RL-ReconfPrepFDD-ExtIEs } } iE-Extensions OPTIONAL, . . . PowerOffsetInformation-F-DPCH-RL-ReconfPrepFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= { . . . \*\*\*\*\*\*\*\*\*\* -- RADIO LINK RECONFIGURATION PREPARE TDD RadioLinkReconfigurationPrepareTDD ::= SEQUENCE { protocolIEs ProtocolIE-Container {RadioLinkReconfigurationPrepareTDD-IEs}}, ProtocolExtensionContainer {{RadioLinkReconfigurationPrepareTDD-Extensions}} protocolExtensions OPTIONAL, . . . RadioLinkReconfigurationPrepareTDD-IEs RNSAP-PROTOCOL-IES ::= { ID id-AllowedQueuingTime CRITICALITY reject TYPE AllowedQueuingTime PRESENCE optional ID id-UL-CCTrCH-InformationAddList-RL-ReconfPrepTDD CRITICALITY notify TYPE UL-CCTrCH-InformationAddList-RL-ReconfPrepTDD PRESENCE optional } | { ID id-UL-CCTrCH-InformationModifyList-RL-ReconfPrepTDD CRITICALITY notify TYPE UL-CCTrCH-InformationModifyList-RL-ReconfPrepTDD PRESENCE optional { ID id-UL-CCTrCH-InformationDeleteList-RL-ReconfPrepTDD CRITICALITY notify TYPE UL-CCTrCH-InformationDeleteList-RL-ReconfPrepTDD PRESENCE optional { ID id-DL-CCTrCH-InformationAddList-RL-ReconfPrepTDD CRITICALITY notify TYPE DL-CCTrCH-InformationAddList-RL-ReconfPrepTDD PRESENCE optional } | { ID id-DL-CCTrCH-InformationModifyList-RL-ReconfPrepTDD CRITICALITY notify TYPE DL-CCTrCH-InformationModifyList-RL-ReconfPrepTDD PRESENCE optional } | { ID id-DL-CCTrCH-InformationDeleteList-RL-ReconfPrepTDD CRITICALITY notify TYPE DL-CCTrCH-InformationDeleteList-RL-ReconfPrepTDD PRESENCE optional } | CRITICALITY reject TYPE TDD-DCHs-to-Modify ID id-TDD-DCHs-to-Modify PRESENCE optional ID id-DCHs-to-Add-TDD CRITICALITY reject TYPE DCH-TDD-Information PRESENCE optional ID id-DCH-DeleteList-RL-ReconfPrepTDD CRITICALITY reject TYPE DCH-DeleteList-RL-ReconfPrepTDD PRESENCE optional ID id-DSCH-ModifyList-RL-ReconfPrepTDD CRITICALITY reject TYPE DSCH-ModifyList-RL-ReconfPrepTDD PRESENCE optional } ID id-DSCHs-to-Add-TDD CRITICALITY reject TYPE DSCH-TDD-Information PRESENCE optional ID id-DSCH-DeleteList-RL-ReconfPrepTDD CRITICALITY reject TYPE DSCH-DeleteList-RL-ReconfPrepTDD PRESENCE optional ID id-USCH-ModifyList-RL-ReconfPrepTDD CRITICALITY reject TYPE USCH-ModifyList-RL-ReconfPrepTDD PRESENCE optional ID id-USCHs-to-Add CRITICALITY reject TYPE USCH-Information PRESENCE optional } |

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```
{ ID id-USCH-DeleteList-RL-ReconfPrepTDD
                                                CRITICALITY reject TYPE USCH-DeleteList-RL-ReconfPrepTDD
                                                                                                                         PRESENCE optional
                                                                                                                                                },
UL-CCTrCH-InformationAddList-RL-ReconfPrepTDD
                                                    ::= SEQUENCE (SIZE (0..maxNrOfCCTrCHs)) OF ProtocolIE-Single-Container { { UL-CCTrCH-
AddInformation-RL-ReconfPrepTDD-IEs } }
UL-CCTrCH-AddInformation-RL-ReconfPrepTDD-IEs RNSAP-PROTOCOL-IES ::= {
      ID id-UL-CCTrCH-AddInformation-RL-ReconfPrepTDD CRITICALITY notify TYPE UL-CCTrCH-AddInformation-RL-ReconfPrepTDD
                                                                                                                                 PRESENCE mandatory
}
UL-CCTrCH-AddInformation-RL-ReconfPrepTDD ::= SEQUENCE {
    cCTrCH-ID
                                CCTrCH-ID.
    tFCS
                                TFCS.
    tFCI-Coding
                                TFCI-Coding,
                                    PunctureLimit,
    punctureLimit
                                    ProtocolExtensionContainer { { UL-CCTrCH-AddInformation-RL-ReconfPrepTDD-ExtIEs } } OPTIONAL,
    iE-Extensions
    . . .
UL-CCTrCH-AddInformation-RL-ReconfPrepTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    { ID id-UL-SIRTarget
                                CRITICALITY reject
                                                        EXTENSION
                                                                        UL-SIR
                                                                                     PRESENCE optional } |
    -- This IE shall be mandatory for 1.28Mcps TDD, not applicable for 3.84Mcps TDD or 7.68Mcps TDD.
    { ID id-TDD-TPC-UplinkStepSize-InformationAdd-LCR-RL-ReconfPrepTDD CRITICALITY reject EXTENSION TDD-TPC-UplinkStepSize-LCR
                                                                                                                                        PRESENCE
    optional },
    -- Mandatory for 1.28Mcps TDD, not applicable to 3.84Mcps TDD or 7.68Mcps TDD
    . . .
UL-CCTrCH-InformationModifyList-RL-ReconfPrepTDD
                                                        ::= SEQUENCE (SIZE (0..maxNrOfCCTrCHs)) OF ProtocolIE-Single-Container { {UL-CCTrCH-
ModifyInformation-RL-ReconfPrepTDD-IEs } }
UL-CCTrCH-ModifyInformation-RL-ReconfPrepTDD-IEs RNSAP-PROTOCOL-IES ::= {
    { ID id-UL-CCTrCH-ModifyInformation-RL-ReconfPrepTDD CRITICALITY notify TYPE UL-CCTrCH-ModifyInformation-RL-ReconfPrepTDD
                                                                                                                                        PRESENCE
mandatory }
}
UL-CCTrCH-ModifyInformation-RL-ReconfPrepTDD ::= SEQUENCE
    cCTrCH-ID
                                CCTrCH-ID,
    tFCS
                                TFCS
                                            OPTIONAL,
    tFCI-Coding
                                TFCI-Coding
                                                        OPTIONAL.
    punctureLimit
                                    PunctureLimit
                                                                OPTIONAL,
                                    ProtocolExtensionContainer { { UL-CCTrCH-ModifyInformation-RL-ReconfPrepTDD-ExtIEs } } OPTIONAL,
    iE-Extensions
    . . .
UL-CCTrCH-ModifyInformation-RL-ReconfPrepTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    { ID id-UL-SIRTarget
                                CRITICALITY reject
                                                        EXTENSION
                                                                        UL-SIR
                                                                                     PRESENCE optional } |
    -- This IE shall be applicable for 1.28Mcps TDD only.
    { ID id-TDD-TPC-UplinkStepSize-InformationModify-LCR-RL-ReconfPrepTDD CRITICALITY reject EXTENSION
                                                                                                                 TDD-TPC-UplinkStepSize-LCR
        PRESENCE optional },
    -- Applicable to 1.28Mcps TDD only
```

```
}
UL-CCTrCH-InformationDeleteList-RL-ReconfPrepTDD
                                                      ::= SEQUENCE (SIZE (0..maxNrOfCCTrCHs)) OF ProtocolIE-Single-Container { { UL-CCTrCH-
DeleteInformation-RL-ReconfPrepTDD-IEs } }
UL-CCTrCH-DeleteInformation-RL-ReconfPrepTDD-IEs RNSAP-PROTOCOL-IES ::= {
    { ID id-UL-CCTrCH-DeleteInformation-RL-ReconfPrepTDD CRITICALITY notify TYPE UL-CCTrCH-DeleteInformation-RL-ReconfPrepTDD
                                                                                                                                       PRESENCE
mandatorv }
UL-CCTrCH-DeleteInformation-RL-ReconfPrepTDD ::= SEQUENCE
    CCTrCH-ID
                               CCTrCH-ID,
    iE-Extensions
                                    ProtocolExtensionContainer { {UL-CCTrCH-DeleteInformation-RL-ReconfPrepTDD-ExtIEs} } OPTIONAL,
    . . .
}
UL-CCTrCH-DeleteInformation-RL-ReconfPrepTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
}
DL-CCTrCH-InformationAddList-RL-ReconfPrepTDD
                                                 ::= SEQUENCE (SIZE (0..maxNrOfCCTrCHs)) OF ProtocollE-Single-Container { {DL-CCTrCH-
AddInformation-RL-ReconfPrepTDD-IEs } }
DL-CCTrCH-AddInformation-RL-ReconfPrepTDD-IEs RNSAP-PROTOCOL-IES ::= {
    { ID id-DL-CCTrCH-InformationAddItem-RL-ReconfPrepTDD CRITICALITY notify TYPE DL-CCTrCH-InformationAddItem-RL-ReconfPrepTDD
                                                                                                                                       PRESENCE
mandatory }
DL-CCTrCH-InformationAddItem-RL-ReconfPrepTDD ::= SEQUENCE
    cCTrCH-ID
                               CCTrCH-ID,
    tFCS
                               TFCS,
                               TFCI-Coding,
    tFCI-Coding
    punctureLimit
                                   PunctureLimit,
                                    CCTrCH-TPCAddList-RL-ReconfPrepTDD OPTIONAL,
    cCTrCH-TPCList
                                    ProtocolExtensionContainer { {DL-CCTrCH-InformationAddItem-RL-ReconfPrepTDD-ExtIEs } } OPTIONAL,
    iE-Extensions
    . . .
DL-CCTrCH-InformationAddItem-RL-ReconfPrepTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    { ID id-TDD-TPC-DownlinkStepSize-InformationAdd-RL-ReconfPrepTDD CRITICALITY reject EXTENSION TDD-TPC-DownlinkStepSize
                                                                                                                                       PRESENCE
    optional },
    . . .
CCTrCH-TPCAddList-RL-ReconfPrepTDD ::= SEOUENCE (SIZE (1..maxNrOfCCTrCHs)) OF CCTrCH-TPCAddItem-RL-ReconfPrepTDD
CCTrCH-TPCAddItem-RL-ReconfPrepTDD ::= SEOUENCE {
    cCTrCH-ID
                                    CCTrCH-ID,
    iE-Extensions
                                    ProtocolExtensionContainer { { CCTrCH-TPCAddItem-RL-ReconfPrepTDD-ExtIEs } } OPTIONAL,
    . . .
}
CCTrCH-TPCAddItem-RL-ReconfPrepTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
```

```
}
DL-CCTrCH-InformationModifyList-RL-ReconfPrepTDD
                                                       := SEOUENCE (SIZE (0..maxNrOfCCTrCHs)) OF ProtocollE-Single-Container { {DL-CCTrCH-
ModifyInformation-RL-ReconfPrepTDD-IEs } }
DL-CCTrCH-ModifyInformation-RL-ReconfPrepTDD-IEs RNSAP-PROTOCOL-IES ::= {
    { ID id-DL-CCTrCH-InformationModifyItem-RL-ReconfPrepTDD CRITICALITY notify TYPE DL-CCTrCH-InformationModifyItem-RL-ReconfPrepTDD
    PRESENCE mandatory }
}
DL-CCTrCH-InformationModifyItem-RL-ReconfPrepTDD ::= SEQUENCE {
    cCTrCH-ID
                               CCTrCH-ID,
    tFCS
                              TFCS
                                           OPTIONAL.
    tFCI-Coding
                             TFCI-Coding
                                                        OPTIONAL.
                              PunctureLimit
    punctureLimit
                                                                OPTIONAL.
    cCTrCH-TPCList
                                   CCTrCH-TPCModifyList-RL-ReconfPrepTDD
                                                                                OPTIONAL.
                                   ProtocolExtensionContainer { {DL-CCTrCH-InformationModifyItem-RL-ReconfPrepTDD-ExtIEs } } OPTIONAL,
    iE-Extensions
    . . .
DL-CCTrCH-InformationModifyItem-RL-ReconfPrepTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    { ID id-TDD-TPC-DownlinkStepSize-InformationModify-RL-ReconfPrepTDD CRITICALITY reject
                                                                                                                TDD-TPC-DownlinkStepSize
                                                                                                EXTENSION
        PRESENCE optional },
    . . .
CCTrCH-TPCModifyList-RL-ReconfPrepTDD ::= SEOUENCE (SIZE (1..maxNrOfCCTrCHs)) OF CCTrCH-TPCModifyItem-RL-ReconfPrepTDD
CCTrCH-TPCModifyItem-RL-ReconfPrepTDD ::= SEQUENCE {
    cCTrCH-ID
                                   CCTrCH-ID,
                                    ProtocolExtensionContainer { { CCTrCH-TPCModifyItem-RL-ReconfPrepTDD-ExtIEs } } OPTIONAL,
    iE-Extensions
    . . .
CCTrCH-TPCModifvItem-RL-ReconfPrepTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
DL-CCTrCH-InformationDeleteList-RL-ReconfPrepTDD
                                                      := SEQUENCE (SIZE (0..maxNrOfCCTrCHs)) OF Protocolle-Single-Container { {DL-CCTrCH-
DeleteInformation-RL-ReconfPrepTDD-IEs } }
DL-CCTrCH-DeleteInformation-RL-ReconfPrepTDD-IEs RNSAP-PROTOCOL-IES ::= ·
    { ID id-DL-CCTrCH-InformationDeleteItem-RL-ReconfPrepTDD CRITICALITY notify TYPE DL-CCTrCH-InformationDeleteItem-RL-ReconfPrepTDD
    PRESENCE mandatory }
}
DL-CCTrCH-InformationDeleteItem-RL-ReconfPrepTDD ::= SEQUENCE {
    cCTrCH-ID
                               CCTrCH-ID,
   iE-Extensions
                                    ProtocolExtensionContainer { {DL-CCTrCH-InformationDeleteItem-RL-ReconfPrepTDD-ExtIEs } } OPTIONAL,
    . . .
}
DL-CCTrCH-InformationDeleteItem-RL-ReconfPrepTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
```

```
}
DCH-DeleteList-RL-ReconfPrepTDD
                                            ::= SEQUENCE (SIZE (0..maxNrOfDCHs)) OF DCH-DeleteItem-RL-ReconfPrepTDD
DCH-DeleteItem-RL-ReconfPrepTDD ::= SEQUENCE {
    dCH-TD
                                DCH-ID,
                                ProtocolExtensionContainer { {DCH-DeleteItem-RL-ReconfPrepTDD-ExtIEs} } OPTIONAL,
    iE-Extensions
    . . .
}
DCH-DeleteItem-RL-ReconfPrepTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
}
DSCH-ModifyList-RL-ReconfPrepTDD ::= SEQUENCE (SIZE(0..maxNoOfDSCHs)) OF DSCH-ModifyItem-RL-ReconfPrepTDD
DSCH-ModifyItem-RL-ReconfPrepTDD ::= SEQUENCE {
    dSCH-ID
                                        DSCH-ID,
    dl-ccTrCHID
                                        CCTrCH-ID
                                                                         OPTIONAL,
    trChSourceStatisticsDescriptor
                                        TrCH-SrcStatisticsDescr OPTIONAL,
    transportFormatSet
                                        TransportFormatSet
                                                                         OPTIONAL,
    allocationRetentionPriority
                                        AllocationRetentionPriority
                                                                         OPTIONAL,
    schedulingPriorityIndicator
                                        SchedulingPriorityIndicator
                                                                         OPTIONAL,
    bLER
                                        BLER
                                                                         OPTIONAL,
                                        TransportBearerRequestIndicator,
    transportBearerRequestIndicator
    iE-Extensions
                                    ProtocolExtensionContainer { {DSCH-ModifyItem-RL-ReconfPrepTDD-ExtIEs } } OPTIONAL,
    . . .
DSCH-ModifyItem-RL-ReconfPrepTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    { ID id-TrafficClass
                                            CRITICALITY ignore EXTENSION TrafficClass
                                                                                                                                                 }|
                                                                                                                          PRESENCE optional
    { ID id-BindingID
                                            CRITICALITY ignore
                                                                     EXTENSION
                                                                                 BindingID
                                                                                                            PRESENCE optional
                                                                                                                                 }|
    -- Shall be ignored if bearer establishment with ALCAP.
    { ID id-TransportLayerAddress
                                            CRITICALITY iqnore
                                                                                 TransportLayerAddress
                                                                                                                  PRESENCE optional
                                                                     EXTENSION
                                                                                                                                         }|
    -- Shall be ignored if bearer establishment with ALCAP.
    { ID id-TnlOos
                                            CRITICALITY ignore
                                                                     EXTENSION
                                                                                 Tnl0os
                                                                                                                          PRESENCE optional
                                                                                                                                                 },
    -- Shall be ignored if bearer establishment with ALCAP.
    . . .
DSCH-DeleteList-RL-ReconfPrepTDD ::= SEQUENCE (SIZE(0..maxNoOfDSCHs)) OF DSCH-DeleteItem-RL-ReconfPrepTDD
DSCH-DeleteItem-RL-ReconfPrepTDD ::= SEQUENCE {
    dSCH-TD
                                        DSCH-ID,
    iE-Extensions
                                    ProtocolExtensionContainer { {DSCH-DeleteItem-RL-ReconfPrepTDD-ExtIEs} } OPTIONAL.
    . . .
DSCH-DeleteItem-RL-ReconfPrepTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
}
USCH-ModifyList-RL-ReconfPrepTDD ::= SEQUENCE (SIZE(0..maxNoOfUSCHs)) OF USCH-ModifyItem-RL-ReconfPrepTDD
```

transportFormatSet Transport allocationRetentionPriority Allocation schedulingPriorityIndicator Scheduling bLER BLER	StatisticsDescr OPTION tFormatSet onRetentionPriority ngPriorityIndicator	OPTIONAL, OPTIONAL, OPTIONAL, OPTIONAL,						
rb-Info RB-Info	tBearerRequestIndicato ExtensionContainer { {	OPTIONAL,	ReconfPrepTDD-ExtIEs}	} OPTIONAL,				
}								
{ ID id-BindingID CRITICALITY : Shall be ignored if bearer establishment :	ignore EXTENSION Traf ignore EXTENSION Bi with ALCAP.	ndingID PRESENCE	PRESENCE optional optional ayerAddress	}   }   PRESENCE	optional }			
Shall be ignored if bearer establishment	with ALCAP.	-	-					
{ ID id-TnlQos CRITICAL	ITY ignore EX	TENSION TnlQos	PRESENCE	optional	},			
}								
USCH-DeleteList-RL-ReconfPrepTDD ::= SEQUENCE (S	IZE(0maxNoOfUSCHs))	OF USCH-DeleteItem-R	RL-ReconfPrepTDD					
USCH-DeleteItem-RL-ReconfPrepTDD ::= SEQUENCE { uSCH-ID USCH-ID, iE-Extensions ProtocolExtensionContainer { {USCH-DeleteItem-RL-ReconfPrepTDD-ExtIEs} } OPTIONAL,								
}								
USCH-DeleteItem-RL-ReconfPrepTDD-ExtIEs RNSAP-PR	OTOCOL-EXTENSION ::= {							
}								
RadioLinkReconfigurationPrepareTDD-Extensions RN		••- {						
{ ID id-PrimaryCCPCH-RSCP-RL-ReconfPrepTDD			SION PrimaryCCPCH-RSCP	<b>)</b>	PRESENCE optional			
{ ID id-DL-TimeSlot-ISCP-Info-RL-ReconfPrepT	DD CRITIC	ALITY ignore EXTENS	SION DL-TimeSlot-ISCP-	Info	PRESENCE optional			
<pre>}   { ID id-DL-Timeslot-ISCP-LCR-Information-RL-] }</pre>	ReconfPrepTDD CRITIC	ALITY ignore EXTENS	SION DL-TimeSlot-ISCP-	LCR-Information	PRESENCE optional			
<pre>}  { ID id-HSDSCH-TDD-Information { ID id-HSDSCH-Information-to-Modify entional}</pre>		5	SION HSDSCH-TDD-Inform SION HSDSCH-Informatic		CE optional}  PRESENCE			
{ ID id-HSDSCH-MACdFlows-to-Delete	CRITICALITY reject CRITICALITY reject CRITICALITY reject		MACdFlows-Information MACdFlows-to-Delete		CE optional}  CE optional}			
{ ID id-PDSCH-RL-ID	CRITICALITY ignore	EXTENSION RL-ID						
PRESENCE optional }  { ID id-UL-Synchronisation-Parameters-LCR { }	CRITICALITY ignore	EXTENSION UL-Synch	nronisation-Parameters	-LCR	PRESENCE optional			

-- Mandatory for 1.28Mcps TDD, Not Applicable to 3.84Mcps TDD or 7.68Mcps TDD ID id-RL-Information-RL-ReconfPrepTDD CRITICALITY ignore EXTENSION RL-Information-RL-ReconfPrepTDD PRESENCE optional ID id-PrimaryCCPCH-RSCP-Delta CRITICALITY ignore EXTENSION PrimaryCCPCH-RSCP-Delta PRESENCE optional }| ID id-E-DCH-Information-Reconfig EXTENSION E-DCH-Information-Reconfig PRESENCE optional CRITICALITY reject ID id-E-DCH-Serving-RL-ID CRITICALITY reject EXTENSION RL-ID PRESENCE optional ID id-E-DCH-768-Information-Reconfig CRITICALITY reject EXTENSION E-DCH-768-Information-Reconfig PRESENCE optional ID id-E-DCH-LCR-Information-Reconfig CRITICALITY reject EXTENSION E-DCH-LCR-Information-Reconfig PRESENCE optional NeedforIdleInterval ID id-NeedforIdleInterval CRITICALITY ignore EXTENSION PRESENCE optional } { ID id-CPC-InformationLCR CRITICALITY reject EXTENSION CPC-InformationLCR PRESENCE optional }| { ID id-RNTI-Allocation-Indicator CRITICALITY ignore EXTENSION RNTI-Allocation-Indicator PRESENCE optional } { ID id-DCH-MeasurementType-Indicator CRITICALITY reject EXTENSION DCH-MeasurementType-Indicator PRESENCE optional }, . . . RL-Information-RL-ReconfPrepTDD ::= SEQUENCE (SIZE (1..maxNrOfRLs)) OF RL-InformationIE-RL-ReconfPrepTDD RL-InformationIE-RL-ReconfPrepTDD ::= SEOUENCE { rL-ID RL-ID, rL-Specific-DCH-Info RL-Specific-DCH-Info OPTIONAL, ProtocolExtensionContainer { { RL-InformationIE-RL-ReconfPrepTDD-ExtIEs } } iE-Extensions OPTIONAL, . . . } RL-InformationIE-RL-ReconfPrepTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= { . . . - --- RADIO LINK RECONFIGURATION READY FDD RadioLinkReconfigurationReadyFDD ::= SEQUENCE { protocolIEs ProtocolIE-Container {RadioLinkReconfigurationReadyFDD-IEs}}, ProtocolExtensionContainer {{RadioLinkReconfigurationReadyFDD-Extensions}} protocolExtensions OPTIONAL, . . . } RadioLinkReconfigurationReadvFDD-IEs RNSAP-PROTOCOL-IES ::= { { ID id-RL-InformationResponseList-RL-ReconfReadyFDD CRITICALITY ignore TYPE RL-InformationResponseList-RL-ReconfReadyFDD PRESENCE optional } | { ID id-CriticalityDiagnostics CRITICALITY ignore TYPE CriticalityDiagnostics PRESENCE optional }, . . .

```
::= SEQUENCE (SIZE (0..maxNrOfRLs)) OF ProtocolIE-Single-Container { {RL-InformationResponse-
RL-InformationResponseList-RL-ReconfReadyFDD
RL-ReconfReadyFDD-IEs } }
RL-InformationResponse-RL-ReconfReadyFDD-IEs RNSAP-PROTOCOL-IES ::= {
    { ID id-RL-InformationResponseItem-RL-ReconfReadyFDD CRITICALITY ignore TYPE RL-InformationResponseItem-RL-ReconfReadyFDD
    PRESENCE mandatory }
RL-InformationResponseItem-RL-ReconfReadyFDD ::= SEQUENCE
    rL-ID
                                        RL-ID,
    max-UL-SIR
                                        UL-SIR
                                                                                                                                 OPTIONAL,
    min-UL-SIR
                                        UL-SIR
                                                                                                                                 OPTIONAL,
    maximumDLTxPower
                                        DL-Power
                                                                                                                                 OPTIONAL,
    minimumDLTxPower
                                        DL-Power
                                                                                                                                 OPTIONAL,
    not-Used-secondary-CCPCH-Info
                                        NULL
                                                                                                                                 OPTIONAL,
    dl-CodeInformationList
                                        DL-CodeInformationList-RL-ReconfReadyFDD
                                                                                                                                 OPTIONAL,
    dCHInformationResponse
                                        DCH-InformationResponseList-RL-ReconfReadyFDD
                                                                                                                                 OPTIONAL,
    not-Used-dSCHsToBeAddedOrModified
                                       NULL
                                                                                                                                 OPTIONAL,
    iE-Extensions
                                        ProtocolExtensionContainer { {RL-InformationResponseItem-RL-ReconfReadyFDD-ExtIEs } }
                                                                                                                                 OPTIONAL,
    . . .
RL-InformationResponseItem-RL-ReconfReadyFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    { ID id-DL-PowerBalancing-UpdatedIndicator
                                                        CRITICALITY ignore EXTENSION DL-PowerBalancing-UpdatedIndicator
    PRESENCE optional }
    { ID id-Primary-CPICH-Usage-For-Channel-Estimation CRITICALITY ignore EXTENSION Primary-CPICH-Usage-For-Channel-Estimation
                                                                                                                                        PRESENCE
optional }|
    { ID id-Secondary-CPICH-Information-Change
                                                        CRITICALITY ignore EXTENSION Secondary-CPICH-Information-Change
    PRESENCE optional }|
    { ID id-EDCH-FDD-InformationResponse
                                                        CRITICALITY ignore EXTENSION EDCH-FDD-InformationResponse
        PRESENCE optional }
    { ID id-EDCH-RLSet-Id
                                                        CRITICALITY ignore EXTENSION RL-Set-ID
                    PRESENCE optional }|
    { ID id-EDCH-FDD-DL-ControlChannelInformation
                                                        CRITICALITY ignore EXTENSION EDCH-FDD-DL-ControlChannelInformation
    PRESENCE optional }
    { ID id-F-DPCH-SlotFormat
                                                        CRITICALITY ignore EXTENSION F-DPCH-SlotFormat
                PRESENCE optional }
    { ID id-HSDSCH-PreconfigurationInfo
                                                        CRITICALITY ignore EXTENSION HSDSCH-PreconfigurationInfo
        PRESENCE optional }|
    { ID id-Non-Serving-RL-Preconfig-Info
                                                        CRITICALITY ignore EXTENSION Non-Serving-RL-Preconfig-Info
        PRESENCE optional },
DL-CodeInformationList-RL-ReconfReadvFDD ::= ProtocolIE-Single-Container {{ DL-CodeInformationListIEs-RL-ReconfReadvFDD }}
DL-CodeInformationListIEs-RL-ReconfReadyFDD RNSAP-PROTOCOL-IES ::= {
    { ID id-FDD-DL-CodeInformation CRITICALITY ignore TYPE FDD-DL-CodeInformation
                                                                                        PRESENCE mandatory }
                                                            ::= ProtocolIE-Single-Container { {DCH-InformationResponseListIEs-RL-ReconfReadyFDD} }
DCH-InformationResponseList-RL-ReconfReadyFDD
DCH-InformationResponseListIEs-RL-ReconfReadyFDD RNSAP-PROTOCOL-IES ::= {
    { ID id-DCH-InformationResponse
                                       CRITICALITY ignore TYPE DCH-InformationResponse
                                                                                                PRESENCE mandatory
```

RadioLinkReconfigurationReadyFDD-Extensions RNSAP-PROTOCOL-EXTENSION ::= { ID id-HSDSCH-RNTI CRITICALITY ignore EXTENSION HSDSCH-RNTI PRESENCE optional } { ID id-HSDSCH-FDD-Information-Response CRITICALITY ignore EXTENSION HSDSCH-FDD-Information-Response PRESENCE optional }| CRITICALITY ignore ID id-MAChs-ResetIndicator EXTENSION MAChs-ResetIndicator PRESENCE optional } ID id-Fast-Reconfiguration-Permission CRITICALITY ignore EXTENSION Fast-Reconfiguration-Permission PRESENCE optional } ID id-Continuous-Packet-Connectivity-HS-SCCH-Less-Information-Response CRITICALITY ignore EXTENSION Continuous-Packet-Connectivity-HS-SCCH-Less-Information-Response PRESENCE optional } { ID id-Additional-HS-Cell-RL-Reconf-Response CRITICALITY ignore EXTENSION Additional-HS-Cell-RL-Reconf-Response PRESENCE optional }| { ID id-Additional-EDCH-Cell-Information-ResponseRLReconf CRITICALITY ignore EXTENSION Additional-EDCH-Cell-Information-Response-RLReconf-List PRESENCE optional }, . . . Additional-HS-Cell-RL-Reconf-Response ::= SEQUENCE (SIZE (1..maxNrOfHSDSCH-1)) OF Additional-HS-Cell-RL-Reconf-Response-ItemIEs Additional-HS-Cell-RL-Reconf-Response-ItemIEs ::=SEQUENCE{ hSPDSCH-RL-ID RL-ID, hSDSCH-RNTI HSDSCH-RNTI, hS-DSCH-FDD-Secondary-Serving-Information-Response HS-DSCH-FDD-Secondary-Serving-Information-Response, iE-Extensions ProtocolExtensionContainer { { Additional-HS-Cell-RL-Reconf-Response-ItemIEs-ExtIEs } } OPTIONAL, . . . Additional-HS-Cell-RL-Reconf-Response-ItemIEs-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= { . . . \*\*\*\*\* - --- RADIO LINK RECONFIGURATION READY TDD \*\*\*\*\* RadioLinkReconfigurationReadyTDD ::= SEQUENCE { {{RadioLinkReconfigurationReadyTDD-IEs}}, protocolIEs ProtocolIE-Container ProtocolExtensionContainer {{RadioLinkReconfigurationReadyTDD-Extensions}} protocolExtensions OPTIONAL, . . . } RadioLinkReconfigurationReadyTDD-IEs RNSAP-PROTOCOL-IES ::= { { ID id-RL-InformationResponse-RL-ReconfReadyTDD CRITICALITY ignore TYPE RL-InformationResponse-RL-ReconfReadyTDD PRESENCE optional } | --This RL-InformationResponse-RL-ReconfReadyTDD is for the first RL repetition in the list. --Repetitions 2 and on are defined in Multiple-RL-InformationResponse-RL-ReconfReadyTDD. { ID id-CriticalityDiagnostics CRITICALITY ignore TYPE CriticalityDiagnostics PRESENCE optional }, . . .

```
RL-InformationResponse-RL-ReconfReadyTDD ::= SEQUENCE {
    rL-ID
                                    RL-ID.
    max-UL-SIR
                                    UL-SIR
                                                     OPTIONAL.
    min-UL-SIR
                                    UL-SIR
                                                    OPTIONAL,
    maximumDLTxPower
                                    DL-Power
                                                    OPTIONAL,
    minimumDLTxPower
                                    DL-Power
                                                    OPTIONAL,
                                    Secondary-CCPCH-Info-TDD
    secondary-CCPCH-Info-TDD
                                                                OPTIONAL,
    ul-CCTrCH-Information
                                    UL-CCTrCH-InformationList-RL-ReconfReadyTDD
                                                                                     OPTIONAL.
    dl-CCTrCH-Information
                                    DL-CCTrCH-InformationList-RL-ReconfReadyTDD OPTIONAL,
    dCHInformationResponse
                                    DCH-InformationResponseList-RL-ReconfReadyTDD OPTIONAL,
    dSCHsToBeAddedOrModified
                                    DSCHToBeAddedOrModified-RL-ReconfReadyTDD OPTIONAL,
                                    USCHToBeAddedOrModified-RL-ReconfReadyTDD
    uSCHsToBeAddedOrModified
                                                                                 OPTIONAL,
                                    ProtocolExtensionContainer { {RL-InformationResponse-RL-ReconfReadyTDD-ExtIEs } }
    iE-Extensions
                                                                                                                         OPTIONAL.
    . . .
RL-InformationResponse-RL-ReconfReadyTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::=
    { ID id-UL-TimingAdvanceCtrl-LCR
                                                            CRITICALITY ignore EXTENSION UL-TimingAdvanceCtrl-LCR
    PRESENCE optional }|
    --For 1.28Mcps TDD only
    { ID id-secondary-LCR-CCPCH-Info-TDD
                                                             CRITICALITY ignore EXTENSION Secondary-LCR-CCPCH-Info-TDD
                                                                                                                                         PRESENCE
optional }|
    --For 1.28Mcps TDD only
    { ID id-secondary-CCPCH-Info-RL-ReconfReadyTDD768
                                                             CRITICALITY ignore EXTENSION Secondary-CCPCH-Info-TDD768
                                                                                                                                         PRESENCE
optional }|
    { ID id-UARFCNforNt
                                                             CRITICALITY ignore EXTENSION UARFCN
                                                                                                                                         PRESENCE
optional },
    -- Applicable to 1.28Mcps TDD only
    . . .
3
UL-CCTrCH-InformationList-RL-ReconfReadyTDD
                                                    ::= ProtocolIE-Single-Container {{UL-CCTrCHInformationListIEs-RL-ReconfReadyTDD}}
UL-CCTrCHInformationListIEs-RL-ReconfReadyTDD RNSAP-PROTOCOL-IES ::= {
    { ID id-UL-CCTrCH-InformationListIE-RL-ReconfReadvTDD CRITICALITY ignore TYPE UL-CCTrCHInformationListIE-RL-ReconfReadvTDD
    PRESENCE mandatory }
}
UL-CCTrCHInformationListIE-RL-ReconfReadyTDD ::= SEOUENCE (SIZE (0..maxNrOfCCTrCHs)) OF UL-CCTrCH-InformationItem-RL-ReconfReadyTDD
UL-CCTrCH-InformationItem-RL-ReconfReadyTDD ::= SEQUENCE {
    cCTrCH-ID
                                    CCTrCH-ID.
    ul-DPCH-AddInformation
                                    UL-DPCH-InformationAddList-RL-ReconfReadyTDD
                                                                                             OPTIONAL,
    --For 3.84Mcps TDD only
    ul-DPCH-ModifyInformation
                                    UL-DPCH-InformationModifvList-RL-ReconfReadvTDD
                                                                                                 OPTIONAL.
                                    UL-DPCH-InformationDeleteList-RL-ReconfReadyTDD
    ul-DPCH-DeleteInformation
                                                                                                 OPTIONAL,
                                    ProtocolExtensionContainer { { UL-CCTrCH-InformationItem-RL-ReconfReadvTDD-ExtIEs } } OPTIONAL.
    iE-Extensions
    . . .
UL-CCTrCH-InformationItem-RL-ReconfReadyTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    { ID id-UL-DPCH-LCR-InformationAddListIE-RL-ReconfReadyTDD
                                                                    CRITICALITY ignore
                                                                                             EXTENSION UL-DPCH-LCR-InformationAddList-RL-
ReconfReadyTDD
                   PRESENCE optional }|
    --For 1.28Mcps TDD only
```

```
{ ID id-UL-DPCH-InformationAddListIE-RL-ReconfReadyTDD768
                                                                     CRITICALITY ignore
                                                                                              EXTENSION UL-DPCH-InformationAddList-RL-
ReconfReadyTDD768
                        PRESENCE optional },
    --For 7.68Mcps TDD only
    . . .
3
UL-DPCH-LCR-InformationAddList-RL-ReconfReadyTDD ::= SEQUENCE {
    repetitionPeriod
                                    RepetitionPeriod,
    repetitionLength
                                    RepetitionLength,
                                    TDD-DPCHOffset,
    tDD-DPCHOffset
    uL-TimeslotLCR-Info
                                    UL-TimeslotLCR-Information,
                                    ProtocolExtensionContainer { {UL-DPCH-LCR-InformationAddItem-RL-ReconfReadyTDD-ExtIEs } } OPTIONAL,
    iE-Extensions
    . . .
UL-DPCH-LCR-InformationAddItem-RL-ReconfReadyTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
UL-DPCH-InformationAddList-RL-ReconfReadyTDD ::= ProtocolIE-Single-Container {{UL-DPCH-InformationAddListIEs-RL-ReconfReadyTDD}}
UL-DPCH-InformationAddListIEs-RL-ReconfReadyTDD RNSAP-PROTOCOL-IES ::= {
    { ID id-UL-DPCH-InformationAddListIE-RL-ReconfReadyTDD CRITICALITY ignore TYPE UL-DPCH-InformationAddListIE-RL-ReconfReadyTDD
    PRESENCE optional
}
UL-DPCH-InformationAddListIE-RL-ReconfReadyTDD ::= SEQUENCE {
    repetitionPeriod
                                    RepetitionPeriod,
                                    RepetitionLength,
    repetitionLength
                                    TDD-DPCHOffset,
    tDD-DPCHOffset
    rxTimingDeviationForTA
                                    RxTimingDeviationForTA
                                                                     OPTIONAL,
    uL-Timeslot-Information
                                    UL-Timeslot-Information,
    iE-Extensions
                                    ProtocolExtensionContainer { {UL-DPCH-InformationAddItem-RL-ReconfReadyTDD-ExtIEs } } OPTIONAL,
    . . .
UL-DPCH-InformationAddItem-RL-ReconfReadyTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    { ID id-RxTimingDeviationForTAext
                                            CRITICALITY ignore
                                                                                                                   PRESENCE optional },
                                                                     EXTENSION RxTimingDeviationForTAext
    . . .
}
UL-DPCH-InformationAddList-RL-ReconfReadyTDD768 ::= SEQUENCE {
    repetitionPeriod
                                    RepetitionPeriod,
    repetitionLength
                                    RepetitionLength,
    tDD-DPCHOffset
                                    TDD-DPCHOffset,
    rxTimingDeviationForTA768
                                        RxTimingDeviationForTA768
                                                                             OPTIONAL.
    uL-Timeslot-Information768
                                        UL-Timeslot-Information768,
    iE-Extensions
                                    ProtocolExtensionContainer { { UL-DPCH-InformationAddItem-RL-ReconfReadyTDD768-ExtIEs } } OPTIONAL,
    . . .
UL-DPCH-InformationAddItem-RL-ReconfReadyTDD768-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
```

UL-DPCH-InformationModifyList-RL-ReconfReadyTDD ::= ProtocolIE-Single-Container {{UL-DPCH-InformationModifyListIEs-RL-ReconfReadyTDD} UL-DPCH-InformationModifyListIEs-RL-ReconfReadyTDD RNSAP-PROTOCOL-IES ::= { { ID id-UL-DPCH-InformationModifyListIE-RL-ReconfReadyTDD CRITICALITY ignore TYPE UL-DPCH-InformationModifyListIE-RL-ReconfReadyTDD PRESENCE mandatory } UL-DPCH-InformationModifyListIE-RL-ReconfReadyTDD::= SEQUENCE { RepetitionPeriod repetitionPeriod OPTIONAL. repetitionLength RepetitionLength OPTIONAL, tDD-DPCHOffset TDD-DPCHOffset OPTIONAL, uL-Timeslot-InformationModifyList-RL-ReconfReadyTDD UL-Timeslot-InformationModifyList-RL-ReconfReadyTDD OPTIONAL --For 3.84Mcps TDD only iE-Extensions ProtocolExtensionContainer { { UL-DPCH-InformationModifyItem-RL-ReconfReadyTDD-ExtIEs } } OPTIONAL, . . . UL-DPCH-InformationModifyItem-RL-ReconfReadyTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= { { ID id-UL-Timeslot-LCR-InformationModifyList-RL-ReconfReadyTDD CRITICALITY ignore EXTENSION UL-TimeslotLCR-InformationModifyList-RL-ReconfReadyTDD PRESENCE optional }| --For 1.28Mcps TDD only { ID id-UL-Timeslot-InformationModifyList-RL-ReconfReadyTDD768 CRITICALITY ignore EXTENSION UL-Timeslot-InformationModifyList-RL-PRESENCE optional }. ReconfReadvTDD768 --For 7.68Mcps TDD only . . . } UL-TimeslotLCR-InformationModifyList-RL-ReconfReadyTDD::= SEOUENCE ( SIZE (1..maxNrOfTsLCR)) OF UL-TimeslotLCR-InformationModifyItem-RL-ReconfReadyTDD UL-TimeslotLCR-InformationModifyItem-RL-ReconfReadyTDD ::= SEQUENCE { timeSlotLCR TimeSlotLCR, midambleShiftLCR MidambleShiftLCR OPTIONAL, tFCI-Presence TFCI-Presence OPTIONAL, tDD-uL-Code-LCR-Information TDD-UL-Code-LCR-InformationModifyList-RL-ReconfReadyTDD OPTIONAL, iE-Extensions ProtocolExtensionContainer { {UL-TimeslotLCR-InformationModifyItem-RL-ReconfReadyTDD-ExtIEs} } OPTIONAL, TDD-UL-Code-LCR-InformationModifyList-RL-ReconfReadyTDD::= SEQUENCE ( SIZE (1..maxNrOfDPCHsLCR)) OF TDD-UL-Code-LCR-InformationModifyItem-RL-ReconfReadyTDD TDD-UL-Code-LCR-InformationModifyItem-RL-ReconfReadyTDD ::= SEQUENCE { dPCH-ID DPCH-ID, tDD-ChannelisationCodeLCR TDD-ChannelisationCodeLCR OPTIONAL, iE-Extensions ProtocolExtensionContainer { {TDD-UL-Code-LCR-InformationModifvItem-RL-ReconfReadvTDD-ExtIEs} } OPTIONAL. . . . TDD-UL-Code-LCR-InformationModifyItem-RL-ReconfReadyTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= { { ID id-TDD-UL-DPCH-TimeSlotFormatModifyItem-LCR-RL-ReconfReadyTDD CRITICALITY reject EXTENSION TDD-UL-DPCH-TimeSlotFormat-LCR

PRESENCE optional },

. . .

```
UL-TimeslotLCR-InformationModifyItem-RL-ReconfReadyTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
}
UL-Timeslot-InformationModifyList-RL-ReconfReadyTDD::= SEQUENCE ( SIZE (1..maxNrOfTS)) OF UL-Timeslot-InformationModifyItem-RL-ReconfReadyTDD
UL-Timeslot-InformationModifyItem-RL-ReconfReadyTDD ::= SEQUENCE {
    timeSlot
                                    TimeSlot,
    midambleShiftAndBurstType
                                                MidambleShiftAndBurstType
                                                                                     OPTIONAL,
    tFCI-Presence
                                    TFCI-Presence
                                                             OPTIONAL,
    uL-Code-Information
                                TDD-UL-Code-InformationModifyList-RL-ReconfReadyTDD
                                                                                             OPTIONAL.
    iE-Extensions
                                    ProtocolExtensionContainer { {UL-Timeslot-InformationModifyItem-RL-ReconfReadyTDD-ExtIEs} } OPTIONAL,
    . . .
UL-Timeslot-InformationModifyItem-RL-ReconfReadyTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
3
TDD-UL-Code-InformationModifyList-RL-ReconfReadyTDD::= SEQUENCE (SIZE (1..maxNrOfDPCHs)) OF TDD-UL-Code-InformationModifyItem-RL-ReconfReadyTDD
TDD-UL-Code-InformationModifyItem-RL-ReconfReadyTDD ::= SEQUENCE {
    dPCH-ID
                                    DPCH-ID,
    tDD-ChannelisationCode
                                    TDD-ChannelisationCode
                                                                 OPTIONAL.
                                    ProtocolExtensionContainer { { TDD-UL-Code-InformationModifyItem-RL-ReconfReadyTDD-ExtIEs } } OPTIONAL,
    iE-Extensions
    . . .
}
TDD-UL-Code-InformationModifyItem-RL-ReconfReadyTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
UL-Timeslot-InformationModifyList-RL-ReconfReadyTDD768::= SEQUENCE (SIZE (1..maxNrOfTS)) OF UL-Timeslot-InformationModifyItem-RL-ReconfReadyTDD768
UL-Timeslot-InformationModifyItem-RL-ReconfReadyTDD768 ::= SEQUENCE {
    timeSlot
                                    TimeSlot,
                                    MidambleShiftAndBurstType768
    midambleShiftAndBurstType768
                                                                             OPTIONAL,
    tFCI-Presence
                                    TFCI-Presence
                                                             OPTIONAL,
                                    TDD-UL-Code-InformationModifyList-RL-ReconfReadyTDD768
    uL-Code-Information768
                                                                                                 OPTIONAL,
                                    ProtocolExtensionContainer { {UL-Timeslot-InformationModifyItem-RL-ReconfReadyTDD768-ExtIEs} } OPTIONAL,
    iE-Extensions
    . . .
UL-Timeslot-InformationModifyItem-RL-ReconfReadyTDD768-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
}
TDD-UL-Code-InformationModifyList-RL-ReconfReadyTDD768::= SEQUENCE (SIZE (1..maxNrOfDPCHs768)) OF TDD-UL-Code-InformationModifyItem-RL-
ReconfReadyTDD768
TDD-UL-Code-InformationModifyItem-RL-ReconfReadyTDD768 ::= SEQUENCE {
    dPCH-ID
                                    DPCH-ID,
```

```
tDD-ChannelisationCode768
                                    TDD-ChannelisationCode768
                                                                    OPTIONAL,
    iE-Extensions
                                    ProtocolExtensionContainer { {TDD-UL-Code-InformationModifyItem-RL-ReconfReadyTDD768-ExtIEs} } OPTIONAL,
    . . .
TDD-UL-Code-InformationModifyItem-RL-ReconfReadyTDD768-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
UL-DPCH-InformationDeleteList-RL-ReconfReadyTDD ::= ProtocolIE-Single-Container {{UL-DPCH-InformationDeleteListIEs-RL-ReconfReadyTDD}}
UL-DPCH-InformationDeleteListIEs-RL-ReconfReadyTDD RNSAP-PROTOCOL-IES ::= {
    { ID id-UL-DPCH-InformationDeleteListIE-RL-ReconfReadyTDD CRITICALITY ignore TYPE UL-DPCH-InformationDeleteListIE-RL-ReconfReadyTDD
    PRESENCE mandatory }
}
UL-DPCH-InformationDeleteListIE-RL-ReconfReadyTDD ::= SEQUENCE (SIZE (0..maxNrOfDPCHs)) OF UL-DPCH-InformationDeleteItem-RL-ReconfReadyTDD
UL-DPCH-InformationDeleteItem-RL-ReconfReadyTDD ::= SEQUENCE {
    dPCH-TD
                                DPCH-ID,
                                    ProtocolExtensionContainer { { UL-DPCH-InformationDeleteList-RL-ReconfReadyTDD-ExtIEs } } OPTIONAL,
    iE-Extensions
    . . .
UL-DPCH-InformationDeleteList-RL-ReconfReadyTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
                                                    ::= ProtocollE-Single-Container {{DL-CCTrCHInformationListlEs-RL-ReconfReadyTDD}}
DL-CCTrCH-InformationList-RL-ReconfReadyTDD
DL-CCTrCHInformationListIEs-RL-ReconfReadyTDD RNSAP-PROTOCOL-IES ::= {
    { ID id-DL-CCTrCH-InformationListIE-RL-ReconfReadyTDD CRITICALITY ignore TYPE DL-CCTrCHInformationListIE-RL-ReconfReadyTDD
    PRESENCE mandatory }
}
DL-CCTrCHInformationListIE-RL-ReconfReadyTDD ::= SEQUENCE (SIZE (0..maxNrOfCCTrCHs)) OF DL-CCTrCH-InformationItem-RL-ReconfReadyTDD
DL-CCTrCH-InformationItem-RL-ReconfReadyTDD ::= SEQUENCE {
    cCTrCH-ID
                                    CCTrCH-ID,
    dl-DPCH-AddInformation
                                    DL-DPCH-InformationAddList-RL-ReconfReadyTDD
                                                                                            OPTIONAL,
    --For 3.84Mcps TDD only
    dl-DPCH-ModifyInformation
                                    DL-DPCH-InformationModifyList-RL-ReconfReadyTDD
                                                                                            OPTIONAL,
                                    DL-DPCH-InformationDeleteList-RL-ReconfReadyTDD
    dl-DPCH-DeleteInformation
                                                                                            OPTIONAL,
                                    ProtocolExtensionContainer { {DL-CCTrCH-InformationItem-RL-ReconfReadvTDD-ExtIEs } } OPTIONAL.
    iE-Extensions
    . . .
DL-CCTrCH-InformationItem-RL-ReconfReadyTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    { ID id-DL-DPCH-LCR-InformationAddListIE-RL-ReconfReadyTDD CRITICALITY ignore
                                                                                             EXTENSION
                                                                                                           DL-DPCH-LCR-InformationAddList-RL-
ReconfReadyTDD
                    PRESENCE optional }
    --For 1.28Mcps TDD only
    { ID id-CCTrCH-Maximum-DL-Power-RL-ReconfReadyTDD
                                                                    CRITICALITY ignore
                                                                                             EXTENSION DL-Power
    PRESENCE optional }|
```

```
-- Applicable to 3.84Mcps TDD and 7.68Mcps TDD only, this is a DCH type CCTrCH power
    { ID id-CCTrCH-Minimum-DL-Power-RL-ReconfReadvTDD
                                                                     CRITICALITY ignore
                                                                                             EXTENSION DL-Power
    PRESENCE optional }|
    -- Applicable to 3.84Mcps TDD and 7.68Mcps TDD only, this is a DCH type CCTrCH power
    { ID id-DL-DPCH-InformationAddListIE-RL-ReconfReadyTDD768
                                                                     CRITICALITY ignore
                                                                                             EXTENSION DL-DPCH-InformationAddList-RL-
ReconfReadyTDD768
                                        PRESENCE optional }
    --For 7.68Mcps TDD only
    { ID id-DL-DPCH-InformationDeleteList768-RL-ReconfReadyTDD
                                                                     CRITICALITY ignore
                                                                                             EXTENSION DL-DPCH-InformationDeleteList768-RL-
ReconfReadyTDD
                    PRESENCE optional },
    . . .
DL-DPCH-LCR-InformationAddList-RL-ReconfReadyTDD ::= SEQUENCE {
    repetitionPeriod
                                    RepetitionPeriod.
    repetitionLength
                                    RepetitionLength,
    tDD-DPCHOffset
                                    TDD-DPCHOffset,
    dL-TimeslotLCR-Info
                                    DL-TimeslotLCR-Information,
                                    ProtocolExtensionContainer { {DL-DPCH-LCR-InformationAddItem-RL-ReconfReadyTDD-ExtIEs } } OPTIONAL,
    iE-Extensions
    . . .
DL-DPCH-LCR-InformationAddItem-RL-ReconfReadyTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
DL-DPCH-InformationAddList-RL-ReconfReadyTDD ::= ProtocollE-Single-Container {{DL-DPCH-InformationAddListIEs-RL-ReconfReadyTDD}}
DL-DPCH-InformationAddListIEs-RL-ReconfReadyTDD RNSAP-PROTOCOL-IES ::= {
    { ID id-DL-DPCH-InformationAddListIE-RL-ReconfReadyTDD CRITICALITY ignore TYPE DL-DPCH-InformationAddListIE-RL-ReconfReadyTDD
    PRESENCE mandatory }
}
DL-DPCH-InformationAddListIE-RL-ReconfReadyTDD ::= SEQUENCE {
                                    RepetitionPeriod,
    repetitionPeriod
    repetitionLength
                                    RepetitionLength,
    tDD-DPCHOffset
                                    TDD-DPCHOffset,
    dL-Timeslot-Information
                                    DL-Timeslot-Information,
                                    ProtocolExtensionContainer { {DL-DPCH-InformationAddItem-RL-ReconfReadyTDD-ExtIEs} } OPTIONAL,
    iE-Extensions
    . . .
DL-DPCH-InformationAddItem-RL-ReconfReadyTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
DL-DPCH-InformationAddList-RL-ReconfReadyTDD768 ::= SEQUENCE {
    repetitionPeriod
                                    RepetitionPeriod,
    repetitionLength
                                    RepetitionLength,
    tDD-DPCHOffset
                                    TDD-DPCHOffset,
    dL-Timeslot-Information768
                                    DL-Timeslot-Information768
    iE-Extensions
                                    ProtocolExtensionContainer { {DL-DPCH-InformationAddItem-RL-ReconfReadyTDD768-ExtIEs } OPTIONAL,
    . . .
```

```
DL-DPCH-InformationAddItem-RL-ReconfReadyTDD768-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
DL-DPCH-InformationModifyList-RL-ReconfReadyTDD ::= ProtocolIE-Single-Container {{DL-DPCH-InformationModifyListIEs-RL-ReconfReadyTDD}
DL-DPCH-InformationModifyListIEs-RL-ReconfReadyTDD RNSAP-PROTOCOL-IES ::= {
    { ID id-DL-DPCH-InformationModifyListIE-RL-ReconfReadyTDD CRITICALITY ignore TYPE DL-DPCH-InformationModifyListIE-RL-ReconfReadyTDD
    PRESENCE mandatory }
}
DL-DPCH-InformationModifyListIE-RL-ReconfReadyTDD ::= SEQUENCE
    repetitionPeriod
                                    RepetitionPeriod
                                                                OPTIONAL
    repetitionLength
                                    RepetitionLength
                                                                OPTIONAL
                                    TDD-DPCHOffset
    tDD-DPCHOffset
                                                                OPTIONAL,
    dL-Timeslot-InformationModifyList-RL-ReconfReadyTDD
                                                                DL-Timeslot-InformationModifyList-RL-ReconfReadyTDD
                                                                                                                                        OPTIONAL,
    --For 3.84Mcps TDD only
                                    ProtocolExtensionContainer { {DL-DPCH-InformationModifyItem-RL-ReconfReadyTDD-ExtIEs} } OPTIONAL,
    iE-Extensions
    . . .
DL-DPCH-InformationModifyItem-RL-ReconfReadyTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    { ID id-DL-Timeslot-LCR-InformationModifyList-RL-ReconfReadyTDD CRITICALITY ignore
                                                                                            EXTENSION DL-TimeslotLCR-InformationModifyList-RL-
ReconfReadvTDD
                    PRESENCE optional }|
    --For 1.28Mcps TDD only
    { ID id-DL-Timeslot-InformationModifyList-RL-ReconfReadyTDD768 CRITICALITY ignore EXTENSION DL-Timeslot-InformationModifyList-RL-
                        PRESENCE optional },
ReconfReadyTDD768
    --For 7.68Mcps TDD only
    . . .
}
DL-TimeslotLCR-InformationModifyList-RL-ReconfReadyTDD::= SEQUENCE ( SIZE (1..maxNrOfTsLCR)) OF DL-TimeslotLCR-InformationModifyItem-RL-
ReconfReadyTDD
DL-TimeslotLCR-InformationModifyItem-RL-ReconfReadyTDD ::= SEQUENCE {
    timeSlotLCR
                                    TimeSlotLCR,
    midambleShiftLCR
                                    MidambleShiftLCR
                                                                OPTIONAL.
    tFCI-Presence
                                    TFCI-Presence
                                                            OPTIONAL,
                                    TDD-DL-Code-LCR-InformationModifyList-RL-ReconfReadyTDD
    tDD-dL-Code-LCR-Information
                                                                                                  OPTIONAL,
    iE-Extensions
                                    ProtocolExtensionContainer { {DL-TimeslotLCR-InformationModifyItem-RL-ReconfReadyTDD-ExtIEs} } OPTIONAL,
    . . .
TDD-DL-Code-LCR-InformationModifyList-RL-ReconfReadyTDD::= SEQUENCE (SIZE (1..maxNrOfDPCHsLCR)) OF TDD-DL-Code-LCR-InformationModifyItem-RL-
ReconfReadvTDD
TDD-DL-Code-LCR-InformationModifvItem-RL-ReconfReadvTDD ::= SEQUENCE {
    JDCH-TD
                                    DPCH-ID,
    tDD-ChannelisationCodeLCR
                                    TDD-ChannelisationCodeLCR
                                                                    OPTIONAL,
    iE-Extensions
                                    ProtocolExtensionContainer { { TDD-DL-Code-LCR-InformationModifyItem-RL-ReconfReadyTDD-ExtIEs } } OPTIONAL,
    . . .
```

TDD-DL-Code-LCR-InformationModifyItem-RL-ReconfReadyTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {

```
{ ID id-TDD-DL-DPCH-TimeSlotFormatModifyItem-LCR-RL-ReconfReadyTDD
                                                                             CRITICALITY reject
                                                                                                           EXTENSION TDD-DL-DPCH-TimeSlotFormat-LCR
        PRESENCE optional },
    . . .
DL-TimeslotLCR-InformationModifyItem-RL-ReconfReadyTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    { ID id-Maximum-DL-Power-TimeslotLCR-InformationModifyItem-RL-ReconfReadyTDD CRITICALITY ignore
                                                                                                          EXTENSION
                                                                                                                      DL-Power
                                                                                                                                         PRESENCE
optional }|
    { ID id-Minimum-DL-Power-TimeslotLCR-InformationModifyItem-RL-ReconfReadyTDD CRITICALITY ignore
                                                                                                          EXTENSION
                                                                                                                      DL-Power
                                                                                                                                         PRESENCE
optional },
    . . .
DL-Timeslot-InformationModifyList-RL-ReconfReadyTDD::= SEQUENCE ( SIZE (1..maxNrOfTS)) OF DL-Timeslot-InformationModifyItem-RL-ReconfReadyTDD
DL-Timeslot-InformationModifyItem-RL-ReconfReadyTDD ::= SEQUENCE
    timeSlot
                                    TimeSlot,
    midambleShiftAndBurstType
                                    MidambleShiftAndBurstType
                                                                         OPTIONAL,
    tFCI-Presence
                                    TFCI-Presence
                                                             OPTIONAL,
                                    TDD-DL-Code-InformationModifyList-RL-ReconfReadyTDD
    dL-Code-Information
                                                                                                 OPTIONAL.
    iE-Extensions
                                    ProtocolExtensionContainer { {DL-Timeslot-InformationModifyItem-RL-ReconfReadyTDD-ExtIEs} } OPTIONAL,
    . . .
DL-Timeslot-InformationModifyItem-RL-ReconfReadyTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
ļ
TDD-DL-Code-InformationModifyList-RL-ReconfReadyTDD::= SEQUENCE (SIZE (1..maxNrOfDPCHs)) OF TDD-DL-Code-InformationModifyItem-RL-ReconfReadyTDD
TDD-DL-Code-InformationModifyItem-RL-ReconfReadyTDD ::= SEQUENCE {
    dPCH-ID
                                    DPCH-ID,
    tDD-ChannelisationCode
                                    TDD-ChannelisationCode
                                                                 OPTIONAL,
                                    ProtocolExtensionContainer { { TDD-DL-Code-InformationModifyItem-RL-ReconfReadyTDD-ExtIEs } } OPTIONAL,
    iE-Extensions
    . . .
TDD-DL-Code-InformationModifyItem-RL-ReconfReadyTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    { ID id-TDD-DL-DPCH-TimeSlotFormatModifyItem-LCR-RL-ReconfReadyTDD CRITICALITY
                                                                                         reject
                                                                                                 EXTENSION TDD-DL-DPCH-TimeSlotFormat-LCR
PRESENCE optional },
    -- This IE shall not be used
    . . .
DL-Timeslot-InformationModifvList-RL-ReconfReadvTDD768::= SEOUENCE (SIZE (1..maxNrOfTS)) OF DL-Timeslot-InformationModifvItem-RL-ReconfReadvTDD768
DL-Timeslot-InformationModifyItem-RL-ReconfReadyTDD768 ::= SEQUENCE {
    timeSlot
                                    TimeSlot,
    midambleShiftAndBurstType768
                                    MidambleShiftAndBurstType768
                                                                             OPTIONAL.
    tFCI-Presence
                                    TFCI-Presence
                                                            OPTIONAL,
    dL-Code-Information768
                                    TDD-DL-Code-InformationModifyList-RL-ReconfReadyTDD768
                                                                                                   OPTIONAL,
                                    ProtocolExtensionContainer { {DL-Timeslot-InformationModifyItem-RL-ReconfReadyTDD768-ExtIEs} } OPTIONAL,
    iE-Extensions
    . . .
```

```
DL-Timeslot-InformationModifyItem-RL-ReconfReadyTDD768-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
TDD-DL-Code-InformationModifyList-RL-ReconfReadyTDD768::= SEOUENCE (SIZE (1..maxNrOfDPCHs768)) OF TDD-DL-Code-InformationModifyItem-RL-
ReconfReadyTDD768
TDD-DL-Code-InformationModifyItem-RL-ReconfReadyTDD768 ::= SEQUENCE {
    dPCH-ID768
                                    DPCH-ID768,
    tDD-ChannelisationCode768
                                    TDD-ChannelisationCode768
                                                                     OPTIONAL,
    iE-Extensions
                                    ProtocolExtensionContainer { { TDD-DL-Code-InformationModifyItem-RL-ReconfReadyTDD768-ExtIEs } } OPTIONAL,
    . . .
TDD-DL-Code-InformationModifyItem-RL-ReconfReadyTDD768-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
DL-DPCH-InformationDeleteList-RL-ReconfReadyTDD ::= ProtocolIE-Single-Container {{DL-DPCH-InformationDeleteListIEs-RL-ReconfReadyTDD}
DL-DPCH-InformationDeleteListIEs-RL-ReconfReadyTDD RNSAP-PROTOCOL-IES ::= {
    { ID id-DL-DPCH-InformationDeleteListIE-RL-ReconfReadyTDD CRITICALITY ignore TYPE DL-DPCH-InformationDeleteListIE-RL-ReconfReadyTDD
    PRESENCE mandatory }
DL-DPCH-InformationDeleteListIE-RL-ReconfReadyTDD ::= SEQUENCE (SIZE (0..maxNrOfDPCHs)) OF DL-DPCH-InformationDeleteItem-RL-ReconfReadyTDD
DL-DPCH-InformationDeleteItem-RL-ReconfReadyTDD ::= SEQUENCE {
                                DPCH-ID,
    dPCH-ID
    iE-Extensions
                                    ProtocolExtensionContainer { {DL-DPCH-InformationDeleteList-RL-ReconfReadyTDD-ExtIEs } } OPTIONAL,
    . . .
DL-DPCH-InformationDeleteList-RL-ReconfReadyTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
DL-DPCH-InformationDeleteList768-RL-ReconfReadyTDD ::= SEQUENCE (SIZE (0..maxNrOfDPCHs768)) OF DL-DPCH-InformationDeleteItem768-RL-ReconfReadyTDD
DL-DPCH-InformationDeleteItem768-RL-ReconfReadyTDD ::= SEQUENCE {
    dPCH-ID768
                                    DPCH-ID768,
                                    ProtocolExtensionContainer { {DL-DPCH-InformationDeleteList768-RL-ReconfReadyTDD-ExtIEs } } OPTIONAL,
    iE-Extensions
    . . .
DL-DPCH-InformationDeleteList768-RL-ReconfReadyTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
DCH-InformationResponseList-RL-ReconfReadyTDD
                                                            ::= ProtocolIE-Single-Container { {DCH-InformationResponseListIEs-RL-ReconfReadyTDD} }
DCH-InformationResponseListIEs-RL-ReconfReadyTDD RNSAP-PROTOCOL-IES ::= {
    { ID id-DCH-InformationResponse
                                        CRITICALITY ignore TYPE DCH-InformationResponse
                                                                                                 PRESENCE mandatory
```

```
DSCHToBeAddedOrModified-RL-ReconfReadyTDD
                                                   ::= ProtocollE-Single-Container { {DSCHToBeAddedOrModifiedIEs-RL-ReconfReadyTDD} }
DSCHToBeAddedOrModifiedIEs-RL-ReconfReadyTDD RNSAP-PROTOCOL-IES ::= {
    { ID id-DSCHToBeAddedOrModifiedList-RL-ReconfReadyTDD CRITICALITY ignore TYPE DSCHToBeAddedOrModifiedList-RL-ReconfReadyTDD
    PRESENCE mandatory
}
DSCHToBeAddedOrModifiedList-RL-ReconfReadyTDD ::= SEQUENCE (SIZE (0..maxNoOfDSCHs)) OF DSCHToBeAddedOrModifiedItem-RL-ReconfReadyTDD
DSCHToBeAddedOrModifiedItem-RL-ReconfReadyTDD ::= SEQUENCE {
                           DSCH-ID.
    dsch-ID
    transportFormatManagement TransportFormatManagement,
    dSCH-FlowControlInformation DSCH-FlowControlInformation,
                           BindingID OPTIONAL,
    bindingID
    transportLayerAddress TransportLayerAddress OPTIONAL,
                           ProtocolExtensionContainer { {DSCHToBeAddedOrModifiedItem-RL-ReconfReadyTDD-ExtIEs} } OPTIONAL,
    iE-Extensions
    . . .
DSCHToBeAddedOrModifiedItem-RL-ReconfReadyTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
USCHToBeAddedOrModified-RL-ReconfReadyTDD
                                                   ::= ProtocolIE-Single-Container { {USCHToBeAddedOrModifiedIEs-RL-ReconfReadyTDD}
}USCHToBeAddedOrModifiedIEs-RL-ReconfReadyTDD RNSAP-PROTOCOL-IES ::= {
    { ID id-USCHToBeAddedOrModifiedList-RL-ReconfReadyTDD CRITICALITY ignore TYPE USCHToBeAddedOrModifiedList-RL-ReconfReadyTDD
    PRESENCE mandatory
}
USCHTOBeAddedOrModifiedList-RL-ReconfReadyTDD ::= SEQUENCE (SIZE (0..maxNoOfUSCHs)) OF USCHTOBeAddedOrModifiedItem-RL-ReconfReadyTDD
USCHToBeAddedOrModifiedItem-RL-ReconfReadyTDD ::= SEQUENCE {
    uSCH-ID
                           USCH-ID,
    transportFormatManagement TransportFormatManagement,
    bindingID
                           BindingID OPTIONAL,
    transportLayerAddress TransportLayerAddress OPTIONAL,
    iE-Extensions
                           ProtocolExtensionContainer { {USCHToBeAddedOrModifiedItem-RL-ReconfReadyTDD-ExtIEs } } OPTIONAL,
    . . .
USCHToBeAddedOrModifiedItem-RL-ReconfReadyTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
RadioLinkReconfigurationReadvTDD-Extensions RNSAP-PROTOCOL-EXTENSION ::=
    { ID id-HSDSCH-RNTI
                                               CRITICALITY ignore
                                                                       EXTENSION HSDSCH-RNTI
    PRESENCE optional }
    { ID id-DSCH-RNTI
                                               CRITICALITY ignore
                                                                       EXTENSION DSCH-RNTI
    PRESENCE optional }
    { ID id-HSDSCH-TDD-Information-Response
                                               CRITICALITY ignore
                                                                       EXTENSION HSDSCH-TDD-Information-Response
                                                                                                                               PRESENCE optional }
     ID id-MAChs-ResetIndicator
                                               CRITICALITY ignore
                                                                       EXTENSION MAChs-ResetIndicator
    PRESENCE optional }|
```

{ ID id-Multiple-RL-InformationResponse-RL-ReconfReadyTDD CRITICALITY iqnore EXTENSION Multiple-RL-InformationResponse-RL-ReconfReadvTDD PRESENCE optional}| -- This is for RL repetitions 2 and on in RL list. ID id-E-DCH-Information-Response CRITICALITY ignore EXTENSION E-DCH-Information-Response PRESENCE optional ID id-E-DCH-768-Information-Response CRITICALITY ignore EXTENSION E-DCH-768-Information-Response PRESENCE optional ID id-E-DCH-LCR-Information-Response CRITICALITY ignore EXTENSION E-DCH-LCR-Information-Response PRESENCE optional ID id-PowerControlGAP CRITICALITY ignore PRESENCE optional }| EXTENSION ControlGAP -- Applicable to 1.28Mcps TDD only ID id-IdleIntervalInformation CRITICALITY ignore EXTENSION IdleIntervalInformation PRESENCE optional } ID id-ContinuousPacketConnectivity-DRX-Information-ResponseLCR CRITICALITY ignore EXTENSION ContinuousPacketConnectivity-DRX-Information-ResponseLCR PRESENCE optional } { ID id-HS-DSCH-Semi-PersistentScheduling-Information-ResponseLCR CRITICALITY ignore EXTENSION HS-DSCH-Semi-PersistentScheduling-PRESENCE optional } Information-ResponseLCR { ID id-E-DCH-Semi-PersistentScheduling-Information-ResponseLCR CRITICALITY ignore EXTENSION E-DCH-Semi-PersistentScheduling-Information-ResponseLCR PRESENCE optional} { ID id-E-RNTI-For-FACH CRITICALITY ignore EXTENSION E-RNTI PRESENCE optional }| { ID id-H-RNTI-For-FACH EXTENSION HSDSCH-RNTI CRITICALITY ignore PRESENCE optional }| { ID id-DCH-MeasurementOccasion-Information CRITICALITY reject EXTENSION DCH-MeasurementOccasion-Information PRESENCE optional }, . . . Multiple-RL-InformationResponse-RL-ReconfReadyTDD ::= SEQUENCE (SIZE (1..maxNrOfRLs-1)) OF RL-InformationResponse-RL-ReconfReadyTDD - --- RADIO LINK RECONFIGURATION COMMIT \*\*\*\*\* RadioLinkReconfigurationCommit ::= SEQUENCE { {{RadioLinkReconfigurationCommit-IEs}}, protocolIEs ProtocolIE-Container ProtocolExtensionContainer {{RadioLinkReconfigurationCommit-Extensions}} protocolExtensions OPTIONAL, . . . RadioLinkReconfigurationCommit-IEs RNSAP-PROTOCOL-IES ::= { ID id-CFN CRITICALITY ignore TYPE CFN PRESENCE mandatory } | ID id-Active-Pattern-Sequence-Information CRITICALITY ignore TYPE Active-Pattern-Sequence-Information PRESENCE optional }, --FDD only . . . RadioLinkReconfigurationCommit-Extensions RNSAP-PROTOCOL-EXTENSION ::= { { ID id-Fast-Reconfiguration-Mode CRITICALITY reject EXTENSION Fast-Reconfiguration-Mode PRESENCE optional }, --FDD only . . . -- RADIO LINK RECONFIGURATION FAILURE \_ \_

```
RadioLinkReconfigurationFailure ::= SEQUENCE
    protocolIEs
                                   ProtocolIE-Container
                                                              {{RadioLinkReconfigurationFailure-IEs}},
    protocolExtensions
                                   ProtocolExtensionContainer {{RadioLinkReconfigurationFailure-Extensions}}
                                                                                                                              OPTIONAL.
    . . .
RadioLinkReconfigurationFailure-IEs RNSAP-PROTOCOL-IES ::= {
     ID id-CauseLevel-RL-ReconfFailure
                                           CRITICALITY ignore TYPE CauseLevel-RL-ReconfFailure PRESENCE mandatory }
     ID id-CriticalityDiagnostics
                                           CRITICALITY ignore TYPE CriticalityDiagnostics
                                                                                                PRESENCE optional },
    . . .
}
CauseLevel-RL-ReconfFailure ::= CHOICE {
    generalCause
                       GeneralCauseList-RL-ReconfFailure,
                       RLSpecificCauseList-RL-ReconfFailure,
    rLSpecificCause
    . . .
GeneralCauseList-RL-ReconfFailure ::= SEQUENCE {
    cause
                                               Cause,
                                               ProtocolExtensionContainer { { GeneralCauseItem-RL-ReconfFailure-ExtIEs } }
    iE-Extensions
    OPTIONAL,
    . . .
GeneralCauseItem-RL-ReconfFailure-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
RLSpecificCauseList-RL-ReconfFailure ::= SEQUENCE {
    rL-ReconfigurationFailureList-RL-ReconfFailure
                                                       RL-ReconfigurationFailureList-RL-ReconfFailure
                                                                                                              OPTIONAL,
                                                       ProtocolExtensionContainer { { RLSpecificCauseItem-RL-ReconfFailure-ExtIEs } }
    iE-Extensions
   OPTIONAL,
    . . .
RLSpecificCauseItem-RL-ReconfFailure-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
3
RL-ReconfigurationFailureList-RL-ReconfFailure ::= SEQUENCE (SIZE (0..maxNrOfRLs)) OF ProtocolIE-Single-Container { {RL-ReconfigurationFailure-RL-
ReconfFailure-IEs } }
RL-ReconfigurationFailure-RL-ReconfFailure-IEs RNSAP-PROTOCOL-IES ::= {
     ID id-RL-ReconfigurationFailure-RL-ReconfFail CRITICALITY ignore TYPE RL-ReconfigurationFailure-RL-ReconfFail
                                                                                                                      PRESENCE mandatory
}
RL-ReconfigurationFailure-RL-ReconfFail ::= SEQUENCE {
    rL-ID
                               RL-ID,
    cause
                               Cause,
    iE-Extensions
                               ProtocolExtensionContainer { {RL-ReconfigurationFailure-RL-ReconfFailure-ExtIEs } } OPTIONAL,
    . . .
```

```
}
RL-ReconfigurationFailure-RL-ReconfFailure-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
   { ID id-Max-UE-DTX-Cycle CRITICALITY ignore EXTENSION Max-UE-DTX-Cycle
                                                                                     PRESENCE conditional },
   -- This IE shall be present if the Cause IE is set to "Continuous Packet Connectivity UE DTX Cycle not Available".
   . . .
RadioLinkReconfigurationFailure-Extensions RNSAP-PROTOCOL-EXTENSION ::= {
   . . .
  *****
_ _
-- RADIO LINK RECONFIGURATION CANCEL
_ _
  RadioLinkReconfigurationCancel ::= SEQUENCE {
                                                       {{RadioLinkReconfigurationCancel-IEs}},
   protocolIEs
                               ProtocolIE-Container
   protocolExtensions
                               ProtocolExtensionContainer {{RadioLinkReconfigurationCancel-Extensions}}
                                                                                                               OPTIONAL,
   . . .
}
RadioLinkReconfigurationCancel-IEs RNSAP-PROTOCOL-IES ::= {
   . . .
}
RadioLinkReconfigurationCancel-Extensions RNSAP-PROTOCOL-EXTENSION ::= {
    - -
-- RADIO LINK RECONFIGURATION REQUEST FDD
- -
        RadioLinkReconfigurationRequestFDD ::= SEQUENCE {
   protocolIEs
                               ProtocolIE-Container
                                                       {{RadioLinkReconfigurationRequestFDD-IEs}},
                               ProtocolExtensionContainer {{RadioLinkReconfigurationRequestFDD-Extensions}}
   protocolExtensions
                                                                                                                   OPTIONAL,
   . . .
RadioLinkReconfigurationRequestFDD-IEs RNSAP-PROTOCOL-IES ::= {
     ID id-AllowedQueuingTime
                                                   CRITICALITY reject TYPE AllowedQueuingTime
                                                                                                                  PRESENCE optional
     ID id-UL-DPCH-Information-RL-ReconfRqstFDD
                                                   CRITICALITY reject TYPE UL-DPCH-Information-RL-ReconfRqstFDD
                                                                                                                  PRESENCE optional
     ID id-DL-DPCH-Information-RL-ReconfRqstFDD
                                                   CRITICALITY reject TYPE DL-DPCH-Information-RL-ReconfRqstFDD
                                                                                                                  PRESENCE optional
     ID id-FDD-DCHs-to-Modify
                                                   CRITICALITY reject TYPE FDD-DCHs-to-Modify
                                                                                                                  PRESENCE optional
```

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```

```
ID id-DCHs-to-Add-FDD
                                                          CRITICALITY reject TYPE DCH-FDD-Information
                                                                                                                                 PRESENCE optional
     ID id-DCH-DeleteList-RL-ReconfRqstFDD
                                                         CRITICALITY reject TYPE DCH-DeleteList-RL-ReconfRqstFDD
                                                                                                                                 PRESENCE optional
     ID id-Transmission-Gap-Pattern-Sequence-Information CRITICALITY reject TYPE Transmission-Gap-Pattern-Sequence-Information PRESENCE optional
},
    . . .
UL-DPCH-Information-RL-ReconfRqstFDD ::= SEQUENCE {
    tFCS
                                   TFCS OPTIONAL,
                                   ProtocolExtensionContainer { {UL-DPCH-Information-RL-ReconfRgstFDD-ExtIEs} } OPTIONAL,
    iE-Extensions
    . . .
UL-DPCH-Information-RL-ReconfRgstFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    { ID id-UL-DPDCHIndicatorEDCH CRITICALITY reject EXTENSION UL-DPDCHIndicatorEDCH
                                                                                               PRESENCE optional },
    . . .
}
DL-DPCH-Information-RL-ReconfRqstFDD ::= SEQUENCE {
                             TFCS OPTIONAL,
    tFCS
    tFCI-SignallingMode
                                   TFCI-SignallingMode OPTIONAL,
   limitedPowerIncrease
                                   LimitedPowerIncrease
                                                           OPTIONAL,
                                   ProtocolExtensionContainer { {DL-DPCH-Information-RL-ReconfRqstFDD-ExtIEs} } OPTIONAL,
    iE-Extensions
    . . .
DL-DPCH-Information-RL-ReconfRqstFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
DCH-DeleteList-RL-ReconfRqstFDD
                                 ::= SEQUENCE (SIZE (0..maxNrOfDCHs)) OF DCH-DeleteItem-RL-ReconfRqstFDD
DCH-DeleteItem-RL-ReconfRgstFDD ::= SEOUENCE {
    dCH-ID
                                   DCH-ID,
    iE-Extensions
                                   ProtocolExtensionContainer { {DCH-DeleteItem-RL-ReconfRqstFDD-ExtIEs} } OPTIONAL,
DCH-DeleteItem-RL-ReconfRqstFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
RadioLinkReconfigurationReguestFDD-Extensions RNSAP-PROTOCOL-EXTENSION ::= {
    { ID id-RL-ReconfigurationRequestFDD-RL-InformationList CRITICALITY ignore EXTENSION RL-ReconfigurationRequestFDD-RL-InformationList
    PRESENCE optional } |
    { ID id-DL-ReferencePowerInformation
                                                           CRITICALITY ignore EXTENSION DL-ReferencePowerInformation
    PRESENCE optional }|
     ID id-HSDSCH-FDD-Information
                                                   CRITICALITY reject EXTENSION HSDSCH-FDD-Information
                                                                                                                              PRESENCE optional } |
    { ID id-HSDSCH-Information-to-Modify-Unsynchronised CRITICALITY reject
                                                                               EXTENSION HSDSCH-Information-to-Modify-Unsynchronised PRESENCE
optional}
     ID id-HSDSCH-MACdFlows-to-Add
                                                   CRITICALITY reject
                                                                           EXTENSION HSDSCH-MACdFlows-Information
                                                                                                                              PRESENCE optional }
     ID id-HSDSCH-MACdFlows-to-Delete
                                                   CRITICALITY reject
                                                                                                                              PRESENCE optional }
                                                                           EXTENSION HSDSCH-MACdFlows-to-Delete
```

{ ID id-HSPDSCH-RL-ID	CRITICALITY reject	EXTENSION RL-ID				
PRESENCE optional}   { ID_id-EDPCH-Information-RLReconfRequest-FDD	CRITICALITY reject	EXTENSION EDPCH-Information-RLReconfRequest-FDD	PRESENCE			
optional}  { ID id-EDCH-FDD-Information PRESENCE optional}	CRITICALITY reject	EXTENSION EDCH-FDD-Information				
{ ID id-EDCH-FDD-Information-To-Modify { ID id-EDCH-MACdFlows-To-Add	CRITICALITY reject CRITICALITY reject	EXTENSION EDCH-FDD-Information-To-Modify EXTENSION EDCH-MACdFlows-Information	PRESENCE optional}  PRESENCE			
optional}  { ID_id-EDCH-MACdFlows-To-Delete	CRITICALITY reject	EXTENSION EDCH-MACdFlows-To-Delete	PRESENCE			
optional}  { ID id-Serving-EDCHRL-Id	CRITICALITY reject	EXTENSION EDCH-Serving-RL				
PRESENCE optional}  { ID id-CPC-Information PRESENCE optional}	CRITICALITY reject	EXTENSION CPC-Information				
{ ID id-NoOfTargetCellHS-SCCH-Order optional}	CRITICALITY ignore	EXTENSION NoOfTargetCellHS-SCCH-Order	PRESENCE			
<pre>{ ID id-Additional-HS-Cell-Information-RL-Reco</pre>	nf-Req CRITICALITY re	eject EXTENSION Additional-HS-Cell-Information	-RL-Reconf-Req			
{    ID id-UE-AggregateMaximumBitRate optional	CRITICALITY ignore	EXTENSION UE-AggregateMaximumBitRate	PRESENCE			
<pre>{ ID id-Additional-EDCH-Cell-Information-RL-Re PRESENCE optional },</pre>	conf-Req CRITICALITY re	eject EXTENSION Additional-EDCH-Cell-Information-R	L-Reconf-Req			
}						
Additional-HS-Cell-Information-RL-Reconf-Req ::	= SEQUENCE (SIZE (1ma:	xNrOfHSDSCH-1)) OF Additional-HS-Cell-Information-R	L-Reconf-Req-ItemIEs			
Additional-HS-Cell-Information-RL-Reconf-Req-ItemI hSPDSCH-RL-ID	RL-ID,					
c-ID hS-DSCH-FDD-Secondary-Serving-Information hS-DSCH-FDD-Secondary-Serving-Information-To-M		OPTIONAL, -Serving-Information OPTIONAL, HS-DSCH-FDD-Secondary-Serving-Information-To-Mod	ify_Unsynchronised			
OPTIONAL, hs-DsCH-secondary-serving-Emove	HS-DSCH-Secondary-Ser	· 5	iiy-onsynchronised			
		onal-HS-Cell-Information-RL-Reconf-Req-ExtIEs} } OP	TIONAL,			
}						
Additional-HS-Cell-Information-RL-Reconf-Req-ExtIE	S RNSAP-PROTOCOL-EXTENS	ION ::= {				
}						
Additional-EDCH-Cell-Information-RL-Reconf-Req :: setup-Or-ConfigurationChange-Or-Removal-Of-EDC		ency Setup-Or-ConfigurationChange-Or-Removal-	Of-EDCH-On-secondary-			
	ionContainer { { Addition	onal-EDCH-Cell-Information-RL-Reconf-Req-ExtIEs} }	OPTIONAL,			
}						
Additional-EDCH-Cell-Information-RL-Reconf-Req-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {						

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RL-ReconfigurationRequestFDD-RL-InformationList ::= SEQUENCE (SIZE (0..maxNrOfRLs)) OF ProtocolIE-Single-Container { {RL-ReconfigurationReguestFDD-RL-Information-ListItem} } RL-ReconfigurationReguestFDD-RL-Information-ListItem RNSAP-PROTOCOL-IES ::= { { ID id-RL-ReconfigurationReguestFDD-RL-Information-IEs CRITICALITY ignore TYPE RL-ReconfigurationReguestFDD-RL-Information-IEs PRESENCE optional } RL-ReconfigurationRequestFDD-RL-Information-IEs ::= SEQUENCE { rL-ID RL-ID, RL-Specific-DCH-Info OPTIONAL, rL-Specific-DCH-Info ProtocolExtensionContainer { { RL-ReconfigurationRequestFDD-RL-Information-ExtIEs } } OPTIONAL, iE-Extensions . . . RL-ReconfigurationReguestFDD-RL-Information-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= { ID id-RL-Specific-EDCH-Information CRITICALITY reject EXTENSION RL-Specific-EDCH-Information PRESENCE optional } ID id-EDCH-RL-Indication CRITICALITY reject EXTENSION EDCH-RL-Indication PRESENCE optional } ID id-HSDSCH-PreconfigurationSetup PRESENCE optional }| CRITICALITY ignore EXTENSION HSDSCH-PreconfigurationSetup ID id-Non-Serving-RL-Preconfig-Setup CRITICALITY ignore EXTENSION Non-Serving-RL-Preconfig-Setup PRESENCE optional }| ID id-Non-Serving-RL-Preconfig-Removal PRESENCE optional }, CRITICALITY ignore EXTENSION Non-Serving-RL-Preconfig-Setup . . . \_ \_ -- RADIO LINK RECONFIGURATION REQUEST TDD RadioLinkReconfigurationRequestTDD ::= SEQUENCE { protocolIEs ProtocolIE-Container {RadioLinkReconfigurationReguestTDD-IEs}}, ProtocolExtensionContainer {{RadioLinkReconfigurationRequestTDD-Extensions}} protocolExtensions OPTIONAL, . . . RadioLinkReconfigurationReguestTDD-IEs RNSAP-PROTOCOL-IES ::= { ID id-AllowedQueuingTime } CRITICALITY reject TYPE AllowedOueuingTime PRESENCE optional ID id-UL-CCTrCH-InformationModifyList-RL-ReconfRgstTDD CRITICALITY notify TYPE UL-CCTrCH-InformationModifyList-RL-ReconfRqstTDD PRESENCE optional { ID id-UL-CCTrCH-InformationDeleteList-RL-ReconfRqstTDD CRITICALITY notify TYPE UL-CCTrCH-InformationDeleteList-RL-ReconfRqstTDD PRESENCE optional } | { ID id-DL-CCTrCH-InformationModifyList-RL-ReconfRqstTDD CRITICALITY notify TYPE DL-CCTrCH-InformationModifyList-RL-ReconfRqstTDD PRESENCE optional { ID id-DL-CCTrCH-InformationDeleteList-RL-ReconfRqstTDD CRITICALITY notify TYPE DL-CCTrCH-InformationDeleteList-RL-ReconfRqstTDD PRESENCE optional ID id-TDD-DCHs-to-Modify CRITICALITY reject TYPE TDD-DCHs-to-Modify PRESENCE optional ID id-DCHs-to-Add-TDD CRITICALITY reject TYPE DCH-TDD-Information PRESENCE optional { ID id-DCH-DeleteList-RL-ReconfRqstTDD CRITICALITY reject TYPE DCH-DeleteList-RL-ReconfRqstTDD PRESENCE optional }, . . .

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::= SEQUENCE (SIZE (0..maxNrOfCCTrCHs)) OF ProtocolIE-Single-Container { {UL-CCTrCH-UL-CCTrCH-InformationModifyList-RL-ReconfRqstTDD InformationModifyList-RL-ReconfRgstTDD-IEs } } UL-CCTrCH-InformationModifyList-RL-ReconfRgstTDD-IEs RNSAP-PROTOCOL-IES ::= { { ID id-UL-CCTrCH-InformationModifyItem-RL-ReconfRgstTDD CRITICALITY notify TYPE UL-CCTrCH-InformationModifyItem-RL-ReconfRgstTDD PRESENCE mandatory } UL-CCTrCH-InformationModifyItem-RL-ReconfRqstTDD ::= SEQUENCE { cCTrCH-ID CCTrCH-ID, t FCS TECS OPTIONAL, ProtocolExtensionContainer { { UL-CCTrCH-InformationModifyItem-RL-ReconfRgstTDD-ExtIEs } } OPTIONAL, iE-Extensions . . . UL-CCTrCH-InformationModifyItem-RL-ReconfRgstTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= { { ID id-UL-SIRTarget CRITICALITY reject EXTENSION UL-SIR PRESENCE optional }, -- Applicable to 1.28Mcps TDD only . . . 3 ::= SEQUENCE (SIZE (0..maxNrOfCCTrCHs)) OF ProtocolIE-Single-Container { {UL-CCTrCH-UL-CCTrCH-InformationDeleteList-RL-ReconfRqstTDD InformationDeleteList-RL-ReconfRqstTDD-IEs } UL-CCTrCH-InformationDeleteList-RL-ReconfRqstTDD-IEs RNSAP-PROTOCOL-IES ::= { { ID id-UL-CCTrCH-InformationDeleteItem-RL-ReconfRgstTDD CRITICALITY notify TYPE UL-CCTrCH-InformationDeleteItem-RL-ReconfRgstTDD PRESENCE mandatory } } UL-CCTrCH-InformationDeleteItem-RL-ReconfRqstTDD ::= SEQUENCE { CCTrCH-ID, cCTrCH-ID iE-Extensions ProtocolExtensionContainer { {UL-CCTrCH-InformationDeleteItem-RL-ReconfRgstTDD-ExtIEs } } OPTIONAL, . . . UL-CCTrCH-InformationDeleteItem-RL-ReconfRqstTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= { DL-CCTrCH-InformationModifyList-RL-ReconfRgstTDD := SEQUENCE (SIZE (0..maxNrOfCCTrCHs)) OF ProtocolIE-Single-Container { {DL-CCTrCH-InformationModifyList-RL-ReconfRqstTDD-IEs} } DL-CCTrCH-InformationModifyList-RL-ReconfRqstTDD-IEs RNSAP-PROTOCOL-IES ::= { { ID id-DL-CCTrCH-InformationModifyItem-RL-ReconfRqstTDD CRITICALITY notify TYPE DL-CCTrCH-InformationModifyItem-RL-ReconfRqstTDD PRESENCE mandatory DL-CCTrCH-InformationModifyItem-RL-ReconfRqstTDD ::= SEQUENCE { cCTrCH-ID CCTrCH-ID, tFCS TFCS OPTIONAL, ProtocolExtensionContainer { {DL-CCTrCH-InformationModifyItem-RL-ReconfRqstTDD-ExtIEs} } OPTIONAL, iE-Extensions . . .

```
DL-CCTrCH-InformationModifyItem-RL-ReconfRqstTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
DL-CCTrCH-InformationDeleteList-RL-ReconfRgstTDD
                                                        ::= SEQUENCE (SIZE (0..maxNrOfCCTrCHs)) OF ProtocollE-Single-Container { {DL-CCTrCH-
InformationDeleteList-RL-ReconfRgstTDD-IEs }
DL-CCTrCH-InformationDeleteList-RL-ReconfRqstTDD-IEs RNSAP-PROTOCOL-IES ::= {
    { ID id-DL-CCTrCH-InformationDeleteItem-RL-ReconfRqstTDD
                                                              CRITICALITY notify TYPE DL-CCTrCH-InformationDeleteItem-RL-ReconfRqstTDD
    PRESENCE mandatory }
DL-CCTrCH-InformationDeleteItem-RL-ReconfRqstTDD ::= SEQUENCE {
    cCTrCH-ID
                                CCTrCH-ID.
    iE-Extensions
                                    ProtocolExtensionContainer { {DL-CCTrCH-InformationDeleteItem-RL-ReconfRgstTDD-ExtIEs } } OPTIONAL,
    . . .
DL-CCTrCH-InformationDeleteItem-RL-ReconfRgstTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
DCH-DeleteList-RL-ReconfRqstTDD
                                            ::= SEQUENCE (SIZE(0..maxNrOfDCHs)) OF DCH-DeleteItem-RL-ReconfRqstTDD
DCH-DeleteItem-RL-ReconfRqstTDD ::= SEQUENCE {
    dCH-ID
                                DCH-ID.
    iE-Extensions
                                    ProtocolExtensionContainer { {DCH-DeleteItem-RL-ReconfRgstTDD-ExtIEs} } OPTIONAL,
    . . .
DCH-DeleteItem-RL-ReconfRqstTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
RadioLinkReconfigurationRequestTDD-Extensions RNSAP-PROTOCOL-EXTENSION ::= {
  { ID id-RL-ReconfigurationRequestTDD-RL-Information CRITICALITY ignore EXTENSION Multiple-RL-ReconfigurationRequestTDD-RL-Information
    PRESENCE
               optional}|
     ID id-HSDSCH-TDD-Information
                                                CRITICALITY reject
                                                                        EXTENSION HSDSCH-TDD-Information
                                                                                                                         PRESENCE optional }
    { ID id-HSDSCH-Information-to-Modify-Unsynchronised CRITICALITY reject
                                                                                EXTENSION HSDSCH-Information-to-Modify-Unsynchronised PRESENCE
optional}
                                                                                                                         PRESENCE optional } |
      ID id-HSDSCH-MACdFlows-to-Add
                                                CRITICALITY reject
                                                                        EXTENSION HSDSCH-MACdFlows-Information
                                                                                                                         PRESENCE optional }
      ID id-HSDSCH-MACdFlows-to-Delete
                                                CRITICALITY reject
                                                                        EXTENSION HSDSCH-MACdFlows-to-Delete
     ID id-HSPDSCH-RL-ID
                                                CRITICALITY reject
                                                                        EXTENSION RL-ID
    PRESENCE optional } |
      ID id-E-DCH-Information-Reconfig
                                                                                                                         PRESENCE optional
                                                CRITICALITY reject
                                                                        EXTENSION E-DCH-Information-Reconfig
                                                                                                                         PRESENCE optional
      ID id-E-DCH-Serving-RL-ID
                                                CRITICALITY reject
                                                                        EXTENSION RL-ID
      ID id-E-DCH-768-Information-Reconfig
                                                CRITICALITY reject
                                                                        EXTENSION E-DCH-768-Information-Reconfig
                                                                                                                         PRESENCE optional
                                                                                                                                 PRESENCE optional
      ID id-E-DCH-LCR-Information-Reconfig
                                                CRITICALITY reject
                                                                        EXTENSION E-DCH-LCR-Information-Reconfig
     ID id-CPC-InformationLCR
                                                CRITICALITY reject
                                                                        EXTENSION CPC-InformationLCR
    PRESENCE optional }
    { ID id-RNTI-Allocation-Indicator
                                                CRITICALITY ignore
                                                                        EXTENSION RNTI-Allocation-Indicator
                                                                                                                                        PRESENCE
optional }
    { ID id-DCH-MeasurementType-Indicator
                                                CRITICALITY reject
                                                                        EXTENSION DCH-MeasurementType-Indicator
                                                                                                                         PRESENCE optional }
```

```
. . .
3
Multiple-RL-ReconfigurationReguestTDD-RL-Information ::= SEOUENCE (SIZE (1..maxNrOfRLs)) OF RL-ReconfigurationReguestTDD-RL-Information
RL-ReconfigurationReguestTDD-RL-Information ::= SEQUENCE {
   rL-ID
                          RL-ID,
                         RL-Specific-DCH-Info OPTIONAL,
   rL-Specific-DCH-Info
   iE-Extensions
                         ProtocolExtensionContainer { { RL-ReconfigurationRequestTDD-RL-Information-ExtIEs } } OPTIONAL,
RL-ReconfigurationRequestTDD-RL-Information-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
   { ID
         id-UL-Synchronisation-Parameters-LCR CRITICALITY ignore
                                                                              EXTENSION UL-Synchronisation-Parameters-LCR
   PRESENCE optional } -- Mandatory for 1.28Mcps TDD, Not Applicable to 3.84Mcps TDD or 7.68Mcps TDD
   { ID id-NeedforIdleInterval
                                                    CRITICALITY ignore EXTENSION NeedforIdleInterval
                                                                                                                               PRESENCE
optional },
    - -
-- RADIO LINK RECONFIGURATION RESPONSE FDD
RadioLinkReconfigurationResponseFDD ::= SEQUENCE {
   protocolIEs
                                 ProtocolIE-Container
                                                           {{RadioLinkReconfigurationResponseFDD-IEs}},
                                 ProtocolExtensionContainer {{RadioLinkReconfigurationResponseFDD-Extensions}}
   protocolExtensions
                                                                                                                            OPTIONAL,
   . . .
}
RadioLinkReconfigurationResponseFDD-IEs RNSAP-PROTOCOL-IES ::= {
    { ID id-RL-InformationResponseList-RL-ReconfRspFDD
                                                       CRITICALITY ignore TYPE RL-InformationResponseList-RL-ReconfRspFDD
   PRESENCE optional } |
   { ID id-CriticalityDiagnostics
                                         CRITICALITY ignore TYPE CriticalityDiagnostics
                                                                                           PRESENCE optional
                                                                                                                },
   . . .
}
RL-InformationResponseList-RL-ReconfRspFDD
                                         ::= SEQUENCE (SIZE (0..maxNrOfRLs)) OF ProtocollE-Single-Container { {RL-InformationResponse-RL-
ReconfRspFDD-IEs } }
RL-InformationResponse-RL-ReconfRspFDD-IEs RNSAP-PROTOCOL-IES ::= {
   { ID id-RL-InformationResponseItem-RL-ReconfRspFDD
                                                        CRITICALITY ignore TYPE RL-InformationResponseItem-RL-ReconfRspFDD
                                                                                                                               PRESENCE
mandatorv }
RL-InformationResponseItem-RL-ReconfRspFDD ::= SEQUENCE {
   rL-ID
                                 RL-ID,
   max-UL-SIR
                                 UL-SIR
                                                OPTIONAL,
   min-UL-SIR
                                 UL-SIR
                                                OPTIONAL,
   maximumDLTxPower
                                 DL-Power
                                                OPTIONAL,
   minimumDLTxPower
                                 DL-Power
                                                OPTIONAL,
   not-Used-secondary-CCPCH-Info
                                         NULL
                                                    OPTIONAL,
```

```
dCHsInformationResponseList
                                   DCH-InformationResponseList-RL-ReconfRspFDD OPTIONAL,
    dL-CodeInformationList-RL-ReconfResp
                                           DL-CodeInformationList-RL-ReconfRspFDD OPTIONAL,
    iE-Extensions
                                   ProtocolExtensionContainer { {RL-InformationResponseItem-RL-ReconfRspFDD-ExtIEs } } OPTIONAL,
    . . .
RL-InformationResponseItem-RL-ReconfRspFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    { ID id-DL-PowerBalancing-UpdatedIndicator
                                                   CRITICALITY ignore EXTENSION DL-PowerBalancing-UpdatedIndicator
                                                                                                                                     PRESENCE
optional }|
    { ID id-EDCH-FDD-InformationResponse
                                                   CRITICALITY ignore EXTENSION EDCH-FDD-InformationResponse
    PRESENCE optional }|
    { ID id-EDCH-RLSet-Id
                                                   CRITICALITY ignore EXTENSION RL-Set-ID
           PRESENCE optional }|
     ID id-EDCH-FDD-DL-ControlChannelInformation
                                                   CRITICALITY ignore EXTENSION EDCH-FDD-DL-ControlChannelInformation
                                                                                                                              PRESENCE optional }|
     ID id-F-DPCH-SlotFormat
                                                   CRITICALITY ignore EXTENSION F-DPCH-SlotFormat
           PRESENCE optional }|
    { ID id-HSDSCH-PreconfigurationInfo
                                                   CRITICALITY ignore EXTENSION HSDSCH-PreconfigurationInfo
    PRESENCE optional }|
    { ID id-Non-Serving-RL-Preconfig-Info
                                                   CRITICALITY ignore EXTENSION Non-Serving-RL-Preconfig-Info
    PRESENCE optional },
    . . .
DCH-InformationResponseList-RL-ReconfRspFDD
                                                       ::= ProtocolIE-Single-Container { {DCH-InformationResponseListIEs-RL-ReconfRspFDD} }
DCH-InformationResponseListIEs-RL-ReconfRspFDD RNSAP-PROTOCOL-IES ::= {
    { ID id-DCH-InformationResponse
                                       CRITICALITY ignore TYPE DCH-InformationResponse
                                                                                              PRESENCE mandatory
DL-CodeInformationList-RL-ReconfRspFDD ::= ProtocolIE-Single-Container {{ DL-CodeInformationListIEs-RL-ReconfRspFDD }}
DL-CodeInformationListIEs-RL-ReconfRspFDD RNSAP-PROTOCOL-IES ::= {
    ID id-FDD-DL-CodeInformation CRITICALITY iqnore TYPE FDD-DL-CodeInformation
                                                                                      PRESENCE optional }
RadioLinkReconfigurationResponseFDD-Extensions RNSAP-PROTOCOL-EXTENSION ::= {
    { ID id-HSDSCH-RNTI
                                               CRITICALITY ignore
                                                                       EXTENSION HSDSCH-RNTI
    PRESENCE optional }|
     ID id-HSDSCH-FDD-Information-Response
                                               CRITICALITY ignore
                                                                       EXTENSION HSDSCH-FDD-Information-Response
                                                                                                                              PRESENCE optional }
     ID id-MAChs-ResetIndicator
                                               CRITICALITY ignore
                                                                       EXTENSION MAChs-ResetIndicator
    PRESENCE optional }
    { ID id-Continuous-Packet-Connectivity-HS-SCCH-Less-Information-Response
                                                                                          CRITICALITY ignore
                                                                                                                      EXTENSION Continuous-
Packet-Connectivity-HS-SCCH-Less-Information-Response
                                                                           PRESENCE optional }
    { ID id-Additional-HS-Cell-Information-Response CRITICALITY iqnore
                                                                           EXTENSION Additional-HS-Cell-Information-Response-List
    PRESENCE optional }
    { ID id-Additional-EDCH-Cell-Information-ResponseRLReconf
                                                                   CRITICALITY ignore EXTENSION Additional-EDCH-Cell-Information-Response-
RLReconf-List
                       PRESENCE optional },
    . . .
       -- RADIO LINK RECONFIGURATION RESPONSE TDD
- -
```

```
RadioLinkReconfigurationResponseTDD ::= SEQUENCE {
    protocolIEs
                                    ProtocolIE-Container
                                                                {{RadioLinkReconfigurationResponseTDD-IEs}},
    protocolExtensions
                                    ProtocolExtensionContainer {{RadioLinkReconfigurationResponseTDD-Extensions}}
                                                                                                                                      OPTIONAL.
    . . .
RadioLinkReconfigurationResponseTDD-IEs RNSAP-PROTOCOL-IES ::= {
    { ID id-RL-InformationResponse-RL-ReconfRspTDD
                                                        CRITICALITY iqnore TYPE RL-InformationResponse-RL-ReconfRspTDD
                                                                                                                                         PRESENCE
optional
           } |
    --This RL-InformationResponse-RL-ReconfRspTDD is for the first RL repetition in the list.
    --Repetitions 2 and on are defined in Multiple-RL-InformationResponse-RL-ReconfRspTDD.
    { ID id-CriticalityDiagnostics
                                            CRITICALITY ignore TYPE CriticalityDiagnostics
                                                                                                   PRESENCE optional
                                                                                                                          },
    . . .
RL-InformationResponse-RL-ReconfRspTDD ::= SEQUENCE {
    rL-ID
                                    RL-ID,
    max-UL-SIR
                                    UL-SIR
                                                     OPTIONAL,
    min-UL-SIR
                                    UL-STR
                                                     OPTIONAL,
    maximumDLTxPower
                                    DL-Power
                                                     OPTIONAL,
    minimumDLTxPower
                                    DL-Power
                                                     OPTIONAL,
    dCHsInformationResponseList
                                    DCH-InformationResponseList-RL-ReconfRspTDD OPTIONAL,
    iE-Extensions
                                    ProtocolExtensionContainer { {RL-InformationResponse-RL-ReconfRspTDD-ExtIEs } } OPTIONAL,
    . . .
RL-InformationResponse-RL-ReconfRspTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    { ID id-DL-CCTrCH-InformationList-RL-ReconfRspTDD CRITICALITY ignore EXTENSION DL-CCTrCH-InformationList-RL-ReconfRspTDD
                                                                                                                                         PRESENCE
optional }
    { ID id-UL-TimingAdvanceCtrl-LCR
                                                         CRITICALITY ignore EXTENSION UL-TimingAdvanceCtrl-LCR
                                                                                                                          PRESENCE optional },
    --For 1.28Mcps TDD only
    . . .
DL-CCTrCH-InformationList-RL-ReconfRspTDD ::= SEQUENCE (SIZE (1..maxNrOfCCTrCHs)) OF DL-CCTrCH-InformationItem-RL-ReconfRspTDD
DL-CCTrCH-InformationItem-RL-ReconfRspTDD ::= SEQUENCE {
    cCTrCH-ID
                                                CCTrCH-ID,
    dl-DPCH-ModifyInformation-LCR
                                                DL-DPCH-InformationModifyList-LCR-RL-ReconfRspTDD
                                                                                                                  OPTIONAL,
    --For 1.28Mcps TDD only
    cCTrCH-Maximum-DL-Power
                                                DL-Power
                                                                         OPTIONAL,
    --For 3.84Mcps TDD and 7.68Mcps TDD only, this is a DCH type CCTrCH power
                                                DL-Power
    cCTrCH-Minimum-DL-Power
                                                                         OPTIONAL,
    --For 3.84Mcps TDD and 7.68Mcps TDD only, this is a DCH type CCTrCH power
    iE-Extensions
                                                ProtocolExtensionContainer { { DL-CCTrCH-InformationItem-RL-ReconfRspTDD-ExtIEs }
    OPTIONAL,
    . . .
DL-CCTrCH-InformationItem-RL-ReconfRspTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
```

```
DL-DPCH-InformationModifyList-LCR-RL-ReconfRspTDD ::= ProtocolIE-Single-Container {{ DL-DPCH-InformationModifyListIEs-LCR-RL-ReconfRspTDD }}
DL-DPCH-InformationModifyListIEs-LCR-RL-ReconfRspTDD RNSAP-PROTOCOL-IES ::= {
    {ID id-DL-DPCH-InformationModifyItem-LCR-RL-ReconfRspTDD CRITICALITY ignore TYPE DL-DPCH-InformationModifyItem-LCR-RL-ReconfRspTDD
    PRESENCE optional },
    . . .
DL-DPCH-InformationModifyItem-LCR-RL-ReconfRspTDD ::= SEQUENCE
   dL-Timeslot-LCR-InformationModifyList-RL-ReconfRqstTDD
                                                                DL-Timeslot-LCR-InformationModifyList-RL-ReconfRspTDD
                                                                                                                                         OPTIONAL,
   iE-ExtensionsProtocolExtensionContainer { { DL-DPCH-InformationModifyItem-LCR-RL-ReconfRspTDD-ExtIEs} }
                                                                                                                          OPTIONAL,
    . . .
DL-DPCH-InformationModifyItem-LCR-RL-ReconfRspTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
DL-Timeslot-LCR-InformationModifyList-RL-ReconfRspTDD ::= SEQUENCE (SIZE (1..maxNrOfDLTsLCR)) OF DL-Timeslot-LCR-InformationModifyItem-RL-
ReconfRspTDD
DL-Timeslot-LCR-InformationModifyItem-RL-ReconfRspTDD
                                                         ::= SEQUENCE
    timeSlotLCR
                                            TimeSlotLCR,
    maxPowerLCR
                                            DL-Power
                                                        OPTIONAL,
    minPowerLCR
                                            DL-Power
                                                        OPTIONAL,
                                            ProtocolExtensionContainer { { DL-Timeslot-LCR-InformationModifyItem-RL-ReconfRspTDD-ExtIEs } }
    iE-Extensions
   OPTIONAL,
    . . .
DL-Timeslot-LCR-InformationModifyItem-RL-ReconfRspTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
DCH-InformationResponseList-RL-ReconfRspTDD
                                                        ::= ProtocolIE-Single-Container { {DCH-InformationResponseListIEs-RL-ReconfRspTDD} }
DCH-InformationResponseListIEs-RL-ReconfRspTDD RNSAP-PROTOCOL-IES ::= {
    { ID id-DCH-InformationResponse CRITICALITY ignore TYPE DCH-InformationResponse
                                                                                         PRESENCE optional
}
RadioLinkReconfigurationResponseTDD-Extensions RNSAP-PROTOCOL-EXTENSION ::= {
     ID id-HSDSCH-RNTI
                                                CRITICALITY ignore
                                                                         EXTENSION HSDSCH-RNTI
    PRESENCE optional }|
     ID id-HSDSCH-TDD-Information-Response
                                                CRITICALITY ignore
                                                                                                                                 PRESENCE optional }|
                                                                         EXTENSION HSDSCH-TDD-Information-Response
     ID id-MAChs-ResetIndicator
                                                CRITICALITY ignore
                                                                         EXTENSION MAChs-ResetIndicator
    PRESENCE optional }|
    { ID id-RL-ReconfigurationResponseTDD-RL-Information
                                                            CRITICALITY iqnore
                                                                                     EXTENSION Multiple-RL-InformationResponse-RL-ReconfRspTDD
        PRESENCE
                    optional } |
      ID id-E-DCH-Information-Response
                                                CRITICALITY ignore
                                                                         EXTENSION E-DCH-Information-Response
                                                                                                                         PRESENCE optional
      ID id-E-DCH-768-Information-Response
                                                CRITICALITY ignore
                                                                         EXTENSION E-DCH-768-Information-Response
                                                                                                                          PRESENCE optional
      ID id-E-DCH-LCR-Information-Response
                                                CRITICALITY ignore
                                                                         EXTENSION E-DCH-LCR-Information-Response
                                                                                                                          PRESENCE optional
     ID id-PowerControlGAP
                                                CRITICALITY ignore
                                                                         EXTENSION ControlGAP
                                                                                                                                 PRESENCE optional }|
    -- Applicable to 1.28Mcps TDD only
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{ ID id-IdleIntervalInformation CRITICALITY ignore EXTENSION IdleIntervalInformation PRESENCE optional }| CRITICALITY ignore EXTENSION ContinuousPacketConnectivity-DRX-Information-{ ID id-ContinuousPacketConnectivity-DRX-Information-ResponseLCR ResponseLCR PRESENCE optional }| { ID id-HS-DSCH-Semi-PersistentScheduling-Information-ResponseLCR CRITICALITY ignore EXTENSION HS-DSCH-Semi-PersistentScheduling-PRESENCE optional } Information-ResponseLCR { ID id-E-DCH-Semi-PersistentScheduling-Information-ResponseLCR CRITICALITY iqnore EXTENSION E-DCH-Semi-PersistentScheduling-PRESENCE optional} Information-ResponseLCR { ID id-E-RNTI-For-FACH CRITICALITY ignore EXTENSION E-RNTI PRESENCE optional } { ID id-H-RNTI-For-FACH CRITICALITY ignore EXTENSION HSDSCH-RNTI PRESENCE optional } { ID id-DCH-MeasurementOccasion-Information CRITICALITY reject EXTENSION DCH-MeasurementOccasion-Information PRESENCE optional }, . . . } Multiple-RL-InformationResponse-RL-ReconfRspTDD ::= SEQUENCE (SIZE (1..maxNrOfRLs-1)) OF RL-InformationResponse-RL-ReconfRspTDD --Includes the 2<sup>nd</sup> through the max number of radio link information repetitions. - --- RADIO LINK FAILURE INDICATION \*\*\*\*\* RadioLinkFailureIndication ::= SEQUENCE { {{RadioLinkFailureIndication-IEs}}, protocolIEs ProtocolIE-Container protocolExtensions ProtocolExtensionContainer {{RadioLinkFailureIndication-Extensions}} OPTIONAL, . . . } RadioLinkFailureIndication-IEs RNSAP-PROTOCOL-IES ::= { { ID id-Reporting-Object-RL-FailureInd CRITICALITY ignore TYPE Reporting-Object-RL-FailureInd PRESENCE mandatory }. . . . } Reporting-Object-RL-FailureInd ::= CHOICE { RL-RL-FailureInd, rL rL-Set RL-Set-RL-FailureInd, --FDD only ..., cCTrCH CCTrCH-RL-FailureInd --TDD only RL-RL-FailureInd ::= SEQUENCE { rL-InformationList-RL-FailureInd RL-InformationList-RL-FailureInd, ProtocolExtensionContainer { { RLItem-RL-FailureInd-ExtIEs } } OPTIONAL, iE-Extensions . . . }

RLItem-RL-FailureInd-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {

} ...

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::= SEQUENCE (SIZE (1..maxNrOfRLs)) OF ProtocolIE-Single-Container { {RL-Information-RL-FailureInd-IEs} RL-InformationList-RL-FailureInd 3 RL-Information-RL-FailureInd-IEs RNSAP-PROTOCOL-IES ::= { { ID id-RL-Information-RL-FailureInd CRITICALITY ignore TYPE RL-Information-RL-FailureInd PRESENCE mandatory } RL-Information-RL-FailureInd ::= SEOUENCE { rL-ID RL-ID, cause Cause, ProtocolExtensionContainer { {RL-Information-RL-FailureInd-ExtIEs } } OPTIONAL, iE-Extensions . . . } RL-Information-RL-FailureInd-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= { RL-Set-RL-FailureInd ::= SEOUENCE rL-Set-InformationList-RL-FailureInd RL-Set-InformationList-RL-FailureInd, iE-Extensions ProtocolExtensionContainer { { RL-SetItem-RL-FailureInd-ExtIEs } } OPTIONAL, . . . } RL-SetItem-RL-FailureInd-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= { . . . } ::= SEQUENCE (SIZE (1..maxNrOfRLSets)) OF ProtocolIE-Single-Container { {RL-Set-Information-RL-RL-Set-InformationList-RL-FailureInd FailureInd-IEs } } RL-Set-Information-RL-FailureInd-IEs RNSAP-PROTOCOL-IES ::= { { ID id-RL-Set-Information-RL-FailureInd CRITICALITY ignore TYPE RL-Set-Information-RL-FailureInd PRESENCE mandatory } RL-Set-Information-RL-FailureInd ::= SEQUENCE { rL-Set-ID RL-Set-ID, cause Cause, iE-Extensions ProtocolExtensionContainer { {RL-Set-Information-RL-FailureInd-ExtIEs} } OPTIONAL, . . . } RL-Set-Information-RL-FailureInd-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= { RadioLinkFailureIndication-Extensions RNSAP-PROTOCOL-EXTENSION ::= { . . . } CCTrCH-RL-FailureInd ::= SEQUENCE { rL-ID RL-ID, cCTrCH-InformationList-RL-FailureInd CCTrCH-InformationList-RL-FailureInd, ProtocolExtensionContainer { { CCTrCHItem-RL-FailureInd-ExtIEs } } iE-Extensions OPTIONAL,

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. . .
 }
CCTrCHItem-RL-FailureInd-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
   . . .
}
CCTrCH-InformationList-RL-FailureInd ::= SEQUENCE (SIZE (1..maxNrOfCCTrCHs)) OF ProtocolIE-Single-Container {{ CCTrCH-InformationItemIE-RL-
FailureInd} }
CCTrCH-InformationItemIE-RL-FailureInd RNSAP-PROTOCOL-IES ::= {
    { ID
          id-CCTrCH-InformationItem-RL-FailureInd
                                                        CRITICALITY
                                                                      ignore
                                                                                     TYPE CCTrCH-InformationItem-RL-FailureInd
   PRESENCE
              mandatory }
CCTrCH-InformationItem-RL-FailureInd ::= SEQUENCE {
   cCTrCH-ID
                                            CCTrCH-ID,
   cause
                                            Cause,
                                            ProtocolExtensionContainer { { CCTrCH-InformationItem-RL-FailureInd-ExtIEs } }
   iE-Extensions
                                                                                                                              OPTIONAL,
   . . .
CCTrCH-InformationItem-RL-FailureInd-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
   . . .
- -
-- RADIO LINK PREEMPTION REQUIRED INDICATION
RadioLinkPreemptionRequiredIndication ::= SEQUENCE {
                                                           {{RadioLinkPreemptionRequiredIndication-IEs}},
   protocolIEs
                                 ProtocolIE-Container
                                 ProtocolExtensionContainer {{RadioLinkPreemptionRequiredIndication-Extensions}}
   protocolExtensions
                                                                                                                             OPTIONAL,
   . . .
}
RadioLinkPreemptionRequiredIndication-IEs RNSAP-PROTOCOL-IES ::= {
   { ID id-RL-InformationList-RL-PreemptRequiredInd CRITICALITY ignore TYPE RL-InformationList-RL-PreemptRequiredInd
                                                                                                                              PRESENCE
         },
optional
   . . .
RL-InformationList-RL-PreemptRequiredInd
                                       :== SEOUENCE (SIZE (1..maxNrOfRLs)) OF ProtocolIE-Single-Container { {RL-InformationItemIEs-RL-
PreemptRequiredInd }
RL-InformationItemIEs-RL-PreemptRequiredInd RNSAP-PROTOCOL-IES ::= {
   { ID id-RL-InformationItem-RL-PreemptRequiredInd
                                                    CRITICALITY ignore TYPE RL-InformationItem-RL-PreemptRequiredInd
                                                                                                                              PRESENCE
mandatory }
}
RL-InformationItem-RL-PreemptRequiredInd::= SEQUENCE {
   rL-ID
                             RL-ID,
```

```
ProtocolExtensionContainer { {RL-Information-RL-PreemptRequiredInd-ExtIEs} } OPTIONAL,
    iE-Extensions
    . . .
RL-Information-RL-PreemptRequiredInd-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    { ID id-EDCH-MacdFlowSpecificInformationList-RL-PreemptRequiredInd CRITICALITY ignore EXTENSION EDCH-MacdFlowSpecificInformationList-RL-
PreemptRequiredInd PRESENCE optional },
    . . .
}
RadioLinkPreemptionRequiredIndication-Extensions RNSAP-PROTOCOL-EXTENSION ::= {
    { ID id-HSDSCHMacdFlowSpecificInformationList-RL-PreemptRequiredInd CRITICALITY iqnore EXTENSION HSDSCHMacdFlowSpecificInformationList-RL-
PreemptRequiredInd PRESENCE optional },
    . . .
HSDSCHMacdFlowSpecificInformationList-RL-PreemptRequiredInd ::= SEQUENCE (SIZE (1.. maxNrOfMACdFlows)) OF ProtocolIE-Single-Container {
{HSDSCHMacdFlowSpecificInformationItemIEs-RL-PreemptRequiredInd}
HSDSCHMacdFlowSpecificInformationItemIEs-RL-PreemptRequiredInd RNSAP-PROTOCOL-IES ::= {
    { ID id-HSDSCHMacdFlowSpecificInformationItem-RL-PreemptRequiredInd
                                                                        CRITICALITY ignore TYPE HSDSCHMacdFlowSpecificInformationItem-RL-
PreemptRequiredInd PRESENCE mandatory }
}
HSDSCHMacdFlowSpecificInformationItem-RL-PreemptRequiredInd ::= SEQUENCE {
   hSDSCH-MACdFlow-ID
                                           HSDSCH-MACdFlow-ID,
                               ProtocolExtensionContainer { { HSDSCHMacdFlowSpecificInformation-RL-PreemptRequiredInd-ExtIEs } } OPTIONAL,
   iE-Extensions
    . . .
HSDSCHMacdFlowSpecificInformation-RL-PreemptRequiredInd-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
}
EDCH-MacdFlowSpecificInformationList-RL-PreemptRequiredInd ::= SEQUENCE (SIZE (1.. maxNrOfEDCHMACdFlows)) OF ProtocolIE-Single-Container { {EDCH-
MacdFlowSpecificInformationItemIEs-RL-PreemptRequiredInd }
EDCH-MacdFlowSpecificInformationItemIEs-RL-PreemptRequiredInd RNSAP-PROTOCOL-IES ::= {
    { ID id-EDCH-MacdFlowSpecificInformationItem-RL-PreemptRequiredInd
                                                                          CRITICALITY ignore TYPE EDCH-MacdFlowSpecificInformationItem-RL-
PreemptRequiredInd PRESENCE mandatory }
EDCH-MacdFlowSpecificInformationItem-RL-PreemptRequiredInd ::= SEQUENCE {
    eDCH-MACdFlow-ID
                               EDCH-MACdFlow-ID,
   iE-Extensions
                               ProtocolExtensionContainer { { EDCH-MacdFlowSpecificInformation-RL-PreemptReguiredInd-ExtIEs } } OPTIONAL.
    . . .
EDCH-MacdFlowSpecificInformation-RL-PreemptRequiredInd-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
```

```
-- RADIO LINK RESTORE INDICATION
RadioLinkRestoreIndication ::= SEQUENCE {
                                                              {{RadioLinkRestoreIndication-IEs}},
   protocolIEs
                                  ProtocolIE-Container
   protocolExtensions
                                  ProtocolExtensionContainer {{RadioLinkRestoreIndication-Extensions}}
                                                                                                                        OPTIONAL,
    . . .
}
RadioLinkRestoreIndication-IEs RNSAP-PROTOCOL-IES ::= {
    { ID id-Reporting-Object-RL-RestoreInd CRITICALITY ignore TYPE Reporting-Object-RL-RestoreInd
                                                                                                             PRESENCE mandatory
                                                                                                                                   }.
   . . .
}
Reporting-Object-RL-RestoreInd ::= CHOICE {
                          RL-RL-RestoreInd, --TDD only
   rL
   rL-Set
                          RL-Set-RL-RestoreInd, --FDD only
    ...,
   cCTrCH
                          CCTrCH-RL-RestoreInd --TDD only
RL-RL-RestoreInd ::= SEOUENCE {
   rL-InformationList-RL-RestoreInd
                                          RL-InformationList-RL-RestoreInd,
   iE-Extensions
                                          ProtocolExtensionContainer { { RLItem-RL-RestoreInd-ExtIEs } } OPTIONAL,
   . . .
}
RLItem-RL-RestoreInd-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
   . . .
                                          ::= SEQUENCE (SIZE (1..maxNrOfRLs)) OF ProtocolIE-Single-Container { {RL-Information-RL-RestoreInd-IEs}
RL-InformationList-RL-RestoreInd
RL-Information-RL-RestoreInd-IEs RNSAP-PROTOCOL-IES ::= {
                                            CRITICALITY ignore TYPE RL-Information-RL-RestoreInd
    { ID id-RL-Information-RL-RestoreInd
                                                                                                             PRESENCE mandatory
RL-Information-RL-RestoreInd ::= SEQUENCE {
   rL-ID
                               RL-ID.
   iE-Extensions
                                   ProtocolExtensionContainer { {RL-Information-RL-RestoreInd-ExtIEs } } OPTIONAL,
    . . .
RL-Information-RL-RestoreInd-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
}
RL-Set-RL-RestoreInd ::= SEQUENCE {
   rL-Set-InformationList-RL-RestoreInd
                                          RL-Set-InformationList-RL-RestoreInd,
   iE-Extensions
                                          ProtocolExtensionContainer { { RL-SetItem-RL-RestoreInd-ExtIEs } } OPTIONAL,
    . . .
```

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```
}
RL-SetItem-RL-RestoreInd-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
}
                                                ::= SEQUENCE (SIZE (1..maxNrOfRLSets)) OF ProtocolIE-Single-Container { {RL-Set-Information-RL-
RL-Set-InformationList-RL-RestoreInd
RestoreInd-IEs} }
RL-Set-Information-RL-RestoreInd-IES RNSAP-PROTOCOL-IES ::= {
    { ID id-RL-Set-Information-RL-RestoreInd
                                                    CRITICALITY ignore TYPE RL-Set-Information-RL-RestoreInd
                                                                                                                         PRESENCE mandatory
}
RL-Set-Information-RL-RestoreInd ::= SEQUENCE {
   rL-Set-ID
                                    RL-Set-ID.
   iE-Extensions
                                    ProtocolExtensionContainer { {RL-Set-Information-RL-RestoreInd-ExtIEs} } OPTIONAL,
    . . .
RL-Set-Information-RL-RestoreInd-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
RadioLinkRestoreIndication-Extensions RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
}
CCTrCH-RL-RestoreInd ::= SEQUENCE {
    rL-ID
                                                RL-ID,
    cCTrCH-InformationList-RL-RestoreInd
                                                CCTrCH-InformationList-RL-RestoreInd,
   iE-Extensions
                                            ProtocolExtensionContainer { { CCTrCHItem-RL-RestoreInd-ExtIEs } }
                                                                                                                         OPTIONAL,
    . . .
CCTrCHItem-RL-RestoreInd-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
CCTrCH-InformationList-RL-RestoreInd ::= SEQUENCE (SIZE (1..maxNrOfCCTrCHs)) OF ProtocolIE-Single-Container {{ CCTrCH-InformationItemIE-RL-
RestoreInd}
CCTrCH-InformationItemIE-RL-RestoreInd RNSAP-PROTOCOL-IES ::= {
    { ID id-CCTrCH-InformationItem-RL-RestoreInd
                                                                                            TYPE CCTrCH-InformationItem-RL-RestoreInd
                                                      CRITICALITY
                                                                            ignore
    PRESENCE mandatory }
}
CCTrCH-InformationItem-RL-RestoreInd ::= SEOUENCE {
    cCTrCH-ID
                                                    CCTrCH-ID,
   iE-Extensions
                                                ProtocolExtensionContainer { { CCTrCH-InformationItem-RL-RestoreInd-ExtIEs } }
                                                                                                                                        OPTIONAL,
    . . .
 }
CCTrCH-InformationItem-RL-RestoreInd-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
```

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\_ \_ -- DOWNLINK POWER CONTROL REQUEST \*\*\*\*\*\*\*\*\*\*\*\* DL-PowerControlRequest ::= SEQUENCE { {{DL-PowerControlRequest-IEs}}, protocolIEs ProtocolIE-Container protocolExtensions ProtocolExtensionContainer {{DL-PowerControlRequest-Extensions}} OPTIONAL, . . . 3 DL-PowerControlRequest-IEs RNSAP-PROTOCOL-IES ::= { ID id-PowerAdjustmentType CRITICALITY ignore TYPE PowerAdjustmentType PRESENCE mandatory } ID id-DLReferencePower CRITICALITY ignore PRESENCE conditional TYPE DL-Power -- This IE shall be present if Power Adjustment Type IE equals to 'Common' { ID id-InnerLoopDLPCStatus CRITICALITY ignore PRESENCE optional } TYPE InnerLoopDLPCStatus PRESENCE conditional } { ID id-DLReferencePowerList-DL-PC-Rqst CRITICALITY iqnore TYPE DL-ReferencePowerInformationList-DL-PC-Rqst -- This IE shall be present if Power Adjustment Type IE equals to 'Individual' { ID id-MaxAdjustmentStep CRITICALITY ignore TYPE MaxAdjustmentStep PRESENCE conditional } -- This IE shall be present if Power Adjustment Type IE equals to 'Common' or 'Individual' { ID id-AdjustmentPeriod CRITICALITY ignore TYPE AdjustmentPeriod PRESENCE conditional }| -- This IE shall be present if Power Adjustment Type IE equals to 'Common' or 'Individual' { ID id-AdjustmentRatio CRITICALITY ignore TYPE ScaledAdjustmentRatio PRESENCE conditional }, -- This IE shall be present if Power Adjustment Type IE equals to 'Common' or 'Individual' . . . DL-ReferencePowerInformationList-DL-PC-Rqst ::= SEQUENCE (SIZE (1..maxNrOfRLs)) OF ProtocolIE-Single-Container { {DL-ReferencePowerInformation-DL-PC-Rqst-IEs } } DL-ReferencePowerInformation-DL-PC-Rqst-IEs RNSAP-PROTOCOL-IES ::= { ID id-DL-ReferencePowerInformation-DL-PC-Rqst CRITICALITY ignore TYPE DL-ReferencePowerInformation-DL-PC-Rqst PRESENCE mandatory } DL-ReferencePowerInformation-DL-PC-Rqst ::= SEQUENCE { rL-TD RL-ID, dl-Reference-Power DL-Power. ProtocolExtensionContainer { {DL-ReferencePowerInformation-DL-PC-Rqst-ExtIEs} } OPTIONAL, iE-Extensions . . . } DL-ReferencePowerInformation-DL-PC-Rgst-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= { . . . DL-PowerControlRequest-Extensions RNSAP-PROTOCOL-EXTENSION ::=

```
. . .
    -- DOWNLINK POWER TIMESLOT CONTROL REQUEST TDD
- -
  *****
DL-PowerTimeslotControlRequest ::= SEQUENCE {
                                                        {{DL-PowerTimeslotControlRequest-IEs}},
   protocolIEs
                               ProtocolIE-Container
   protocolExtensions
                               ProtocolExtensionContainer {{DL-PowerTimeslotControlRequest-Extensions}}
                                                                                                                 OPTIONAL,
   . . .
DL-PowerTimeslotControlRequest-IEs RNSAP-PROTOCOL-IES ::= {
   { ID id-timeSlot-ISCP CRITICALITY ignore TYPE DL-TimeSlot-ISCP-Info PRESENCE optional},
   --Mandatory for 3.84Mcps TDD and 7.68 Mcps TDD only
   . . .
3
DL-PowerTimeslotControlRequest-Extensions RNSAP-PROTOCOL-EXTENSION ::= {
   { ID id-timeSlot-ISCP-LCR-List-DL-PC-Rqst-TDD CRITICALITY iqnore
                                                                   EXTENSION DL-TimeSlot-ISCP-LCR-Information PRESENCE optional }
   --Mandatory for 1.28Mcps TDD only
   { ID id-PrimCCPCH-RSCP-DL-PC-RqstTDD
                                              CRITICALITY ignore
                                                                   EXTENSION PrimaryCCPCH-RSCP
   PRESENCE optional }|
   { ID id-PrimaryCCPCH-RSCP-Delta
                                              CRITICALITY ignore
                                                                   EXTENSION PrimaryCCPCH-RSCP-Delta
   PRESENCE optional },
   . . .
  -- PHYSICAL CHANNEL RECONFIGURATION REQUEST FDD
- -
  PhysicalChannelReconfigurationRequestFDD ::= SEQUENCE {
                                                        {{PhysicalChannelReconfigurationRequestFDD-IEs}},
   protocolIEs
                               ProtocolIE-Container
   protocolExtensions
                                ProtocolExtensionContainer {{PhysicalChannelReconfigurationRequestFDD-Extensions}}
                                                                                                                          OPTIONAL,
   . . .
}
PhysicalChannelReconfigurationRequestFDD-IEs RNSAP-PROTOCOL-IES ::= {
   { ID id-RL-Information-PhyChReconfRqstFDD CRITICALITY reject TYPE RL-Information-PhyChReconfRqstFDD
                                                                                                           PRESENCE mandatory
                                                                                                                               }.
   . . .
}
RL-Information-PhyChReconfRqstFDD ::= SEQUENCE {
   rL-ID
                            RL-ID,
   dl-CodeInformation
                                DL-CodeInformationList-PhyChReconfRqstFDD,
   iE-Extensions
                                ProtocolExtensionContainer { {RL-Information-PhyChReconfRqstFDD-ExtIEs} } OPTIONAL,
   . . .
```

```
RL-Information-PhyChReconfRgstFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
   { ID id-F-DPCH-SlotFormat
                                         CRITICALITY ignore EXTENSION F-DPCH-SlotFormat
                                                                                           PRESENCE optional },
    . . .
3
                                           ::= ProtocolIE-Single-Container { {DL-CodeInformationListIEs-PhyChReconfRgstFDD} }
DL-CodeInformationList-PhyChReconfRqstFDD
DL-CodeInformationListIEs-PhyChReconfRqstFDD RNSAP-PROTOCOL-IES ::= {
    { ID id-FDD-DL-CodeInformation CRITICALITY notify TYPE FDD-DL-CodeInformation PRESENCE mandatory
PhysicalChannelReconfigurationReguestFDD-Extensions RNSAP-PROTOCOL-EXTENSION ::= {
    _ _
-- PHYSICAL CHANNEL RECONFIGURATION REQUEST TDD
   ******
PhysicalChannelReconfigurationRequestTDD ::= SEQUENCE {
   protocolIEs
                                  ProtocolIE-Container
                                                            {{PhysicalChannelReconfigurationRequestTDD-IEs}},
                                  ProtocolExtensionContainer {{PhysicalChannelReconfigurationRequestTDD-Extensions}}
   protocolExtensions
                                                                                                                                   OPTIONAL.
    . . .
}
PhysicalChannelReconfigurationReguestTDD-IEs RNSAP-PROTOCOL-IES ::= {
    { ID id-RL-Information-PhyChReconfRqstTDD CRITICALITY reject TYPE RL-Information-PhyChReconfRqstTDD
                                                                                                                   PRESENCE mandatory
                                                                                                                                        },
    . . .
RL-Information-PhyChReconfRqstTDD ::= SEQUENCE {
   rL-TD
                              RL-ID,
   ul-CCTrCH-Information
                              UL-CCTrCH-InformationList-PhyChReconfRqstTDD
                                                                            OPTIONAL,
   dl-CCTrCH-Information
                              DL-CCTrCH-InformationList-PhyChReconfRqstTDD
                                                                            OPTIONAL,
                              ProtocolExtensionContainer { {RL-Information-PhyChReconfRgstTDD-ExtIEs} } OPTIONAL,
   iE-Extensions
    . . .
RL-Information-PhyChReconfRqstTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    { ID id-HSPDSCH-Timeslot-InformationList-PhyChReconfRqstTDD
                                                                     CRITICALITY reject EXTENSION HSPDSCH-Timeslot-InformationList-
PhyChReconfRqstTDD
                      PRESENCE optional } |
    --For 3.84Mcps TDD only
    { ID id-HSPDSCH-Timeslot-InformationListLCR-PhyChReconfRqstTDD
                                                                     CRITICALITY reject EXTENSION HSPDSCH-Timeslot-InformationListLCR-
PhyChReconfRqstTDD PRESENCE optional }
    --For 1.28Mcps TDD only
    { ID id-HSPDSCH-Timeslot-InformationList-PhyChReconfRqstTDD768
                                                                     CRITICALITY reject EXTENSION HSPDSCH-Timeslot-InformationList-
PhyChReconfRqstTDD768
                          PRESENCE optional }|
    --For 7.68Mcps TDD only
    { ID id-UARFCNforNt
                                                                     CRITICALITY ignore EXTENSION UARFCN
                                                                                                                  PRESENCE optional },
    -- Applicable to 1.28Mcps TDD only
```

```
UL-CCTrCH-InformationList-PhyChReconfRgstTDD
                                                    ::= ProtocolIE-Single-Container { {UL-CCTrCH-InformationListIEs-PhyChReconfRgstTDD} }
UL-CCTrCH-InformationListIEs-PhyChReconfRgstTDD RNSAP-PROTOCOL-IES ::= {
    { ID id-UL-CCTrCH-InformationListIE-PhyChReconfRgstTDD
                                                                CRITICALITY reject TYPE UL-CCTrCH-InformationListIE-PhyChReconfRgstTDD
    PRESENCE mandatory
UL-CCTrCH-InformationListIE-PhyChReconfRqstTDD ::= SEQUENCE (SIZE (1..maxNrOfCCTrCHs)) OF UL-CCTrCH-InformationItem-PhyChReconfRqstTDD
UL-CCTrCH-InformationItem-PhyChReconfRqstTDD ::= SEQUENCE {
    cCTrCH-ID
                                    CCTrCH-ID.
    ul-DPCH-Information
                                    UL-DPCH-InformationList-PhyChReconfRqstTDD,
                                    ProtocolExtensionContainer { {UL-CCTrCH-InformationItem-PhyChReconfRgstTDD-ExtIEs} } OPTIONAL,
    iE-Extensions
    . . .
UL-CCTrCH-InformationItem-PhyChReconfRqstTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
UL-DPCH-InformationList-PhyChReconfRqstTDD ::= ProtocolIE-Single-Container {{UL-DPCH-InformationListIEs-PhyChReconfRqstTDD}}
UL-DPCH-InformationListIEs-PhyChReconfRqstTDD RNSAP-PROTOCOL-IES ::= {
    { ID id-UL-DPCH-InformationItem-PhyChReconfRqstTDD CRITICALITY notify TYPE UL-DPCH-InformationItem-PhyChReconfRqstTDD
                                                                                                                                        PRESENCE
mandatory }
UL-DPCH-InformationItem-PhyChReconfRqstTDD ::= SEQUENCE {
    repetitionPeriod
                                    RepetitionPeriod
                                                            OPTIONAL,
    repetitionLength
                                    RepetitionLength
                                                            OPTIONAL,
    tDD-DPCHOffset
                                    TDD-DPCHOffset
                                                            OPTIONAL,
    uL-Timeslot-InformationList-PhyChReconfRqstTDD
                                                            UL-Timeslot-InformationList-PhyChReconfRqstTDD
                                                                                                                         OPTIONAL,
    --For 3.84Mcps TDD only
    iE-Extensions
                                    ProtocolExtensionContainer { { UL-DPCH-InformationItem-PhyChReconfRgstTDD-ExtIEs } } OPTIONAL,
    . . .
UL-DPCH-InformationItem-PhyChReconfRqstTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::=
    { ID id-UL-Timeslot-LCR-InformationList-PhyChReconfRqstTDD CRITICALITY reject
                                                                                         EXTENSION UL-TimeslotLCR-InformationList-
PhyChReconfRqstTDD
                        PRESENCE optional }
    --For 1.28Mcps TDD only
    { ID id-UL-Timeslot-InformationList-PhyChReconfRqstTDD768 CRITICALITY reject
                                                                                         EXTENSION UL-Timeslot-InformationList-
PhyChReconfRqstTDD768
                            PRESENCE optional },
    --For 7.68Mcps TDD only
    . . .
ļ
UL-TimeslotLCR-InformationList-PhyChReconfRqstTDD::= SEQUENCE ( SIZE (1..maxNrOfTsLCR)) OF UL-TimeslotLCR-InformationItem-PhyChReconfRqstTDD
UL-TimeslotLCR-InformationItem-PhyChReconfRqstTDD ::= SEQUENCE
    timeSlotLCR
                                    TimeSlotLCR,
    midambleShiftLCR
                                    MidambleShiftLCR
                                                            OPTIONAL,
```

```
tFCI-Presence
                                    TFCI-Presence
                                                        OPTIONAL,
    uL-Code-LCR-Information
                                    TDD-UL-Code-LCR-Information
                                                                     OPTIONAL.
    iE-Extensions
                                    ProtocolExtensionContainer { { UL-TimeslotLCR-InformationItem-PhyChReconfRgstTDD-ExtIEs } } OPTIONAL,
    . . .
UL-TimeslotLCR-InformationItem-PhyChReconfRqstTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    { ID id-PLCCH-Information-PhyChReconfRqstTDD
                                                        CRITICALITY reject
                                                                                 EXTENSION PLCCHinformation
                                                                                                                         PRESENCE optional },
    . . .
}
UL-Timeslot-InformationList-PhyChReconfRqstTDD::= SEQUENCE (SIZE (1..maxNrOfTS)) OF UL-Timeslot-InformationItem-PhyChReconfRqstTDD
UL-Timeslot-InformationItem-PhyChReconfRqstTDD ::= SEQUENCE {
    timeSlot
                                    TimeSlot,
    midambleShiftAndBurstType
                                                MidambleShiftAndBurstType
                                                                                 OPTIONAL,
    tFCI-Presence
                                    TFCI-Presence
                                                        OPTIONAL,
    uL-Code-Information
                                TDD-UL-Code-Information
                                                            OPTIONAL,
    iE-Extensions
                                    ProtocolExtensionContainer { { UL-Timeslot-InformationItem-PhyChReconfRgstTDD-ExtIEs } } OPTIONAL,
    . . .
UL-Timeslot-InformationItem-PhyChReconfRqstTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
UL-Timeslot-InformationList-PhyChReconfRgstTDD768::= SEOUENCE (SIZE (1..maxNrOfTS)) OF UL-Timeslot-InformationItem-PhyChReconfRgstTDD768
UL-Timeslot-InformationItem-PhyChReconfRgstTDD768 ::= SEQUENCE {
    timeSlot
                                    TimeSlot,
    midambleShiftAndBurstType768
                                    MidambleShiftAndBurstType768
                                                                         OPTIONAL,
    tFCI-Presence
                                    TFCI-Presence
                                                        OPTIONAL,
    uL-Code-Information768
                                    TDD-UL-Code-Information768
                                                                    OPTIONAL,
                                    ProtocolExtensionContainer { { UL-Timeslot-InformationItem-PhyChReconfRgstTDD768-ExtIEs } } OPTIONAL,
    iE-Extensions
    . . .
UL-Timeslot-InformationItem-PhyChReconfRgstTDD768-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
}
                                                    ::= ProtocollE-Single-Container { {DL-CCTrCH-InformationListIEs-PhyChReconfRqstTDD} }
DL-CCTrCH-InformationList-PhyChReconfRqstTDD
DL-CCTrCH-InformationListIEs-PhyChReconfRqstTDD RNSAP-PROTOCOL-IES ::= {
    { ID id-DL-CCTrCH-InformationListIE-PhyChReconfRqstTDD CRITICALITY reject TYPE DL-CCTrCH-InformationListIE-PhyChReconfRqstTDD
    PRESENCE mandatory }
}
DL-CCTrCH-InformationListIE-PhyChReconfRqstTDD ::= SEQUENCE (SIZE (1..maxNrOfCCTrCHs)) OF DL-CCTrCH-InformationItem-PhyChReconfRqstTDD
DL-CCTrCH-InformationItem-PhyChReconfRqstTDD ::= SEQUENCE {
    cCTrCH-ID
                                    CCTrCH-ID,
    dl-DPCH-Information
                                    DL-DPCH-InformationList-PhyChReconfRqstTDD,
                                    ProtocolExtensionContainer { {DL-CCTrCH-InformationItem-PhyChReconfRqstTDD-ExtIEs } } OPTIONAL,
    iE-Extensions
```

```
. . .
3
DL-CCTrCH-InformationItem-PhyChReconfRgstTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
3
DL-DPCH-InformationList-PhyChReconfRqstTDD ::= ProtocolIE-Single-Container {{DL-DPCH-InformationListIEs-PhyChReconfRqstTDD}}
DL-DPCH-InformationListIEs-PhyChReconfRqstTDD RNSAP-PROTOCOL-IES ::= {
    { ID id-DL-DPCH-InformationItem-PhyChReconfRqstTDD CRITICALITY notify TYPE DL-DPCH-InformationItem-PhyChReconfRqstTDD
                                                                                                                                         PRESENCE
mandatory }
DL-DPCH-InformationItem-PhyChReconfRgstTDD ::= SEQUENCE
    repetitionPeriod
                                                     RepetitionPeriod
                                                                                                                                            OPTIONAL,
    repetitionLength
                                                     RepetitionLength
                                                                                                                                            OPTIONAL,
    tDD-DPCHOffset
                                                     TDD-DPCHOffset
                                                                                                                                            OPTIONAL,
    dL-Timeslot-InformationList-PhyChReconfRgstTDD DL-Timeslot-InformationList-PhyChReconfRgstTDD
                                                                                                                                            OPTIONAL,
                                                     ProtocolExtensionContainer { {DL-DPCH-InformationItem-PhyChReconfRgstTDD-ExtIEs } }
    iE-Extensions
                                                                                                                                            OPTIONAL,
    . . .
DL-DPCH-InformationItem-PhyChReconfRqstTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    { ID id-DL-Timeslot-LCR-InformationList-PhyChReconfRqstTDD
                                                                     CRITICALITY reject
                                                                                             EXTENSION DL-TimeslotLCR-InformationList-
PhyChReconfRqstTDD
                        PRESENCE optional }|
    --For 1.28Mcps TDD only
    { ID id-DL-Timeslot-InformationList-PhyChReconfRqstTDD768
                                                                     CRITICALITY reject
                                                                                             EXTENSION DL-Timeslot-InformationList-
PhyChReconfRqstTDD768
                            PRESENCE optional },
    --For 7.68Mcps TDD only
    . . .
DL-TimeslotLCR-InformationList-PhyChReconfRqstTDD::= SEQUENCE (SIZE (1..maxNrOfTsLCR)) OF DL-TimeslotLCR-InformationItem-PhyChReconfRqstTDD
DL-TimeslotLCR-InformationItem-PhyChReconfRqstTDD ::= SEQUENCE {
    timeSlotLCR
                                    TimeSlotLCR,
                                    MidambleShiftLCR
    midambleShiftLCR
                                                             OPTIONAL,
    tFCI-Presence
                                    TFCI-Presence
                                                         OPTIONAL,
    dL-Code-LCR-Information
                                    TDD-DL-Code-LCR-Information
                                                                     OPTIONAL,
                                    ProtocolExtensionContainer { {DL-TimeslotLCR-InformationItem-PhyChReconfRqstTDD-ExtIEs } } OPTIONAL,
    iE-Extensions
    . . .
DL-TimeslotLCR-InformationItem-PhyChReconfRqstTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
DL-Timeslot-InformationList-PhyChReconfRqstTDD::= SEQUENCE ( SIZE (1..maxNrOfTS)) OF DL-Timeslot-InformationItem-PhyChReconfRqstTDD
DL-Timeslot-InformationItem-PhyChReconfRqstTDD ::= SEQUENCE {
    timeSlot
                                    TimeSlot,
    midambleShiftAndBurstType
                                                MidambleShiftAndBurstType
                                                                                 OPTIONAL,
    tFCI-Presence
                                    TFCI-Presence
                                                         OPTIONAL,
```

```
dL-Code-Information
                                TDD-DL-Code-Information
                                                             OPTIONAL,
    iE-Extensions
                                    ProtocolExtensionContainer { {DL-Timeslot-InformationItem-PhyChReconfRgstTDD-ExtIEs} } OPTIONAL,
    . . .
DL-Timeslot-InformationItem-PhyChReconfRqstTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
DL-Timeslot-InformationList-PhyChReconfRqstTDD768::= SEQUENCE (SIZE (1..maxNrOfTS)) OF DL-Timeslot-InformationItem-PhyChReconfRqstTDD768
DL-Timeslot-InformationItem-PhyChReconfRqstTDD768 ::= SEQUENCE {
    timeSlot
                                    TimeSlot.
   midambleShiftAndBurstType768 MidambleShiftAndBurstType768
                                                                         OPTIONAL,
                                    TFCI-Presence
    tFCI-Presence
                                                        OPTIONAL.
    dL-Code-Information768
                                    TDD-DL-Code-Information768
                                                                     OPTIONAL,
                                    ProtocolExtensionContainer { {DL-Timeslot-InformationItem-PhyChReconfRqstTDD768-ExtIEs} } OPTIONAL,
    iE-Extensions
    . . .
DL-Timeslot-InformationItem-PhyChReconfRqstTDD768-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
HSPDSCH-Timeslot-InformationList-PhyChReconfRgstTDD ::= SEQUENCE (SIZE (1..maxNrOfDLTs)) OF HSPDSCH-Timeslot-InformationItem-PhyChReconfRgstTDD
HSPDSCH-Timeslot-InformationItem-PhyChReconfRgstTDD::= SEQUENCE {
    timeslot
                                                     TimeSlot,
    midambleShiftAndBurstType
                                                     MidambleShiftAndBurstType,
                                                     ProtocolExtensionContainer { { HSPDSCH-Timeslot-InformationItem-PhyChReconfRqstTDD-ExtIEs } }
    iE-Extensions
           OPTIONAL,
    . . .
HSPDSCH-Timeslot-InformationItem-PhyChReconfRqstTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
HSPDSCH-Timeslot-InformationListLCR-PhyChReconfRqstTDD::= SEQUENCE (SIZE (1..maxNrOfDLTsLCR)) OF HSPDSCH-Timeslot-InformationItemLCR-
PhyChReconfRqstTDD
HSPDSCH-Timeslot-InformationItemLCR-PhyChReconfRqstTDD::= SEQUENCE {
                                                TimeSlotLCR,
    timeslotLCR
    midambleShiftLCR
                                                MidambleShiftLCR,
                                                ProtocolExtensionContainer { { HSPDSCH-Timeslot-InformationItemLCR-PhvChReconfRgstTDD-ExtIEs } }
    iE-Extensions
           OPTIONAL,
    . . .
}
HSPDSCH-Timeslot-InformationItemLCR-PhyChReconfRqstTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
```

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HSPDSCH-Timeslot-InformationList-PhyChReconfRqstTDD768 ::= SEQUENCE (SIZE (1..maxNrOfDLTs)) OF HSPDSCH-Timeslot-InformationItem-PhyChReconfRqstTDD768

```
HSPDSCH-Timeslot-InformationItem-PhyChReconfRqstTDD768::= SEQUENCE {
   timeslot
                                         TimeSlot,
   midambleShiftAndBurstType768
                                         MidambleShiftAndBurstType768,
                                         iE-Extensions
         OPTIONAL,
   . . .
HSPDSCH-Timeslot-InformationItem-PhyChReconfRgstTDD768-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
   . . .
PhysicalChannelReconfigurationReguestTDD-Extensions RNSAP-PROTOCOL-EXTENSION ::= {
   . . .
   - -
-- PHYSICAL CHANNEL RECONFIGURATION COMMAND
     PhysicalChannelReconfigurationCommand ::= SEQUENCE
                                                   {{PhysicalChannelReconfigurationCommand-IEs}},
   protocolIEs
                            ProtocolIE-Container
   protocolExtensions
                            ProtocolExtensionContainer {{PhysicalChannelReconfigurationCommand-Extensions}}
                                                                                                           OPTIONAL,
   . . .
}
PhysicalChannelReconfigurationCommand-IEs RNSAP-PROTOCOL-IES ::= {
    ID id-CFN
                         CRITICALITY ignore TYPE CFN
                                                                PRESENCE mandatory
    ID id-CriticalityDiagnostics
                                                                              PRESENCE optional
                               CRITICALITY ignore TYPE CriticalityDiagnostics
                                                                                                },
   . . .
PhysicalChannelReconfigurationCommand-Extensions RNSAP-PROTOCOL-EXTENSION ::= {
   . . .
  - -
-- PHYSICAL CHANNEL RECONFIGURATION FAILURE
PhysicalChannelReconfigurationFailure ::= SEQUENCE {
   protocolIEs
                            ProtocolIE-Container
                                                  {{PhysicalChannelReconfigurationFailure-IEs}},
                           ProtocolExtensionContainer {{PhysicalChannelReconfigurationFailure-Extensions}}
   protocolExtensions
                                                                                                           OPTIONAL,
   . . .
}
```

```
PhysicalChannelReconfigurationFailure-IEs RNSAP-PROTOCOL-IES ::= {
```

```
ID id-Cause
                                  CRITICALITY ignore TYPE Cause
                                                                               PRESENCE mandatory } |
     ID id-CriticalityDiagnostics
                                         CRITICALITY ignore TYPE CriticalityDiagnostics
                                                                                            PRESENCE optional
                                                                                                                 },
   . . .
PhysicalChannelReconfigurationFailure-Extensions RNSAP-PROTOCOL-EXTENSION ::= {
     -- RADIO LINK CONGESTION INDICATION
       RadioLinkCongestionIndication ::= SEQUENCE {
   protocolIEs
                                                           {{RadioLinkCongestionIndication-IEs}},
                                 ProtocolIE-Container
                                 ProtocolExtensionContainer {{RadioLinkCongestionIndication-Extensions}}
   protocolExtensions
                                                                                                                      OPTIONAL,
   . . .
3
RadioLinkCongestionIndication-IEs RNSAP-PROTOCOL-IES ::= {
     ID id-CongestionCause
                              CRITICALITY ignore TYPE CongestionCause
                                                                                                                   PRESENCE optional }|
     ID id-RL-InformationList-RL-CongestInd CRITICALITY ignore TYPE RL-InformationList-RL-CongestInd
                                                                                                                 PRESENCE mandatory },
   . . .
}
RL-InformationList-RL-CongestInd
                                        ::= SEQUENCE (SIZE (1..maxNrOfRLs)) OF ProtocollE-Single-Container { {RL-InformationItemIEs-RL-
CongestInd} }
RL-InformationItemIEs-RL-CongestInd RNSAP-PROTOCOL-IES ::= {
   { ID id-RL-InformationItem-RL-CongestInd
                                                 CRITICALITY ignore TYPE RL-InformationItem-RL-CongestInd
                                                                                                                 PRESENCE mandatory
RL-InformationItem-RL-CongestInd ::= SEQUENCE {
   rL-TD
                                     RL-ID,
   dCH-Rate-Information
                              DCH-Rate-Information-RL-CongestInd,
                              ProtocolExtensionContainer { {RL-Information-RL-CongestInd-ExtIEs } } OPTIONAL,
   iE-Extensions
   . . .
DCH-Rate-Information-RL-CongestInd ::= SEQUENCE (SIZE (1..maxNrOfDCHs)) OF ProtocolIE-Single-Container { {DCH-Rate-InformationItemIEs-RL-
CongestInd } }
DCH-Rate-InformationItemIEs-RL-CongestInd RNSAP-PROTOCOL-IES ::=
     ID id-DCH-Rate-InformationItem-RL-CongestInd
                                                    CRITICALITY ignore TYPE DCH-Rate-InformationItem-RL-CongestInd
                                                                                                                        PRESENCE mandatory
}
DCH-Rate-InformationItem-RL-CongestInd ::= SEQUENCE {
   dCH-ID
                              DCH-ID,
   allowed-Rate-Information
                             Allowed-Rate-Information OPTIONAL,
   iE-Extensions
                              ProtocolExtensionContainer { {DCH-Rate-InformationItem-RL-CongestInd-ExtIEs} } OPTIONAL,
   . . .
```

```
DCH-Rate-InformationItem-RL-CongestInd-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
}
RL-Information-RL-CongestInd-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    { ID id-EDCH-MacdFlowSpecificInformationList-RL-CongestInd CRITICALITY ignore EXTENSION EDCH-MacdFlowSpecificInformationList-RL-CongestInd
PRESENCE optional }|
                                                    CRITICALITY ignore EXTENSION DCH-Indicator-For-E-DCH-HSDPA-Operation
   { ID id-DCH-Indicator-For-E-DCH-HSDPA-Operation
                          PRESENCE optional },
    . . .
۱
RadioLinkCongestionIndication-Extensions RNSAP-PROTOCOL-EXTENSION ::= {
EDCH-MacdFlowSpecificInformationList-RL-CongestInd ::= SEQUENCE (SIZE (1.. maxNrOfEDCHMACdFlows)) OF ProtocolIE-Single-Container { {EDCH-
MacdFlowSpecificInformationItemIEs-RL-CongestInd } }
EDCH-MacdFlowSpecificInformationItemIEs-RL-ConqestInd RNSAP-PROTOCOL-IES ::= {
    { ID id-EDCH-MacdFlowSpecificInformationItem-RL-CongestInd
                                                                CRITICALITY ignore TYPE EDCH-MacdFlowSpecificInformationItem-RL-CongestInd
   PRESENCE mandatory }
}
EDCH-MacdFlowSpecificInformationItem-RL-CongestInd ::= SEQUENCE {
   eDCH-MACdFlow-ID
                             EDCH-MACdFlow-ID,
                             ProtocolExtensionContainer { { EDCH-MacdFlowSpecificInformation-RL-CongestInd-ExtIEs } } OPTIONAL,
   iE-Extensions
    . . .
EDCH-MacdFlowSpecificInformation-RL-ConqestInd-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
   . . .
        -- UPLINK SIGNALLING TRANSFER INDICATION FDD
UplinkSignallingTransferIndicationFDD ::= SEQUENCE {
                                                           {{UplinkSignallingTransferIndicationFDD-IEs}},
   protocolIEs
                                 ProtocolIE-Container
                                 ProtocolExtensionContainer {{UplinkSignallingTransferIndicationFDD-Extensions}}
   protocolExtensions
                                                                                                                              OPTIONAL,
   . . .
}
UplinkSignallingTransferIndicationFDD-IEs RNSAP-PROTOCOL-IES ::= {
     ID id-UC-ID
                                                       CRITICALITY ignore
                                                                          TYPE UC-ID
                                                                                                                       PRESENCE mandatory
     ID id-SAI
                                                       CRITICALITY ignore TYPE SAI
                                                                                                                       PRESENCE mandatory
```

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	[ ID id-GA-Cell	CRITICALITY ignore	TYPE GA-Cell	PRESENCE optional
	ID id-C-RNTI	CRITICALITY ignore	TYPE C-RNTI	PRESENCE mandatory
	ID id-S-RNTI	CRITICALITY ignore	TYPE S-RNTI	PRESENCE mandatory
	ID id-D-RNTI	CRITICALITY ignore	TYPE D-RNTI	PRESENCE optional
	ID id-PropagationDelay	CRITICALITY ignore	TYPE PropagationDelay	PRESENCE mandatory
	   ID id-STTD-SupportIndicator	CRITICALITY ignore	TYPE STTD-SupportIndicator	<pre>PRESENCE mandatory }</pre>
	[ ID id-ClosedLoopMode1-SupportIndicator	CRITICALITY ignore	TYPE ClosedLoopModel-SupportIndicator	PRESENCE mandatory }
	[ ID id-L3-Information	CRITICALITY ignore	TYPE L3-Information	PRESENCE mandatory
	ID id-CN-PS-DomainIdentifier	CRITICALITY ignore	TYPE CN-PS-DomainIdentifier	PRESENCE optional
	ID id-CN-CS-DomainIdentifier	CRITICALITY ignore	TYPE CN-CS-DomainIdentifier	PRESENCE optional
	ID id-URA-Information	CRITICALITY ignore	TYPE URA-Information	PRESENCE optional
	···			

UplinkSignallingTransferIndicationFDD-Extensions RNSAP-PROTOCOL-EXTENSION ::= {

{ ID id-GA-CellAdditionalShapes	CRITICALITY ignore	EXTENSION GA-CellAdditionalShapes	PRESENCE optional }			
<pre>{ ID id-DPC-Mode-Change-SupportIndicator</pre>	CRITICALITY ignore	EXTENSION DPC-Mode-Change-SupportIndicator	PRESENCE optional }			
{ ID id-CommonTransportChannelResourcesInitialisationN	otRequired CRITICAL	ITY ignore	EXTENSION			
CommonTransportChannelResourcesInitialisationNotRequired	PRESENCE optional }					
{ ID id-CellCapabilityContainer-FDD	CRITICALITY ignore	EXTENSION CellCapabilityContainer-FDD	PRESENCE optional }			
{ ID id-SNA-Information	CRITICALITY ignore	EXTENSION SNA-Information	PRESENCE optional }			
{ ID id-CellPortionID	CRITICALITY ignore	EXTENSION CellPortionID	PRESENCE optional }			
<pre>{ ID id-Active-MBMS-Bearer-ServiceFDD</pre>	CRITICALITY ignore	EXTENSION Active-MBMS-Bearer-Service-ListFDD	PRESENCE optional}			
{ ID id-Inter-Frequency-Cell-List	CRITICALITY ignore	EXTENSION Inter-Frequency-Cell-List	PRESENCE optional }			
{ ID id-ExtendedPropagationDelay	CRITICALITY ignore	EXTENSION ExtendedPropagationDelay	PRESENCE optional }			
{ ID id-HSDSCH-RNTI	CRITICALITY ignore	EXTENSION HSDSCH-RNTI	PRESENCE optional }			
{ ID id-Multiple-PLMN-List	CRITICALITY ignore	EXTENSION Multiple-PLMN-List	PRESENCE optional }			
{ ID id-E-RNTI	CRITICALITY ignore	EXTENSION E-RNTI	PRESENCE optional }			
{ ID id-Max-UE-DTX-Cycle	CRITICALITY ignore	EXTENSION Max-UE-DTX-Cycle	PRESENCE			
conditional }						

. . .

-- This IE shall be present if the *Continuous Packet Connectivity DTX-DRX Support Indicator* IE in *Cell Capability Container FDD* IE is set to 1. { ID id-CellCapabilityContainerExtension-FDD CRITICALITY ignore EXTENSION CellCapabilityContainerExtension-FDD PRESENCE optional }|

ID id-Secondary-Serving-Cell-List CRITICALITY ignore EXTENSION Secondary-Serving-Cell-List PRESENCE optional }

ID id-Dual-Band-Secondary-Serving-Cell-List CRITICALITY ignore EXTENSION Secondary-Serving-Cell-List PRESENCE optional },

- -

}

- --- UPLINK SIGNALLING TRANSFER INDICATION TDD

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	ProtocolIE-Container {{Upl:	inkSignallingTransferIndicationTDD-IEs}}, inkSignallingTransferIndicationTDD-Extensions}}	OPTIONAL,
}			
UplinkSignallingTransferIndicationTD	- IES RNSAP-PROTOCOL-IES ··= {		
{ ID id-UC-ID	CRITICALITY ignore	TYPE UC-ID	<pre>PRESENCE mandatory }</pre>
{ ID id-SAI	CRITICALITY ignore	TYPE SAI	<pre>PRESENCE mandatory }</pre>
{ ID id-GA-Cell	CRITICALITY ignore	TYPE GA-Cell	<pre>PRESENCE optional }</pre>
{ ID id-C-RNTI	CRITICALITY ignore	TYPE C-RNTI	<pre>PRESENCE mandatory }</pre>
{ ID id-S-RNTI	CRITICALITY ignore	TYPE S-RNTI	<pre>PRESENCE mandatory }</pre>
{ ID id-D-RNTI	CRITICALITY ignore	TYPE D-RNTI	PRESENCE optional }
{ ID id-RxTimingDeviationForTA	CRITICALITY ignore	TYPE RxTimingDeviationForTA	PRESENCE mandatory }
{ ID id-L3-Information	CRITICALITY ignore	TYPE L3-Information	PRESENCE mandatory }
{ ID id-CN-PS-DomainIdentifier	CRITICALITY ignore	TYPE CN-PS-DomainIdentifier	PRESENCE optional }
{ ID id-CN-CS-DomainIdentifier	CRITICALITY ignore	TYPE CN-CS-DomainIdentifier	PRESENCE optional }
{ ID id-URA-Information	CRITICALITY ignore	TYPE URA-Information	<pre>PRESENCE optional },</pre>
}			
UplinkSignallingTransferIndicationTD	D-Extensions RNSAP-PROTOCOL-EXTEN	NSION ::= {	
{ ID id-GA-CellAdditionalShapes	CRITICALITY ignore	EXTENSION GA-CellAdditionalShapes	PRESENCE optional }
	sourcesInitialisationNotRequired	CRITICALITY ignore	DDECENCE antional )
EXTENSION CommonTransportChannelReson { ID id-CellCapabilityContainer-' Applicable to 3.84Mcps TDD on:	TDD CRITICALITY ignore	EXTENSION CellCapabilityContainer-TDD	PRESENCE optional }  PRESENCE optional }
{ ID id-CellCapabilityContainer- - Applicable to 1.28Mcps TDD on	IDD-LCR CRITICALITY ignore	EXTENSION CellCapabilityContainer-TDD-LCR	PRESENCE optional }
{ ID id-SNA-Information	CRITICALITY ignore	EXTENSION SNA-Information	PRESENCE optional }
{ ID id-Active-MBMS-Bearer-Servic	5	EXTENSION Active-MBMS-Bearer-Service-ListTDD	PRESENCE optional }
{ ID id-CellCapabilityContainer- Applicable to 7.68Mcps TDD on	IDD768 CRITICALITY ignore	EXTENSION CellCapabilityContainer-TDD768	PRESENCE optional }
{ ID id-RxTimingDeviationForTA768		EXTENSION RxTimingDeviationForTA768	PRESENCE optional }
{ ID id-RxTimingDeviationForTAex		EXTENSION RXTimingDeviationForTAext	PRESENCE optional }
{ ID id-Multiple-PLMN-List	CRITICALITY ignore	EXTENSION Multiple-PLMN-List	PRESENCE optional }
{ ID id-HSDSCH-RNTI	CRITICALITY ignore	EXTENSION HSDSCH-RNTI	PRESENCE optional }
{ ID id-E-RNTI	CRITICALITY ignore	EXTENSION E-RNTI	PRESENCE optional }
{ ID id-CellPortionLCRID	CRITICALITY ignore	EXTENSION CellPortionLCRID	PRESENCE optional },

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}

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```
-- DOWNLINK SIGNALLING TRANSFER REQUEST
DownlinkSignallingTransferReguest ::= SEQUENCE {
                                                         {{DownlinkSignallingTransferRequest-IEs}},
   protocolIEs
                                ProtocolIE-Container
                               ProtocolExtensionContainer {{DownlinkSignallingTransferRequest-Extensions}}
   protocolExtensions
                                                                                                                    OPTIONAL.
   . . .
}
DownlinkSignallingTransferRequest-IEs RNSAP-PROTOCOL-IES ::= {
   { ID id-C-ID
                                   CRITICALITY ignore TYPE C-ID
                                                                                      PRESENCE mandatory } |
   -- May be a GERAN cell identifier
   { ID id-D-RNTI
                                   CRITICALITY ignore TYPE D-RNTI
                                                                                      PRESENCE mandatory }
     ID id-L3-Information
                                   CRITICALITY ignore TYPE L3-Information
                                                                                      PRESENCE mandatory }
                                   CRITICALITY ignore TYPE D-RNTI-ReleaseIndication
   { ID id-D-RNTI-ReleaseIndication
                                                                                       PRESENCE mandatory }
   . . .
}
DownlinkSignallingTransferRequest-Extensions RNSAP-PROTOCOL-EXTENSION ::= {
     ID id-URA-ID
                                   CRITICALITY ignore
                                                                                                           PRESENCE optional }
                                                         EXTENSION URA-ID
     ID id-MBMS-Bearer-Service-List
                                   CRITICALITY ignore
                                                                                                           PRESENCE optional}
                                                         EXTENSION MBMS-Bearer-Service-List
                                   CRITICALITY ignore
                                                                                                           PRESENCE optional }
     ID id-Old-URA-ID
                                                         EXTENSION URA-ID
                                                                                                           PRESENCE conditional } |
   { ID id-SRNC-ID
                                   CRITICALITY iqnore
                                                         EXTENSION RNC-ID
   -- This IE shall be present if the URA-ID IE or Old URA-ID IE is present.
   { ID id-Extended-SRNC-ID
                                   CRITICALITY reject
                                                         EXTENSION Extended-RNC-ID
                                                                                                           PRESENCE optional } |
   { ID id-Enhanced-PCH-Capability
                                   CRITICALITY ignore
                                                         EXTENSION Enhanced-PCH-Capability
                                                                                                           PRESENCE optional },
   -- FDD and 1.28Mcps TDD only
   . . .
}
- -
-- RELOCATION COMMIT
  RelocationCommit ::= SEQUENCE {
                                                        {{RelocationCommit-IEs}},
   protocolIEs
                                ProtocolIE-Container
                                ProtocolExtensionContainer {{RelocationCommit-Extensions}}
   protocolExtensions
                                                                                                     OPTIONAL,
   . . .
}
RelocationCommit-IEs RNSAP-PROTOCOL-IES ::= {
                                CRITICALITY ignore TYPE D-RNTI
     ID id-D-RNTI
                                                                           PRESENCE optional
    { ID id-RANAP-RelocationInformation
                                       CRITICALITY ignore TYPE RANAP-RelocationInformation
                                                                                              PRESENCE optional
                                                                                                                  },
   . . .
}
RelocationCommit-Extensions RNSAP-PROTOCOL-EXTENSION ::= {
   . . .
```

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```
-- PAGING REQUEST
- -
PagingRequest ::= SEQUENCE {
   protocolIEs
                                  ProtocolIE-Container
                                                            {{PagingReguest-IEs}},
                                 ProtocolExtensionContainer {{PagingRequest-Extensions}}
   protocolExtensions
                                                                                                       OPTIONAL,
   . . .
}
PagingRequest-IEs RNSAP-PROTOCOL-IES ::= {
     ID id-PagingArea-PagingRqst
                                         CRITICALITY ignore TYPE PagingArea-PagingRqst
                                                                                                   PRESENCE mandatory
     ID id-SRNC-ID
                                         CRITICALITY ignore TYPE RNC-ID
                                                                                                   PRESENCE mandatory
                                                                                                                            -- May be a BSC-
Id.
     ID id-S-RNTI
                                         CRITICALITY ignore TYPE S-RNTI
                                                                                                   PRESENCE mandatory
     ID id-IMSI
                                         CRITICALITY ignore TYPE IMSI
                                                                                                   PRESENCE mandatory
     ID id-DRXCycleLengthCoefficient
                                         CRITICALITY ignore TYPE DRXCycleLengthCoefficient
                                                                                                   PRESENCE mandatory
    { ID id-CNOriginatedPage-PagingRgst
                                         CRITICALITY ignore TYPE CNOriginatedPage-PagingRgst
                                                                                                   PRESENCE optional
                                                                                                                               },
   . . .
}
PagingArea-PagingRqst ::= CHOICE {
   uRA
                          URA-PagingRqst, -- May be a GRA-ID.
   cell
                          Cell-PagingRgst, -- UTRAN only
   . . .
URA-PagingRqst ::= SEQUENCE {
   uRA-ID
                              URA-ID,
   iE-Extensions
                              ProtocolExtensionContainer { { URAItem-PagingRgst-ExtIEs } } OPTIONAL,
   . . .
URAItem-PagingRqst-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
}
Cell-PagingRqst ::= SEQUENCE {
   c-ID
                              C-ID.
   iE-Extensions
                              ProtocolExtensionContainer { { CellItem-PagingRqst-ExtIEs } } OPTIONAL,
    . . .
CellItem-PagingRgst-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
   . . .
}
CNOriginatedPage-PagingRqst::= SEQUENCE {
   pagingCause
                              PagingCause,
   cNDomainType
                              CNDomainType,
   pagingRecordType
                              PagingRecordType,
```

```
ProtocolExtensionContainer { { CNOriginatedPage-PagingRgst-ExtIEs } } OPTIONAL,
   iE-Extensions
    . . .
CNOriginatedPage-PagingRgst-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
PagingRequest-Extensions RNSAP-PROTOCOL-EXTENSION ::= {
     ID id-Extended-SRNC-ID
                                     CRITICALITY reject
                                                                        Extended-RNC-ID
                                                                                                    PRESENCE optional } |
                                                             EXTENSION
    { ID id-Enhanced-PCH-Capability
                                     CRITICALITY ignore
                                                            EXTENSION
                                                                       Enhanced-PCH-Capability
                                                                                                   PRESENCE optional },
    -- FDD and 1.28Mcps TDD only
    . . .
          -- DEDICATED MEASUREMENT INITIATION REQUEST
_ _
DedicatedMeasurementInitiationRequest ::= SEQUENCE {
                                 ProtocolIE-Container
                                                            {{DedicatedMeasurementInitiationRequest-IEs}},
   protocolIEs
                                  ProtocolExtensionContainer {{DedicatedMeasurementInitiationRequest-Extensions}}
   protocolExtensions
                                                                                                                               OPTIONAL.
    . . .
}
DedicatedMeasurementInitiationReguest-IEs RNSAP-PROTOCOL-IES ::= {
     ID id-MeasurementID
                                     CRITICALITY reject TYPE MeasurementID
                                                                                       PRESENCE mandatory } |
     ID id-DedicatedMeasurementObjectType-DM-Rgst CRITICALITY reject TYPE DedicatedMeasurementObjectType-DM-Rgst
                                                                                                                  PRESENCE mandatory }
     ID id-DedicatedMeasurementType
                                         CRITICALITY reject TYPE DedicatedMeasurementType
                                                                                                    PRESENCE mandatory }
     ID id-MeasurementFilterCoefficient
                                         CRITICALITY reject TYPE MeasurementFilterCoefficient
                                                                                                    PRESENCE optional }
     ID id-ReportCharacteristics
                                         CRITICALITY reject TYPE ReportCharacteristics
                                                                                                    PRESENCE mandatory }
                                         CRITICALITY reject TYPE FNReportingIndicator
     ID id-CFNReportingIndicator
                                                                                                    PRESENCE mandatory }
    ID id-CFN
                                         CRITICALITY reject TYPE CFN
                                                                                                    PRESENCE optional },
    . . .
DedicatedMeasurementObjectType-DM-Rgst ::= CHOICE {
   rL
                          RL-DM-Rgst,
   rLS
                          RL-Set-DM-Rqst,
   allRL
                          All-RL-DM-Rqst,
                          All-RL-Set-DM-Rqst,
   allRLS
    . . .
RL-DM-Rqst ::= SEQUENCE {
   rL-InformationList-DM-Rost
                                  RL-InformationList-DM-Rqst,
   iE-Extensions
                                  ProtocolExtensionContainer { { RLItem-DM-Rgst-ExtIEs } } OPTIONAL,
    . . .
```

```
RLItem-DM-Rqst-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
```

```
. . .
3
RL-InformationList-DM-Rqst
                                            ::= SEQUENCE (SIZE (1..maxNrOfRLs)) OF ProtocolIE-Single-Container { {RL-Information-DM-Rgst-IEs} }
RL-Information-DM-Rgst-IEs RNSAP-PROTOCOL-IES ::= {
    { ID id-RL-InformationItem-DM-Rqst
                                                                                                                                }
                                            CRITICALITY reject TYPE RL-InformationItem-DM-Rqst
                                                                                                         PRESENCE mandatory
RL-InformationItem-DM-Rqst ::= SEQUENCE {
    rL-ID
                               RL-ID,
                                DPCH-ID
    dPCH-ID
                                            OPTIONAL,
    iE-Extensions
                                    ProtocolExtensionContainer { {RL-InformationItem-DM-Rgst-ExtIEs} } OPTIONAL,
    . . .
}
RL-InformationItem-DM-Rgst-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    { ID id-HSSICH-Info-DM-Rqst
                                    CRITICALITY reject
                                                                                EXTENSION HSSICH-Info-DM-Rgst
    PRESENCE optional }
    -- TDD only
    { ID id-DPCH-ID768-DM-Rqst
                                                CRITICALITY reject
                                                                                EXTENSION DPCH-ID768
                PRESENCE optional }
    { ID id-HSSICH-Info-DM-Rqst-Extension
                                                CRITICALITY reject
                                                                                EXTENSION HSSICH-Info-DM-Rqst-Extension
                                                                                                                                        PRESENCE
optional}.
    -- Applicable for 1.28Mcps TDD only when the HS-SICH ID IE is more than 31
    . . .
3
HSSICH-Info-DM-Rgst ::= SEQUENCE (SIZE (1..maxNrOfHSSICHs)) OF HS-SICH-ID
HSSICH-Info-DM-Rqst-Extension ::= SEQUENCE (SIZE (1..maxNrOfHSSICHs)) OF HS-SICH-ID-Extension
RL-Set-DM-Rqst ::= SEQUENCE {
    rL-Set-InformationList-DM-Rqst RL-Set-InformationList-DM-Rqst,
   iE-Extensions
                                    ProtocolExtensionContainer { { RL-SetItem-DM-Rgst-ExtIEs } } OPTIONAL,
    . . .
RL-SetItem-DM-Rgst-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
}
RL-Set-InformationList-DM-Rqst
                                             ::= SEQUENCE (SIZE (1..maxNrOfRLSets)) OF ProtocolIE-Single-Container { {RL-Set-Information-DM-
Rqst-IEs} }
RL-Set-Information-DM-Rgst-IEs RNSAP-PROTOCOL-IES ::= {
    { ID id-RL-Set-InformationItem-DM-Rqst CRITICALITY reject TYPE RL-Set-InformationItem-DM-Rqst
                                                                                                                         PRESENCE mandatory
}
RL-Set-InformationItem-DM-Rgst ::= SEQUENCE {
    rL-Set-ID
                                    RL-Set-ID,
   iE-Extensions
                                    ProtocolExtensionContainer { {RL-Set-InformationItem-DM-Rqst-ExtIEs } } OPTIONAL,
    . . .
```

```
RL-Set-InformationItem-DM-Rgst-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
}
All-RL-DM-Rgst ::= NULL
All-RL-Set-DM-Rgst ::= NULL
DedicatedMeasurementInitiationRequest-Extensions RNSAP-PROTOCOL-EXTENSION ::= {
    { ID id-PartialReportingIndicator
                                                 CRITICALITY ignore EXTENSION
                                                                                PartialReportingIndicator
    PRESENCE optional }|
    { ID id-MeasurementRecoveryBehavior
                                                 CRITICALITY ignore EXTENSION
                                                                                MeasurementRecoveryBehavior
                                                                                                                                 PRESENCE
optional }|
    { ID id-AlternativeFormatReportingIndicator
                                                 CRITICALITY ignore EXTENSION
                                                                                AlternativeFormatReportingIndicator PRESENCE optional },
    . . .
3
  *****
- -
-- DEDICATED MEASUREMENT INITIATION RESPONSE
- -
         *******
DedicatedMeasurementInitiationResponse ::= SEQUENCE
    protocolIEs
                                  ProtocolIE-Container
                                                             {{DedicatedMeasurementInitiationResponse-IEs}},
    protocolExtensions
                                  ProtocolExtensionContainer {{DedicatedMeasurementInitiationResponse-Extensions}}
                                                                                                                                 OPTIONAL,
    . . .
}
DedicatedMeasurementInitiationResponse-IEs RNSAP-PROTOCOL-IES ::= {
    { ID id-MeasurementID
                                                 CRITICALITY ignore TYPE MeasurementID
    PRESENCE mandatory } |
    { ID id-DedicatedMeasurementObjectType-DM-Rsp CRITICALITY ignore TYPE DedicatedMeasurementObjectType-DM-Rsp
                                                                                                                          PRESENCE optional }
    { ID id-CriticalityDiagnostics
                                                 CRITICALITY ignore TYPE CriticalityDiagnostics
    PRESENCE optional },
    . . .
DedicatedMeasurementObjectType-DM-Rsp ::= CHOICE {
    rLs
                          RL-DM-Rsp,
    rLS
                          RL-Set-DM-Rsp,
    allRL
                          RL-DM-Rsp,
    allRLS
                          RL-Set-DM-Rsp,
    . . .
RL-DM-Rsp ::= SEQUENCE {
    rL-InformationList-DM-Rsp
                                                 RL-InformationList-DM-Rsp,
                                  ProtocolExtensionContainer { { RLItem-DM-Rsp-ExtIEs } } OPTIONAL,
    iE-Extensions
    . . .
}
```

```
RLItem-DM-Rsp-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
RL-Set-DM-Rsp ::= SEQUENCE {
    rL-Set-InformationList-DM-Rsp RL-Set-InformationList-DM-Rsp,
   iE-Extensions
                                    ProtocolExtensionContainer { { RL-SetItem-DM-Rsp-ExtIEs } } OPTIONAL,
    . . .
}
RL-SetItem-DM-Rsp-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
}
RL-InformationList-DM-Rsp
                                           ::= SEQUENCE (SIZE (1..maxNrOfRLs)) OF Protocolle-Single-Container { {RL-Information-DM-Rsp-IEs} }
RL-Information-DM-Rsp-IEs RNSAP-PROTOCOL-IES ::= {
    { ID id-RL-InformationItem-DM-Rsp
                                           CRITICALITY ignore TYPE RL-InformationItem-DM-Rsp PRESENCE mandatory
RL-InformationItem-DM-Rsp ::= SEQUENCE {
    rL-ID
                               RL-ID,
    dPCH-TD
                               DPCH-TD
                                                    OPTIONAL,
    dedicatedMeasurementValue DedicatedMeasurementValue,
    CFN
                               CFN
                                                   OPTIONAL,
    iE-Extensions
                               ProtocolExtensionContainer { {RL-InformationItem-DM-Rsp-ExtIEs} } OPTIONAL,
    . . .
RL-InformationItem-DM-Rsp-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    {ID id-HSSICH-Info-DM
                               CRITICALITY reject
                                                               EXTENSION HS-SICH-ID
                                                                                            PRESENCE optional } |
    -- TDD only
    { ID id-multiple-DedicatedMeasurementValueList-TDD-DM-Rsp CRITICALITY iqnore EXTENSION Multiple-DedicatedMeasurementValueList-TDD-DM-Rsp
    PRESENCE optional }|
    -- Applicable to 3.84Mcps TDD only. This list of dedicated measurement values is used for the 2<sup>nd</sup> and beyond measurements of a RL when multiple
dedicated measurement values need to be reported.
    { ID id-multiple-DedicatedMeasurementValueList-LCR-TDD-DM-Rsp CRITICALITY ignore EXTENSION Multiple-DedicatedMeasurementValueList-LCR-
TDD-DM-Rsp PRESENCE optional }|
    -- Applicable to 1.28Mcps TDD only. This list of dedicated measurement values is used for the 2<sup>nd</sup> and beyond measurements of a RL when multiple
dedicated measurement values need to be reported.
                                                                        CRITICALITY ignore EXTENSION Multiple-HSSICHMeasurementValueList-TDD-DM-
    { ID id-multiple-HSSICHMeasurementValueList-TDD-DM-Rsp
Rsp PRESENCE optional }|
    -- TDD only. This list of HS-SICH measurement values is used for the 2nd and beyond measurements of a RL when multiple HS-SICH measurement
values need to be reported.
    { ID id-multiple-DedicatedMeasurementValueList-TDD768-DM-Rsp
                                                                        CRITICALITY ignore EXTENSION Multiple-DedicatedMeasurementValueList-
TDD768-DM-Rsp PRESENCE optional }
    -- Applicable to 7.68Mcps TDD only. This list of dedicated measurement values is used for the 2<sup>nd</sup> and beyond measurements of a RL when multiple
dedicated measurement values need to be reported.
    { ID id-DPCH-ID768-DM-Rsp
                                                                        CRITICALITY ignore EXTENSION DPCH-ID768
                       PRESENCE optional}
    { ID id-HS-SICH-ID-Extension
                                                                        CRITICALITY ignore EXTENSION HS-SICH-ID-Extension
                   PRESENCE optional },
    -- Applicable for 1.28Mcps TDD only when the HS-SICH ID IE is more than 31
```

```
}
RL-Set-InformationList-DM-Rsp ::= SEQUENCE (SIZE (1..maxNrOfRLSets)) OF ProtocolIE-Single-Container { {RL-Set-Information-DM-Rsp-IEs} }
RL-Set-Information-DM-Rsp-IEs RNSAP-PROTOCOL-IES ::= {
    { ID id-RL-Set-InformationItem-DM-Rsp
                                                CRITICALITY ignore TYPE RL-Set-InformationItem-DM-Rsp
                                                                                                                  PRESENCE mandatory
                                                                                                                                         }
RL-Set-InformationItem-DM-Rsp ::= SEQUENCE {
    rL-Set-ID
                                    RL-Set-ID,
    dedicatedMeasurementValue
                                    DedicatedMeasurementValue,
    CFN
                                    CFN
                                                OPTIONAL,
    iE-Extensions
                                    ProtocolExtensionContainer { {RL-Set-InformationItem-DM-Rspns-ExtIEs} }
                                                                                                                  OPTIONAL,
    . . .
RL-Set-InformationItem-DM-Rspns-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
}
DedicatedMeasurementInitiationResponse-Extensions RNSAP-PROTOCOL-EXTENSION ::= {
    { ID
           id-MeasurementRecoverySupportIndicator
                                                                                 EXTENSION MeasurementRecoverySupportIndicator
                                                                                                                                         PRESENCE
                                                        CRITICALITY ignore
optional
    },
    . . .
}
Multiple-DedicatedMeasurementValueList-TDD-DM-Rsp ::= SEQUENCE (SIZE (1.. maxNrOfDPCHsPerRL-1)) OF Multiple-DedicatedMeasurementValueItem-TDD-DM-
Rsp
Multiple-DedicatedMeasurementValueItem-TDD-DM-Rsp ::= SEQUENCE {
    dPCH-TD
                                        DPCH-ID,
    dedicatedMeasurementValue
                                        DedicatedMeasurementValue,
   iE-Extensions
                                        ProtocolExtensionContainer { { Multiple-DedicatedMeasurementValueItem-TDD-DM-Rsp-ExtIEs} }
   OPTIONAL,
    . . .
}
Multiple-DedicatedMeasurementValueItem-TDD-DM-Rsp-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
}
Multiple-DedicatedMeasurementValueList-LCR-TDD-DM-Rsp ::= SEQUENCE (SIZE (1.. maxNrOfDPCHsLCRPerRL-1)) OF Multiple-DedicatedMeasurementValueItem-
LCR-TDD-DM-Rsp
Multiple-DedicatedMeasurementValueItem-LCR-TDD-DM-Rsp ::= SEOUENCE {
    dPCH-TD
                                        DPCH-ID,
    dedicatedMeasurementValue
                                        DedicatedMeasurementValue.
                                        ProtocolExtensionContainer { { Multiple-DedicatedMeasurementValueItem-LCR-TDD-DM-Rsp-ExtIEs } }
    iE-Extensions
    OPTIONAL,
    . . .
```

```
Multiple-DedicatedMeasurementValueItem-LCR-TDD-DM-Rsp-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
}
Multiple-HSSICHMeasurementValueList-TDD-DM-Rsp ::= SEQUENCE (SIZE (1.. maxNrOfHSSICHs-1)) OF Multiple-HSSICHMeasurementValueItem-TDD-DM-Rsp
Multiple-HSSICHMeasurementValueItem-TDD-DM-Rsp ::= SEQUENCE {
   hsSICH-ID
                                     HS-SICH-ID,
   dedicatedMeasurementValue
                                     DedicatedMeasurementValue,
                                     ProtocolExtensionContainer { { Multiple-HSSICHMeasurementValueItem-TDD-DM-Rsp-ExtIEs } }
   iE-Extensions
                                                                                                                                OPTIONAL,
    . . .
Multiple-HSSICHMeasurementValueItem-TDD-DM-Rsp-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    { ID id-HS-SICH-ID-Extension
                                         CRITICALITY ignore
                                                                EXTENSION HS-SICH-ID-Extension
                                                                                                           PRESENCE optional },
    -- Applicable for 1.28Mcps TDD only when the HS-SICH ID IE is more than 31
    . . .
3
Multiple-DedicatedMeasurementValueList-TDD768-DM-Rsp ::= SEQUENCE (SIZE (1.. maxNrOfDPCHs768PerRL-1)) OF Multiple-DedicatedMeasurementValueItem-
TDD768-DM-Rsp
Multiple-DedicatedMeasurementValueItem-TDD768-DM-Rsp ::= SEOUENCE {
   dPCH-ID768
                                     DPCH-ID768,
   dedicatedMeasurementValue
                                      DedicatedMeasurementValue,
   iE-Extensions
                                     ProtocolExtensionContainer { { Multiple-DedicatedMeasurementValueItem-TDD768-DM-Rsp-ExtIEs } }
   OPTIONAL,
    . . .
}
Multiple-DedicatedMeasurementValueItem-TDD768-DM-Rsp-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
       -- DEDICATED MEASUREMENT INITIATION FAILURE
DedicatedMeasurementInitiationFailure ::= SEQUENCE {
                                                            {{DedicatedMeasurementInitiationFailure-IEs}},
   protocolIEs
                                 ProtocolIE-Container
                                 ProtocolExtensionContainer {{DedicatedMeasurementInitiationFailure-Extensions}}
   protocolExtensions
                                                                                                                               OPTIONAL.
    . . .
DedicatedMeasurementInitiationFailure-IEs RNSAP-PROTOCOL-IES ::= {
     ID id-MeasurementID
                                     CRITICALITY ignore TYPE MeasurementID
                                                                                       PRESENCE mandatory }
     ID id-Cause
                                  CRITICALITY ignore TYPE Cause
                                                                               PRESENCE mandatory }
     ID id-CriticalityDiagnostics
                                         CRITICALITY ignore TYPE CriticalityDiagnostics
                                                                                            PRESENCE optional
                                                                                                                  },
    . . .
```

```
DedicatedMeasurementInitiationFailure-Extensions RNSAP-PROTOCOL-EXTENSION ::= {
     ID id-DedicatedMeasurementObjectType-DM-Fail CRITICALITY ignore EXTENSION DedicatedMeasurementObjectType-DM-Fail
                                                                                                                                  PRESENCE optional
    },
    . . .
}
DedicatedMeasurementObjectType-DM-Fail ::= CHOICE {
    rL
                            RL-DM-Fail,
                            RL-Set-DM-Fail,
    rLS
    allRL
                            RL-DM-Fail,
    allRLS
                            RL-Set-DM-Fail,
    . . .
RL-DM-Fail ::= SEQUENCE {
    rL-unsuccessful-InformationRespList-DM-Fail
                                                    RL-Unsuccessful-InformationRespList-DM-Fail,
                                                     RL-Successful-InformationRespList-DM-Fail
    rL-successful-InformationRespList-DM-Fail
                                                                                                          OPTIONAL,
                                    ProtocolExtensionContainer { { RLItem-DM-Fail-ExtIEs } } OPTIONAL,
   iE-Extensions
    . . .
RLItem-DM-Fail-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
RL-Set-DM-Fail ::= SEQUENCE {
    rL-Set-unsuccessful-InformationRespList-DM-Fail RL-Set-Unsuccessful-InformationRespList-DM-Fail,
    rL-Set-successful-InformationRespList-DM-Fail RL-Set-Successful-InformationRespList-DM-Fail
                                                                                                                  OPTIONAL,
                                    ProtocolExtensionContainer { { RL-SetItem-DM-Fail-ExtIEs } } OPTIONAL,
   iE-Extensions
    . . .
RL-SetItem-DM-Fail-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
RL-Unsuccessful-InformationRespList-DM-Fail
                                                   :== SEQUENCE (SIZE (1..maxNrOfRLs)) OF ProtocolIE-Single-Container { {RL-Unsuccessful-
InformationResp-DM-Fail-IEs } 
RL-Unsuccessful-InformationResp-DM-Fail-IEs RNSAP-PROTOCOL-IES ::= {
    { ID id-RL-Unsuccessful-InformationItem-DM-Fail
                                                      CRITICALITY ignore TYPE RL-Unsuccessful-InformationItem-DM-Fail
                                                                                                                                         PRESENCE
mandatory }
}
RL-Unsuccessful-InformationItem-DM-Fail ::= SEOUENCE {
   rL-ID
                                RL-ID,
    individualcause
                                Cause OPTIONAL,
   iE-Extensions
                                ProtocolExtensionContainer { {RL-Unsuccessful-InformationItem-DM-Fail-ExtIEs } } OPTIONAL,
    . . .
}
RL-Unsuccessful-InformationItem-DM-Fail-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
```

```
}
RL-Successful-InformationRespList-DM-Fail
                                                    ::= SEOUENCE (SIZE (1..maxNrOfRLs-1)) OF ProtocolIE-Single-Container { {RL-Successful-
InformationResp-DM-Fail-IEs } 
RL-Successful-InformationResp-DM-Fail-IES RNSAP-PROTOCOL-IES ::= {
      ID id-RL-Successful-InformationItem-DM-Fail
                                                        CRITICALITY ignore TYPE RL-Successful-InformationItem-DM-Fail
                                                                                                                                 PRESENCE mandatory
}
RL-Successful-InformationItem-DM-Fail ::= SEQUENCE {
    rL-ID
                                RL-ID,
    dPCH-ID
                                DPCH-ID
                                                    OPTIONAL.
    dedicatedMeasurementValue DedicatedMeasurementValue.
    cfn
                                CFN
                                                    OPTIONAL.
                                ProtocolExtensionContainer { {RL-Successful-InformationItem-DM-Fail-ExtIEs } } OPTIONAL,
    iE-Extensions
    . . .
RL-Successful-InformationItem-DM-Fail-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    {ID id-HSSICH-Info-DM
                                            CRITICALITY reject
                                                                             EXTENSION HS-SICH-ID
                                                                                                                  PRESENCE optional } |
    -- TDD only
                                                                                                                                 PRESENCE optional },
   { ID id-HS-SICH-ID-Extension
                                            CRITICALITY ignore
                                                                            EXTENSION HS-SICH-ID-Extension
    -- Applicable for 1.28Mcps TDD only when the HS-SICH ID IE is more than 31
    . . .
RL-Set-Unsuccessful-InformationRespList-DM-Fail
                                                            ::= SEQUENCE (SIZE (1..maxNrOfRLSets)) OF ProtocolIE-Single-Container { {RL-Set-
Unsuccessful-InformationResp-DM-Fail-IEs} }
RL-Set-Unsuccessful-InformationResp-DM-Fail-IEs RNSAP-PROTOCOL-IES ::= {
    { ID id-RL-Set-Unsuccessful-InformationItem-DM-Fail
                                                            CRITICALITY iqnore TYPE RL-Set-Unsuccessful-InformationItem-DM-Fail
    PRESENCE mandatory }
}
RL-Set-Unsuccessful-InformationItem-DM-Fail ::= SEQUENCE {
    rL-Set-ID
                                    RL-Set-ID,
    individualcause
                                    Cause
                                                OPTIONAL,
    iE-Extensions
                                    ProtocolExtensionContainer { {RL-Set-Unsuccessful-InformationItem-DM-Failns-ExtIEs } } OPTIONAL,
    . . .
3
RL-Set-Unsuccessful-InformationItem-DM-Failns-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
RL-Set-Successful-InformationRespList-DM-Fail
                                                            ::= SEQUENCE (SIZE (1..maxNrOfRLSets-1)) OF ProtocolIE-Single-Container { {RL-Set-
Successful-InformationResp-DM-Fail-IEs } 
RL-Set-Successful-InformationResp-DM-Fail-IEs RNSAP-PROTOCOL-IES ::= {
    { ID id-RL-Set-Successful-InformationItem-DM-Fail
                                                            CRITICALITY ignore TYPE RL-Set-Successful-InformationItem-DM-Fail
                                                                                                                                         PRESENCE
mandatory }
```

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RL-Set-Successful-InformationItem-DM-Fail ::= SEQUENCE { rL-Set-ID RL-Set-ID. dedicatedMeasurementValue DedicatedMeasurementValue. cFN CFN OPTIONAL, iE-Extensions ProtocolExtensionContainer { {RL-Set-Successful-InformationItem-DM-Failns-ExtIEs } } OPTIONAL, . . . RL-Set-Successful-InformationItem-DM-Failns-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= { . . . \*\*\*\*\* \_ \_ -- DEDICATED MEASUREMENT REPORT - -\*\*\*\*\*\* DedicatedMeasurementReport ::= SEQUENCE { {{DedicatedMeasurementReport-IEs}}, protocolIEs ProtocolIE-Container protocolExtensions ProtocolExtensionContainer {{DedicatedMeasurementReport-Extensions}} OPTIONAL, . . . } DedicatedMeasurementReport-IEs RNSAP-PROTOCOL-IES ::= { ID id-MeasurementID CRITICALITY ignore TYPE MeasurementID PRESENCE mandatory } { ID id-DedicatedMeasurementObjectType-DM-Rprt CRITICALITY ignore TYPE DedicatedMeasurementObjectType-DM-Rprt }, PRESENCE mandatory . . . } DedicatedMeasurementObjectType-DM-Rprt ::= CHOICE { RL-DM-Rprt, rLs rLS RL-Set-DM-Rprt, allRL RL-DM-Rprt, allRLS RL-Set-DM-Rprt, . . . RL-DM-Rprt ::= SEQUENCE { RL-InformationList-DM-Rprt, rL-InformationList-DM-Rprt ProtocolExtensionContainer { { RLItem-DM-Rprt-ExtIEs} } OPTIONAL, iE-Extensions . . . } RLItem-DM-Rprt-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= { . . . } RL-Set-DM-Rprt ::= SEQUENCE { rL-Set-InformationList-DM-Rprt RL-Set-InformationList-DM-Rprt, ProtocolExtensionContainer { { RL-SetItem-DM-Rprt-ExtIEs } } OPTIONAL, iE-Extensions . . . }

```
RL-SetItem-DM-Rprt-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
RL-InformationList-DM-Rprt
                                          ::= SEQUENCE (SIZE (1..maxNrOfRLs)) OF ProtocolIE-Single-Container { {RL-Information-DM-Rprt-IEs} }
RL-Information-DM-Rprt-IEs RNSAP-PROTOCOL-IES ::= {
    { ID id-RL-InformationItem-DM-Rprt
                                          CRITICALITY ignore TYPE RL-InformationItem-DM-Rprt
                                                                                                      PRESENCE mandatory
                                                                                                                            }
RL-InformationItem-DM-Rprt ::= SEQUENCE {
   rL-ID
                              RL-ID,
   dPCH-ID
                               DPCH-ID
                                                  OPTIONAL.
   dedicatedMeasurementValueInformation DedicatedMeasurementValueInformation.
   iE-Extensions
                                  ProtocolExtensionContainer { {RL-InformationItem-DM-Rprt-ExtIEs} } OPTIONAL,
    . . .
RL-InformationItem-DM-Rprt-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    {ID id-HSSICH-Info-DM-Rprt
                                  CRITICALITY ignore
                                                                  EXTENSION HS-SICH-ID
                                                                                             PRESENCE optional}
    -- TDD only
    { ID id-DPCH-ID768-DM-Rprt
                                      CRITICALITY iqnore
                                                                      EXTENSION DPCH-ID768
                                                                                                                PRESENCE optional } |
    { ID id-HS-SICH-ID-Extension
                                      CRITICALITY ignore
                                                                      EXTENSION HS-SICH-ID-Extension
                                                                                                                                   PRESENCE
optional}.
    -- Applicable for 1.28Mcps TDD only when the HS-SICH ID IE is more than 31
    . . .
3
RL-Set-InformationList-DM-Rprt
                                           ::= SEQUENCE (SIZE (1..maxNrOfRLSets)) OF ProtocolIE-Single-Container { {RL-Set-Information-DM-
Rprt-IEs } }
RL-Set-Information-DM-Rprt-IEs RNSAP-PROTOCOL-IES ::= {
    { ID id-RL-Set-InformationItem-DM-Rprt CRITICALITY ignore TYPE RL-Set-InformationItem-DM-Rprt
                                                                                                                    PRESENCE mandatory
}
RL-Set-InformationItem-DM-Rprt ::= SEQUENCE {
   rL-Set-ID
                                  RL-Set-ID,
    dedicatedMeasurementValueInformation DedicatedMeasurementValueInformation,
   iE-Extensions
                                  ProtocolExtensionContainer { {RL-Set-InformationItem-DM-Rprt-ExtIEs} } OPTIONAL,
    . . .
}
RL-Set-InformationItem-DM-Rprt-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
DedicatedMeasurementReport-Extensions RNSAP-PROTOCOL-EXTENSION ::= {
          id-MeasurementRecoveryReportingIndicator
    { ID
                                                         CRITICALITY iqnore
                                                                                 EXTENSION MeasurementRecoveryReportingIndicator
   PRESENCE optional },
    . . .
}
  - -
```

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```
-- DEDICATED MEASUREMENT TERMINATION REQUEST
  DedicatedMeasurementTerminationReguest ::= SEQUENCE
   protocolIEs
                                ProtocolIE-Container
                                                          {{DedicatedMeasurementTerminationReguest-IEs}},
                                ProtocolExtensionContainer {{DedicatedMeasurementTerminationRequest-Extensions}}
   protocolExtensions
                                                                                                                            OPTIONAL.
   . . .
}
DedicatedMeasurementTerminationRequest-IEs RNSAP-PROTOCOL-IES ::= {
   { ID id-MeasurementID
                                    CRITICALITY ignore TYPE MeasurementID
                                                                                    PRESENCE mandatory },
   . . .
}
DedicatedMeasurementTerminationRequest-Extensions RNSAP-PROTOCOL-EXTENSION ::= {
   . . .
    *********
- -
-- DEDICATED MEASUREMENT FAILURE INDICATION
- -
     DedicatedMeasurementFailureIndication ::= SEQUENCE
                                                          {{DedicatedMeasurementFailureIndication-IEs}},
   protocolIEs
                                ProtocolIE-Container
   protocolExtensions
                                ProtocolExtensionContainer {{DedicatedMeasurementFailureIndication-Extensions}}
                                                                                                                           OPTIONAL,
   . . .
}
DedicatedMeasurementFailureIndication-IEs RNSAP-PROTOCOL-IES ::= {
     ID id-MeasurementID
                                    CRITICALITY ignore TYPE MeasurementID
                                                                                    PRESENCE mandatory }
                                CRITICALITY ignore TYPE Cause
                                                                             PRESENCE mandatory },
    { ID id-Cause
   . . .
DedicatedMeasurementFailureIndication-Extensions RNSAP-PROTOCOL-EXTENSION ::= {
   { ID id-DedicatedMeasurementObjectType-DM-Fail-Ind CRITICALITY ignore EXTENSION DedicatedMeasurementObjectType-DM-Fail-Ind
                                                                                                                            PRESENCE
optional
         },
   . . .
DedicatedMeasurementObjectType-DM-Fail-Ind ::= CHOICE {
                         RL-DM-Fail-Ind,
   rL
   rLS
                         RL-Set-DM-Fail-Ind,
   allRL
                         RL-DM-Fail-Ind,
   allRLS
                         RL-Set-DM-Fail-Ind,
   . . .
RL-DM-Fail-Ind ::= SEQUENCE
   rL-unsuccessful-InformationRespList-DM-Fail-Ind
                                                   RL-Unsuccessful-InformationRespList-DM-Fail-Ind,
   iE-Extensions
                                                   ProtocolExtensionContainer { { RLItem-DM-Fail-Ind-ExtIEs } } OPTIONAL,
```

```
. . .
}
RLItem-DM-Fail-Ind-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
}
RL-Set-DM-Fail-Ind ::= SEQUENCE {
    rL-Set-unsuccessful-InformationRespList-DM-Fail-Ind
                                                             RL-Set-Unsuccessful-InformationRespList-DM-Fail-Ind,
                                                             ProtocolExtensionContainer { { RL-SetItem-DM-Fail-Ind-ExtIEs } } OPTIONAL,
   iE-Extensions
    . . .
}
RL-SetItem-DM-Fail-Ind-ExtIEs RNSAP-PROTOCOL-EXTENSION ::=
    . . .
RL-Unsuccessful-InformationRespList-DM-Fail-Ind
                                                        := SEOUENCE (SIZE (1..maxNrOfRLs)) OF ProtocolIE-Single-Container { {RL-Unsuccessful-
InformationResp-DM-Fail-Ind-IEs } }
RL-Unsuccessful-InformationResp-DM-Fail-Ind-IEs RNSAP-PROTOCOL-IES ::= {
    { ID id-RL-Unsuccessful-InformationItem-DM-Fail-Ind
                                                            CRITICALITY ignore TYPE RL-Unsuccessful-InformationItem-DM-Fail-Ind
    PRESENCE mandatory
}
RL-Unsuccessful-InformationItem-DM-Fail-Ind ::= SEQUENCE {
    rL-ID
                                RL-ID,
    individualcause
                                Cause
                                            OPTIONAL,
                                ProtocolExtensionContainer { {RL-Unsuccessful-InformationItem-DM-Fail-Ind-ExtIEs } OPTIONAL,
    iE-Extensions
    . . .
}
RL-Unsuccessful-InformationItem-DM-Fail-Ind-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
RL-Set-Unsuccessful-InformationRespList-DM-Fail-Ind
                                                                ::= SEQUENCE (SIZE (1..maxNrOfRLSets)) OF ProtocolIE-Single-Container { {RL-Set-
Unsuccessful-InformationResp-DM-Fail-Ind-IEs} }
RL-Set-Unsuccessful-InformationResp-DM-Fail-Ind-IEs RNSAP-PROTOCOL-IES ::= {
    { ID id-RL-Set-Unsuccessful-InformationItem-DM-Fail-Ind
                                                                CRITICALITY ignore TYPE RL-Set-Unsuccessful-InformationItem-DM-Fail-Ind
    PRESENCE mandatory }
RL-Set-Unsuccessful-InformationItem-DM-Fail-Ind ::= SEOUENCE {
    rL-Set-ID
                                    RL-Set-ID,
    individualcause
                                    Cause
                                                OPTIONAL,
    iE-Extensions
                                    ProtocolExtensionContainer { {RL-Set-Unsuccessful-InformationItem-DM-Fail-Indns-ExtIEs } OPTIONAL,
    . . .
}
RL-Set-Unsuccessful-InformationItem-DM-Fail-Indns-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
```

COMMON TRANSPORT CHANNEL RESOURCES RELEASE REQUEST \_ \_ CommonTransportChannelResourcesReleaseRequest ::= SEQUENCE { protocolIEs ProtocolIE-Container {{CommonTransportChannelResourcesReleaseRequest-IEs}}, ProtocolExtensionContainer {{CommonTransportChannelResourcesReleaseRequest-Extensions}} protocolExtensions OPTIONAL, . . . CommonTransportChannelResourcesReleaseRequest-IEs RNSAP-PROTOCOL-IES ::= { { ID id-D-RNTI CRITICALITY ignore TYPE D-RNTI PRESENCE mandatory }, . . . CommonTransportChannelResourcesReleaseRequest-Extensions RNSAP-PROTOCOL-EXTENSION ::= { - -COMMON TRANSPORT CHANNEL RESOURCES REQUEST CommonTransportChannelResourcesRequest ::= SEQUENCE { protocolIEs ProtocolIE-Container {{CommonTransportChannelResourcesRequest-IEs}}, ProtocolExtensionContainer {{CommonTransportChannelResourcesRequest-Extensions}} protocolExtensions OPTIONAL, . . . } CommonTransportChannelResourcesRequest-IEs RNSAP-PROTOCOL-IES ::= { ID id-D-RNTI CRITICALITY reject TYPE D-RNTI PRESENCE mandatory } ID id-C-ID PRESENCE optional } | CRITICALITY reject TYPE C-ID ID id-TransportBearerRequestIndicator PRESENCE mandatory } CRITICALITY reject TYPE TransportBearerRequestIndicator ID id-TransportBearerID CRITICALITY reject TYPE TransportBearerID PRESENCE mandatory }, . . . } CommonTransportChannelResourcesRequest-Extensions RNSAP-PROTOCOL-EXTENSION ::= { ID id-Permanent-NAS-UE-Identity CRITICALITY ignore EXTENSION Permanent-NAS-UE-Identity PRESENCE optional } { ID id-BindingID CRITICALITY ignore EXTENSION BindingID PRESENCE optional } -- Shall be ignored if bearer establishment with ALCAP. { ID id-TransportLayerAddress CRITICALITY ignore EXTENSION TransportLayerAddress PRESENCE optional }| -- Shall be ignored if bearer establishment with ALCAP. ID id-MBMS-Bearer-Service-List CRITICALITY notify EXTENSION MBMS-Bearer-Service-List PRESENCE optional }| PRESENCE optional ID id-TnlOos CRITICALITY ignore EXTENSION TnlQos { ID id-Enhanced-FACH-Support-Indicator CRITICALITY ignore EXTENSION Enhanced-FACH-Support-Indicator PRESENCE optional }| -- FDD and 1.28Mcps TDD only { ID id-Common-EDCH-Support-Indicator CRITICALITY ignore EXTENSION Common-EDCH-Support-Indicator PRESENCE optional }|

```
-- FDD only
     ID id-HSDSCH-Physical-Layer-Category
                                             CRITICALITY ignore EXTENSION HSDSCH-Physical-Layer-Category
                                                                                                               PRESENCE optional }|
     ID id-UE-with-enhanced-HS-SCCH-support-indicator CRITICALITY ignore EXTENSION NULL
                                                                                                               PRESENCE optional }.
    . . .
   - -
  COMMON TRANSPORT CHANNEL RESOURCES RESPONSE FDD
  *******
CommonTransportChannelResourcesResponseFDD ::= SEQUENCE {
   protocolIEs
                                  ProtocolIE-Container
                                                             {{CommonTransportChannelResourcesResponseFDD-IEs}},
   protocolExtensions
                                  ProtocolExtensionContainer {{CommonTransportChannelResourcesResponseFDD-Extensions}}
   OPTIONAL,
    . . .
CommonTransportChannelResourcesResponseFDD-IEs RNSAP-PROTOCOL-IES ::= {
     ID id-S-RNTI
                                  CRITICALITY ignore TYPE S-RNTI
                                                                                PRESENCE mandatory
     ID id-C-RNTI
                                  CRITICALITY ignore TYPE C-RNTI
                                                                                PRESENCE optional
     ID id-FACH-InfoForUESelectedS-CCPCH-CTCH-ResourceRspFDD CRITICALITY ignore TYPE FACH-InfoForUESelectedS-CCPCH-CTCH-ResourceRspFDD
    PRESENCE mandatory } |
     ID id-TransportLayerAddress
                                         CRITICALITY ignore TYPE TransportLayerAddress
                                                                                             PRESENCE optional
                                                                                                                  } |
     ID id-BindingID
                                  CRITICALITY ignore TYPE BindingID
                                                                                    PRESENCE optional
     ID id-CriticalityDiagnostics
                                         CRITICALITY ignore TYPE CriticalityDiagnostics
                                                                                             PRESENCE optional
    . . .
}
FACH-InfoForUESelectedS-CCPCH-CTCH-ResourceRspFDD ::= SEQUENCE
    fACH-FlowControlInformation
                                  FACH-FlowControlInformation-CTCH-ResourceRspFDD,
-- If the Enhanced FACH Information Response IE is included in the message, the FACH Flow Control Information IE shall be ignored.
                                  ProtocolExtensionContainer { {FACH-InfoForUESelectedS-CCPCH-CTCH-ResourceRspFDD-ExtIEs} } OPTIONAL,
   iE-Extensions
    . . .
FACH-InfoForUESelectedS-CCPCH-CTCH-ResourceRspFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
}
FACH-FlowControlInformation-CTCH-ResourceRspFDD ::= ProtocolIE-Single-Container {{ FACH-FlowControlInformationIEs-CTCH-ResourceRspFDD }}
FACH-FlowControlInformationIEs-CTCH-ResourceRspFDD RNSAP-PROTOCOL-IES ::= {
    { ID id-FACH-FlowControlInformation CRITICALITY ignore TYPE FACH-FlowControlInformation PRESENCE mandatory
CommonTransportChannelResourcesResponseFDD-Extensions RNSAP-PROTOCOL-EXTENSION ::= {
    { ID id-C-ID
                                                             CRITICALITY ignore
                                                                                    EXTENSION C-ID
                                  PRESENCE mandatory }
    { ID id-Active-MBMS-Bearer-ServiceFDD
                                                             CRITICALITY ignore
                                                                                    EXTENSION Active-MBMS-Bearer-Service-ListFDD
           PRESENCE optional } |
    { ID id-Enhanced-FACH-Information-ResponseFDD
                                                                                    EXTENSION Enhanced-FACH-Information-ResponseFDD
                                                             CRITICALITY ignore
           PRESENCE optional } |
```

```
{ ID id-Common-EDCH-MAC-d-Flow-Specific-InformationFDD
                                                            CRITICALITY ignore
                                                                                    EXTENSION Common-EDCH-MAC-d-Flow-Specific-InformationFDD
       PRESENCE optional } |
     ID id-E-RNTI CRITICALITY ignore EXTENSION E-RNTI
                                                         PRESENCE optional },
    - -
  COMMON TRANSPORT CHANNEL RESOURCES RESPONSE TDD
- -
  CommonTransportChannelResourcesResponseTDD ::= SEQUENCE {
   protocolIEs
                                  ProtocolIE-Container
                                                            {{CommonTransportChannelResourcesResponseTDD-IEs}},
   protocolExtensions
                                  ProtocolExtensionContainer {{CommonTransportChannelResourcesResponseTDD-Extensions}}
   OPTIONAL,
    . . .
CommonTransportChannelResourcesResponseTDD-IEs RNSAP-PROTOCOL-IES ::= {
     ID id-S-RNTI
                                  CRITICALITY ignore TYPE S-RNTI
                                                                                PRESENCE mandatory
     ID id-C-RNTI
                                  CRITICALITY ignore TYPE C-RNTI
                                                                               PRESENCE optional
     ID id-FACH-InfoForUESelectedS-CCPCH-CTCH-ResourceRspTDD CRITICALITY ignore TYPE FACH-InfoForUESelectedS-CCPCH-CTCH-ResourceRspTDD
    PRESENCE mandatory } |
     ID id-TransportLayerAddress
                                         CRITICALITY ignore TYPE TransportLayerAddress
                                                                                             PRESENCE optional
                                                                                                                  } |
     ID id-BindingID
                                  CRITICALITY ignore TYPE BindingID
                                                                                   PRESENCE optional
     ID id-CriticalityDiagnostics
                                         CRITICALITY ignore TYPE CriticalityDiagnostics
                                                                                             PRESENCE optional
    . . .
FACH-InfoForUESelectedS-CCPCH-CTCH-ResourceRspTDD ::= SEQUENCE
    fACH-FlowControlInformation
                                  FACH-FlowControlInformation-CTCH-ResourceRspTDD,
   iE-Extensions
                                  ProtocolExtensionContainer { {FACH-InfoForUESelectedS-CCPCH-CTCH-ResourceRspTDD-ExtIEs} } OPTIONAL,
    . . .
FACH-InfoForUESelectedS-CCPCH-CTCH-ResourceRspTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
FACH-FlowControlInformation-CTCH-ResourceRspTDD ::= ProtocolIE-Single-Container {{ FACH-FlowControlInformationIEs-CTCH-ResourceRspTDD }}
FACH-FlowControlInformationIEs-CTCH-ResourceRspTDD RNSAP-PROTOCOL-IES ::= {
    { ID id-FACH-FlowControlInformation CRITICALITY ignore TYPE
                                                                FACH-FlowControlInformation PRESENCE mandatory
CommonTransportChannelResourcesResponseTDD-Extensions RNSAP-PROTOCOL-EXTENSION ::= {
    { ID id-C-ID
                                                            CRITICALITY ignore
                                                                                    EXTENSION
                                                                                                   C-ID
                                  PRESENCE mandatory }|
    { ID id-Active-MBMS-Bearer-ServiceTDD
                                                            CRITICALITY ignore
                                                                                    EXTENSION Active-MBMS-Bearer-Service-ListTDD
           PRESENCE optional }
    { ID id-Enhanced-FACH-Information-ResponseLCR
                                                            CRITICALITY ignore
                                                                                   EXTENSION Enhanced-FACH-Information-ResponseLCR
           PRESENCE optional}
```

```
{ ID id-Common-EDCH-MAC-d-Flow-Specific-InformationLCR
                                                   CRITICALITY ignore
                                                                       EXTENSION Common-EDCH-MAC-d-Flow-Specific-InformationLCR
      PRESENCE optional },
   . . .
  - -
  COMMON TRANSPORT CHANNEL RESOURCES FAILURE
- -
  CommonTransportChannelResourcesFailure ::= SEQUENCE
   protocolIEs
                             ProtocolIE-Container
                                                   {{CommonTransportChannelResourcesFailure-IEs}},
   protocolExtensions
                             ProtocolExtensionContainer {{CommonTransportChannelResourcesFailure-Extensions}}
                                                                                                             OPTIONAL
   . . .
}
CommonTransportChannelResourcesFailure-IEs RNSAP-PROTOCOL-IES ::= {
    ID id-S-RNTI
                                   CRITICALITY ignore TYPE S-RNTI
                                                                               PRESENCE mandatory
    ID id-Cause
                                                                               PRESENCE mandatory }
                                   CRITICALITY ignore TYPE Cause
   { ID id-CriticalityDiagnostics
                                   CRITICALITY ignore TYPE CriticalityDiagnostics
                                                                               PRESENCE optional },
   . . .
}
CommonTransportChannelResourcesFailure-Extensions RNSAP-PROTOCOL-EXTENSION ::= {
   . . .
  - -
  COMPRESSED MODE COMMAND
- -
       *****
CompressedModeCommand ::= SEQUENCE {
   protocolIEs
                             ProtocolIE-Container
                                                   {{CompressedModeCommand-IEs}},
   protocolExtensions
                             ProtocolExtensionContainer {{CompressedModeCommand-Extensions}}
                                                                                               OPTIONAL,
   . . .
CompressedModeCommand-IEs RNSAP-PROTOCOL-IES ::= {
   { ID id-Active-Pattern-Sequence-Information
                                         CRITICALITY ignore TYPE Active-Pattern-Sequence-Information
                                                                                                  PRESENCE mandatory },
   . . .
}
CompressedModeCommand-Extensions RNSAP-PROTOCOL-EXTENSION ::= {
   . . .
   - -
-- ERROR INDICATION
- -
```

ErrorIndication ::= SEQUENCE { protocolIEs ProtocolIE-Container {{ErrorIndication-IEs}}, ProtocolExtensionContainer {{ErrorIndication-Extensions}} protocolExtensions OPTIONAL, . . . } ErrorIndication-IEs RNSAP-PROTOCOL-IES ::= { ID id-Cause CRITICALITY ignore TYPE Cause PRESENCE optional} ID id-CriticalityDiagnostics CRITICALITY ignore TYPE CriticalityDiagnostics PRESENCE optional }, . . . } ErrorIndication-Extensions RNSAP-PROTOCOL-EXTENSION ::= { ID id-S-RNTI CRITICALITY ignore EXTENSION S-RNTI PRESENCE optional ID id-D-RNTI CRITICALITY ignore EXTENSION D-RNTI PRESENCE optional . . . \*\*\*\*\* - --- COMMON MEASUREMENT INITIATION REQUEST \*\*\*\*\*\*\*\*\*\*\* CommonMeasurementInitiationRequest ::= SEQUENCE { ProtocolIE-Container {{CommonMeasurementInitiationReguest-IEs}}, protocolIEs ProtocolExtensionContainer {{CommonMeasurementInitiationReguest-Extensions}} protocolExtensions OPTIONAL, . . . } CommonMeasurementInitiationRequest-IEs RNSAP-PROTOCOL-IES ::= { { ID id-MeasurementID CRITICALITY reject TYPE MeasurementID PRESENCE mandatory }| ID id-CommonMeasurementObjectType-CM-Rqst CRITICALITY reject TYPE CommonMeasurementObjectType-CM-Rqst PRESENCE mandatory }| { ID id-CommonMeasurementType CRITICALITY reject TYPE CommonMeasurementType PRESENCE mandatory } | { ID id-MeasurementFilterCoefficient CRITICALITY reject TYPE MeasurementFilterCoefficient PRESENCE optional }| -- UTRAN only { ID id-ReportCharacteristics CRITICALITY reject TYPE ReportCharacteristics PRESENCE mandatory } | { ID id-SFNReportingIndicator CRITICALITY reject TYPE FNReportingIndicator PRESENCE mandatory } | { ID id-SFN CRITICALITY reject TYPE SFN PRESENCE optional } -- UTRAN only { ID id-CommonMeasurementAccuracy CRITICALITY reject TYPE CommonMeasurementAccuracy PRESENCE optional }, -- UTRAN only . . .

CommonMeasurementInitiationRequest-Extensions RNSAP-PROTOCOL-EXTENSION ::= {

```
{ ID id-MeasurementRecoveryBehavior
                                                     CRITICALITY ignore
                                                                                                 MeasurementRecoveryBehavior
                                                                                                                                         PRESENCE
                                                                                     EXTENSION
   optional
   } |
    -- UTRAN only
    { ID id-GANSS-Time-ID
                                                     CRITICALITY ignore
                                                                                                 GANSS-Time-ID
                                                                                     EXTENSION
        PRESENCE optional },
    . . .
CommonMeasurementObjectType-CM-Rqst ::= CHOICE {
                                    Cell-CM-Rqst,
    cell
    . . .
٦
Cell-CM-Rgst ::= SEQUENCE {
    uC-ID
                                    UC-ID.
    -- May be a GERAN cell identifier
    timeSlot
                                    TimeSlot
                                                                --3.84Mcps TDD and 7.68Mcps TDD only
                                                    OPTIONAL,
                                                                --1.28Mcps TDD only
    timeSlotLCR
                                    TimeSlotLCR
                                                     OPTIONAL,
    neighbouringCellMeasurementInformation
                                                    NeighbouringCellMeasurementInfo
                                                                                         OPTIONAL.
    -- UTRAN only
                                    ProtocolExtensionContainer { { CellItem-CM-Rqst-ExtIEs} }
    iE-Extensions
                                                                                                   OPTIONAL,
    . . .
NeighbouringCellMeasurementInfo ::= SEQUENCE (SIZE (1..maxNrOfMeasNCell)) OF
        CHOICE {
                neighbouringFDDCellMeasurementInformation
                                                                NeighbouringFDDCellMeasurementInformation,
                neighbouringTDDCellMeasurementInformation
                                                                NeighbouringTDDCellMeasurementInformation,
                ...,
                extension-neighbouringCellMeasurementInformation
                                                                     Extension-neighbouringCellMeasurementInformation,
                extension-neighbouringCellMeasurementInformation768 Extension-neighbouringCellMeasurementInformation768
Extension-neighbouringCellMeasurementInformation
                                                   :== ProtocollE-Single-Container {{ Extension-neighbouringCellMeasurementInformationIE }}
Extension-neighbouringCellMeasurementInformationIE RNSAP-PROTOCOL-IES ::= {
    { ID id-neighbouringTDDCellMeasurementInformationLCR CRITICALITY reject TYPE NeighbouringTDDCellMeasurementInformationLCR
                                                                                                                                         PRESENCE
mandatory },
    . . .
}
Extension-neighbouringCellMeasurementInformation768 ::= ProtocolIE-Single-Container {{ Extension-neighbouringCellMeasurementInformation768IE }}
Extension-neighbouringCellMeasurementInformation768IE RNSAP-PROTOCOL-IES ::= {
    { ID id-neighbouringTDDCellMeasurementInformation768 CRITICALITY reject TYPE NeighbouringTDDCellMeasurementInformation768
                                                                                                                                         PRESENCE
mandatory },
    . . .
CellItem-CM-Rgst-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    { ID id-UARFCNforNt
                                        CRITICALITY ignore EXTENSION UARFCN
                                                                                             PRESENCE optional }|
    -- Applicable to 1.28Mcps TDD only
```

```
{ ID id-UPPCHPositionLCR
                                                                                      PRESENCE optional },
                                     CRITICALITY reject EXTENSION UPPCHPositionLCR
   -- Applicable to 1.28Mcps TDD only
   . . .
  - -
  COMMON MEASUREMENT INITIATION RESPONSE
- -
  CommonMeasurementInitiationResponse ::= SEQUENCE {
   protocolIEs
                          ProtocolIE-Container
                                                {{CommonMeasurementInitiationResponse-IEs}},
   protocolExtensions
                          ProtocolExtensionContainer {{CommonMeasurementInitiationResponse-Extensions}}
                                                                                                                OPTIONAL,
   . . .
}
CommonMeasurementInitiationResponse-IEs RNSAP-PROTOCOL-IES ::= {
   { ID id-MeasurementID
                                                CRITICALITY ignore TYPE
                                                                          MeasurementID
       PRESENCE mandatory } |
    { ID
          id-CommonMeasurementObjectType-CM-Rsp CRITICALITY iqnore TYPE
                                                                          CommonMeasurementObjectType-CM-Rsp
                                                                                                                              PRESENCE
optional }|
   { ID id-SFN
                                                CRITICALITY ignore TYPE
                                                                          SFN
       PRESENCE optional }|
   -- UTRAN only
   { ID id-CriticalityDiagnostics
                                                CRITICALITY ignore TYPE
                                                                          CriticalityDiagnostics
   PRESENCE optional }|
   { ID id-CommonMeasurementAccuracy
                                                CRITICALITY reject TYPE
                                                                          CommonMeasurementAccuracy
   PRESENCE optional },
   -- UTRAN only
   . . .
CommonMeasurementInitiationResponse-Extensions RNSAP-PROTOCOL-EXTENSION ::= {
    { ID
          id-MeasurementRecoverySupportIndicator
                                                    CRITICALITY ignore
                                                                          EXTENSION MeasurementRecoverySupportIndicator
                                                                                                                              PRESENCE
optional
    },
   -- UTRAN only
   . . .
CommonMeasurementObjectType-CM-Rsp ::= CHOICE {
   cell
                             Cell-CM-Rsp,
   . . .
Cell-CM-Rsp ::= SEQUENCE {
   commonMeasurementValue
                                            CommonMeasurementValue,
   iE-Extensions
                                            ProtocolExtensionContainer { { CellItem-CM-Rsp-ExtIEs} }
                                                                                                                OPTIONAL,
   . . .
 }
CellItem-CM-Rsp-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
   . . .
```

```
_ _
  COMMON MEASUREMENT INITIATION FAILURE
- -
- -
  CommonMeasurementInitiationFailure ::= SEQUENCE {
                       ProtocolIE-Container
                                            {{CommonMeasurementInitiationFailure-IEs}},
   protocolIEs
   protocolExtensions
                       ProtocolExtensionContainer {{CommonMeasurementInitiationFailure-Extensions}}
                                                                                                       OPTIONAL,
   . . .
}
CommonMeasurementInitiationFailure-IEs RNSAP-PROTOCOL-IES ::= {
   { ID
         id-MeasurementID
                                     CRITICALITY
                                                   ignore
                                                                 TYPE
                                                                        MeasurementID
                                                                                                             PRESENCE
   mandatory }|
   { ID
         id-Cause
                                     CRITICALITY
                                                   ignore
                                                                 TYPE
                                                                                                             PRESENCE
                                                                        Cause
   mandatory }|
         id-CriticalityDiagnostics
   { ID
                                     CRITICALITY
                                                   ignore
                                                                 TYPE
                                                                        CriticalityDiagnostics
                                                                                                                    optional },
                                                                                                       PRESENCE
   . . .
CommonMeasurementInitiationFailure-Extensions RNSAP-PROTOCOL-EXTENSION ::= {
   . . .
   - -
-- COMMON MEASUREMENT REPORT
CommonMeasurementReport ::= SEQUENCE {
                                            {{CommonMeasurementReport-IEs}},
   protocolIEs
                       ProtocolIE-Container
                       ProtocolExtensionContainer {{CommonMeasurementReport-Extensions}}
   protocolExtensions
                                                                                   OPTIONAL,
   . . .
}
CommonMeasurementReport-IEs RNSAP-PROTOCOL-IES ::= {
         id-MeasurementID
   { ID
                                            CRITICALITY ignore TYPE
                                                                    MeasurementID
                                                                                                                    PRESENCE
   mandatory }|
   { ID
         id-CommonMeasurementObjectType-CM-Rprt CRITICALITY ignore TYPE
                                                                    CommonMeasurementObjectType-CM-Rprt
                                                                                                             PRESENCE
   mandatory }|
   { ID id-SFN
                                            CRITICALITY ignore TYPE
                                                                                                                    PRESENCE
                                                                    SFN
   optional
            },
   -- UTRAN only
   . . .
CommonMeasurementReport-Extensions RNSAP-PROTOCOL-EXTENSION ::= {
    { ID id-MeasurementRecoveryReportingIndicator CRITICALITY ignore
                                                                        EXTENSION MeasurementRecoveryReportingIndicator
   PRESENCE optional },
   -- UTRAN only
```

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```
. . .
}
CommonMeasurementObjectType-CM-Rprt ::= CHOICE {
   cell
                               Cell-CM-Rprt,
   . . .
Cell-CM-Rprt ::= SEQUENCE {
   commonMeasurementValueInformation CommonMeasurementValueInformation,
                               ProtocolExtensionContainer {{ CellItem-CM-Rprt-ExtIEs }}
   iE-Extensions
                                                                                    OPTIONAL,
   . . .
CellItem-CM-Rprt-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
   . . .
   - -
  COMMON MEASUREMENT TERMINATION REQUEST
- -
- -
     CommonMeasurementTerminationRequest ::= SEQUENCE
                                             {{CommonMeasurementTerminationReguest-IEs}},
   protocolIEs
                       ProtocolIE-Container
                       ProtocolExtensionContainer {{CommonMeasurementTerminationRequest-Extensions}}
   protocolExtensions
                                                                                                        OPTIONAL,
   . . .
}
CommonMeasurementTerminationRequest-IEs RNSAP-PROTOCOL-IES ::= {
   { ID
          id-MeasurementID
                                  CRITICALITY
                                                ignore
                                                                 TYPE
                                                                        MeasurementID
                                                                                                 PRESENCE
                                                                                                              mandatory },
   . . .
CommonMeasurementTerminationRequest-Extensions RNSAP-PROTOCOL-EXTENSION ::= {
   . . .
    _ _
- -
  COMMON MEASUREMENT FAILURE INDICATION
_ _
     CommonMeasurementFailureIndication ::= SEQUENCE {
   protocolIEs
                       ProtocolIE-Container
                                            {{CommonMeasurementFailureIndication-IEs}},
                           ProtocolExtensionContainer {{CommonMeasurementFailureIndication-Extensions}}
   protocolExtensions
                                                                                                                     OPTIONAL,
   . . .
}
CommonMeasurementFailureIndication-IEs RNSAP-PROTOCOL-IES ::= {
   { ID
                                                                                                              }|
         id-MeasurementID
                                  CRITICALITY ignore
                                                          TYPE
                                                                 MeasurementID
                                                                                    PRESENCE
                                                                                                 mandatory
```

803 3GPP TS 25.423 version 9.8.0 Release 9 ETSI TS 125 423 V9.8.0 (2012-01) }, { ID id-Cause CRITICALITY iqnore PRESENCE mandatory TYPE Cause . . . CommonMeasurementFailureIndication-Extensions RNSAP-PROTOCOL-EXTENSION ::= { . . . - --- INFORMATION EXCHANGE INITIATION REQUEST - -InformationExchangeInitiationReguest ::= SEQUENCE { protocolIEs ProtocolIE-Container {{InformationExchangeInitiationReguest-IEs}}, ProtocolExtensionContainer {{InformationExchangeInitiationReguest-Extensions}} protocolExtensions OPTIONAL, . . . } InformationExchangeInitiationRequest-IEs RNSAP-PROTOCOL-IES ::= { id-InformationExchangeID { ID CRITICALITY reject TYPE InformationExchangeID mandatory }| PRESENCE id-InformationExchangeObjectType-InfEx-Rqst { ID CRITICALITY reject TYPE InformationExchangeObjectType-InfEx-Rqst PRESENCE mandatory }| { ID id-InformationType CRITICALITY reject TYPE InformationType PRESENCE mandatory }| id-InformationReportCharacteristics { ID CRITICALITY reject TYPE InformationReportCharacteristics PRESENCE mandatory }, . . . InformationExchangeInitiationRequest-Extensions RNSAP-PROTOCOL-EXTENSION ::= { . . . InformationExchangeObjectType-InfEx-Rgst ::= CHOICE { cell Cell-InfEx-Rqst, ..., extension-InformationExchangeObjectType-InfEx-Rqst Extension-InformationExchangeObjectType-InfEx-Rqst } Cell-InfEx-Rqst ::= SEQUENCE { c-ID C-ID, --May be a GERAN cell identifier iE-Extensions ProtocolExtensionContainer { { CellItem-InfEx-Rqst-ExtIEs } } OPTIONAL, . . . CellItem-InfEx-Rqst-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= { . . . }

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Extension-InformationExchangeObjectType-InfEx-Rgst ::= ProtocollE-Single-Container {{ Extension-InformationExchangeObjectType-InfEx-RgstIE }} Extension-InformationExchangeObjectType-InfEx-RgstIE RNSAP-PROTOCOL-IES ::= { { ID id-GSM-Cell-InfEx-Rqst CRITICALITY reject TYPE GSM-Cell-InfEx-Rqst PRESENCE mandatory }| { ID id-MBMS-Bearer-Service-List CRITICALITY reject MBMS-Bearer-Service-List TYPE PRESENCE mandatory} { ID id-MBMS-Bearer-Service-in-MBMS-Cell-InfEx-Rost CRITICALITY reiect TYPE MBMS-Bearer-Service-in-MBMS-Cell-InfEx-Rqst PRESENCE mandatory | { ID id-MBMS-Cell-InfEx-Rqst CRITICALITY reject TYPE MBMS-Cell-InfEx-Rqst PRESENCE mandatory } } GSM-Cell-InfEx-Rgst ::= SEQUENCE { cGI CGI, ProtocolExtensionContainer { { GSMCellItem-InfEx-Rqst-ExtIEs } } iE-Extensions OPTIONAL, . . . GSMCellItem-InfEx-Rqst-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= { . . . MBMS-Bearer-Service-in-MBMS-Cell-InfEx-Rqst ::= SEQUENCE (SIZE (1..maxNrOfCells)) OF MBMS-Bearer-Service-in-MBMS-Cell-Item-InfEx-Rqst MBMS-Bearer-Service-in-MBMS-Cell-Item-InfEx-Rgst ::= SEQUENCE c-ID C-ID, mBMS-Bearer-Service-List-InfEx-Rgst MBMS-Bearer-Service-List-InfEx-Rqst, ProtocolExtensionContainer { { MBMS-Bearer-Service-in-MBMS-Cell-Item-InfEx-Rgst-ExtIEs } } iE-Extensions OPTIONAL, . . . MBMS-Bearer-Service-in-MBMS-Cell-Item-InfEx-Rgst-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= { . . . MBMS-Bearer-Service-List-InfEx-Rqst ::= SEQUENCE (SIZE (1..maxNrOfMBMSServices)) OF TMGI MBMS-Cell-InfEx-Rqst ::= SEQUENCE (SIZE (1..maxNrOfCells)) OF C-ID -- INFORMATION EXCHANGE INITIATION RESPONSE - -InformationExchangeInitiationResponse ::= SEQUENCE {{InformationExchangeInitiationResponse-IEs}}, protocolIEs ProtocolIE-Container protocolExtensions ProtocolExtensionContainer {{InformationExchangeInitiationResponse-Extensions}} OPTIONAL, . . .

```
InformationExchangeInitiationResponse-IEs RNSAP-PROTOCOL-IES ::= {
    { ID id-InformationExchangeID
                                                        CRITICALITY ignore TYPE
                                                                                    InformationExchangeID
               mandatory }|
    PRESENCE
    { ID
           id-InformationExchangeObjectType-InfEx-Rsp CRITICALITY ignore TYPE
                                                                                    InformationExchangeObjectType-InfEx-Rsp
                                                                                                                                        PRESENCE
    optional
               }|
    { ID
           id-CriticalityDiaqnostics
                                                        CRITICALITY ignore TYPE
                                                                                    CriticalityDiagnostics
    PRESENCE
               optional },
    . . .
InformationExchangeInitiationResponse-Extensions RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
InformationExchangeObjectType-InfEx-Rsp ::= CHOICE {
    cell
                                Cell-InfEx-Rsp,
    . . . ,
    extension-InformationExchangeObjectType-InfEx-Rsp
                                                            Extension-InformationExchangeObjectType-InfEx-Rsp
Cell-InfEx-Rsp ::= SEQUENCE {
                                    RequestedDataValue,
    requestedDataValue
   iE-Extensions
                                    ProtocolExtensionContainer { { CellItem-InfEx-Rsp-ExtIEs} }
                                                                                                         OPTIONAL,
    . . .
CellItem-InfEx-Rsp-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
Extension-InformationExchangeObjectType-InfEx-Rsp ::= ProtocolIE-Single-Container {{ Extension-InformationExchangeObjectType-InfEx-RspIE }}
Extension-InformationExchangeObjectType-InfEx-RspIE RNSAP-PROTOCOL-IES ::= {
    { ID id-MBMS-Bearer-Service-List-InfEx-Rsp
                                                            CRITICALITY
                                                                                        TYPE
                                                                                                MBMS-Bearer-Service-List-InfEx-Rsp
                                                                            ignore
                PRESENCE mandatory } |
     ID id-MBMS-Bearer-Service-in-MBMS-Cell-InfEx-Rsp
                                                            CRITICALITY
                                                                            ignore
                                                                                        TYPE
                                                                                                MBMS-Bearer-Service-in-MBMS-Cell-InfEx-Rsp
           PRESENCE mandatory }
    { ID id-MBMS-Cell-InfEx-Rsp
                                                            CRITICALITY
                                                                            ignore
                                                                                        TYPE
                                                                                                MBMS-Cell-InfEx-Rsp
                            PRESENCE
                                        mandatory }
MBMS-Bearer-Service-List-InfEx-Rsp ::= SEOUENCE (SIZE (1..maxNrOfMBMSServices)) OF MBMS-Bearer-ServiceItemIEs-InfEx-Rsp
MBMS-Bearer-ServiceItemIEs-InfEx-Rsp
                                        ::=SEQUENCE{
    tmqi
           TMGI,
    requestedDataValue
                            RequestedDataValue,
    iE-Extensions
                                    ProtocolExtensionContainer { { MBMS-Bearer-ServiceItem-InfEx-Rsp-ExtIEs } } OPTIONAL,
    . . .
```

```
MBMS-Bearer-ServiceItem-InfEx-Rsp-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
   . . .
MBMS-Bearer-Service-in-MBMS-Cell-InfEx-Rsp ::= SEQUENCE (SIZE (1..maxNrOfCells)) OF MBMS-Bearer-Service-in-MBMS-Cell-Item-InfEx-Rsp
MBMS-Bearer-Service-in-MBMS-Cell-Item-InfEx-Rsp ::= SEQUENCE {
   C-TD
                                 C-ID,
   mBMS-Bearer-Service-List-InfEx-Rsp
                                                           MBMS-Bearer-Service-List-InfEx-Rsp,
                                 ProtocolExtensionContainer { { MBMS-Bearer-Service-in-MBMS-Cell-Item-InfEx-Rsp-ExtIEs } }
   iE-Extensions
                                                                                                                             OPTIONAL,
   . . .
}
MBMS-Bearer-Service-in-MBMS-Cell-Item-InfEx-Rsp-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
MBMS-Cell-InfEx-Rsp ::= SEQUENCE (SIZE (1..maxNrOfCells)) OF MBMS-Cell-Item-InfEx-Rsp
MBMS-Cell-Item-InfEx-Rsp ::= SEQUENCE {
   c-ID
                                 C-ID,
   requestedDataValue
                                 RequestedDataValue,
   iE-Extensions
                                 ProtocolExtensionContainer { { MBMS-Cell-Item-InfEx-Rsp-ExtIEs } }
                                                                                                        OPTIONAL,
   . . .
}
MBMS-Cell-Item-InfEx-Rsp-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
- -
-- INFORMATION EXCHANGE INITIATION FAILURE
- -
  InformationExchangeInitiationFailure ::= SEQUENCE {
                                               {{InformationExchangeInitiationFailure-IEs}},
   protocolIEs
                         ProtocolIE-Container
   protocolExtensions
                         ProtocolExtensionContainer {{InformationExchangeInitiationFailure-Extensions}}
                                                                                                               OPTIONAL,
   . . .
}
InformationExchangeInitiationFailure-IEs RNSAP-PROTOCOL-IES ::= {
    { ID id-InformationExchangeID
                                               CRITICALITY
                                                               ignore
                                                                             TYPE
                                                                                     InformationExchangeID
   PRESENCE mandatory }|
   { ID
          id-Cause
                                                CRITICALITY
                                                               ignore
                                                                             TYPE
                                                                                     Cause
          PRESENCE
                   mandatory }|
   { ID id-CriticalityDiagnostics
                                                CRITICALITY
                                                               iqnore
                                                                             TYPE
                                                                                     CriticalityDiaqnostics
   PRESENCE optional },
   . . .
```

```
InformationExchangeInitiationFailure-Extensions RNSAP-PROTOCOL-EXTENSION ::= {
```

. . . \_ \_ - --- INFORMATION REPORT - -InformationReport ::= SEQUENCE { protocolIEs ProtocolIE-Container {{InformationReport-IEs}}, ProtocolExtensionContainer {{InformationReport-Extensions}} protocolExtensions OPTIONAL, . . . InformationReport-IEs RNSAP-PROTOCOL-IES ::= { { ID id-InformationExchangeID CRITICALITY ignore InformationExchangeID TYPE mandatory } PRESENCE id-InformationExchangeObjectType-InfEx-Rprt { ID CRITICALITY ignore TYPE InformationExchangeObjectType-InfEx-Rprt mandatory }, PRESENCE . . . InformationReport-Extensions RNSAP-PROTOCOL-EXTENSION ::= { . . . } InformationExchangeObjectType-InfEx-Rprt ::= CHOICE { cell Cell-InfEx-Rprt, ..., extension-InformationExchangeObjectType-InfEx-Rprt Extension-InformationExchangeObjectType-InfEx-Rprt } Extension-InformationExchangeObjectType-InfEx-Rprt ::= ProtocollE-Single-Container {{ Extension-InformationExchangeObjectType-InfEx-RprtIE }} Extension-InformationExchangeObjectType-InfEx-RprtIE RNSAP-PROTOCOL-IES ::= { { ID id-MBMS-Bearer-Service-in-MBMS-Cell-InfEx-Rprt CRITICALITY ignore TYPE MBMS-Bearer-Service-in-MBMS-Cell-InfEx-Rprt PRESENCE mandatory} { ID id-MBMS-Cell-InfEx-Rprt CRITICALITY ignore TYPE MBMS-Cell-InfEx-Rprt PRESENCE mandatory } Cell-InfEx-Rprt ::= SEQUENCE { requestedDataValueInformation RequestedDataValueInformation, iE-Extensions ProtocolExtensionContainer {{ CellItem-InfEx-Rprt-ExtIEs }} OPTIONAL, . . . } CellItem-InfEx-Rprt-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= { . . .

}

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```

```
MBMS-Bearer-Service-in-MBMS-Cell-InfEx-Rprt ::= SEQUENCE (SIZE (1..maxNrOfCells)) OF MBMS-Bearer-Service-in-MBMS-Cell-Item-InfEx-Rprt
MBMS-Bearer-Service-in-MBMS-Cell-Item-InfEx-Rprt
                                               ::= SEQUENCE {
   c-ID
                                  C-ID,
   mBMS-Bearer-Service-List-InfEx-Rprt
                                                            MBMS-Bearer-Service-List-InfEx-Rprt,
                                  ProtocolExtensionContainer { { MBMS-Bearer-Service-in-MBMS-Cell-Item-InfEx-Rprt-ExtIEs } }
   iE-Extensions
                                                                                                                                OPTIONAL,
MBMS-Bearer-Service-in-MBMS-Cell-Item-InfEx-Rprt-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
MBMS-Bearer-Service-List-InfEx-Rprt ::= SEOUENCE (SIZE (1..maxNrOfMBMSServices)) OF MBMS-Bearer-Service-List-Item-InfEx-Rprt
MBMS-Bearer-Service-List-Item-InfEx-Rprt
                                         ::= SEQUENCE {
    tmqi
                          TMGI.
   requestedDataValueInformation RequestedDataValueInformation,
                                  ProtocolExtensionContainer { { MBMS-Bearer-Service-List-Item-InfEx-Rprt-ExtIEs } }
   iE-Extensions
                                                                                                                         OPTIONAL,
    . . .
MBMS-Bearer-Service-List-Item-InfEx-Rprt-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
MBMS-Cell-InfEx-Rprt
                     ::= SEQUENCE (SIZE (1..maxNrOfCells)) OF MBMS-Cell-Item-InfEx-Rprt
MBMS-Cell-Item-InfEx-Rprt ::= SEQUENCE {
   c-ID
                                  C-ID,
   requestedDataValueInformation RequestedDataValueInformation,
                                  ProtocolExtensionContainer { { MBMS-Cell-Item-InfEx-Rprt-ExtIEs } }
   iE-Extensions
                                                                                                          OPTIONAL,
    . . .
}
MBMS-Cell-Item-InfEx-Rprt-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
    - -
-- INFORMATION EXCHANGE TERMINATION REQUEST
- -
  ***********
InformationExchangeTerminationRequest ::= SEQUENCE {
   protocolIEs
                          ProtocolIE-Container
                                                 {{InformationExchangeTerminationRequest-IEs}},
   protocolExtensions
                          ProtocolExtensionContainer {{InformationExchangeTerminationRequest-Extensions}}
                                                                                                                  OPTIONAL,
    . . .
}
```

```
InformationExchangeTerminationReguest-IEs RNSAP-PROTOCOL-IES ::=
   { ID
        id-InformationExchangeID
                                        CRITICALITY
                                                      ignore
                                                                      TYPE
                                                                             InformationExchangeID
                                                                                                                  PRESENCE
   mandatory},
   . . .
}
InformationExchangeTerminationRequest-Extensions RNSAP-PROTOCOL-EXTENSION ::= {
   . . .
}
  ******
- -
-- INFORMATION EXCHANGE FAILURE INDICATION
_ _
       InformationExchangeFailureIndication ::= SEQUENCE {
                                           {{InformationExchangeFailureIndication-IEs}},
   protocolIEs
                     ProtocolIE-Container
                          ProtocolExtensionContainer {{InformationExchangeFailureIndication-Extensions}}
   protocolExtensions
                                                                                                                  OPTIONAL,
   . . .
}
InformationExchangeFailureIndication-IEs RNSAP-PROTOCOL-IES ::= {
   { ID id-InformationExchangeID
                                CRITICALITY ignore
                                                               TYPE
                                                                      InformationExchangeID
                                                                                                           PRESENCE
   mandatory }|
   { ID id-Cause
                                        CRITICALITY ignore
                                                                TYPE
                                                                                                                  PRESENCE
                                                                       Cause
   mandatory },
   . . .
}
InformationExchangeFailureIndication-Extensions RNSAP-PROTOCOL-EXTENSION ::= {
   . . .
  - -
-- RESET REQUEST
_ _
  *****
ResetRequest ::= SEQUENCE {
   protocolIEs
                       ProtocolIE-Container
                                           {{ResetRequest-IEs}},
                       ProtocolExtensionContainer {{ResetRequest-Extensions}}
   protocolExtensions
                                                                          OPTIONAL,
   . . .
ResetRequest-IEs RNSAP-PROTOCOL-IES ::= {
    ID id-RNC-ID
                 CRITICALITY reject TYPE RNC-ID
                                                         PRESENCE mandatory }
   { ID id-ResetIndicator CRITICALITY reject TYPE ResetIndicator
                                                                       PRESENCE
                                                                                 mandatory },
   . . .
}
ResetRequest-Extensions RNSAP-PROTOCOL-EXTENSION ::= {
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```

```
PRESENCE optional },
    { ID id-Extended-RNC-ID
                                        CRITICALITY reject EXTENSION Extended-RNC-ID
    . . .
ResetIndicator ::= CHOICE {
    context
                    ContextList-Reset,
    all-contexts
                        NULL,
    ...,
    contextGroup
                    ContextGroupList-Reset
}
ContextList-Reset ::= SEQUENCE {
    contextInfoList-Reset
                                ContextInfoList-Reset,
    iE-Extensions
                                             ProtocolExtensionContainer { {ContextItem-Reset-ExtIEs} }
                                                                                                                   OPTIONAL,
    . . .
}
ContextItem-Reset-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
}
ContextInfoList-Reset ::= SEQUENCE (SIZE (1.. maxResetContext)) OF ProtocolIE-Single-Container {{ ContextInfoItemIE-Reset }}
ContextInfoItemIE-Reset RNSAP-PROTOCOL-IES ::= {
    {ID id-ContextInfoItem-Reset
                                        CRITICALITY reject
                                                                 TYPE ContextInfoItem-Reset
                                                                                                  PRESENCE mandatory }
}
ContextInfoItem-Reset ::= SEQUENCE {
    contextType-Reset
                                ContextType-Reset,
                                ProtocolExtensionContainer { { ContextInfoItem-Reset-ExtIEs } } OPTIONAL,
    iE-Extensions
    . . .
ContextInfoItem-Reset-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
ContextType-Reset ::= CHOICE {
    sRNTI
                    S-RNTI,
    drnti
                    D-RNTI,
    . . .
ContextGroupList-Reset ::= SEQUENCE {
    contextGroupInfoList-Reset
                                    ContextGroupInfoList-Reset,
    iE-Extensions
                                    ProtocolExtensionContainer { {ContextGroupItem-Reset-ExtIEs} }
                                                                                                                   OPTIONAL,
    . . .
}
ContextGroupItem-Reset-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
}
ContextGroupInfoList-Reset ::= SEQUENCE (SIZE (1.. maxResetContextGroup)) OF ProtocolIE-Single-Container {{ ContextGroupInfoItemIE-Reset }}
```

```
ContextGroupInfoItemIE-Reset RNSAP-PROTOCOL-IES ::= {
   {ID id-ContextGroupInfoItem-Reset
                                     CRITICALITY reject
                                                          TYPE ContextGroupInfoItem-Reset
                                                                                                PRESENCE mandatory }
ContextGroupInfoItem-Reset ::= SEQUENCE {
   s-RNTI-Group
                           S-RNTI-Group,
   iE-Extensions
                           ProtocolExtensionContainer { { ContextGroupInfoItem-Reset-ExtIEs } }
                                                                                                OPTIONAL,
   . . .
ContextGroupInfoItem-Reset-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
   . . .
       -- RESET RESPONSE
_ _
ResetResponse ::= SEQUENCE {
                       ProtocolIE-Container {{ResetResponse-IEs}},
   protocolIEs
                       ProtocolExtensionContainer {{ResetResponse-Extensions}}
   protocolExtensions
                                                                                  OPTIONAL.
   . . .
}
ResetResponse-IEs RNSAP-PROTOCOL-IES ::= {
     ID id-RNC-ID
                           CRITICALITY ignore TYPE RNC-ID
                                                          PRESENCE mandatory |
    ID id-CriticalityDiagnostics
                                                                 CriticalityDiagnostics
                                  CRITICALITY
                                               ignore
                                                          TYPE
                                                                                                PRESENCE
                                                                                                             optional},
   . . .
ResetResponse-Extensions RNSAP-PROTOCOL-EXTENSION ::= {
   { ID id-Extended-RNC-ID
                                  CRITICALITY reject EXTENSION Extended-RNC-ID
                                                                              PRESENCE optional },
   . . .
}
  - -
-- RADIO LINK ACTIVATION COMMAND FDD
  RadioLinkActivationCommandFDD ::= SEOUENCE {
   protocolIEs
               ProtocolIE-Container
                                           {{RadioLinkActivationCommandFDD-IEs}},
                       ProtocolExtensionContainer {{RadioLinkActivationCommandFDD-Extensions}}
   protocolExtensions
                                                                                                       OPTIONAL,
   . . .
}
RadioLinkActivationCommandFDD-IEs RNSAP-PROTOCOL-IES ::= {
   { ID id-DelayedActivationList-RL-ActivationCmdFDD
                                                   CRITICALITY ignore TYPE
                                                                           DelayedActivationInformationList-RL-ActivationCmdFDD
      PRESENCE mandatory },
   . . .
```

```
RadioLinkActivationCommandFDD-Extensions RNSAP-PROTOCOL-EXTENSION ::= {
}
DelayedActivationInformationList-RL-ActivationCmdFDD ::= SEQUENCE (SIZE (1..maxNrOfRLs)) OF ProtocolIE-Single-Container
    DelayedActivationInformation-RL-ActivationCmdFDD-IEs} }
DelayedActivationInformation-RL-ActivationCmdFDD-IEs RNSAP-PROTOCOL-IES ::= {
     ID id-DelayedActivationInformation-RL-ActivationCmdFDD CRITICALITY ignore TYPE DelayedActivationInformation-RL-ActivationCmdFDD
   PRESENCE optional
}
DelayedActivationInformation-RL-ActivationCmdFDD ::= SEQUENCE {
   rL-ID
                              RL-ID,
   delayed-activation-update DelayedActivationUpdate,
   iE-Extensions
                              ProtocolExtensionContainer { { DelayedActivationInformation-RL-ActivationCmdFDD-ExtIEs } } OPTIONAL,
   . . .
DelayedActivationInformation-RL-ActivationCmdFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
  - -
-- RADIO LINK ACTIVATION COMMAND TDD
          ******
RadioLinkActivationCommandTDD ::= SEQUENCE {
                ProtocolIE-Container
                                                 {{RadioLinkActivationCommandTDD-IEs}},
   protocolIEs
                       ProtocolExtensionContainer {{RadioLinkActivationCommandTDD-Extensions}}
                                                                                                                 OPTIONAL,
   protocolExtensions
   . . .
RadioLinkActivationCommandTDD-IEs RNSAP-PROTOCOL-IES ::= {
   { ID id-DelayedActivationList-RL-ActivationCmdTDD
                                                        CRITICALITY ignore TYPE
                                                                                  DelayedActivationInformationList-RL-ActivationCmdTDD
       PRESENCE
                  mandatory },
   . . .
}
RadioLinkActivationCommandTDD-Extensions RNSAP-PROTOCOL-EXTENSION ::= {
   . . .
DelayedActivationInformationList-RL-ActivationCmdTDD ::= SEQUENCE (SIZE (1..maxNrOfRLs)) OF ProtocolIE-Single-Container {
    { DelayedActivationInformation-RL-ActivationCmdTDD-IEs } }
DelayedActivationInformation-RL-ActivationCmdTDD-IEs RNSAP-PROTOCOL-IES ::= {
     ID id-DelayedActivationInformation-RL-ActivationCmdTDD CRITICALITY ignore TYPE DelayedActivationInformation-RL-ActivationCmdTDD
   PRESENCE optional
}
```

DelayedActivationInformation-RL-ActivationCmdTDD ::= SEQUENCE { rL-ID RL-ID. delayed-activation-update DelayedActivationUpdate, iE-Extensions ProtocolExtensionContainer { { DelayedActivationInformation-RL-ActivationCmdTDD-ExtIEs } } OPTIONAL, . . . DelayedActivationInformation-RL-ActivationCmdTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= { . . . \_ \_ GERAN UPLINK SIGNALLING TRANSFER INDICATION \_ \_ GERANUplinkSignallingTransferIndication ::= SEQUENCE { {{GERANUplinkSignallingTransferIndication-IEs}}, protocolIEs ProtocolIE-Container protocolExtensions ProtocolExtensionContainer {{GERANUplinkSignallingTransferIndication-Extensions}} OPTIONAL, . . . } GERANUplinkSignallingTransferIndication-IEs RNSAP-PROTOCOL-IES ::= { { ID id-UC-ID CRITICALITY ignore TYPE UC-ID PRESENCE mandatory -- UC-Id may be GERAN cell identifier. ID id-SAI CRITICALITY ignore TYPE SAI PRESENCE mandatory CRITICALITY ignore TYPE S-RNTI ID id-S-RNTI PRESENCE mandatory ID id-D-RNTI CRITICALITY ignore TYPE D-RNTI PRESENCE optional ID id-L3-Information CRITICALITY ignore TYPE L3-Information PRESENCE mandatory ID id-CN-PS-DomainIdentifier CRITICALITY ignore TYPE CN-PS-DomainIdentifier PRESENCE optional ID id-CN-CS-DomainIdentifier CRITICALITY ignore TYPE CN-CS-DomainIdentifier PRESENCE optional CRITICALITY ignore TYPE URA-Information PRESENCE optional { ID id-URA-Information -- URA information may be GRA information . . . } GERANUplinkSignallingTransferIndication-Extensions RNSAP-PROTOCOL-EXTENSION ::= { . . . - --- RADIO LINK PARAMETER UPDATE INDICATION FDD - -\*\*\*\*\* RadioLinkParameterUpdateIndicationFDD ::= SEQUENCE { {{RadioLinkParameterUpdateIndicationFDD-IEs}}, protocolIEs ProtocolIE-Container ProtocolExtensionContainer {{RadioLinkParameterUpdateIndicationFDD-Extensions}} protocolExtensions OPTIONAL, . . .

```
RadioLinkParameterUpdateIndicationFDD-IEs RNSAP-PROTOCOL-IES ::= {
    { ID
           id-HSDSCH-FDD-Update-Information
                                                                    CRITICALITY ignore TYPE
                                                                                                HSDSCH-FDD-Update-Information
    PRESENCE optional}
    { ID
          id-RL-ParameterUpdateIndicationFDD-RL-InformationList CRITICALITY ignore TYPE
                                                                                                RL-ParameterUpdateIndicationFDD-RL-InformationList
        PRESENCE optional
                            }.
    . . .
RL-ParameterUpdateIndicationFDD-RL-InformationList ::= SEQUENCE (SIZE (1..maxNrOfRLs)) OF ProtocolIE-Single-Container { { RL-
ParameterUpdateIndicationFDD-RL-InformationList-IEs} }
RL-ParameterUpdateIndicationFDD-RL-InformationList-IEs RNSAP-PROTOCOL-IES ::= {
    { ID id-RL-ParameterUpdateIndicationFDD-RL-Information-Item
                                                                    CRITICALITY ignore TYPE RL-ParameterUpdateIndicationFDD-RL-Information-Item
        PRESENCE mandatory }
}
RL-ParameterUpdateIndicationFDD-RL-Information-Item::= SEQUENCE {
    rL-ID
                                        RL-ID,
    phase-Reference-Update-Indicator
                                        Phase-Reference-Update-Indicator
                                                                            OPTIONAL,
                                        ProtocolExtensionContainer { { RL-ParameterUpdateIndicationFDD-RL-Information-ExtIEs } } OPTIONAL,
    iE-Extensions
    . . .
RL-ParameterUpdateIndicationFDD-RL-Information-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
}
RadioLinkParameterUpdateIndicationFDD-Extensions RNSAP-PROTOCOL-EXTENSION ::= {
     ID id-E-DCH-FDD-Update-Information
                                                    CRITICALITY ignore EXTENSION E-DCH-FDD-Update-Information
                                                                                                                        PRESENCE optional } |
     ID id-Additional-HS-Cell-Information-RL-Param-Upd
                                                            CRITICALITY ignore EXTENSION Additional-HS-Cell-Information-RL-Param-Upd PRESENCE
optional}
    { ID id-Additional-EDCH-Cell-Information-RL-Param-Upd CRITICALITY ignore EXTENSION Additional-EDCH-Cell-Information-RL-Param-Upd
    PRESENCE optional } |
    { ID id-CPC-RecoveryReport
                                                    CRITICALITY ignore EXTENSION CPC-RecoveryReport
                                                                                                                        PRESENCE optional },
    . . .
Additional-HS-Cell-Information-RL-Param-Upd ::= SEQUENCE (SIZE (1..maxNrOfHSDSCH-1)) OF Additional-HS-Cell-Information-RL-Param-Upd-ItemIEs
Additional-HS-Cell-Information-RL-Param-Upd-ItemIEs ::=SEOUENCE{
    hSPDSCH-RL-ID
                                                        RL-ID,
    hS-DSCH-FDD-Secondary-Serving-Update-Information
                                                       HS-DSCH-FDD-Secondary-Serving-Update-Information,
                                    ProtocolExtensionContainer { { Additional-HS-Cell-Information-RL-Setup-ExtIEs } } OPTIONAL,
   iE-Extensions
    . . .
Additional-HS-Cell-Information-RL-Setup-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
}
Additional-EDCH-Cell-Information-RL-Param-Upd ::= SEQUENCE (SIZE (1..maxNrOfEDCH-1)) OF Additional-EDCH-Cell-Information-RL-Param-Upd-ItemIEs
```

Additional-EDCH-Cell-Information-RL-Param-Upd-ItemIEs ::=SEQUENCE{ additional-EDCH-FDD-Update-Information Additional-EDCH-FDD-Update-Information, iE-Extensions ProtocolExtensionContainer { { Additional-EDCH-FDD-Update-Information-ExtIEs } } OPTIONAL, . . . Additional-EDCH-FDD-Update-Information-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= { . . . -- RADIO LINK PARAMETER UPDATE INDICATION TOD \_ \_ RadioLinkParameterUpdateIndicationTDD ::= SEQUENCE protocolIEs ProtocolIE-Container {{RadioLinkParameterUpdateIndicationTDD-IEs}}, ProtocolExtensionContainer {{RadioLinkParameterUpdateIndicationTDD-Extensions}} protocolExtensions OPTIONAL, . . . RadioLinkParameterUpdateIndicationTDD-IEs RNSAP-PROTOCOL-IES ::= { { ID id-HSDSCH-TDD-Update-Information CRITICALITY ignore TYPE HSDSCH-TDD-Update-Information PRESENCE optional}, . . . 3 RadioLinkParameterUpdateIndicationTDD-Extensions RNSAP-PROTOCOL-EXTENSION ::= { - --- UE MEASUREMENT INITIATION REQUEST - -UEMeasurementInitiationRequest ::= SEQUENCE { protocolIEs ProtocolIE-Container {UEMeasurementInitiationRequest-IEs}}, ProtocolExtensionContainer {{UEMeasurementInitiationRequest-Extensions}} protocolExtensions OPTIONAL, . . . UEMeasurementInitiationRequest-IEs RNSAP-PROTOCOL-IES ::= · { ID id-AllowedQueuingTime CRITICALITY reject TYPE AllowedQueuingTime PRESENCE optional } | ID id-MeasurementID CRITICALITY reject TYPE MeasurementID PRESENCE mandatory ID id-UEMeasurementType CRITICALITY reject TYPE UEMeasurementType PRESENCE mandatory ID id-UEMeasurementTimeslotInfoHCR CRITICALITY reject TYPE UEMeasurementTimeslotInfoHCR PRESENCE optional

```
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                                                                                                           ETSI TS 125 423 V9.8.0 (2012-01)
     ID id-UEMeasurementTimeslotInfoLCR
                                           CRITICALITY reject TYPE UEMeasurementTimeslotInfoLCR
                                                                                                            PRESENCE optional
     ID id-MeasurementFilterCoefficient
                                           CRITICALITY reject TYPE MeasurementFilterCoefficient
                                                                                                            PRESENCE optional
     ID id-UEMeasurementReportCharacteristics
                                           CRITICALITY reject TYPE UEMeasurementReportCharacteristics
                                                                                                     PRESENCE mandatory
                                                                                                                          } |
     ID id-UEMeasurementParameterModAllow
                                           CRITICALITY reject TYPE UEMeasurementParameterModAllow
                                                                                                            PRESENCE mandatory
                                                                                                                                },
    . . .
UEMeasurementInitiationRequest-Extensions RNSAP-PROTOCOL-EXTENSION ::= {
   { ID id-UEMeasurementTimeslotInfo768
                                                                                                            PRESENCE optional },
                                                  CRITICALITY reject EXTENSION UEMeasurementTimeslotInfo768
   . . .
  *****
_ _
  UE MEASUREMENT INITIATION RESPONSE
_ _
  ******
UEMeasurementInitiationResponse ::= SEQUENCE {
   protocolIEs
                                ProtocolIE-Container
                                                         {UEMeasurementInitiationResponse-IEs}},
                                ProtocolExtensionContainer {{UEMeasurementInitiationResponse-Extensions}}
   protocolExtensions
                                                                                                                   OPTIONAL,
   . . .
UEMeasurementInitiationResponse-IEs RNSAP-PROTOCOL-IES ::= {
     ID id-MeasurementID
                                           CRITICALITY ignore TYPE MeasurementID
                                                                                                                   PRESENCE mandatory
     ID id-MeasurementFilterCoefficient
                                           CRITICALITY reject TYPE MeasurementFilterCoefficient
                                                                                                            PRESENCE optional
     ID id-UEMeasurementReportCharacteristics CRITICALITY reject TYPE UEMeasurementReportCharacteristics
                                                                                                     PRESENCE optional
                                                                                                                                }
     ID id-CriticalityDiagnostics
                                           CRITICALITY ignore TYPE CriticalityDiagnostics
                                                                                                                   PRESENCE optional
   . . .
UEMeasurementInitiationResponse-Extensions RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
   - -
-- UE MEASUREMENT INITIATION FAILURE
UEMeasurementInitiationFailure ::= SEQUENCE {
   protocolIEs
                                ProtocolIE-Container
                                                         {{UEMeasurementInitiationFailure-IEs}},
                                ProtocolExtensionContainer {{UEMeasurementInitiationFailure-Extensions}}
   protocolExtensions
                                                                                                                  OPTIONAL,
   . . .
}
```

```
UEMeasurementInitiationFailure-IEs RNSAP-PROTOCOL-IES ::= {
```

```
ID id-MeasurementID
                                    CRITICALITY ignore TYPE MeasurementID
                                                                                       PRESENCE mandatory
    ID id-Cause
                                    CRITICALITY ignore TYPE Cause
                                                                                       PRESENCE mandatory
    ID id-CriticalityDiagnostics
                                    CRITICALITY ignore TYPE CriticalityDiagnostics
                                                                                       PRESENCE optional
   . . .
3
UEMeasurementInitiationFailure-Extensions RNSAP-PROTOCOL-EXTENSION ::= {
   . . .
    - -
-- UE MEASUREMENT REPORT
- -
UEMeasurementReport ::= SEQUENCE {
   protocolIEs
                             ProtocolIE-Container
                                                    {{UEMeasurementReport-IEs}},
                             ProtocolExtensionContainer {{UEMeasurementReport-Extensions}}
   protocolExtensions
                                                                                                OPTIONAL,
   . . .
}
UEMeasurementReport-IES RNSAP-PROTOCOL-IES ::= {
                                    CRITICALITY ignore TYPE MeasurementID
    ID id-MeasurementID
                                                                                             PRESENCE mandatory
    ID id-UEMeasurementValueInformation CRITICALITY iqnore TYPE UEMeasurementValueInformation
                                                                                             PRESENCE mandatory
                                                                                                                }.
   . . .
}
UEMeasurementReport-Extensions RNSAP-PROTOCOL-EXTENSION ::= {
   . . .
    - -
-- UE MEASUREMENT TERMINATION REQUEST
- -
       UEMeasurementTerminationRequest ::= SEQUENCE {
                             ProtocolIE-Container
   protocolIEs
                                                     {{UEMeasurementTerminationRequest-IEs}},
                             ProtocolExtensionContainer {{UEMeasurementTerminationRequest-Extensions}}
   protocolExtensions
                                                                                                          OPTIONAL,
   . . .
UEMeasurementTerminationRequest-IEs RNSAP-PROTOCOL-IES ::= {
   { ID id-MeasurementID
                                 CRITICALITY ignore TYPE MeasurementID
                                                                            PRESENCE mandatory },
   . . .
}
UEMeasurementTerminationRequest-Extensions RNSAP-PROTOCOL-EXTENSION ::= {
   . . .
```

```
-- UE MEASUREMENT FAILURE INDICATION
UEMeasurementFailureIndication ::= SEQUENCE {
                                                         {{UEMeasurementFailureIndication-IEs}},
   protocolIEs
                                ProtocolIE-Container
                                ProtocolExtensionContainer {{UEMeasurementFailureIndication-Extensions}}
   protocolExtensions
                                                                                                                   OPTIONAL,
   . . .
}
UEMeasurementFailureIndication-IEs RNSAP-PROTOCOL-IES ::= {
     ID id-MeasurementID
                                    CRITICALITY ignore TYPE MeasurementID
                                                                                   PRESENCE mandatory
   { ID id-Cause
                                    CRITICALITY ignore TYPE Cause
                                                                                   PRESENCE mandatory
                                                                                                      }.
   . . .
}
UEMeasurementFailureIndication-Extensions RNSAP-PROTOCOL-EXTENSION ::= {
   . . .
  - -
-- IUR INVOKE TRACE
- -
  ******
IurInvokeTrace ::= SEQUENCE {
                                                                     {{IurInvokeTrace-IEs}},
   protocolIEs
                                           ProtocolIE-Container
                                           ProtocolExtensionContainer {{IurInvokeTrace-Extensions}}
   protocolExtensions
                                                                                                             OPTIONAL,
   . . .
}
IurInvokeTrace-IEs RNSAP-PROTOCOL-IES ::= {
   { ID id-D-RNTI
                                           CRITICALITY ignore TYPE D-RNTI
                                                                                                                   PRESENCE optional
      }|
     ID id-TraceReference
                                           CRITICALITY ignore TYPE TraceReference
                                                                                                                   PRESENCE mandatory
                                           CRITICALITY ignore TYPE UEIdentity
                                                                                                                   PRESENCE mandatory
     ID id-UEIdentity
     ID id-TraceRecordingSessionReference
                                           CRITICALITY ignore TYPE TraceRecordingSessionReference
                                                                                                             PRESENCE mandatory
                                                                                                                                 }|
     ID id-ListOfInterfacesToTrace
                                           CRITICALITY ignore TYPE ListOfInterfacesToTrace
                                                                                                                   PRESENCE optional
      }|
     ID id-TraceDepth
                                           CRITICALITY ignore TYPE TraceDepth
                                                                                                                   PRESENCE mandatory
   },
   . . .
ListOfInterfacesToTrace ::= SEQUENCE (SIZE (1..maxNrOfInterfaces)) OF ProtocolIE-Single-Container {{ InterfacesToBeTracedItemIE }}
InterfacesToBeTracedItemIE RNSAP-PROTOCOL-IES ::= {
     ID id-InterfacesToTraceItem
                                           CRITICALITY ignore TYPE InterfacesToTraceItem
                                                                                                                   PRESENCE mandatory
}
```

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```
InterfacesToTraceItem ::= SEQUENCE {
   interface
                       ENUMERATED {iub, iur, ... },
   iE-Extensions
                       ProtocolExtensionContainer { {InterfacesToTraceItem-ExtIEs} }
                                                                             OPTIONAL,
   . . .
}
InterfacesToTraceItem-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
   . . .
IurInvokeTrace-Extensions RNSAP-PROTOCOL-EXTENSION ::= {
   . . .
  *****
_ _
-- IUR DEACTIVATE TRACE
- -
  IurDeactivateTrace ::= SEQUENCE {
   protocolIEs
                                        ProtocolIE-Container
                                                                {{IurDeactivateTrace-IEs}},
                                        ProtocolExtensionContainer {{IurDeactivateTrace-Extensions}}
   protocolExtensions
                                                                                               OPTIONAL,
   . . .
}
IurDeactivateTrace-IEs RNSAP-PROTOCOL-IES ::= {
   { ID id-D-RNTI
                                        CRITICALITY ignore TYPE D-RNTI
                                                                                                            PRESENCE optional
      }|
    ID id-TraceReference
                                        CRITICALITY ignore TYPE TraceReference
                                                                                                            PRESENCE mandatory
   },
   . . .
IurDeactivateTrace-Extensions RNSAP-PROTOCOL-EXTENSION ::= {
   . . .
- -
-- MBMS ATTACH COMMAND
- -
  MBMSAttachCommand ::= SEOUENCE
   protocolIEs
                       ProtocolIE-Container
                                           { {MBMSAttachCommand-IEs } },
                       ProtocolExtensionContainer {{MBMSAttachCommand-Extensions}}
   protocolExtensions
                                                                                 OPTIONAL,
   . . .
}
MBMSAttachCommand-IEs RNSAP-PROTOCOL-IES ::= {
   { ID id-MBMS-Bearer-Service-List
                                     CRITICALITY
                                                   ignore
                                                            TYPE MBMS-Bearer-Service-List PRESENCE mandatory}
```

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820 3GPP TS 25.423 version 9.8.0 Release 9 ETSI TS 125 423 V9.8.0 (2012-01) { ID id-UE-State optional}, CRITICALITY TYPE PRESENCE ignore UE-State . . . } MBMSAttachCommand-Extensions RNSAP-PROTOCOL-EXTENSION ::= { . . . - --- MBMS DETACH COMMAND - -MBMSDetachCommand ::= SEQUENCE { protocolIEs ProtocolIE-Container {{MBMSDetachCommand-IEs}}, ProtocolExtensionContainer {{MBMSDetachCommand-Extensions}} protocolExtensions OPTIONAL, . . . } MBMSDetachCommand-IEs RNSAP-PROTOCOL-IES ::= { ID id-MBMS-Bearer-Service-List CRITICALITY iqnore TYPE MBMS-Bearer-Service-List PRESENCE mandatory} optional}, { ID id-UE-State CRITICALITY ignore TYPE UE-State PRESENCE . . . } MBMSDetachCommand-Extensions RNSAP-PROTOCOL-EXTENSION ::= { . . . \*\*\*\*\* - --- DIRECT INFORMATION TRANSFER - -\*\*\*\*\*\*\*\*\*\*\* DirectInformationTransfer ::= SEQUENCE { ProtocolIE-Container {{DirectInformationTransfer-IEs}}, protocolIEs ProtocolExtensionContainer {{DirectInformationTransfer-Extensions}} protocolExtensions OPTIONAL, . . . } DirectInformationTransfer-IEs RNSAP-PROTOCOL-IES ::= { ID id-RNC-ID CRITICALITY ignore TYPE RNC-ID PRESENCE mandatory } ID id-ProvidedInformation CRITICALITY ignore TYPE ProvidedInformation PRESENCE mandatory }, . . . } DirectInformationTransfer-Extensions RNSAP-PROTOCOL-EXTENSION ::= { { ID id-Extended-RNC-ID CRITICALITY reject EXTENSION Extended-RNC-ID PRESENCE optional }, . . . } 

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```
-- ENHANCED RELOCATION REQUEST
EnhancedRelocationReguest ::= SEQUENCE {
                                                     {{EnhancedRelocationRequest-IEs}},
   protocolIEs
                             ProtocolIE-Container
   protocolExtensions
                             ProtocolExtensionContainer {{EnhancedRelocationRequest-Extensions}}
                                                                                                      OPTIONAL,
   . . .
}
EnhancedRelocationRequest-IEs RNSAP-PROTOCOL-IES ::= {
    ID id-Cause
                          CRITICALITY reject TYPE Cause
                                                                  PRESENCE mandatory
                                                                                       } |
    ID id-Permanent-NAS-UE-Identity CRITICALITY reject TYPE Permanent-NAS-UE-Identity PRESENCE mandatory }
   { ID id-SRNC-ID CRITICALITY reject TYPE RNC-ID PRESENCE optional } |
   -- This IE shall be present if the Relocation type IE is set to "UE involved in relocation of SRNS" --
    ID id-Extended-SRNC-ID CRITICALITY reject TYPE Extended-RNC-ID
                                                                PRESENCE optional }
    ID id-S-RNTI
                   CRITICALITY reject TYPE S-RNTI PRESENCE mandatory } |
   { ID id-RANAP-EnhancedRelocationInformationReguest
                                                 CRITICALITY reject TYPE RANAP-EnhancedRelocationInformationRequest
                                                                                                                 PRESENCE
mandatory },
   . . .
EnhancedRelocationRequest-Extensions RNSAP-PROTOCOL-EXTENSION ::= {
    - -
-- ENHANCED RELOCATION RESPONSE
EnhancedRelocationResponse ::= SEQUENCE {
   protocolIEs
                             ProtocolIE-Container
                                                     {{EnhancedRelocationResponse-IEs}},
   protocolExtensions
                             ProtocolExtensionContainer {{EnhancedRelocationResponse-Extensions}}
                                                                                                      OPTIONAL,
   . . .
}
EnhancedRelocationResponse-IEs RNSAP-PROTOCOL-IES ::= {
   { ID id-RANAP-EnhancedRelocationInformationResponse
                                                  CRITICALITY ignore TYPE RANAP-EnhancedRelocationInformationResponse
   PRESENCE mandatory },
   . . .
}
EnhancedRelocationResponse-Extensions RNSAP-PROTOCOL-EXTENSION ::= {
   . . .
    - -
-- ENHANCED RELOCATION FAILURE
_ _
```

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EnhancedRelocationFailure ::= SEQUENCE { protocolIEs ProtocolIE-Container {{EnhancedRelocationFailure-IEs}}, protocolExtensions ProtocolExtensionContainer {{EnhancedRelocationFailure-Extensions}} OPTIONAL, . . . } EnhancedRelocationFailure-IEs RNSAP-PROTOCOL-IES ::= { ID id-Cause CRITICALITY ignore TYPE Cause PRESENCE mandatory } ID id-CriticalityDiagnostics CRITICALITY ignore TYPE CriticalityDiagnostics PRESENCE optional }, . . . } EnhancedRelocationFailure-Extensions RNSAP-PROTOCOL-EXTENSION ::= { . . . - --- ENHANCED RELOCATION CANCEL - -\*\*\*\*\* EnhancedRelocationCancel ::= SEOUENCE { protocolIEs ProtocolIE-Container {{EnhancedRelocationCancel-IEs}}, protocolExtensions ProtocolExtensionContainer {{EnhancedRelocationCancel-Extensions}} OPTIONAL, . . . } EnhancedRelocationCancel-IEs RNSAP-PROTOCOL-IES ::= { { ID id-Cause CRITICALITY ignore TYPE Cause PRESENCE mandatory }, . . . } EnhancedRelocationCancel-Extensions RNSAP-PROTOCOL-EXTENSION ::= . . . \*\*\*\*\*\*\*\*\*\*\* - --- ENHANCED RELOCATION SIGNALLING TRANSFER \*\*\*\*\*\* EnhancedRelocationSignallingTransfer ::= SEQUENCE { protocolIEs {{EnhancedRelocationSignallingTransfer-IEs}}, ProtocolIE-Container protocolExtensions ProtocolExtensionContainer {{EnhancedRelocationSignallingTransfer-Extensions}} OPTIONAL, . . . } EnhancedRelocationSignallingTransfer-IEs RNSAP-PROTOCOL-IES ::= { { ID id-L3-Information CRITICALITY ignore TYPE L3-Information PRESENCE mandatory }, . . . }

EnhancedRelocationSignallingTransfer-Extensions RNSAP-PROTOCOL-EXTENSION ::= { . . . - -ENHANCED RELOCATION RELEASE - -\*\*\*\*\*\*\*\*\*\* EnhancedRelocationRelease ::= SEQUENCE { protocolIEs ProtocolIE-Container {{EnhancedRelocationRelease-IEs}}, protocolExtensions ProtocolExtensionContainer {{EnhancedRelocationRelease-Extensions}} OPTIONAL. . . . 3 EnhancedRelocationRelease-IEs RNSAP-PROTOCOL-IES ::= { { ID id-Released-CN-Domain CRITICALITY ignore TYPE Released-CN-Domain PRESENCE mandatory }, . . . EnhancedRelocationRelease-Extensions RNSAP-PROTOCOL-EXTENSION ::= { . . . - --- MBSFN MCCH INFORMATION MBSFNMCCHInformation ::= SEQUENCE { {{MBSFNMCCHInformation-IEs}}, ProtocolIE-Container protocolIEs ProtocolExtensionContainer {{MBSFNMCCHInformation-Extensions}} protocolExtensions OPTIONAL. . . . } MBSFNMCCHInformation-IEs RNSAP-PROTOCOL-IES ::= { ID id-MBSFN-Cluster-Identity CRITICALITY ignore TYPE MBSFN-Cluster-Identity PRESENCE mandatory } TYPE MCCH-Message-List PRESENCE mandatory } ID id-MCCH-Message-List CRITICALITY reject { ID id-CFN CRITICALITY reject TYPE CFN PRESENCE mandatory} { ID id-MCCH-Configuration-Info CRITICALITY MCCH-Configuration-Info PRESENCE ignore TYPE optional} { ID id-MBSFN-Scheduling-Transmission-Time-Interval-Info-List CRITICALITY TYPE MBSFN-Scheduling-Transmission-Time-Intervalignore Info-List PRESENCE optional }, . . . MBSFNMCCHInformation-Extensions RNSAP-PROTOCOL-EXTENSION ::= { . . . 

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```
- -
-- SECONDARY UL FREQUENCY REPORT
SecondaryULFrequencyReport ::= SEQUENCE {
                                         {{SecondaryULFrequencyReport-IEs}},
   protocolIEs
                     ProtocolIE-Container
   protocolExtensions
                    ProtocolExtensionContainer {{SecondaryULFrequencyReport-Extensions}}
                                                                                          OPTIONAL,
   . . .
}
SecondaryULFrequencyReport-IEs RNSAP-PROTOCOL-IES ::= {
   { ID id-ActivationInformation CRITICALITY
                                         ignore
                                                   TYPE ActivationInformation
                                                                             PRESENCE mandatory },
   . . .
}
SecondaryULFrequencyReport-Extensions RNSAP-PROTOCOL-EXTENSION ::= {
}
    - -
-- SECONDARY UL FREQUENCY UPDATE INDICATION
- -
SecondaryULFrequencyUpdateIndication ::= SEQUENCE {
   protocolIEs
                      ProtocolIE-Container
                                         {{SecondaryULFrequencyUpdateIndication-IEs}},
                      ProtocolExtensionContainer {{SecondaryULFrequencyUpdateIndication-Extensions}}
   protocolExtensions
                                                                                                OPTIONAL,
   . . .
}
SecondaryULFrequencyUpdateIndication-IEs RNSAP-PROTOCOL-IES ::= {
   { ID id-ActivationInformation CRITICALITY
                                         ignore
                                                   TYPE ActivationInformation
                                                                             PRESENCE mandatory },
   . . .
}
SecondaryULFrequencyUpdateIndication-Extensions RNSAP-PROTOCOL-EXTENSION ::= {
   . . .
}
     - -
-- PRIVATE MESSAGE
- -
PrivateMessage ::= SEQUENCE {
               PrivateIE-Container {{PrivateMessage-IEs}},
   privateIEs
   . . .
}
```

 $\texttt{PrivateMessage-IEs RNSAP-PRIVATE-IES ::= \{ }$ 

} END

- -

. . .

# 9.3.4 Information Element Definitions

-- Information Element Definitions

RNSAP-IEs {
itu-t (0) identified-organization (4) etsi (0) mobileDomain (0)
umts-Access (20) modules (3) rnsap (1) version1 (1) rnsap-IEs (2) }

DEFINITIONS AUTOMATIC TAGS ::=

BEGIN

IMPORTS maxCellSIB110rSIB12, maxNrOfFACHs, maxIBSEG, maxCellsMeas, maxNoOfDSCHs, maxNoOfUSCHs, maxNrOfDCHs, maxNrOfDL-Codes, maxNrOfDLTs, maxNrOfDLTsLCR, maxNrOfDPCHs, maxNrOfDPCHs768, maxNrOfDPCHsLCR, maxNrOfEDCH-HARQ-PO-QUANTSTEPs, maxNrOfEDCHHARQProcesses2msEDCH, maxNrOfBits-MACe-PDU-non-scheduled, maxNrOfEDPCCH-PO-QUANTSTEPs, maxNrOfRefETFCI-PO-QUANTSTEPs, maxNrOfRefETFCIs, maxNrOfErrors, maxNrOfFDDNeighboursPerRNC, maxNrOfMACcshSDU-Length, maxNrOfNeighbouringRNCs, maxNrOfTDDNeighboursPerRNC, maxNrOfLCRTDDNeighboursPerRNC, maxNrOfTS, maxNrOfTsLCR, maxNrOfULTs, maxNrOfULTsLCR, maxNrOfGSMNeighboursPerRNC,

maxRateMatching, maxNrOfPoints, maxNoOfRB. maxNrOfRLs. maxNrOfTFCs. maxNrOfTFs, maxCTFC, maxRNCinURA-1, maxNrOfSCCPCHs, maxNrOfSCCPCHs768, maxTGPS, maxTTI-Count, maxNoGPSTypes, maxNoSat, maxNrOfActiveMBMSServices, maxNrOfCells, maxNrOfSNAs, maxNrOfHAROProc, maxNrOfHSSCCHCodes, maxNrOfMACdFlows, maxNrOfMACdFlows-1, maxNrOfMACdPDUSize, maxNrOfMBMSL3, maxNrOfMCCHMessages, maxNrOfEDCHMACdFlows, maxNrOfEDCHMACdFlows-1, maxNrOfEDCHMACdFlowsLCR, maxNrOfEDCHMACdFlowsLCR-1, maxNrOfMBMSServices, maxNrOfPDUIndexes, maxNrOfPDUIndexes-1, maxNrOfPrioQueues, maxNrOfPrioQueues-1, maxNrOfSatAlmanac-maxNoSat, maxNrOfGERANSI, maxNrofSiqSeqERGHICH-1, maxNrOfUEs, maxNrOfAddFreq, maxNrOfCellsPerFreq, maxNoOfLogicalChannels, maxNrOfRefBetas, maxNrOfEAGCHCodes, maxNrOfHS-DSCHTBSs, maxNrOfHS-DSCHTBSs-HS-SCCHless, maxHS-PDSCHCodeNrComp-1, maxNrOfEHICHCodes, maxGANSSSat, maxNoGANSS, maxSqnType, maxNrOfBroadcastPLMNs, maxHSDPAFrequency, maxHSDPAFrequency-1, maxFrequencyinCell, maxFrequencyinCell-1,

maxGANSSSatAlmanac, maxGANSSClockMod. maxNrOfEDCHRLs. maxNrOfEUTRANeighboursPerRNC, maxEARFCN. maxNrOfPreconfiguredNeighbours, maxNrOfHSDSCH-1, maxNrOfHSDSCH, maxGANSS-1, maxlengthMBMSconcatservlists, maxNoOfTBSs-Mapping-HS-DSCH-SPS, maxNoOfTBSs-Mapping-HS-DSCH-SPS-1, maxNoOfHS-DSCH-TBSsLCR, maxNoOfRepetition-Period-LCR, maxNoOfRepetitionPeriod-SPS-LCR-1, maxNoOf-HS-SICH-SPS, maxNoOf-HS-SICH-SPS-1, maxNoOfNon-HS-SCCH-Assosiated-HS-SICH, maxNrOfEDCH-1, maxNrOfDCHMeasurementOccasionPatternSequence, id-Allowed-Rate-Information, id-AntennaColocationIndicator, id-BindingID, id-Cell-Capacity-Class-Value, id-CellCapabilityContainer-FDD, id-CellCapabilityContainer-TDD, id-CellCapabilityContainer-TDD-LCR, id-Continuous-Packet-Connectivity-HS-SCCH-Less-Information, id-Continuous-Packet-Connectivity-HS-SCCH-Less-Information-Response, id-Counting-Information, id-CoverageIndicator, id-DPC-Mode-Change-SupportIndicator, id-E-DCH-Minimum-Set-E-TFCIValidityIndicator, id-E-RGCH-E-HICH-ChannelisationCodeValidityIndicator, id-Extended-Round-Trip-Time-Value, id-ExtendedPropagationDelay, id-Extended-SRNC-ID, id-Extended-RNC-ID, id-GERAN-Cell-Capability, id-GERAN-Classmark, id-Guaranteed-Rate-Information, id-HARO-Preamble-Mode-Activation-Indicator, id-HCS-Prio, id-Inter-Frequency-Cell-Information, id-Load-Value, id-Load-Value-IncrDecrThres, id-Neighbouring-GSM-CellInformation, id-Neighbouring-UMTS-CellInformationItem, id-neighbouring-LCR-TDD-CellInformation, id-NRT-Load-Information-Value, id-NRT-Load-Information-Value-IncrDecrThres, id-OnModification,

id-Received-Total-Wideband-Power-Value,

id-Received-Total-Wideband-Power-Value-IncrDecrThres. id-RT-Load-Value. id-RT-Load-Value-IncrDecrThres, id-SFNSFNMeasurementThresholdInformation. id-SNA-Information, id-TrafficClass. id-Transmitted-Carrier-Power-Value, id-Transmitted-Carrier-Power-Value-IncrDecrThres, id-TUTRANGPSMeasurementThresholdInformation, id-UL-Timeslot-ISCP-Value, id-UL-Timeslot-ISCP-Value-IncrDecrThres, maxNrOfLevels. maxNrOfMeasNCell. maxNrOfMeasNCell-1. id-MessageStructure, id-RestrictionStateIndicator, id-Rx-Timing-Deviation-Value-LCR, id-TransportLayerAddress, id-Transmission-Mode-Information, id-TypeOfError, id-Angle-Of-Arrival-Value-LCR, id-IPDL-TDD-ParametersLCR, id-DSCH-InitialWindowSize, id-Maximum-DL-Power-TimeslotLCR-InformationItem, id-MBMS-Bearer-Service-Full-Address, id-MBMS-Neighbouring-Cell-Information, id-MBMS-RLC-Sequence-Number-Information, id-MBSFN-Cluster-Identity, id-MBSFN-Scheduling-Transmission-Time-Interval-Info-List, id-MCCH-Configuration-Info, id-MCCH-Message-List, id-Minimum-DL-Power-TimeslotLCR-InformationItem, id-HS-SICH-Reception-Quality, id-HS-SICH-Reception-Quality-Measurement-Value, id-HS-PDSCH-Code-Change-Grant, id-HS-PDSCH-Code-Change-Indicator, id-ExtendedGSMCellIndividualOffset, id-Unidirectional-DCH-Indicator, id-RTLoadValue, id-RLC-Sequence-Number, id-NRTLoadInformationValue, id-Satellite-Almanac-Information-ExtItem, id-TnlOos, id-UpPTSInterferenceValue, id-NACC-Related-Data, id-HARQ-Preamble-Mode, id-User-Plane-Congestion-Fields-Inclusion, id-FrequencyBandIndicator, id-PLCCH-Information-UL-TimeslotLCR-Info, id-CellCapabilityContainer-TDD768, id-hSSCCH-TDD-Specific-InfoList-Response768, id-hSPDSCH-TDD-Specific-InfoList-Response768, id-Rx-Timing-Deviation-Value-768,

id-UEMeasurementValueTransmittedPowerList768. id-UEMeasurementValueTimeslotISCPList768. id-E-DCH-PowerOffset-for-SchedulingInfo. id-Rx-Timing-Deviation-Value-ext, id-TrCH-SrcStatisticsDescr. id-eDCH-MACdFlow-Retransmission-Timer-LCR. id-MIMO-ActivationIndicator, id-MIMO-InformationResponse, id-MIMO-Mode-Indicator, id-MIMO-N-M-Ratio, id-SixteenQAM-UL-Operation-Indicator, id-E-AGCH-Table-Choice, id-E-TFCI-Boost-Information. id-E-DPDCH-PowerInterpolation, id-HSDSCH-MACdPDUSizeFormat, id-MaximumMACdPDU-SizeExtended, id-GANSS-Common-Data, id-GANSS-Information, id-GANSS-Generic-Data, id-TUTRANGANSSMeasurementThresholdInformation, id-TUTRANGANSSMeasurementValueInformation, id-HARQ-MemoryPartitioningInfoExtForMIMO, id-Ext-Reference-E-TFCI-PO, id-Ext-Max-Bits-MACe-PDU-non-scheduled, id-Multiple-PLMN-List, id-TransportBearerNotSetupIndicator, id-TransportBearerNotReguestedIndicator, id-UARFCNforNt, id-LCRTDD-uplink-Physical-Channel-Capability, id-number-Of-Supported-Carriers, id-HSSICH-SIRTarget, id-HSSICH-TPC-StepSize, id-tSN-Length, id-HS-SICH-ID-Extension, id-multipleFreg-HSPDSCH-InformationList-ResponseTDDLCR, id-multicarrier-number, id-UpPCH-InformationList-LCRTDD, id-UpPCH-InformationItem-LCRTDD, id-Max-UE-DTX-Cycle, id-Default-Serving-Grant-in-DTX-Cycle2, id-SixtyfourQAM-UsageAllowedIndicator, id-SixtyfourQAM-DL-UsageIndicator, id-UE-Capabilities-Info, id-Extended-E-DCH-LCRTDD-PhysicalLayerCategory, id-Continuous-Packet-Connectivity-HS-SCCH-Less-Deactivate-Indicator, id-E-DCH-MACdPDUSizeFormat, id-E-PUCH-PowerControlGAP, id-MaximumNumber-Of-Retransmission-For-SchedulingInfo-LCRTDD, id-E-DCH-RetransmissionTimer-For-SchedulingInfo-LCRTDD, id-HSDSCH-TBSizeTableIndicator, id-E-DCH-DL-Control-Channel-Change-Information, id-E-DCH-DL-Control-Channel-Grant-Information, id-DGANSS-Corrections-Req, id-UE-with-enhanced-HS-SCCH-support-indicator,

id-EnhancedHSServingCC-Abort, id-GANSS-Time-ID. id-GANSS-AddIonoModelReg. id-GANSS-EarthOrientParaReg. id-GANSS-AddNavigationModelsReg, id-GANSS-AddUTCModelsReg, id-GANSS-AuxInfoReg, id-GANSS-SBAS-ID. id-GANSS-ID. id-GANSS-Additional-Ionospheric-Model, id-GANSS-Earth-Orientation-Parameters, id-GANSS-Additional-Time-Models, id-GANSS-Additional-Navigation-Models, id-GANSS-Additional-UTC-Models, id-GANSS-Auxiliary-Information, id-GANSS-alm-keplerianNAVAlmanac, id-GANSS-alm-keplerianReducedAlmanac, id-GANSS-alm-keplerianMidiAlmanac, id-GANSS-alm-keplerianGLONASS, id-GANSS-alm-ecefSBASAlmanac, id-Secondary-Serving-Cell-List, id-MinimumReducedE-DPDCH-GainFactor, id-E-AGCH-UE-Inactivity-Monitor-Threshold, id-MACes-Maximum-Bitrate-LCR, id-MultiCarrier-HSDSCH-Physical-Layer-Category, id-MIMO-SFMode-For-HSPDSCHDualStream, id-MIMO-SFMode-Supported-For-HSPDSCHDualStream, id-MIMO-ReferenceSignal-InformationListLCR, id-DL-RLC-PDU-Size-Format, id-UE-SupportIndicatorExtension, id-power-offset-for-S-CPICH-for-MIMO, id-power-offset-for-S-CPICH-for-MIMO-Request-Indicator, id-Dual-Band-Secondary-Serving-Cell-List, id-Single-Stream-MIMO-ActivationIndicator, id-Single-Stream-MIMO-Mode-Indicator, id-Additional-EDCH-Preconfiguration-Information, id-MulticellEDCH-Information, id-EDCH-Indicator, id-DiversityMode, id-TransmitDiversityIndicator, id-NonCellSpecificTxDiversity, id-CellCapabilityContainerExtension-FDD, id-HSDSCH-Physical-Layer-Category, id-TS0-HS-PDSCH-Indication-LCR, id-UE-TS0-CapabilityLCR, id-DGNSS-ValidityPeriod, id-UE-AggregateMaximumBitRate-Enforcement-Indicator, id-Out-of-Sychronization-Window, id-MulticellEDCH-RL-SpecificInformation, id-Continuous-Packet-Connectivity-DTX-DRX-Information, id-Additional-E-DCH-Non-Serving-RL-Preconfiguration-Setup, id-Additional-E-DCH-New-non-serving-RL-E-DCH-FDD-DL-Control-Channel-InfoList, id-CellListValiditvIndicator,

id-HS-SCCH-Inactivity-Threshold-for-UE-DRX-Cycle-LCR-Ext, id-Measurement-Power-Offset, id-Support-of-Dynamic-DTXDRX-Related-HS-SCCH-Order

```
FROM RNSAP-Constants
```

Criticality, ProcedureID, ProtocolIE-ID, TransactionID, TriggeringMessage FROM RNSAP-CommonDataTypes ProtocolIE-Single-Container{}, ProtocolExtensionContainer{}, RNSAP-PROTOCOL-IES, RNSAP-PROTOCOL-EXTENSION

FROM RNSAP-Containers;

```
-- A
```

```
AccessPointName
                    ::= OCTET STRING (SIZE (1..255))
AckNack-RepetitionFactor ::= INTEGER (1..4,...)
-- Step: 1
Ack-Power-Offset ::= INTEGER (0..8,...)
-- According to mapping in ref. TS 25.213 [21] subclause 4.2.1
ActivationInformation ::= SEQUENCE (SIZE (1..maxNrOfEDCH-1)) OF ActivationInformationItem
ActivationInformationItem ::= SEQUENCE {
    uU-ActivationState Uu-ActivationState,
                                                    ProtocolExtensionContainer { { ActivationInformationItem-ExtIEs } }
    iE-Extensions
    OPTIONAL,
    . . .
ActivationInformationItem-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
Active-MBMS-Bearer-Service-ListFDD ::= SEQUENCE (SIZE (1..maxNrOfActiveMBMSServices)) OF MBMS-Bearer-ServiceItemFDD
Active-MBMS-Bearer-Service-ListFDD-PFL ::= SEQUENCE (SIZE (1..maxNrOfActiveMBMSServices)) OF MBMS-Bearer-ServiceItemFDD-PFL
Active-MBMS-Bearer-Service-ListTDD ::= SEQUENCE (SIZE (1..maxNrOfActiveMBMSServices)) OF MBMS-Bearer-ServiceItemTDD
Active-MBMS-Bearer-Service-ListTDD-PFL ::= SEQUENCE (SIZE (1..maxNrOfActiveMBMSServices)) OF MBMS-Bearer-ServiceItemTDD-PFL
Active-Pattern-Sequence-Information ::= SEQUENCE {
    cMConfigurationChangeCFN
                                    CFN,
```

```
832
```

```
transmission-Gap-Pattern-Sequence-Status
                                                Transmission-Gap-Pattern-Sequence-Status-List
                                                                                                   OPTIONAL.
    iE-Extensions
                        ProtocolExtensionContainer { {Active-Pattern-Sequence-Information-ExtIEs } } OPTIONAL,
    . . .
Active-Pattern-Sequence-Information-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
Additional-EDCH-Cell-Information-Response-RLAddList ::= SEQUENCE (SIZE (1..maxNrOfEDCH-1)) OF Additional-EDCH-Cell-Information-Response-RLAdd-
ItemIEs
Additional-EDCH-Cell-Information-Response-RLAdd-ItemIEs ::=SEQUENCE{
    additional-EDCH-FDD-Information-Response
                                                                     Additional-EDCH-FDD-Information-Response-ItemIEs
                                                                                                                          OPTIONAL.
    additional-EDCH-Serving-Cell-Change-Information-Response-RLAdd
                                                                         E-DCH-Serving-cell-change-informationResponse
                                                                                                                                 OPTIONAL,
    iE-Extensions
                                    ProtocolExtensionContainer { { Additional-EDCH-Cell-Information-Response-RLAdd-ItemIEs-ExtIEs } } OPTIONAL,
    . . .
Additional-EDCH-Cell-Information-Response-RLAdd-ItemIEs-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
Additional-EDCH-Setup-Info ::=SEOUENCE{
    multicell-EDCH-Transport-Bearer-Mode
                                                                             Multicell-EDCH-Transport-Bearer-Mode,
    additional-EDCH-Cell-Information-Setup
                                                                             Additional-EDCH-Cell-Information-Setup,
    iE-Extensions
                                    ProtocolExtensionContainer { { Additional-EDCH-Setup-Info-ExtIEs } } OPTIONAL,
    . . .
Additional-EDCH-Setup-Info-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
Multicell-EDCH-Transport-Bearer-Mode ::= ENUMERATED
    separate-Iur-Transport-Bearer-Mode,
    uL-Flow-Multiplexing-Mode
}
Additional-EDCH-Cell-Information-Setup ::= SEQUENCE (SIZE (1..maxNrOfEDCH-1)) OF Additional-EDCH-FDD-Setup-Cell-Information
Additional-EDCH-FDD-Setup-Cell-Information ::=SEQUENCE{
    additional-EDCH-UL-DPCH-Information-Setup
                                                                             Additional-EDCH-UL-DPCH-Information-Setup,
    additional-EDCH-RL-Specific-Information-To-Setup
                                                                             Additional-EDCH-RL-Specific-Information-To-Setup-List,
    additional-EDCH-FDD-Information
                                                                             Additional-EDCH-FDD-Information
                                                                                                                   OPTIONAL,
    additional-EDCH-F-DPCH-Information-Setup
                                                                             Additional-EDCH-F-DPCH-Information,
    multicellEDCH-Information
                                                                             MulticellEDCH-Information
                                                                                                          OPTIONAL,
                                    ProtocolExtensionContainer { { Additional-EDCH-FDD-Setup-Cell-Information-ExtIEs } } OPTIONAL,
    iE-Extensions
    . . .
Additional-EDCH-FDD-Setup-Cell-Information-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
```

```
Additional-EDCH-UL-DPCH-Information-Setup
                                            ::=SEQUENCE{
    ul-ScramblingCode
                                            UL-ScramblingCode.
    ul-SIR-Target
                                            UL-SIR
                                                         OPTIONAL,
    iE-Extensions
                                    ProtocolExtensionContainer { { Additional-EDCH-UL-DPCH-Information-Setup-ExtIEs } } OPTIONAL,
    . . .
Additional-EDCH-UL-DPCH-Information-Setup-ExtIEs
                                                    RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
Additional-EDCH-F-DPCH-Information ::=SEQUENCE{
    fdd-TPC-DownlinkStepSize
                                        FDD-TPC-DownlinkStepSize,
    limitedPowerIncrease
                                        LimitedPowerIncrease,
    innerLoopDLPCStatus
                                        InnerLoopDLPCStatus,
    f-DPCH-SlotFormatSupportRequest
                                        F-DPCH-SlotFormatSupportReguest
                                                                                 OPTIONAL,
                                    ProtocolExtensionContainer { { Additional-EDCH-F-DPCH-Information-ExtIEs } } OPTIONAL,
    iE-Extensions
    . . .
Additional-EDCH-F-DPCH-Information-ExtIEs RNSAP-PROTOCOL-EXTENSION ::=
Additional-EDCH-RL-Specific-Information-To-Setup-List ::= SEQUENCE (SIZE (1.. maxNrOfEDCHRLs)) OF Additional-EDCH-RL-Specific-Information-To-
Setup-ItemIEs
Additional-EDCH-RL-Specific-Information-To-Setup-ItemIEs
                                                             ::=SEQUENCE{
    eDCH-Additional-RL-ID
                                        RL-ID,
    c-ID
                                        C-ID
                                                             OPTIONAL,
    firstRLS-indicator
                                        FirstRLS-Indicator,
    propagationDelay
                                        PropagationDelay
                                                                         OPTIONAL,
                                        DL-Power
    initialDL-transmissionPower
                                                                 OPTIONAL,
    primarvCPICH-EcNo
                                        PrimarvCPICH-EcNo
                                                                     OPTIONAL,
    e-AGCH-PowerOffset
                                        E-AGCH-PowerOffset
                                                                                     OPTIONAL
    e-RGCH-PowerOffset
                                        E-RGCH-PowerOffset
                                                                                     OPTIONAL,
    e-HICH-PowerOffset
                                        E-HICH-PowerOffset
                                                                                     OPTIONAL,
    additional-EDCH-MAC-d-Flows-Specific-Info-List
                                                        Additional-EDCH-MAC-d-Flows-Specific-Info-List
                                                                                                                  OPTIONAL,
    multicellEDCH-RL-SpecificInformation
                                                MulticellEDCH-RL-SpecificInformation
                                                                                         OPTIONAL,
                                        ProtocolExtensionContainer { { Additional-EDCH-RL-Specific-Information-To-Setup-ItemIEs-ExtIEs } } OPTIONAL,
    iE-Extensions
    . . .
Additional-EDCH-RL-Specific-Information-To-Setup-ItemIEs-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
Additional-EDCH-Cell-Information-To-Add-List
                                                ::= SEQUENCE (SIZE (1.. maxNrOfEDCH-1)) OF Additional-EDCH-Cell-Information-To-Add-ItemIEs
Additional-EDCH-Cell-Information-To-Add-ItemIEs::=SEQUENCE{
    additional-EDCH-UL-DPCH-Information-Setup
                                                            Additional-EDCH-UL-DPCH-Information-Addition,
    additional-EDCH-RL-Specific-Information-To-Add-List
                                                            Additional-EDCH-RL-Specific-Information-To-Add-List,
    additional-EDCH-FDD-Information
                                                    Additional-EDCH-FDD-Information
                                                                                         OPTIONAL,
```

**ETSI** 

```
multicellEDCH-Information
                                                    MulticellEDCH-Information
                                                                                     OPTIONAL,
    iE-Extensions
                                        ProtocolExtensionContainer { { Additional-EDCH-Cell-Information-To-Add-ItemIEs-ExtIEs } } OPTIONAL,
    . . .
Additional-EDCH-Cell-Information-To-Add-ItemIEs-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
Additional-EDCH-UL-DPCH-Information-Addition ::=SEOUENCE{
    ul-SIR-Target
                                            UL-SIR,
                                    ProtocolExtensionContainer { { Additional-EDCH-UL-DPCH-Information-Addition-ExtIEs } } OPTIONAL,
   iE-Extensions
    . . .
Additional-EDCH-UL-DPCH-Information-Addition-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
Additional-EDCH-RL-Specific-Information-To-Add-List
                                                      ::= SEQUENCE (SIZE (1.. maxNrOfEDCHRLs)) OF Additional-EDCH-RL-Specific-Information-To-Add-
TtemTEs
Additional-EDCH-RL-Specific-Information-To-Add-ItemIEs ::=SEQUENCE{
    eDCH-Additional-RL-ID
                                        RL-ID,
    c-ID
                                        C-ID,
    primaryCPICH-EcNo
                                        PrimaryCPICH-EcNo
                                                                     OPTIONAL.
    e-AGCH-PowerOffset
                                        E-AGCH-PowerOffset
                                                                                     OPTIONAL,
    e-RGCH-PowerOffset
                                        E-RGCH-PowerOffset
                                                                                     OPTIONAL,
    e-HICH-PowerOffset
                                        E-HICH-PowerOffset
                                                                                     OPTIONAL,
    additional-EDCH-MAC-d-Flows-Specific-Info-List
                                                        Additional-EDCH-MAC-d-Flows-Specific-Info-List
                                                                                                                  OPTIONAL,
                                                MulticellEDCH-RL-SpecificInformation
    multicellEDCH-RL-SpecificInformation
                                                                                             OPTIONAL,
    iE-Extensions
                                        ProtocolExtensionContainer { { Additional-EDCH-RL-Specific-Information-To-Add-ItemIEs-ExtIEs } } OPTIONAL,
    . . .
Additional-EDCH-RL-Specific-Information-To-Add-ItemIEs-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
Additional-EDCH-RL-Specific-Information-To-Modify-List ::= SEQUENCE (SIZE (1..maxNrOfEDCHRLs)) OF Additional-EDCH-RL-Specific-Information-To-
Modify-ItemIEs
Additional-EDCH-RL-Specific-Information-To-Modify-ItemIEs ::=SEQUENCE{
    eDCH-Additional-RL-ID
                                        RL-ID,
    e-AGCH-PowerOffset
                                        E-AGCH-PowerOffset
                                                                                     OPTIONAL.
    e-RGCH-PowerOffset
                                        E-RGCH-PowerOffset
                                                                                     OPTIONAL,
    e-HICH-PowerOffset
                                        E-HICH-PowerOffset
                                                                                     OPTIONAL,
    additional-EDCH-MAC-d-Flows-Specific-Info-List
                                                        Additional-EDCH-MAC-d-Flows-Specific-Info-List
                                                                                                                  OPTIONAL,
    multicellEDCH-RL-SpecificInformation
                                                MulticellEDCH-RL-SpecificInformation
                                                                                             OPTIONAL,
                                        ProtocolExtensionContainer { { Additional-EDCH-RL-Specific-Information-To-Modify-ItemIEs-ExtIEs } }
    iE-Extensions
OPTIONAL,
    . . .
```

```
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```

Additional-EDCH-RL-Specific-Information-To-Modify-ItemIEs-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {

} Additional-EDCH-FDD-Information ::=SEQUENCE{ hARO-Process-Allocation-Scheduled-2ms-EDCH HARO-Process-Allocation-2ms-EDCH OPTIONAL, e-DCH-Maximum-Bitrate E-DCH-Maximum-Bitrate OPTIONAL, E-DCH-Processing-Overload-Level e-DCH-Processing-Overload-Level OPTIONAL, e-DCH-Min-Set-E-TFCI E-TFCI OPTIONAL, iE-Extensions ProtocolExtensionContainer { { Additional-EDCH-FDD-Information-ExtIEs } } OPTIONAL, . . . Additional-EDCH-FDD-Information-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= { . . . } Additional-EDCH-MAC-d-Flows-Specific-Info-List ::= SEQUENCE (SIZE (1..maxNrOfEDCHMACdFlows)) OF Additional-EDCH-MAC-d-Flows-Specific-Info Additional-EDCH-MAC-d-Flows-Specific-Info ::= SEOUENCE { EDCH-MACdFlow-ID, e-DCH-MACdFlow-ID bindingID BindingID OPTIONAL, transportLayerAddress TransportLayerAddress OPTIONAL, ProtocolExtensionContainer { { Additional-EDCH-MAC-d-Flows-Specific-Info-ExtIEs } } iE-Extensions OPTIONAL, . . . Additional-EDCH-MAC-d-Flows-Specific-Info-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= { . . . } Additional-EDCH-MAC-d-Flow-Specific-Information-Response-List::= SEQUENCE (SIZE (1..maxNrOfEDCHMACdFlows)) OF Additional-EDCH-MAC-d-Flows-Specific-Info-Response Additional-EDCH-MAC-d-Flows-Specific-Info-Response ::= SEQUENCE { e-DCH-MACdFlow-ID EDCH-MACdFlow-ID, bindingID BindingID OPTIONAL, transportLayerAddress TransportLaverAddress OPTIONAL, iE-Extensions ProtocolExtensionContainer { { Additional-EDCH-MAC-d-Flows-Specific-Info-Response-ExtIEs } OPTIONAL, . . . Additional-EDCH-MAC-d-Flows-Specific-Info-Response-Extles RNSAP-PROTOCOL-EXTENSION ::= { . . . }

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Additional-EDCH-Cell-Information-Response-List ::= SEQUENCE (SIZE (1..maxNrOfEDCH-1)) OF Additional-EDCH-FDD-Information-Response-ItemIEs Additional-EDCH-FDD-Information-Response-ItemIEs : :=SEOUENCE{ eDCH-Additional-RL-Specific-Information-Response EDCH-Additional-RL-Specific-Information-Response-List, iE-Extensions ProtocolExtensionContainer { { Additional-EDCH-FDD-Information-Response-ItemIEs-ExtIEs } } OPTIONAL, . . . Additional-EDCH-FDD-Information-Response-ItemIEs-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= { . . . EDCH-Additional-RL-Specific-Information-Response-List := SEOUENCE (SIZE (1..maxNrOfEDCHRLs)) OF EDCH-Additional-RL-Specific-Information-Response-ItemIEs EDCH-Additional-RL-Specific-Information-Response-ItemIEs ::=SEQUENCE{ eDCH-Additional-RL-ID RL-ID, received-total-wide-band-power Received-total-wide-band-power, dL-PowerBalancing-ActivationIndicator DL-PowerBalancing-ActivationIndicator OPTIONAL, rL-Set-ID RL-Set-ID, e-DCH-RL-Set-TD RL-Set-ID, eDCH-FDD-DL-ControlChannelInformation EDCH-FDD-DL-ControlChannelInformation, dl-CodeInformation FDD-DL-CodeInformation, additional-EDCH-MAC-d-Flow-Specific-Information-Response-List Additional-EDCH-MAC-d-Flow-Specific-Information-Response-List OPTIONAL. hARO-Process-Allocation-Scheduled-2ms-EDCH HARQ-Process-Allocation-2ms-EDCH OPTIONAL, maxUL-SIR UL-SIR. minUL-SIR UL-SIR, MaximumAllowedULTxPower, maximumAllowedULTxPower maximumDL-power DL-Power, minimumDL-power DL-Power, primaryScramblingCode PrimaryScramblingCode OPTIONAL, UARFCN uL-UARFCN OPTIONAL, dL-UARFCN UARFCN OPTIONAL. primaryCPICH-Power PrimaryCPICH-Power, pC-Preamble PC-Preamble, primary-CPICH-Usage-For-Channel-Estimation Primary-CPICH-Usage-For-Channel-Estimation OPTIONAL, secondary-CPICH-Information Secondary-CPICH-Information OPTIONAL, f-DPCH-SlotFormat F-DPCH-SlotFormat OPTIONAL, ProtocolExtensionContainer { { EDCH-Additional-RL-Specific-Information-Response-ItemIEs-ExtIEs } } OPTIONAL, iE-Extensions . . . EDCH-Additional-RL-Specific-Information-Response-ItemIEs-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= { Additional-EDCH-Cell-Information-Response-RLReconf-List::= SEQUENCE (SIZE (1..maxNrOfEDCH-1)) OF Additional-EDCH-FDD-Information-Response-RLReconf-Items Additional-EDCH-FDD-Information-Response-RLReconf-Items::=SEQUENCE{ eDCH-Additional-RL-Specific-Information-Response EDCH-Additional-RL-Specific-Information-Response-List OPTIONAL,

```
eDCH-Additional-RL-Specific-Modified-Information-Response
                                                                     EDCH-Additional-RL-Specific-Modified-Information-Response-List
    OPTIONAL.
    iE-Extensions
                                    ProtocolExtensionContainer { { Additional-EDCH-FDD-Information-Response-RLReconf-Items-ExtIEs } } OPTIONAL,
    . . .
Additional-EDCH-FDD-Information-Response-RLReconf-Items-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
EDCH-Additional-RL-Specific-Modified-Information-Response-List ::= SEQUENCE (SIZE (1..maxNrOfEDCHRLs)) OF EDCH-Additional-RL-Specific-Modified-
Information-Response-ItemIEs
EDCH-Additional-RL-Specific-Modified-Information-Response-ItemIEs ::=SEQUENCE{
    eDCH-Additional-RL-ID
                                        RL-ID,
    dL-PowerBalancing-UpdatedIndicator
                                                    DL-PowerBalancing-UpdatedIndicator
                                                                                             OPTIONAL,
    eDCH-FDD-DL-ControlChannelInformation
                                                    EDCH-FDD-DL-ControlChannelInformation
                                                                                                 OPTIONAL,
    additional-EDCH-MAC-d-Flow-Specific-Information-Response-List
                                                                            Additional-EDCH-MAC-d-Flow-Specific-Information-Response-List
    OPTIONAL,
    hARO-Process-Allocation-Scheduled-2ms-EDCH
                                                    HARO-Process-Allocation-2ms-EDCH
                                                                                             OPTIONAL,
    maxUL-STR
                                    UL-STR
                                                OPTIONAL,
   minUL-SIR
                                    UL-SIR
                                                OPTIONAL,
    maximumDL-power
                                        DL-Power
                                                         OPTIONAL,
    minimumDL-power
                                        DL-Power
                                                         OPTIONAL,
    primary-CPICH-Usage-For-Channel-Estimation
                                                                Primary-CPICH-Usage-For-Channel-Estimation
                                                                                                                                         OPTIONAL,
    secondary-CPICH-Information-Change
                                            Secondary-CPICH-Information-Change
                                                                                         OPTIONAL.
    f-DPCH-SlotFormat
                                        F-DPCH-SlotFormat
                                                                                     OPTIONAL,
    iE-Extensions
                                    ProtocolExtensionContainer { { EDCH-Additional-RL-Specific-Modified-Information-Response-ItemIEs-ExtIEs } }
OPTIONAL,
    . . .
EDCH-Additional-RL-Specific-Modified-Information-Response-ItemIEs-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
Additional-EDCH-Cell-Information-ConfigurationChange-List := SEQUENCE (SIZE (1..maxNrOfEDCH-1)) OF Additional-EDCH-ConfigurationChange-Info-
ItemIEs
Additional-EDCH-ConfigurationChange-Info-ItemIEs
                                                     ::=SEOUENCE{
    additional-EDCH-UL-DPCH-Information-Modify
                                                                         Additional-EDCH-UL-DPCH-Information-Modify
                                                                                                                                 OPTIONAL,
    additional-EDCH-RL-Specific-Information-To-Add
                                                                         Additional-EDCH-RL-Specific-Information-To-Add-List
                                                                                                                                         OPTIONAL,
    additional-EDCH-RL-Specific-Information-To-Modify
                                                                         Additional-EDCH-RL-Specific-Information-To-Modify-List OPTIONAL,
    additional-EDCH-FDD-Information-To-Modify
                                                                         Additional-EDCH-FDD-Information
                                                                                                                  OPTIONAL,
                                                                         Additional-EDCH-F-DPCH-Information
    additional-EDCH-F-DPCH-Information-Modify
                                                                                                                         OPTIONAL,
    multicellEDCH-Information
                                                                         MulticellEDCH-Information
                                                                                                          OPTIONAL,
    iE-Extensions
                                    ProtocolExtensionContainer { { Additional-EDCH-ConfigurationChange-Info-ItemIEs-ExtIEs } } OPTIONAL,
    . . .
Additional-EDCH-ConfigurationChange-Info-ItemIEs-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
Additional-EDCH-UL-DPCH-Information-Modify
                                                ::=SEQUENCE{
```

```
ul-ScramblingCode
                                            UL-ScramblingCode OPTIONAL,
    ul-SIR-Target
                                            UL-SIR
                                                                 OPTIONAL.
    iE-Extensions
                                            ProtocolExtensionContainer { { Additional-EDCH-UL-DPCH-Information-Modify-ExtIEs } } OPTIONAL,
    . . .
Additional-EDCH-UL-DPCH-Information-Modify-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
Additional-EDCH-Cell-Information-Removal-List ::= SEQUENCE (SIZE (1..maxNrOfEDCH-1)) OF Additional-EDCH-Cell-Information-Removal-Info-ItemIEs
Additional-EDCH-Cell-Information-Removal-Info-ItemIEs ::=SEQUENCE{
    rL-on-Secondary-UL-Frequency
                                                             RL-on-Secondary-UL-Frequency,
    iE-Extensions
                                    ProtocolExtensionContainer { { Additional-EDCH-Cell-Information-Removal-Info-ItemIEs-ExtIEs } } OPTIONAL,
    . . .
3
Additional-EDCH-Cell-Information-Removal-Info-ItemIEs-ExtIEs
                                                                 RNSAP-PROTOCOL-EXTENSION ::=
    . . .
RL-on-Secondary-UL-Frequency ::= ENUMERATED {
    remove,
    . . .
}
Additional-EDCH-FDD-Update-Information ::=SEQUENCE{
    hARO-Process-Allocation-Scheduled-2ms-EDCH
                                                                     HARO-Process-Allocation-2ms-EDCH
                                                                                                                                         OPTIONAL
    additional-EDCH-DL-Control-Channel-Change-Information
                                                                     Additional-EDCH-DL-Control-Channel-Change-Information-List
    OPTIONAL,
                                    ProtocolExtensionContainer { { Additional-EDCH-FDD-Update-Information-ExtIEs } } OPTIONAL,
    iE-Extensions
    . . .
Additional-EDCH-FDD-Update-Information-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
Additional-EDCH-DL-Control-Channel-Change-Information-List ::= SEQUENCE (SIZE (1..maxNrOfEDCHRLs)) OF Additional-EDCH-DL-Control-Channel-Change-
Info-ItemIEs
Additional-EDCH-DL-Control-Channel-Change-Info-ItemIEs ::=SEQUENCE{
    eDCH-Additional-RL-ID
                                        RL-ID,
                                        ProtocolExtensionContainer { { Additional-EDCH-DL-Control-Channel-Change-Info-ItemIEs-ExtIEs } } OPTIONAL,
    iE-Extensions
    . . .
}
Additional-EDCH-DL-Control-Channel-Change-Info-ItemIEs-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
```

```
AdditionalPreferredFrequency ::= SEQUENCE (SIZE (1..maxNrOfAddFreq)) OF AdditionalPreferredFrequencyItem
AdditionalPreferredFrequencyItem ::= SEQUENCE {
    dL-UARFCN
                                    UARFCN.
    correspondingCells
                                    CorrespondingCells,
                                    ProtocolExtensionContainer { { AdditionalPreferredFrequencyItem-ExtIEs } } OPTIONAL,
    iE-Extensions
    . . .
}
AdditionalPreferredFrequencyItem-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
}
AdjustmentPeriod
                          ::= INTEGER(1..256)
-- Unit Frame
AffectedUEInformationForMBMS
                               ::= SEQUENCE (SIZE (1..maxNrOfUEs)) OF S-RNTI
AllocationRetentionPriority ::= SEQUENCE {
    priorityLevel
                                PriorityLevel,
    pre-emptionCapability
                                Pre-emptionCapability,
    pre-emptionVulnerability Pre-emptionVulnerability,
   iE-Extensions ProtocolExtensionContainer { {AllocationRetentionPriority-ExtIEs} } OPTIONAL,
    . . .
}
AllocationRetentionPriority-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
}
Allowed-Rate-Information ::= SEQUENCE {
    allowed-UL-Rate Allowed-Rate OPTIONAL,
   allowed-DL-Rate Allowed-Rate OPTIONAL,
iE-Extensions ProtocolExtensionContainer { {Allowed-Rate-Information-ExtIEs} } OPTIONAL,
    . . .
}
Allowed-Rate-Information-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
}
Allowed-Rate
                      ::= INTEGER (1..maxNrOfTFs)
-- "1": TFI 0, "2": TFI 1, "3": TFI 2, ...
AllowedQueuingTime
                          ::= INTEGER (1..60)
-- seconds
AlphaValue
                            ::= INTEGER (0..8)
-- Actual value = Alpha / 8
AlternativeFormatReportingIndicator ::= ENUMERATED {
   alternativeFormatAllowed,...
```

```
Angle-Of-Arrival-Value-LCR ::= SEQUENCE {
    aOA-LCR
                            AOA-LCR,
    aOA-LCR-Accuracy-Class AOA-LCR-Accuracy-Class,
    iE-Extensions
                            ProtocolExtensionContainer { {Angle-Of-Arrival-Value-LCR-ExtIEs} } OPTIONAL,
. . .
}
Angle-Of-Arrival-Value-LCR-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
}
AOA-LCR ::= INTEGER (0..719)
-- Angle Of Arrival for 1.28Mcps TDD
AOA-LCR-Accuracy-Class ::= ENUMERATED {a,b,c,d,e,f,g,h,...}
AntennaColocationIndicator ::= ENUMERATED {
    co-located,
    . . .
}
-- B
BadSatellites ::= SEQUENCE {
    badSatelliteInformation
                                 SEQUENCE (SIZE (1..maxNoSat)) OF
        SEQUENCE {
            badSAT-ID
                                         SAT-ID,
                                         ProtocolExtensionContainer { { BadSatelliteInformation-ExtIEs } }
            iE-Extensions
                                                                                                                    OPTIONAL,
            . . .
       },
    iE-Extensions
                                 ProtocolExtensionContainer { { BadSatellites-ExtIEs } }
                                                                                               OPTIONAL,
    . . .
}
BadSatelliteInformation-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
}
BadSatellites-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
}
Band-Indicator ::= ENUMERATED {
    dcs1800Band,
    pcs1900Band,
    . . .
}
BCC ::= BIT STRING (SIZE (3))
BCCH-ARFCN ::= INTEGER (0..1023)
BetaCD ::= INTEGER (0..15)
```

```
BindingID
                        ::= OCTET STRING (SIZE (1..4,...))
-- If the Binding ID includes an UDP port, the UDP port is included in octet 1 and 2.
BLER
                        ::= INTEGER (-63..0)
-- Step 0.1 (Range -6.3..0). It is the Log10 of the BLER
SCTD-Indicator ::= ENUMERATED {
    active,
    inactive
}
BSIC ::= SEQUENCE {
    nCC
                NCC,
    bCC
                BCC
}
BundlingModeIndicator ::= ENUMERATED
    bundling,
    no-bundling
}
BurstModeParameters ::= SEQUENCE {
    burstStart
                INTEGER (0..15),
    burstLength
                 INTEGER (10..25),
    burstFreq
                    INTEGER (1..16),
                                ProtocolExtensionContainer { { BurstModeParameters-ExtIEs} }
    iE-Extensions
                                                                                                   OPTIONAL,
    . . .
}
BurstModeParameters-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
}
-- C
Cause ::= CHOICE {
    radioNetwork
                        CauseRadioNetwork,
    transport
                        CauseTransport,
    protocol
                        CauseProtocol,
                        CauseMisc,
    misc
    . . .
CauseMisc ::= ENUMERATED {
    control-processing-overload,
    hardware-failure,
    om-intervention,
    not-enough-user-plane-processing-resources,
    unspecified,
    . . .
}
CauseProtocol ::= ENUMERATED {
```

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transfer-syntax-error, abstract-syntax-error-reject, abstract-syntax-error-ignore-and-notify, message-not-compatible-with-receiver-state, semantic-error. unspecified, abstract-syntax-error-falsely-constructed-message, . . . CauseRadioNetwork ::= ENUMERATED { unknown-C-ID, cell-not-available, power-level-not-supported, ul-scrambling-code-already-in-use, dl-radio-resources-not-available, ul-radio-resources-not-available, measurement-not-supported-for-the-object, combining-resources-not-available, combining-not-supported, reconfiguration-not-allowed, requested-configuration-not-supported, synchronisation-failure, requested-tx-diversity-mode-not-supported, measurement-temporaily-not-available, unspecified, invalid-CM-settings, reconfiguration-CFN-not-elapsed, number-of-DL-codes-not-supported, dedicated-transport-channel-type-not-supported, dl-shared-channel-type-not-supported, ul-shared-channel-type-not-supported, common-transport-channel-type-not-supported, ul-spreading-factor-not-supported, dl-spreading-factor-not-supported, cm-not-supported, transaction-not-supported-by-destination-node-b, rl-already-activated-or-alocated, . . . , number-of-UL-codes-not-supported, cell-reserved-for-operator-use, dpc-mode-change-not-supported, information-temporarily-not-available, information-provision-not-supported-for-the-object, power-balancing-status-not-compatible, delayed-activation-not-supported, rl-timing-adjustment-not-supported, unknown-RNTI, measurement-repetition-rate-not-compatible, ue-not-capable-of-support, f-dpch-not-supported, e-dch-not-supported, continuous-packet-connectivity-dtx-drx-operation-not-supported, continuous-packet-connectivity-hs-scch-less-operation-not-supported,

mimo-not-supported,

mimo-not-available.

e-dch-tti2ms-not-supported, continuous-packet-connectivity-DTX-DRX-operation-not-available, continuous-packet-connectivity-UE-DTX-Cycle-not-available, sixteenOAM-UL-not-Supported, hSDSCH-MACdPDU-SizeFormatNotSupported, f-dpch-slot-format-operation-not-supported, e-DCH-MACdPDU-SizeFormat-not-available, e-DPCCH-Power-Boosting-not-supported,

trelocprep-expiry, directed-retry, no-Iu-CS-UP-relocation, reduce-load-in-serving-cell, relocation-cancelled, relocation-desirable-for-radio-reasons, resource-optimisation-relocation, time-critical-relocation, traffic-load-in-the-target-cell-higher-than-in-the-source-cell, sixtyfourOAM-DL-and-MIMO-Combined-not-available, multi-Cell-operation-not-available, multi-Cell-operation-not-supported, semi-Persistent-scheduling-not-supported, continuous-Packet-Connectivity-DRX-not-supported, continuous-Packet-Connectivity-DRX-not-available, enhanced-relocation-not-supported, relocation-not-supported-due-to-PUESBINE-feature, relocation-failure-in-target-RNC, relocation-target-not-allowed, requested-ciphering-and-or-integrity-protection-algorithms-not-supported, sixtyfourQAM-DL-and-MIMO-Combined-not-supported, tx-diversity-for-mimo-on-DL-control-channels-not-available, single-Stream-MIMO-not-supported, single-Stream-MIMO-not-available, multi-Cell-operation-with-MIMO-not-supported, multi-Cell-operation-with-MIMO-not-available, multi-Cell-EDCH-operation-not-supported, multi-Cell-EDCH-operation-not-available, multi-Cell-operation-with-Single-Stream-MIMO-not-supported, multi-Cell-operation-with-Single-Stream-MIMO-not-available, cellSpecificTxDiversityHandlingForMultiCellOperationNotAvailable,

cellSpecificTxDiversityHandlingForMultiCellOperationNotSupported

```
}
```

```
CauseTransport ::= ENUMERATED {
    transport-resource-unavailable,
    unspecified,
    . . .
```

```
}
```

CellCapabilityContainer-FDD ::= BIT STRING (SIZE (32)) -- First bit: Flexible Hard Split Support Indicator -- Second bit: Delayed Activation Support Indicator

- -- Third bit: HS-DSCH Support Indicator
- -- Fourth bit: DSCH Support Indicator
- -- Fifth bit: F-DPCH Support Indicator
- -- sixth bit: E-DCH Support Indicator
- -- Seventh bit: E-DCH TTI2ms Support Indicator
- -- Eighth bit: E-DCH 2sf2and2sf4 and all inferior SFs Support Indicator
- -- Ninth bit: E-DCH 2sf2 and all inferior SFs Support Indicator
- -- Tenth bit: E-DCH 2sf4 and all inferior SFs Support Indicator
- -- Eleventh bit: E-DCH sf4 and all inferior SFs Support Indicator
- -- Twelveth bit: E-DCH sf8 and all inferior SFs Support Indicator
- -- Thirteenth bit: E-DCH HARQ IR Combining Support Indicator
- -- Fourteenth bit: E-DCH HARQ Chase Combining Support Indicator
- -- Fifteenth bit: Continuous Packet Connectivity DTX-DRX Support Indicator
- -- Sixteenth bit: Continuous Packet Connectivity HS-SCCH less Support Indicator
- -- Seventeenth bit: MIMO Support Indicator
- -- Eighteenth bit: SixteenQAM UL Support Indicator
- -- Nineteenth bit: Flexible MAC-d PDU Size Support Indicator
- -- Twentieth bit: F-DPCH Slot Format Support Indicator
- -- Twentyfirst bit: SixtyfourQAM DL Support Indicator
- -- Twentysecond bit: Flexible E-DCH MAC-d PDU Size Support Indicator
- -- Twentythird bit: E-DPCCH Power Boosting Support Indicator
- -- Twentyfourth bit: SixtyfourQAM DL and MIMO Combined Support Indicator
- -- Twentyfifth bit: Multi Cell Support Indicator Support Indicator
- -- Twentysixth bit: MBMS Support Indicator
- -- Twentyseventh bit: DRNS Support STTD on DL ctrl ch when the RL is in MIMO P-CPICH + S-CPICH cell
- -- Twentyeighth bit: Dual Band Support Indicator
- -- Twentyninth bit: Single Stream MIMO Support Indicator
- -- Thirtieth bit: Preferred Precoding Weight Set Restriction Support Indicator
- -- Note that undefined bits are considered as a spare bit and spare bits shall be set to 0 by the transmitter and shall be ignored by the receiver.

CellCapabilityContainerExtension-FDD ::= BIT STRING (SIZE (128))

- -- First bit: Cell Specific Tx Diversity Handling For Multi Cell Operation Support Indicator
- -- Second bit: Multi Cell and MIMO Support Indicator
- -- Third bit: Multi Cell and Single Stream MIMO Support Indicator
- -- Fourth bit: Multi Cell E-DCH Support Indicator
- -- Fifth bit: Separate Iub Transport Bearer Support Indicator
- -- Sixth bit: E-DCH UL Flow Multiplexing Support Indicator
- -- Note that undefined bits are considered as a spare bit and spare bits shall be set to 0 by the transmitter and shall be ignored by the receiver.

CellCapabilityContainer-TDD ::= BIT STRING (SIZE (32))

- -- First bit: Delayed Activation Support Indicator
- -- Second bit: HS-DSCH Support Indicator
- -- Third bit: DSCH Support Indicator
- -- The fourth bit: Flexible MAC-d PDU Size Support Indicator
- -- Fifth bit: MBMS Support Indicator
- -- Note that undefined bits are considered as a spare bit and spare bits shall be set to 0 by the transmitter and shall be ignored by the receiver.

CellCapabilityContainer-TDD-LCR ::= BIT STRING (SIZE (32))

- -- First bit: Delayed Activation Support Indicator
- -- Second bit: HS-DSCH Support Indicator
- -- Third bit: DSCH Support Indicator
- -- The fourth bit: Flexible MAC-d PDU Size Support Indicator

-- Note that undefined bits are considered as a spare bit and spare bits shall be set to 0 by the transmitter and shall be ignored by the receiver.

```
CellCapabilityContainer-TDD768 ::= BIT STRING (SIZE (32))
-- First bit: Delayed Activation Support Indicator
-- Second bit: HS-DSCH Support Indicator
-- Third bit: DSCH Support Indicator
-- The fourth bit: Flexible MAC-d PDU Size Support Indicator
-- Note that undefined bits are considered as a spare bit and spare bits shall be set to 0 by the transmitter and shall be ignored by the receiver.
C-TD
                       ::= INTEGER (0..65535)
CCTrCH-ID
                       ::= INTEGER (0..15)
Cell-Capacity-Class-Value ::= SEQUENCE {
        uplinkCellCapacityClassValue
                                            INTEGER(1..100,...),
        downlinkCellCapacityClassValue
                                            INTEGER(1..100,...)
}
CellIndividualOffset
                      ::= INTEGER (-20..20)
CellListValidityIndicator ::= ENUMERATED {
    ignoreSecondaryServingCellList,
    ignoreDualBandSecondaryServingCellList,
    ignoreBoth
CellParameterID
                           ::= INTEGER (0..127,...)
CellPortionID ::= INTEGER (0..63,...)
CellPortionLCRID
                    ::= INTEGER (0..255,...)
CFN
                    ::= INTEGER (0..255)
CGI ::= SEOUENCE {
    lai
                SEQUENCE {
       pLMN-Identity PLMN-Identity,
        1AC
                        LAC,
                                ProtocolExtensionContainer { {LAI-ExtIEs} } OPTIONAL,
        iE-Extensions
        . . .
    },
    сI
                    CI,
    iE-Extensions
                            ProtocolExtensionContainer { {CGI-ExtIEs} } OPTIONAL
LAI-EXTIES RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
}
CGI-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
}
ChannelCodingType ::= ENUMERATED {
```

```
no-codingTDD,
    convolutional-coding,
    turbo-coding,
    . . .
}
ChipOffset
                       ::= INTEGER (0..38399)
CT
                    ::= OCTET STRING (SIZE (2))
ClosedLoopMode1-SupportIndicator
                                     ::= ENUMERATED
    closedLoop-Mode1-Supported,
    closedLoop-Mode1-not-Supported
}
Closedlooptimingadjustmentmode ::= ENUMERATED {
    adj-1-slot,
    adj-2-slot,
    . . .
}
CodingRate ::= ENUMERATED {
    half.
    third.
    . . .
3
CommonMeasurementAccuracy ::= CHOICE {
    tUTRANGPSMeasurementAccuracyClass
                                             TUTRANGPSAccuracyClass,
    ...,
    tUTRANGANSSMeasurementAccuracyClass
                                             TUTRANGANSSAccuracyClass
}
CommonMeasurementType ::= ENUMERATED {
    uTRAN-GPS-timing-of-cell-frames-for-UE-Positioning,
    sFN-SFN-observerd-time-difference,
    load,
    transmitted-carrier-power,
    received-total-wide-band-power,
    uplink-timeslot-iscp,
    ...,
    rT-load,
    nRT-load-Information,
    upPTSInterference,
    uTRAN-GANSS-timing-of-cell-frames-for-UE-Positioning
-- For measurements on the Iur-g interface, only load, RT Load and NRT Load information are requested.
CommonMeasurementValue ::= CHOICE {
    tUTRANGPSMeasurementValueInformation
                                             TUTRANGPSMeasurementValueInformation,
    sFNSFNMeasurementValueInformation
                                             SFNSFNMeasurementValueInformation,
    loadValue
                                             LoadValue,
    transmittedCarrierPowerValue
                                             INTEGER(0..100),
```

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```
receivedTotalWideBandPowerValue
                                            INTEGER(0..621),
    uplinkTimeslotISCPValue
                                            UL-TimeslotISCP,
    . . . ,
    extension-CommonMeasurementValue
                                            Extension-CommonMeasurementValue
                                     ::= ProtocolIE-Single-Container {{ Extension-CommonMeasurementValueIE }}
Extension-CommonMeasurementValue
Extension-CommonMeasurementValueIE RNSAP-PROTOCOL-IES ::= {
    { ID id-RTLoadValue
                                                         CRITICALITY ignore TYPE RTLoadValue
       PRESENCE mandatory }|
    { ID id-NRTLoadInformationValue
                                                         CRITICALITY ignore TYPE NRTLoadInformationValue
    PRESENCE mandatory }|
    { ID id-UpPTSInterferenceValue
                                                         CRITICALITY reject TYPE UpPTSInterferenceValue
    PRESENCE mandatory } |
    { ID id-TUTRANGANSSMeasurementValueInformation
                                                         CRITICALITY reject TYPE TUTRANGANSSMeasurementValueInformation PRESENCE mandatory }
3
-- For measurements on the Iur-g interface, only load, RT Load and NRT Load values are reported.
CommonMeasurementValueInformation ::= CHOICE {
                                CommonMeasurementAvailable,
    measurementAvailable
    measurementnotAvailable
                                NULL
}
CommonMeasurementAvailable::= SEQUENCE {
    commonMeasurementValue
                                CommonMeasurementValue,
    iE-Extensions
                                    ProtocolExtensionContainer { { CommonMeasurementAvailableItem-ExtIEs } }
                                                                                                                          OPTIONAL,
    . . .
}
CommonMeasurementAvailableItem-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
CongestionCause ::= ENUMERATED
    uTRAN-dynamic-resources,
    uTRAN-semistatic-resources,
    . . .
CommonTransportChannelResourcesInitialisationNotRequired ::= ENUMERATED
    not-Required
Common-EDCH-MAC-d-Flow-Specific-InformationFDD ::= SEQUENCE (SIZE (1..maxNrOfEDCHMACdFlows)) OF Common-EDCH-MAC-d-Flow-Specific-InformationFDDItem
Common-EDCH-MAC-d-Flow-Specific-InformationFDDItem ::= SEQUENCE {
    common-EDCH-MACdFlow-ID
                                                     EDCH-MACdFlow-ID,
    maximum-Number-of-Retransmissions-For-E-DCH
                                                     MaxNr-Retransmissions-EDCH,
    eDCH-HARO-PO-FDD
                                                     E-DCH-HARO-PO-FDD,
    eDCH-MACdFlow-Multiplexing-List
                                                     E-DCH-MACdFlow-Multiplexing-List
                                                                                                                          OPTIONAL,
    common-E-DCHLogicalChannelInformation
                                                     Common-E-DCH-LogicalChannelInformation,
```

```
ProtocolExtensionContainer { { Common-EDCH-MAC-d-Flow-Specific-InformationFDDItem-ExtIEs} }
    iE-Extensions
                OPTIONAL.
    . . .
Common-EDCH-MAC-d-Flow-Specific-InformationFDDItem-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
Common-EDCH-MAC-d-Flow-Specific-InformationLCR ::= SEQUENCE (SIZE (1..maxNrOfEDCHMACdFlowsLCR)) OF Common-EDCH-MAC-d-Flow-Specific-
InformationItemLCR
Common-EDCH-MAC-d-Flow-Specific-InformationItemLCR ::= SEQUENCE {
    common-EDCH-MACdFlow-ID-LCR
                                                     EDCH-MACdFlow-ID-LCR,
    maximum-Number-of-Retransmissions-For-E-DCH
                                                     MaxNr-Retransmissions-EDCH,
    eDCH-HARO-PO-TDD
                                                     E-DCH-HARO-PO-TDD,
    eDCH-MACdFlow-Multiplexing-List
                                                     E-DCH-MACdFlow-Multiplexing-List
                                                                                                                           OPTIONAL,
                                                     Common-E-DCH-LogicalChannelInformation,
    common-E-DCHLogicalChannelInformation
                                                     ProtocolExtensionContainer { { Common-EDCH-MAC-d-Flow-Specific-InformationItemLCR-ExtIEs } }
    iE-Extensions
                OPTIONAL,
    . . .
Common-EDCH-MAC-d-Flow-Specific-InformationItemLCR-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
3
Common-E-DCH-LogicalChannelInformation ::= SEQUENCE (SIZE (1..maxNoOfLogicalChannels)) OF Common-E-DCH-LogicalChannelInformationItem
Common-E-DCH-LogicalChannelInformationItem ::= SEQUENCE {
    logicalChannelId
                                    LogicalChannelID,
    maximumMACdPDU-SizeExtended
                                    MAC-PDU-SizeExtended,
                                    ProtocolExtensionContainer { { Common-E-DCH-LogicalChannelInformationItem-ExtIEs } }
    iE-Extensions
    OPTIONAL,
    . . .
Common-E-DCH-LogicalChannelInformationItem-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
}
Common-EDCH-Support-Indicator ::= NULL
Continuous-Packet-Connectivity-DTX-DRX-Information ::= SEQUENCE {
    uE-DTX-DRX-Offset
                                                 UE-DTX-DRX-Offset,
    enabling-Delay
                                                 Enabling-Delay,
    dTX-Information
                                                 DTX-Information,
    dRX-Information
                                                 DRX-Information
                                                                                          OPTIONAL,
                                                 ProtocolExtensionContainer { { Continuous-Packet-Connectivity-DTX-DRX-Information-ExtIEs } }
    iE-Extensions
        OPTIONAL,
    . . .
```

```
Continuous-Packet-Connectivity-DTX-DRX-Information-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
Continuous-Packet-Connectivity-DTX-DRX-Information-to-Modify ::= SEQUENCE {
                                                UE-DTX-DRX-Offset
    uE-DTX-DRX-Offset
                                                                                         OPTIONAL,
    enabling-Delav
                                                Enabling-Delay
                                                                                         OPTIONAL,
    dTX-Information-to-Modify
                                                DTX-Information-to-Modify
                                                                                         OPTIONAL,
                                                DRX-Information-to-Modify
    dRX-Information-to-Modify
                                                                                         OPTIONAL,
    iE-Extensions
                                                ProtocolExtensionContainer { { Continuous-Packet-Connectivity-DTX-DRX-Information-to-Modify-ExtIEs
} }
           OPTIONAL,
    . . .
Continuous-Packet-Connectivity-DTX-DRX-Information-to-Modify-Extles RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
Continuous-Packet-Connectivity-HS-SCCH-Less-Information ::= SEQUENCE (SIZE (1..maxNrOfHS-DSCHTBSs-HS-SCCHless)) OF Continuous-Packet-Connectivity-
HS-SCCH-Less-InformationItem
Continuous-Packet-Connectivity-HS-SCCH-Less-InformationItem ::= SEQUENCE {
    transport-Block-Size-Index
                                            Transport-Block-Size-Index,
    hSPDSCH-Second-Code-Support
                                            HSPDSCH-Second-Code-Support,
    iE-Extensions
                                            ProtocolExtensionContainer { { Continuous-Packet-Connectivity-HS-SCCH-Less-InformationItem-ExtIEs } }
           OPTIONAL,
    . . .
Continuous-Packet-Connectivity-HS-SCCH-Less-InformationItem-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
}
Continuous-Packet-Connectivity-HS-SCCH-Less-Information-Response ::= SEQUENCE {
   hSPDSCH-First-Code-Index
                                            HSPDSCH-First-Code-Index,
    hSPDSCH-Second-Code-Index
                                            HSPDSCH-Second-Code-Index
                                                                                     OPTIONAL,
                                            ProtocolExtensionContainer { { Continuous-Packet-Connectivity-HS-SCCH-Less-Information-Response-ExtIEs
    iE-Extensions
} }
           OPTIONAL,
    . . .
3
Continuous-Packet-Connectivity-HS-SCCH-Less-Information-Response-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
CorrespondingCells ::= SEQUENCE (SIZE (1..maxNrOfCellsPerFreq)) OF C-ID
CoverageIndicator ::= ENUMERATED {
    overlap,
    covers,
    containedIn,
    . . .
```

}

```
CPC-Information ::= SEQUENCE
    continuous-Packet-Connectivity-DTX-DRX-Information
                                                                              Continuous-Packet-Connectivity-DTX-DRX-Information
            OPTIONAL,
    continuous-Packet-Connectivity-DTX-DRX-Information-to-Modify
                                                                              Continuous-Packet-Connectivity-DTX-DRX-Information-to-Modify
        OPTIONAL,
    continuous-Packet-Connectivity-HS-SCCH-Less-Information
                                                                              Continuous-Packet-Connectivity-HS-SCCH-Less-Information
        OPTIONAL,
                                                                              ProtocolExtensionContainer { { CPC-Information-ExtIEs } }
    iE-Extensions
        OPTIONAL,
    . . .
}
CPC-Information-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    {ID id-Continuous-Packet-Connectivity-HS-SCCH-Less-Deactivate-Indicator
                                                                                      CRITICALITY reject
                                                                                                                                   EXTENSION
Continuous-Packet-Connectivity-HS-SCCH-less-Deactivate-Indicator
                                                                              PRESENCE optional },
    . . .
CPC-RecoveryReport ::= ENUMERATED {
    initiated,
    . . .
}
Continuous-Packet-Connectivity-HS-SCCH-less-Deactivate-Indicator ::= NULL
Counting-Information ::= SEQUENCE ( SIZE (1..maxNrOfFDDNeighboursPerRNC,...)) OF Counting-Information-List
Counting-Information-List ::= SEQUENCE {
    c-ID
                                         C-ID,
                                         Counting-Result,
    counting-Result
                                         ProtocolExtensionContainer { { Counting-Information-List-ExtIEs } } OPTIONAL,
    iE-Extensions
    . . .
}
Counting-Information-List-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
}
Counting-Result ::= INTEGER (0..63)
CRC-Size
                        ::= ENUMERATED {
    v0,
    v8,
    v12,
    v16,
    v24,
    . . .
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} |

}.

```
CriticalityDiagnostics ::= SEQUENCE {
    procedureID
                                    ProcedureID
                                                             OPTIONAL,
    triggeringMessage
                                    TriggeringMessage
                                                             OPTIONAL.
    procedureCriticality
                                    Criticality
                                                             OPTIONAL,
    transactionID
                                    TransactionID
                                                             OPTIONAL.
    iEsCriticalityDiagnostics
                                    CriticalityDiagnostics-IE-List OPTIONAL,
    iE-Extensions
                                     ProtocolExtensionContainer { {CriticalityDiagnostics-ExtIEs} } OPTIONAL,
    . . .
ļ
CriticalityDiagnostics-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
}
CriticalityDiagnostics-IE-List ::= SEQUENCE (SIZE (1..maxNrOfErrors)) OF
    SEQUENCE {
        iECriticality
                                Criticality,
                                ProtocolIE-ID,
        iE-ID
        repetitionNumber
                                RepetitionNumber0
                                                         OPTIONAL,
                                ProtocolExtensionContainer { {CriticalityDiagnostics-IE-List-ExtIEs} } OPTIONAL,
        iE-Extensions
        . . .
CriticalityDiagnostics-IE-List-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ID id-MessageStructure
                                                                                          PRESENCE optional
                                CRITICALITY ignore
                                                         EXTENSION MessageStructure
   ID id-TypeOfError
                                CRITICALITY ignore
                                                         EXTENSION TypeOfError
                                                                                          PRESENCE mandatory
    . . .
MessageStructure ::= SEQUENCE (SIZE (1..maxNrOfLevels)) OF
    SEQUENCE {
       iE-ID
                                ProtocolIE-ID,
        repetitionNumber
                                RepetitionNumber1
                                                         OPTIONAL,
        iE-Extensions
                                ProtocolExtensionContainer { {MessageStructure-ExtIEs} } OPTIONAL,
        . . .
MessageStructure-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
}
CN-CS-DomainIdentifier ::= SEQUENCE {
                        PLMN-Identity,
    pLMN-Identity
    lac
                        LAC,
                        ProtocolExtensionContainer { {CN-CS-DomainIdentifier-ExtIEs } } OPTIONAL
    iE-Extensions
}
CN-CS-DomainIdentifier-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
}
CN-PS-DomainIdentifier ::= SEQUENCE {
    pLMN-Identity
                        PLMN-Identity,
```

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lac
                        LAC,
    rAC
                        RAC.
    iE-Extensions
                        ProtocolExtensionContainer { {CN-PS-DomainIdentifier-ExtIEs} } OPTIONAL
CN-PS-DomainIdentifier-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
CNDomainType
                ::= ENUMERATED
    cs-domain,
   ps-domain,
   i-care,
    . . .
}
-- See in TS 25.331 [16]
COI-DTX-Timer ::= ENUMERATED {v0, v1, v2, v4, v8, v16, v32, v64, v128, v256, v512, infinity}
    -- Unit subframe
ControlGAP ::= INTEGER (1..255)
CQI-Feedback-Cycle ::= ENUMERATED {v0, v2, v4, v8, v10, v20, v40, v80, v160,..., v16, v32, v64}
CQI-Power-Offset ::= INTEGER (0..8,...)
-- According to mapping in ref. TS 25.213 [21] subclause 4.2.1
CQI-RepetitionFactor ::= INTEGER (1..4,...)
-- Step: 1
C-RNTI
                        ::= INTEGER (0..65535)
CodeRate ::= INTEGER (0..63)
CodeRate-short ::= INTEGER (0..10)
CPC-InformationLCR ::= SEQUENCE {
    continuousPacketConnectivity-DRX-InformationLCR
                                                                     ContinuousPacketConnectivity-DRX-InformationLCR
        OPTIONAL,
    continuousPacketConnectivity-DRX-Information-to-Modify-LCR
                                                                     ContinuousPacketConnectivity-DRX-Information-to-Modify-LCR
                                                                                                                                          OPTIONAL,
    hS-DSCH-Semi-PersistentScheduling-Information-LCR
                                                                     HS-DSCH-Semi-PersistentScheduling-Information-LCR
    OPTIONAL,
    hS-DSCH-Semi-PersistentScheduling-Information-to-Modify-LCR
                                                                     HS-DSCH-Semi-PersistentScheduling-Information-to-Modify-LCR
                                                                                                                                          OPTIONAL,
    hS-DSCH-SPS-Deactivate-Indicator-LCR
                                                                     NULL
                                                                                 OPTIONAL,
    e-DCH-Semi-PersistentScheduling-Information-LCR
                                                                     E-DCH-Semi-PersistentScheduling-Information-LCR
        OPTIONAL,
    e-DCH-Semi-PersistentScheduling-Information-to-Modify-LCR
                                                                     E-DCH-Semi-PersistentScheduling-Information-to-Modify-LCR
                                                                                                                                          OPTIONAL,
    e-DCH-SPS-Deactivate-Indicator-LCR
                                                                     NULL
                                                                                 OPTIONAL,
    iE-Extensions
                                                                     ProtocolExtensionContainer { { CPC-InformationLCR-ExtIEs } }
                                                                                                                                          OPTIONAL,
    . . .
}
```

```
CPC-InformationLCR-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
```

. . .

```
}
ContinuousPacketConnectivity-DRX-InformationLCR ::= SEQUENCE {
    enabling-Delay
                                    Enabling-Delay,
    hS-SCCH-DRX-Information-LCR
                                    HS-SCCH-DRX-Information-LCR,
    e-AGCH-DRX-Information-LCR
                                    E-AGCH-DRX-Information-LCR
                                                                     OPTIONAL,
    iE-Extensions
                                    ProtocolExtensionContainer { { ContinuousPacketConnectivity-DRX-InformationLCR-ExtIEs } }
    OPTIONAL,
    . . .
ContinuousPacketConnectivity-DRX-InformationLCR-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
HS-SCCH-DRX-Information-LCR ::= SEQUENCE {
    hS-SCCH-UE-DRX-Cycle-LCR
                                                                 UE-DRX-Cycle-LCR,
    hS-SCCH-Inactivity-Threshold-for-UE-DRX-Cycle-LCR
                                                                 Inactivity-Threshold-for-UE-DRX-Cycle-LCR
                                                                                                                                  OPTIONAL,
    hS-SCCH-UE-DRX-Offset-LCR
                                                                 UE-DRX-Offset-LCR,
                                    ProtocolExtensionContainer { { HS-SCCH-DRX-Information-LCR-ExtIEs } } OPTIONAL,
    iE-Extensions
    . . .
HS-SCCH-DRX-Information-LCR-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    { ID id-HS-SCCH-Inactivity-Threshold-for-UE-DRX-Cycle-LCR-Ext CRITICALITY ignore EXTENSION Inactivity-Threshold-for-UE-DRX-Cycle-LCR-Ext
    PRESENCE optional },
    . . .
E-AGCH-DRX-Information-LCR ::= CHOICE {
    sameAsHS-SCCH
                                NULL,
                                E-AGCH-DRX-Parameters,
    e-AGCH-DRX-Parameters
    . . .
}
E-AGCH-DRX-Parameters ::= SEQUENCE {
                                                         UE-DRX-Cycle-LCR,
    e-AGCH-UE-DRX-Cycle-LCR
    e-AGCH-UE-Inactivity-Monitor-Threshold
                                                         E-AGCH-UE-Inactivity-Monitor-Threshold
                                                                                                           OPTIONAL,
    e-AGCH-UE-DRX-Offset-LCR
                                                         UE-DRX-Offset-LCR,
    iE-Extensions
                                                         ProtocolExtensionContainer { { E-AGCH-DRX-Parameters-ExtIEs } } OPTIONAL,
    . . .
E-AGCH-DRX-Parameters-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
UE-DRX-Cycle-LCR ::= ENUMERATED {v1, v2, v4, v8, v16, v32, v64,...}
    -- Unit subframe
UE-DRX-Offset-LCR ::= INTEGER (0..63)
    -- Unit subframe
Inactivity-Threshold-for-UE-DRX-Cycle-LCR ::= ENUMERATED {v1, v2, v4, v8, v16, v32, v64,...}
```

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-- Unit subframe Inactivity-Threshold-for-UE-DRX-Cycle-LCR-Ext ::= ENUMERATED {v128, v256, v512,...} -- Unit subframe E-AGCH-UE-Inactivity-Monitor-Threshold ::= ENUMERATED {v0, v1, v2, v4, v8, v16, v32, v64, v128, v256, v512, infinity,...} -- Unit subframe ContinuousPacketConnectivity-DRX-Information-to-Modify-LCR ::= SEQUENCE { enabling-Delay Enabling-Delay OPTIONAL, dRX-Information-to-Modify-LCR DRX-Information-to-Modify-LCR OPTIONAL, iE-Extensions ProtocolExtensionContainer { { ContinuousPacketConnectivity-DRX-Information-to-Modify-LCR-ExtIEs } OPTIONAL, . . . ContinuousPacketConnectivity-DRX-Information-to-Modify-LCR-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= { } DRX-Information-to-Modify-LCR ::= CHOICE DRX-Information-to-Modify-Items-LCR, modify deactivate NULL, . . . DRX-Information-to-Modify-Items-LCR ::= SEQUENCE hS-SCCH-DRX-Information-LCR HS-SCCH-DRX-Information-LCR OPTIONAL, e-AGCH-DRX-Information-LCR E-AGCH-DRX-Information-LCR OPTIONAL, iE-Extensions ProtocolExtensionContainer { {DRX-Information-to-Modify-Items-LCR-ExtIEs } } OPTIONAL, . . . DRX-Information-to-Modify-Items-LCR-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= { . . . ContinuousPacketConnectivity-DRX-Information-ResponseLCR ::= SEQUENCE enabling-Delay Enabling-Delay OPTIONAL, hS-SCCH-DRX-Information-ResponseLCR HS-SCCH-DRX-Information-ResponseLCR OPTIONAL, e-AGCH-DRX-Information-ResponseLCR E-AGCH-DRX-Information-ResponseLCR OPTIONAL, iE-Extensions ProtocolExtensionContainer { { ContinuousPacketConnectivity-DRX-Information-ResponseLCR-ExtIEs } } OPTIONAL, . . . ContinuousPacketConnectivity-DRX-Information-ResponseLCR-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= { . . . HS-SCCH-DRX-Information-ResponseLCR ::= SEQUENCE { hS-SCCH-UE-DRX-Cycle-LCR UE-DRX-Cycle-LCR OPTIONAL, hS-SCCH-Inactivity-Threshold-for-UE-DRX-Cycle-LCR Inactivity-Threshold-for-UE-DRX-Cycle-LCR OPTIONAL, hS-SCCH-UE-DRX-Offset-LCR UE-DRX-Offset-LCR OPTIONAL,

```
ProtocolExtensionContainer { { HS-SCCH-DRX-Information-ResponseLCR-ExtIEs } } OPTIONAL,
    iE-Extensions
    . . .
HS-SCCH-DRX-Information-ResponseLCR-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    { ID id-HS-SCCH-Inactivity-Threshold-for-UE-DRX-Cycle-LCR-Ext CRITICALITY ignore EXTENSION Inactivity-Threshold-for-UE-DRX-Cycle-LCR-Ext
    PRESENCE optional },
    . . .
}
E-AGCH-DRX-Information-ResponseLCR ::= CHOICE {
    sameAsHS-SCCH
                                         NULL,
    e-AGCH-DRX-Parameters-Response
                                         E-AGCH-DRX-Parameters-Response,
    . . .
}
E-AGCH-DRX-Parameters-Response ::= SEQUENCE {
    e-AGCH-UE-DRX-Cycle-LCR
                                                     UE-DRX-Cycle-LCR
                                                                                              OPTIONAL,
    e-AGCH-UE-Inactivity-Monitor-Threshold
                                                     E-AGCH-UE-Inactivity-Monitor-Threshold OPTIONAL,
    e-AGCH-UE-DRX-Offset-LCR
                                                     UE-DRX-Offset-LCR
                                                                                              OPTIONAL,
    iE-Extensions
                                                     ProtocolExtensionContainer { { E-AGCH-DRX-Parameters-Response-ExtIEs } } OPTIONAL,
    . . .
E-AGCH-DRX-Parameters-Response-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
۱
-- D
DATA-ID ::= INTEGER (0..3)
DCH-FDD-Information
                        ::= SEQUENCE (SIZE (1..maxNrOfDCHs)) OF DCH-FDD-InformationItem
DCH-FDD-InformationItem ::= SEQUENCE {
    payloadCRC-PresenceIndicator
                                         PayloadCRC-PresenceIndicator,
    ul-FP-Mode
                                         UL-FP-Mode,
                                         TOAWS,
    toAWS
    toAWE
                                         TOAWE,
    dCH-SpecificInformationList
                                         DCH-Specific-FDD-InformationList,
                                         ProtocolExtensionContainer { {DCH-FDD-InformationItem-ExtIEs} } OPTIONAL,
    iE-Extensions
    . . .
DCH-FDD-InformationItem-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    { ID id-TnlOos
                            CRITICALITY
                                             ignore
                                                         EXTENSION
                                                                     Tnl0os
                                                                                  PRESENCE
                                                                                              optional
                                                                                                            },
    . . .
}
DCH-MeasurementOccasion-Information ::= SEQUENCE (SIZE (1.. maxNrOfDCHMeasurementOccasionPatternSequence)) OF DchMeasurementOccasionInformation-
Item
```

```
DchMeasurementOccasionInformation-Item ::= SEQUENCE {
```

```
pattern-Sequence-Identifier
                                                Pattern-Sequence-Identifier,
    status-Flag
                                                Status-Flag,
    measurement-Occasion-Pattern-Sequence-parameters
                                                                Measurement-Occasion-Pattern-Sequence-parameters
                                                                                                                                         OPTIONAL.
    iE-Extensions
                                                ProtocolExtensionContainer { { DCH-MeasurementOccasion-Information-ExtIEs } }
    OPTIONAL,
    . . .
DCH-MeasurementOccasion-Information-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
Measurement-Occasion-Pattern-Sequence-parameters ::= SEQUENCE {
    measurement-Occasion-Pattern-Sequence-parameters-k
                                                                         INTEGER(1..9),
    measurement-Occasion-Pattern-Sequence-parameters-offset
                                                                         INTEGER(0..511),
    measurement-Occasion-Pattern-Sequence-parameters-M-Length
                                                                         INTEGER(1..512),
    measurement-Occasion-Pattern-Sequence-parameters-Timeslot-Bitmap
                                                                         BIT STRING (SIZE (7)),
                                ProtocolExtensionContainer { { Measurement-Occasion-Pattern-Sequence-parameters-ExtIEs } } OPTIONAL,
    iE-Extensions
    . . .
Measurement-Occasion-Pattern-Sequence-parameters-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
DCH-MeasurementType-Indicator ::= BIT STRING (SIZE (5))
DCH-Specific-FDD-InformationList := SEQUENCE (SIZE (1..maxNrOfDCHs)) OF DCH-Specific-FDD-Item
DCH-Specific-FDD-Item ::= SEQUENCE {
    dCH-TD
                                        DCH-ID,
    trCH-SrcStatisticsDescr
                                        TrCH-SrcStatisticsDescr.
    ul-transportFormatSet
                                        TransportFormatSet,
    dl-transportFormatSet
                                        TransportFormatSet,
    ul-BLER
                                        BLER,
    dl-BLER
                                        BLER,
    allocationRetentionPriority
                                        AllocationRetentionPriority,
    frameHandlingPriority
                                        FrameHandlingPriority,
    qE-Selector
                                        OE-Selector,
    dRACControl
                                        DRACControl,
                                        ProtocolExtensionContainer { {DCH-FDD-SpecificItem-ExtIEs } } OPTIONAL,
    iE-Extensions
    . . .
DCH-FDD-SpecificItem-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
                                            CRITICALITY ignore EXTENSION Guaranteed-Rate-Information
      ID id-Guaranteed-Rate-Information
                                                                                                                  PRESENCE optional
                                                                                                                                         }|
      ID id-TrafficClass
                                            CRITICALITY ignore EXTENSION TrafficClass PRESENCE mandatory }
     ID id-Unidirectional-DCH-Indicator
                                            CRITICALITY reject EXTENSION Unidirectional-DCH-Indicator
                                                                                                                  PRESENCE optional
                                                                                                                                         }.
    . . .
}
DCH-Indicator-For-E-DCH-HSDPA-Operation ::= ENUMERATED {
    dch-not-present
```

```
}
DCH-ID
                       ::= INTEGER (0...255)
DCH-InformationResponse ::= SEQUENCE (SIZE (1..maxNrOfDCHs)) OF DCH-InformationResponseItem
DCH-InformationResponseItem ::= SEQUENCE {
    dCH-ID
                                DCH-ID,
    bindingID
                                BindingID
                                                        OPTIONAL,
    transportLayerAddress
                                TransportLayerAddress
                                                       OPTIONAL,
                                ProtocolExtensionContainer { {DCH-InformationResponseItem-ExtIEs } } OPTIONAL,
    iE-Extensions
    . . .
٦
DCH-InformationResponseItem-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    { ID id-Allowed-Rate-Information
                                      CRITICALITY ignore EXTENSION Allowed-Rate-Information
                                                                                                                                        PRESENCE
optional }|
    { ID id-TransportBearerNotSetupIndicator CRITICALITY ignore EXTENSION TransportBearerNotSetupIndicator
                                                                                                                         PRESENCE optional
                                                                                                                                                }, --
FDD only
    . . .
                       ::= SEQUENCE (SIZE (1..maxNrOfDCHs)) OF DCH-TDD-InformationItem
DCH-TDD-Information
DCH-TDD-InformationItem ::= SEQUENCE {
    payloadCRC-PresenceIndicator
                                        PayloadCRC-PresenceIndicator,
    ul-FP-Mode
                                        UL-FP-Mode,
    toAWS
                                        TOAWS,
                                        TOAWE,
    toAWE
    dCH-SpecificInformationList
                                        DCH-Specific-TDD-InformationList,
                                        ProtocolExtensionContainer { {DCH-TDD-InformationItem-ExtIEs} } OPTIONAL,
    iE-Extensions
    . . .
DCH-TDD-InformationItem-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    { ID id-TnlOos
                                        CRITICALITY
                                                        ignore
                                                                    EXTENSION Thloos
                                                                                            PRESENCE
                                                                                                          optional
                                                                                                                         },
    . . .
}
DCH-Specific-TDD-InformationList ::= SEQUENCE (SIZE (1..maxNrOfDCHs)) OF DCH-Specific-TDD-Item
DCH-Specific-TDD-Item ::= SEQUENCE {
    dCH-ID
                                        DCH-ID,
    ul-cCTrCH-ID
                                        CCTrCH-ID, -- UL CCTrCH in which the DCH is mapped
    dl-cCTrCH-ID
                                        CCTrCH-ID, -- DL CCTrCH in which the DCH is mapped
                                        TrCH-SrcStatisticsDescr,
    trCH-SrcStatisticsDescr
    ul-transportFormatSet
                                        TransportFormatSet,
    dl-transportFormatSet
                                        TransportFormatSet,
    ul-BLER
                                        BLER,
    dl-BLER
                                        BLER,
    allocationRetentionPriority
                                        AllocationRetentionPriority,
    frameHandlingPriority
                                        FrameHandlingPriority,
    qE-Selector
                                        QE-Selector
                                                            OPTIONAL,
    -- This IE shall be present if DCH is part of set of Co-ordinated DCHs
```

```
ProtocolExtensionContainer { {DCH-Specific-TDD-Item-ExtIEs} } OPTIONAL,
    iE-Extensions
    . . .
DCH-Specific-TDD-Item-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
      ID id-Guaranteed-Rate-Information
                                            CRITICALITY ignore EXTENSION Guaranteed-Rate-Information
                                                                                                                 PRESENCE optional
                                                                                                                                        }|
      ID id-TrafficClass
                                            CRITICALITY ignore EXTENSION TrafficClass PRESENCE mandatory }
                                            CRITICALITY reject EXTENSION Unidirectional-DCH-Indicator
     ID id-Unidirectional-DCH-Indicator
                                                                                                                 PRESENCE optional
                                                                                                                                        }.
DedicatedMeasurementType ::= ENUMERATED {
    sir.
    sir-error.
    transmitted-code-power,
    rSCP,
    rx-timing-deviation,
    round-trip-time,
    ...,
    rx-timing-deviation-LCR,
    angle-Of-Arrival-LCR,
    hs-sich-quality,
    rx-timing-deviation-768,
    rx-timing-deviation-ext
DedicatedMeasurementValue ::= CHOICE {
    sIR-Value
                        SIR-Value,
    sIR-ErrorValue
                            SIR-Error-Value,
    transmittedCodePowerValue Transmitted-Code-Power-Value,
                        RSCP-Value, -- TDD only
    rSCP
    rxTimingDeviationValue Rx-Timing-Deviation-Value, -- 3.84Mcps TDD only
    roundTripTime
                        Round-Trip-Time-Value, -- FDD only
    . . . .
    extension-DedicatedMeasurementValue
                                            Extension-DedicatedMeasurementValue
Extension-DedicatedMeasurementValue ::= ProtocolIE-Single-Container {{ Extension-DedicatedMeasurementValueIE }}
Extension-DedicatedMeasurementValueIE RNSAP-PROTOCOL-IES ::= {
      ID id-Rx-Timing-Deviation-Value-LCR
                                                CRITICALITY reject TYPE Rx-Timing-Deviation-Value-LCR
                                                                                                                 PRESENCE mandatory } |
      ID id-Angle-Of-Arrival-Value-LCR
                                                CRITICALITY reject TYPE Angle-Of-Arrival-Value-LCR
                                                                                                                         PRESENCE mandatory }
      ID id-HS-SICH-Reception-Quality
                                                CRITICALITY reject TYPE HS-SICH-Reception-Quality-Value PRESENCE mandatory }
      ID id-Rx-Timing-Deviation-Value-768
                                                CRITICALITY reject TYPE Rx-Timing-Deviation-Value-768
                                                                                                                 PRESENCE mandatory }
                                                CRITICALITY reject TYPE Rx-Timing-Deviation-Value-ext
      ID id-Rx-Timing-Deviation-Value-ext
                                                                                                                 PRESENCE mandatory }
     ID id-Extended-Round-Trip-Time-Value
                                                CRITICALITY reject TYPE Extended-Round-Trip-Time-Value
                                                                                                                 PRESENCE mandatory },
    . . .
DedicatedMeasurementValueInformation ::= CHOICE {
    measurementAvailable
                                DedicatedMeasurementAvailable,
    measurementnotAvailable
                                DedicatedMeasurementnotAvailable
```

```
DedicatedMeasurementAvailable::= SEQUENCE {
    dedicatedmeasurementValue
                                    DedicatedMeasurementValue.
    cFN
                                    CFN
                                                             OPTIONAL,
                                    ProtocolExtensionContainer { { DedicatedMeasurementAvailableItem-ExtIEs} }
    ie-Extensions
                                                                                                                          OPTIONAL,
    . . .
DedicatedMeasurementAvailableItem-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
DedicatedMeasurementnotAvailable ::= NULL
DelayedActivation ::= CHOICE {
    cfn
                            CFN,
    separate-indication
                            NULL
DelayedActivationUpdate ::= CHOICE {
                    Activate-Info,
    activate
    deactivate
                    Deactivate-Info
}
Activate-Info ::= SEQUENCE {
    activation-type
                            Execution-Type,
    initial-dl-tx-power
                            DL-Power,
    firstRLS-Indicator
                            FirstRLS-Indicator
                                                                                         OPTIONAL, --FDD Only
    propagation-delay
                                                                                         OPTIONAL, --FDD Only
                            PropagationDelay
    iE-Extensions
                            ProtocolExtensionContainer { { Activate-Info-ExtIEs } }
                                                                                         OPTIONAL,
    . . .
Activate-Info-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    { ID id-ExtendedPropagationDelay CRITICALITY ignore EXTENSION ExtendedPropagationDelay PRESENCE optional
                                                                                                                          },
    . . .
l
Deactivate-Info ::= SEQUENCE {
    deactivation-type
                            Execution-Type,
                            ProtocolExtensionContainer { { Deactivate-Info-ExtIEs} }
    iE-Extensions
                                                                                              OPTIONAL,
    . . .
}
Deactivate-Info-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
}
Execution-Type ::= CHOICE {
    synchronised
                    CFN,
    unsynchronised NULL
```

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```
DeltaSIR
                       ::= INTEGER (0..30)
-- Step 0.1 dB, Range 0..3 dB.
DGANSSCorrections ::= SEQUENCE {
    dGANSS-ReferenceTime
                                     INTEGER(0..119),
    dGANSS-Information
                                     SEQUENCE (SIZE (1..maxSqnType)) OF SEQUENCE {
        qANSS-SiqnalId
                                         GANSS-Signal-ID
                                                                                                                       OPTIONAL,
        qANSS-StatusHealth
                                         GANSS-StatusHealth,
-- The following IE shall be present if the StatusHealth IE value is not equal to "no data" or "invalid data"
        dGANSS-SignalInformation
                                         SEQUENCE (SIZE (1..maxGANSSSat)) OF SEQUENCE {
            satId
                                             INTEGER(0..63),
            qANSS-iod
                                             BIT STRING (SIZE (10)),
            udre
                                             UDRE,
            ganss-prc
                                             INTEGER(-2047..2047),
                                             INTEGER(-127..127),
            ganss-rrc
            ie-Extensions
                                             ProtocolExtensionContainer { { DGANSS-SignalInformationItem-ExtIEs } } OPTIONAL,
            . . .
                                                                                                                       OPTIONAL,
        ie-Extensions
                                         ProtocolExtensionContainer { { DGANSS-InformationItem-ExtIEs } }
                                                                                                                       OPTIONAL,
        . . .
    },
    ie-Extensions
                                     ProtocolExtensionContainer { { DGANSSCorrections-ExtIEs } }
                                                                                                                       OPTIONAL,
    . . .
DGANSSCorrections-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
}
DGANSS-Corrections-Req ::= SEQUENCE {
    dGANSS-Signal-ID
                                         BIT STRING (SIZE (8)),
                                         ProtocolExtensionContainer { { DGANSS-Corrections-Reg-ExtIEs } }
    ie-Extensions
                                                                                                                       OPTIONAL,
    . . .
}
DGANSS-Corrections-Req-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    {ID id-GANSS-ID
                                                                                                  optional},
                                CRITICALITY ignore EXTENSION
                                                                 GANSS-ID
                                                                                      PRESENCE
    . . .
}
DGANSS-InformationItem-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
}
```

```
DGANSS-SignalInformationItem-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    {ID id-DGNSS-ValidityPeriod CRITICALITY iqnore EXTENSION DGNSS-ValidityPeriod
                                                                                                                       optional},
                                                                                          PRESENCE
    . . .
DGANSSThreshold ::= SEQUENCE {
    pRCDeviation
                        PRCDeviation,
    . . .
}
DGNSS-ValidityPeriod ::=
                                     SEOUENCE {
    udreGrowthRate
                                         UDREGrowthRate,
                                         UDREValidityTime,
    udreValidityTime
                                         ProtocolExtensionContainer { { DGNSS-ValidityPeriod-ExtIEs } }
   iE-Extensions
                                                                                                                   OPTIONAL,
    . . .
DGNSS-ValidityPeriod-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
}
DGPSCorrections ::= SEQUENCE {
    qPSTOW
                                             GPSTOW,
    qPS-Status-Health
                                             GPS-Status-Health,
    satellite-DGPSCorrections-Information SEQUENCE (SIZE (1..maxNoSat)) OF
        SEOUENCE {
            sAT-ID
                                                 SAT-ID,
            iode-dqps
                                                 BIT STRING (SIZE (8)),
            uDRE
                                                 UDRE,
            pRC
                                                 PRC,
            range-Correction-Rate
                                                 Range-Correction-Rate,
            iE-Extensions
                                                 ProtocolExtensionContainer { { Satellite-DGPSCorrections-Information-ExtIEs } }
                                                                                                                                           OPTIONAL,
            . . .
        },
                                     ProtocolExtensionContainer { { DGPSCorrections-ExtIEs } }
    iE-Extensions
                                                                                                    OPTIONAL,
    . . .
Satellite-DGPSCorrections-Information-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    {ID id-DGNSS-ValidityPeriod CRITICALITY ignore EXTENSION DGNSS-ValidityPeriod
                                                                                         PRESENCE optional },
    . . .
}
DGPSCorrections-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
}
DGPSThreshold ::= SEQUENCE {
    pRCDeviation
                        PRCDeviation,
                        ProtocolExtensionContainer { { DGPSThreshold-ExtIEs } }
    iE-Extensions
                                                                                      OPTIONAL,
```

```
. . .
}
DGPSThreshold-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
         . . .
DiscardTimer ::= ENUMERATED
\{v20, v40, v60, v80, v100, v120, v140, v160, v180, v200, v250, v300, v400, v500, v750, v1000, v1250, v1500, v1750, v2000, v2500, v3000, v4000, v4500, v5000, v7500, v1000, v1250, v1000, v100
 . . .
}
DiversityControlField
                                                                ::= ENUMERATED {
         may,
        must,
        must-not
}
DiversityMode
                                                          ::= ENUMERATED {
        none,
         sTTD,
         closedLoopMode1,
         not-used-closedLoopMode2,
         . . .
DL-DPCH-SlotFormat
                                                        ::= INTEGER (0..16,...)
DL-DPCH-TimingAdjustment ::= ENUMERATED {
         timing-advance,
         timing-delay
}
DL-Power
                                                   ::= INTEGER (-350..150)
-- Value = DL-Power / 10
-- Unit dB, Range -35dB .. +15dB, Step 0.1dB
DL-PowerBalancing-Information ::= SEQUENCE {
         powerAdjustmentType
                                                                                         PowerAdjustmentType,
         dLReferencePower
                                                                                         DL-Power
                                                                                                                             OPTIONAL,
         -- This IE shall be present if Power Adjustment Type IE equals to 'Common'
         dLReferencePowerList DL-ReferencePowerInformationList
                                                                                                                                                                  OPTIONAL,
         -- This IE shall be present if Power Adjustment Type IE equals to 'Individual'
         maxAdjustmentStep
                                                                                         MaxAdjustmentStep
                                                                                                                                               OPTIONAL,
         -- This IE shall be present if Power Adjustment Type IE equals to 'Common' or 'Individual'
         adjustmentPeriod
                                                                                         AdjustmentPeriod
                                                                                                                                    OPTIONAL,
         -- This IE shall be present if Power Adjustment Type IE equals to 'Common' or 'Individual'
                                                                                         ScaledAdjustmentRatio OPTIONAL,
         adjustmentRatio
         -- This IE shall be present if Power Adjustment Type IE equals to 'Common' or 'Individual'
        iE-Extensions
                                                                                         ProtocolExtensionContainer { { DL-PowerBalancing-Information-ExtIEs } } OPTIONAL,
         . . .
```

```
DL-PowerBalancing-Information-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
```

```
. . .
}
DL-ReferencePowerInformationList
                                        ::= SEQUENCE (SIZE (1..maxNrOfRLs)) OF DL-ReferencePowerInformationItem
DL-ReferencePowerInformationItem ::= SEQUENCE {
    rL-ID
                                RL-ID,
    dl-Reference-Power
                                DL-Power,
    iE-Extensions
                                ProtocolExtensionContainer { {DL-ReferencePowerInformationItem-ExtIEs } } OPTIONAL,
    . . .
DL-ReferencePowerInformationItem-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
DL-PowerBalancing-ActivationIndicator := ENUMERATED {
    dL-PowerBalancing-Activated
}
DL-PowerBalancing-UpdatedIndicator ::= ENUMERATED
    dL-PowerBalancing-Updated
}
DL-ReferencePowerInformation
                               ::= SEQUENCE {
    common-DL-ReferencePowerInformation
                                                DL-Power
                                                                 OPTIONAL,
    individual-DL-ReferencePowerInformation
                                                DL-ReferencePowerInformationList
                                                                                         OPTIONAL,
                                                ProtocolExtensionContainer { { DL-ReferencePowerInformation-ExtIEs } } OPTIONAL,
    iE-Extensions
    . . .
}
DL-ReferencePowerInformation-ExtIEs RNSAP-PROTOCOL-EXTENSION ::=
    . . .
}
D-RNTI
                        ::= INTEGER (0..1048575)
D-RNTI-ReleaseIndication ::= ENUMERATED {
    release-D-RNTI,
    not-release-D-RNTI
}
DL-ScramblingCode
                           ::= INTEGER (0..15)
DL-FrameType ::= ENUMERATED {
    typeA,
    typeB,
    . . .
}
DL-Timeslot-Information ::= SEQUENCE ( SIZE (1..maxNrOfTS)) OF DL-Timeslot-InformationItem
DL-Timeslot-InformationItem ::= SEQUENCE {
    timeSlot
                                    TimeSlot,
```

```
midambleShiftAndBurstType
                                    MidambleShiftAndBurstType,
    tFCI-Presence
                                    TFCI-Presence,
    dL-Code-Information
                                    TDD-DL-Code-Information.
    iE-Extensions
                                    ProtocolExtensionContainer { {DL-Timeslot-InformationItem-ExtIEs } OPTIONAL,
    . . .
3
DL-Timeslot-InformationItem-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
DL-TimeslotLCR-Information ::= SEQUENCE (SIZE (1.. maxNrOfDLTsLCR)) OF DL-TimeslotLCR-InformationItem
DL-TimeslotLCR-InformationItem ::= SEQUENCE {
    timeSlotLCR
                                            TimeSlotLCR,
   midambleShiftLCR
                                            MidambleShiftLCR,
    tFCI-Presence
                                            TFCI-Presence,
    dL-Code-LCR-Information
                                        TDD-DL-Code-LCR-Information,
                                            ProtocolExtensionContainer { { DL-TimeslotLCR-InformationItem-ExtIEs } }
   iE-Extensions
                                                                                                                                  OPTIONAL,
    . . .
DL-TimeslotLCR-InformationItem-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    { ID id-Maximum-DL-Power-TimeslotLCR-InformationItem
                                                          CRITICALITY ignore
                                                                                  EXTENSION DL-Power
                                                                                                                          PRESENCE optional
                                                                                                                                                 }|
    -- Applicable to 1.28Mcps TDD only
    { ID id-Minimum-DL-Power-TimeslotLCR-InformationItem
                                                            CRITICALITY ignore
                                                                                                                          PRESENCE optional
                                                                                                                                                 },
                                                                                  EXTENSION DL-Power
    -- Applicable to 1.28Mcps TDD only
    . . .
DL-Timeslot-Information768 ::= SEOUENCE ( SIZE (1..maxNrOfTS)) OF DL-Timeslot-InformationItem768
DL-Timeslot-InformationItem768 ::= SEQUENCE {
    timeSlot
                                    TimeSlot,
                                    MidambleShiftAndBurstType768,
   midambleShiftAndBurstType768
    tFCI-Presence
                                    TFCI-Presence,
    dL-Code-Information768
                                    TDD-DL-Code-Information768,
                                    ProtocolExtensionContainer { {DL-Timeslot-InformationItem768-ExtIEs} } OPTIONAL,
    iE-Extensions
    . . .
}
DL-Timeslot-InformationItem768-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
DL-TimeSlot-ISCP-Info ::= SEOUENCE (SIZE (1..maxNrOfDLTs)) OF DL-TimeSlot-ISCP-InfoItem
DL-TimeSlot-ISCP-InfoItem ::= SEQUENCE {
   timeSlot
                                TimeSlot.
    dL-TimeslotISCP
                                DL-TimeslotISCP,
                                ProtocolExtensionContainer { { DL-TimeSlot-ISCP-InfoItem-ExtIEs } } OPTIONAL,
    iE-Extensions
    . . .
```

```
DL-TimeSlot-ISCP-InfoItem-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
}
DL-TimeSlot-ISCP-LCR-Information ::= SEQUENCE (SIZE (1..maxNrOfDLTsLCR)) OF DL-TimeSlot-ISCP-LCR-InfoItem
DL-TimeSlot-ISCP-LCR-InfoItem ::= SEQUENCE {
    timeSlotLCR
                                   TimeSlotLCR,
    dL-TimeslotISCP
                                   DL-TimeslotISCP,
   iE-Extensions
                                   ProtocolExtensionContainer { { DL-TimeSlot-ISCP-LCR-InfoItem-ExtIEs } }
                                                                                                                        OPTIONAL,
    . . .
 }
DL-TimeSlot-ISCP-LCR-InfoItem-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
}
DL-TimeslotISCP
                 ::= INTEGER (0..91)
-- According to mapping in TS 25.123 [24]
Downlink-Compressed-Mode-Method ::= ENUMERATED
    not-Used-puncturing,
    sFdiv2,
   higher-layer-scheduling,
    . . .
}
DPC-Mode ::= ENUMERATED {
    mode0,
    mode1,
}
DPC-Mode-Change-SupportIndicator ::= ENUMERATED {
  dPC-ModeChangeSupported
DPCH-ID
                      ::= INTEGER (0..239)
DPCH-ID768 ::= INTEGER (0..479)
DPCHConstantValue ::= INTEGER (-10..10)
-- Unit dB, Step 1dB
DRACControl ::= ENUMERATED {
    not-Used-requested,
    not-requested
}
DRXCycleLengthCoefficient
                                    ::= INTEGER (3..9)
-- See in TS 25.331 [16]
DRX-Information ::= SEQUENCE {
```

```
uE-DRX-Cycle
                                             UE-DRX-Cycle,
    inactivity-Threshold-for-UE-DRX-Cycle
                                                                     Inactivity-Threshold-for-UE-DRX-Cycle,
    inactivity-Threshold-for-UE-Grant-Monitoring
                                                                     Inactivity-Threshold-for-UE-Grant-Monitoring,
    uE-DRX-Grant-Monitoring
                                             UE-DRX-Grant-Monitoring,
    iE-Extensions
                                             ProtocolExtensionContainer { {DRX-Information-ExtIEs} } OPTIONAL,
    . . .
DRX-Information-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
}
DRX-Information-to-Modify ::= CHOICE {
    modify
                         DRX-Information-to-Modify-Items,
    deactivate
                    NULL,
    . . .
DRX-Information-to-Modify-Items ::= SEQUENCE {
    uE-DRX-Cycle
                                             UE-DRX-Cycle
                                                                         OPTIONAL,
    inactivity-Threshold-for-UE-DRX-Cycle
                                                                     Inactivity-Threshold-for-UE-DRX-Cycle
                                                                                                                                          OPTIONAL,
    inactivity-Threshold-for-UE-Grant-Monitoring
                                                                     Inactivity-Threshold-for-UE-Grant-Monitoring
                                                                                                                                          OPTIONAL,
    uE-DRX-Grant-Monitoring
                                            UE-DRX-Grant-Monitoring
                                                                                  OPTIONAL,
                                             ProtocolExtensionContainer { {DRX-Information-to-Modify-Items-ExtIEs} } OPTIONAL,
    iE-Extensions
    . . .
DRX-Information-to-Modify-Items-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
DSCH-RNTI ::= INTEGER (0..65535)
DSCH-FlowControlInformation ::= SEOUENCE (SIZE(1..16)) OF DSCH-FlowControlItem
DSCH-FlowControlItem ::= SEQUENCE {
    dSCH-SchedulingPriority
                                         SchedulingPriorityIndicator,
    mAC-c-sh-SDU-Lengths
                                        MAC-c-sh-SDU-LengthList,
    iE-Extensions
                                         ProtocolExtensionContainer { {DSCH-FlowControlItem-ExtIEs } } OPTIONAL,
    . . .
DSCH-FlowControlItem-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    { ID id-DSCH-InitialWindowSize CRITICALITY ignore EXTENSION DSCH-InitialWindowSize PRESENCE optional },
    . . .
}
DSCH-ID
                        ::= INTEGER (0..255)
DSCH-InitialWindowSize
                                ::= INTEGER (1..255)
-- Number of MAC-c/sh SDUs.
-- 255 = Unlimited number of MAC-c/sh SDUs
```

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DSCH-TDD-Information ::= SEQUENCE (SIZE (1..maxNoOfDSCHs)) OF DSCH-TDD-InformationItem

```
DSCH-TDD-InformationItem ::= SEQUENCE
    dSCH-ID
                                        DSCH-ID,
    dl-ccTrCHID
                                        CCTrCH-ID, -- DL CCTrCH in which the DSCH is mapped
    trChSourceStatisticsDescriptor
                                        TrCH-SrcStatisticsDescr,
    transportFormatSet
                                        TransportFormatSet,
    allocationRetentionPriority
                                        AllocationRetentionPriority,
    schedulingPriorityIndicator
                                        SchedulingPriorityIndicator,
    bler
                                        BLER,
    iE-Extensions
                                        ProtocolExtensionContainer { {DSCH-TDD-InformationItem-ExtIEs} } OPTIONAL,
    . . .
DSCH-TDD-InformationItem-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
     ID id-TrafficClass
                                            CRITICALITY ignore EXTENSION TrafficClass
                                                                                                           PRESENCE mandatory } |
    { ID id-BindingID
                                            CRITICALITY ignore EXTENSION BindingID
                                                                                                       PRESENCE optional }|
    -- Shall be ignored if bearer establishment with ALCAP.
    { ID id-TransportLayerAddress
                                                                                                                                  }|
                                            CRITICALITY ignore EXTENSION TransportLayerAddress
                                                                                                           PRESENCE optional
    -- Shall be ignored if bearer establishment with ALCAP.
    { ID id-TnlOos
                                            CRITICALITY ignore EXTENSION ThlQos
                                                                                                           PRESENCE optional },
    -- Shall be ignored if bearer establishment with ALCAP.
    . . .
DsField ::= BIT STRING (SIZE (8))
DTX-Cycle-2ms-Items ::= SEQUENCE {
    uE-DTX-Cycle1-2ms
                                    UE-DTX-Cycle1-2ms,
    uE-DTX-Cycle2-2ms
                                    UE-DTX-Cycle2-2ms,
    mAC-DTX-Cycle-2ms
                                    MAC-DTX-Cycle-2ms,
    iE-Extensions
                                                ProtocolExtensionContainer { { DTX-Cycle-2ms-Items-ExtIEs } }
                                                                                                                                  OPTIONAL,
    . . .
DTX-Cycle-2ms-Items-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
DTX-Cycle-2ms-to-Modify-Items ::= SEQUENCE {
    uE-DTX-Cycle1-2ms
                                    UE-DTX-Cycle1-2ms
                                                                 OPTIONAL,
    uE-DTX-Cycle2-2ms
                                    UE-DTX-Cycle2-2ms
                                                                 OPTIONAL,
    mAC-DTX-Cycle-2ms
                                    MAC-DTX-Cycle-2ms
                                                                 OPTIONAL,
   iE-Extensions
                                                ProtocolExtensionContainer { { DTX-Cycle-2ms-to-Modify-Items-ExtIEs} }
                                                                                                                                         OPTIONAL,
    . . .
DTX-Cycle-2ms-to-Modify-Items-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
}
DTX-Cycle-10ms-Items ::= SEQUENCE
    uE-DTX-Cycle1-10ms
                                    UE-DTX-Cycle1-10ms,
```

```
uE-DTX-Cycle2-10ms
                                     UE-DTX-Cycle2-10ms,
    mAC-DTX-Cycle-10ms
                                     MAC-DTX-Cycle-10ms,
    iE-Extensions
                                                 ProtocolExtensionContainer { { DTX-Cycle-10ms-Items-ExtIEs } }
                                                                                                                                   OPTIONAL.
    . . .
DTX-Cycle-10ms-Items-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
}
DTX-Cycle-10ms-to-Modify-Items ::= SEQUENCE {
    uE-DTX-Cycle1-10ms
                                    UE-DTX-Cycle1-10ms
                                                                  OPTIONAL,
    uE-DTX-Cycle2-10ms
                                    UE-DTX-Cycle2-10ms
                                                                 OPTIONAL,
    mAC-DTX-Cycle-10ms
                                    MAC-DTX-Cycle-10ms
                                                                                                                                   OPTIONAL.
    iE-Extensions
                                                 ProtocolExtensionContainer { { DTX-Cycle-10ms-to-Modify-Items-ExtIEs } }
                                                                                                                                           OPTIONAL,
    . . .
DTX-Cycle-10ms-to-Modify-Items-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
DTX-Information ::= SEQUENCE {
    e-DCH-TTI-Length
                                         E-DCH-TTI-Length,
    inactivity-Threshold-for-UE-DTX-Cycle2
                                                              Inactivity-Threshold-for-UE-DTX-Cycle2,
    uE-DTX-Long-Preamble
                                         UE-DTX-Long-Preamble,
                                             MAC-Inactivity-Threshold
    mAC-Inactivity-Threshold
    cOI-DTX-Timer
                                COI-DTX-Timer,
                                UE-DPCCH-burst1,
    uE-DPCCH-burst1
                                UE-DPCCH-burst2,
    uE-DPCCH-burst2
                                ProtocolExtensionContainer { {DTX-Information-ExtIEs} } OPTIONAL,
    iE-Extensions
    . . .
DTX-Information-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
DTX-Information-to-Modify ::= CHOICE {
    modify
                         DTX-Information-to-Modify-Items,
    deactivate
                         NULL,
    . . .
DTX-Information-to-Modify-Items ::= SEQUENCE {
    e-DCH-TTI-Length-to-Modify
                                     E-DCH-TTI-Length-to-Modify
                                                                                  OPTIONAL,
    inactivity-Threshold-for-UE-DTX-Cycle2
                                                              Inactivity-Threshold-for-UE-DTX-Cycle2
                                                                                                                                           OPTIONAL.
    uE-DTX-Long-Preamble
                                     UE-DTX-Long-Preamble
                                                                          OPTIONAL,
    mAC-Inactivity-Threshold
                                         MAC-Inactivity-Threshold
                                                                                  OPTIONAL,
    cQI-DTX-Timer
                                    CQI-DTX-Timer
                                                                          OPTIONAL,
    uE-DPCCH-burst1
                                    UE-DPCCH-burst1
                                                                          OPTIONAL,
    uE-DPCCH-burst2
                                    UE-DPCCH-burst2
                                                                          OPTIONAL,
                                     ProtocolExtensionContainer { {DTX-Information-to-Modify-Items-ExtIEs } } OPTIONAL,
    iE-Extensions
```

. . .

}

```
. . .
}
DTX-Information-to-Modify-Items-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
3
-- E
EARFCN ::= INTEGER (0..maxEARFCN)
EARFCN-Information ::= CHOICE {
    fDD
            EARFCN-FDD,
    tDD
            EARFCN,
    . . .
3
EARFCN-FDD ::= SEQUENCE {
    uL-EARFCN
                    EARFCN
    dL-EARFCN
                    EARFCN
}
E-AGCH-Table-Choice ::= ENUMERATED{table16B, table16B-1, ...}
ECGI ::= SEQUENCE {
    pLMN-Identity
                            PLMN-Identity,
    e-UTRAN-Cell-ID
                            BIT STRING (SIZE (28)),
                            ProtocolExtensionContainer { {ECGI-ExtIEs} } OPTIONAL,
    iE-Extensions
    . . .
}
ECGI-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
EDCH-DDI-Value ::= INTEGER (0..62)
EDCH-FDD-DL-ControlChannelInformation ::= SEQUENCE {
    eAGCH-ERGCH-EHICH-FDD-ScramblingCode
                                                          DL-ScramblingCode
                                                                                               OPTIONAL,
                                                          FDD-DL-ChannelisationCodeNumber
    eAGCH-ChannelisationCode
                                                                                               OPTIONAL,
    primary-e-RNTI
                                                          E-RNTI
                                                                                               OPTIONAL,
    secondary-e-RNTI
                                                          E-RNTI
                                                                                               OPTIONAL,
    eRGCH-EHICH-ChannelisationCode
                                                          FDD-DL-ChannelisationCodeNumber,
    eRGCH-SignatureSequence
                                                          ERGCH-SignatureSequence
                                                                                               OPTIONAL,
                                                          EHICH-SignatureSequence
    eHICH-SignatureSequence
                                                                                               OPTIONAL,
    serving-Grant-Value
                                                          E-Serving-Grant-Value
                                                                                               OPTIONAL,
                                                          E-Primary-Secondary-Grant-Selector OPTIONAL,
    primary-Secondary-Grant-Selector
    e-RGCH-Release-Indicator
                                                          E-RGCH-Release-Indicator
                                                                                               OPTIONAL,
    iE-Extensions
                                                          ProtocolExtensionContainer { { EDCH-FDD-DL-ControlChannelInformation-ExtIEs } }
        OPTIONAL,
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EDCH-FDD-DL-ControlChannelInformation-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= { { ID id-E-RGCH-E-HICH-ChannelisationCodeValidityIndicator CRITICALITY ignore EXTENSION E-RGCH-E-HICH-ChannelisationCodeValidityIndicator PRESENCE optional } { ID id-Default-Serving-Grant-in-DTX-Cycle2 CRITICALITY ignore EXTENSION E-Serving-Grant-Value PRESENCE optional }, . . . E-RGCH-E-HICH-ChannelisationCodeValidityIndicator ::= ENUMERATED e-RGCH-E-HICH-Channelisation-Code-response-not-valid EDCH-FDD-Information ::= SEQUENCE { eDCH-MACdFlows-Information EDCH-MACdFlows-Information. hARO-Process-Allocation-Scheduled-2ms-EDCH HARO-Process-Allocation-2ms-EDCH OPTIONAL. e-DCH-Maximum-Bitrate E-DCH-Maximum-Bitrate OPTIONAL, e-DCH-Processing-Overload-Level E-DCH-Processing-Overload-Level OPTIONAL, e-DCH-Reference-Power-Offset E-DCH-Reference-Power-Offset OPTIONAL, ProtocolExtensionContainer { { EDCH-FDD-Information-ExtIEs } } iE-Extensions OPTIONAL, . . . EDCH-FDD-Information-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= { ID id-E-DCH-PowerOffset-for-SchedulingInfo CRITICALITY ignore EXTENSION E-DCH-PowerOffset-for-SchedulingInfo PRESENCE optional} ID id-SixteenQAM-UL-Operation-Indicator CRITICALITY reject EXTENSION SixteenQAM-UL-Operation-Indicator PRESENCE optional}| { ID id-E-AGCH-Table-Choice CRITICALITY ignore EXTENSION E-AGCH-Table-Choice PRESENCE conditional }, -- The IE shall be present if the SixteenOAM UL Operation Indicator IE is set to "Activate"--. . . } EDCH-FDD-InformationResponse ::= SEQUENCE { eDCH-MACdFlow-Specific-InformationResponse EDCH-MACdFlow-Specific-InformationResponse, hARQ-Process-Allocation-Scheduled-2ms-EDCH HARQ-Process-Allocation-2ms-EDCH OPTIONAL, ProtocolExtensionContainer { { EDCH-FDD-InformationResponse-ExtlEs } } iE-Extensions OPTIONAL, EDCH-FDD-InformationResponse-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= { . . . EDCH-MACdFlow-Specific-InformationResponse ::= SEQUENCE (SIZE (1..maxNrOfEDCHMACdFlows)) OF EDCH-MACdFlow-Specific-InformationResponseItem EDCH-MACdFlow-Specific-InformationResponseItem ::= SEQUENCE { eDCH-MACdFlow-ID EDCH-MACdFlow-ID, bindingID BindingID OPTIONAL, transportLayerAddress TransportLayerAddress OPTIONAL,

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hARQ-Process-Allocation-NonSched-2ms-EDCH
                                                    HARQ-Process-Allocation-2ms-EDCH
       OPTIONAL.
    iE-Extensions
                                ProtocolExtensionContainer { {EDCH-MACdFlow-Specific-InformationResponseItem-ExtIEs} } OPTIONAL,
    . . .
EDCH-MACdFlow-Specific-InformationResponseItem-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    { ID id-TransportBearerNotSetupIndicator CRITICALITY ignore EXTENSION TransportBearerNotSetupIndicator
                                                                                                                          PRESENCE optional
                                                                                                                                                 }, --
FDD only
    . . .
EDCH-FDD-Information-To-Modify ::= SEQUENCE {
    eDCH-MACdFlow-Specific-Information
                                                     EDCH-MACdFlow-Specific-InfoToModifyList,
    hARO-Process-Allocation-Scheduled-2ms-EDCH
                                                    HARO-Process-Allocation-2ms-EDCH
                    OPTIONAL,
                                                    E-DCH-Maximum-Bitrate
    e-DCH-Maximum-Bitrate
    OPTIONAL,
    e-DCH-Processing-Overload-Level
                                                     E-DCH-Processing-Overload-Level
    OPTIONAL,
    e-DCH-Reference-Power-Offset
                                                     E-DCH-Reference-Power-Offset
    OPTIONAL.
                                                    MACeReset-Indicator
    mACeReset-Indicator
    OPTIONAL,
                                                    ProtocolExtensionContainer { { EDCH-FDD-Information-To-Modify-ExtlEs } }
    iE-Extensions
    OPTIONAL,
    . . .
EDCH-FDD-Information-To-Modify-Extles RNSAP-PROTOCOL-EXTENSION ::= {
{ ID id-E-DCH-PowerOffset-for-SchedulingInfo
                                                    CRITICALITY ignore EXTENSION
                                                                                    E-DCH-PowerOffset-for-SchedulingInfo
    PRESENCE optional }
{ ID id-SixteenQAM-UL-Operation-Indicator
                                                    CRITICALITY reject EXTENSION
                                                                                     SixteenQAM-UL-Operation-Indicator
    PRESENCE optional }
{ ID id-E-DCH-MACdPDUSizeFormat
                                                     CRITICALITY reject EXTENSION
                                                                                    E-DCH-MACdPDUSizeFormat
    PRESENCE optional } |
{ ID id-E-DCH-DL-Control-Channel-Grant-Information CRITICALITY ignore EXTENSION
                                                                                    E-DCH-DL-Control-Channel-Grant-Information PRESENCE optional }
{ ID id-E-AGCH-Table-Choice
                                                    CRITICALITY ignore EXTENSION
                                                                                    E-AGCH-Table-Choice
    PRESENCE conditional },
-- The IE shall be present if the SixteenQAM UL Operation Indicator IE is set to "Activate"--
. . .
E-DCH-FDD-Update-Information ::= SEQUENCE {
    e-DCH-MACdFlow-Specific-UpdateInformation
                                                    E-DCH-MACdFlow-Specific-UpdateInformation
            OPTIONAL,
    hARQ-Process-Allocation-Scheduled-2ms-EDCH
                                                    HARO-Process-Allocation-2ms-EDCH
                            OPTIONAL,
                                                     ProtocolExtensionContainer { { E-DCH-FDD-Update-Information-ExtIEs } }
    iE-Extensions
        OPTIONAL,
    . . .
}
```

E-DCH-FDD-Update-Information-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {

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{ ID id-E-DCH-DL-Control-Channel-Change-Information
                                                                 CRITICALITY ignore EXTENSION E-DCH-DL-Control-Channel-Change-Information
        PRESENCE optional },
    . . .
E-DCH-MACdFlow-Specific-UpdateInformation ::= SEQUENCE (SIZE (1..maxNrOfEDCHMACdFlows)) OF E-DCH-MACdFlow-Specific-UpdateInformation-Item
E-DCH-MACdFlow-Specific-UpdateInformation-Item ::= SEQUENCE
    e-DCH-MACdFlow-ID
                                                     EDCH-MACdFlow-ID,
    hARQ-Process-Allocation-NonSched-2ms-EDCH
                                                     HARQ-Process-Allocation-2ms-EDCH
                            OPTIONAL,
                                                     ProtocolExtensionContainer { { E-DCH-MACdFlow-Specific-UpdateInformation-Item-ExtIEs } }
    iE-Extensions
    OPTIONAL,
    . . .
E-DCH-MACdFlow-Specific-UpdateInformation-Item-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
۱
E-DCH-DL-Control-Channel-Change-Information ::= SEQUENCE (SIZE (1..maxNrOfEDCHRLs)) OF E-DCH-DL-Control-Channel-Change-Information-Item
E-DCH-DL-Control-Channel-Change-Information-Item ::= SEQUENCE {
    e-DCH-RL-ID
                                             RL-ID,
                                             ProtocolExtensionContainer { { E-DCH-DL-Control-Channel-Change-Information-Item-ExtIEs } } OPTIONAL,
    iE-Extensions
    . . .
E-DCH-DL-Control-Channel-Change-Information-Item-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
E-DCH-DL-Control-Channel-Grant-Information ::= SEQUENCE (SIZE (1..maxNrOfEDCHRLs)) OF E-DCH-DL-Control-Channel-Grant-Information-Item
E-DCH-DL-Control-Channel-Grant-Information-Item ::= SEQUENCE {
    e-DCH-RL-ID
                                             RL-ID,
                                             ProtocolExtensionContainer { { E-DCH-DL-Control-Channel-Grant-Information-Item-ExtIEs } }
    iE-Extensions
                                                                                                                                          OPTIONAL,
    . . .
}
E-DCH-DL-Control-Channel-Grant-Information-Item-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
E-DCH-Grant-Type-Information ::= CHOICE {
    e-DCH-Non-Scheduled-Transmission-Grant
                                                 E-DCH-Non-Scheduled-Transmission-Grant-Items.
    e-DCH-Scheduled-Transmission-Grant
                                                 NULL,
    . . .
}
E-DCH-HARO-PO-FDD ::= INTEGER (0.. maxNrOfEDCH-HARO-PO-OUANTSTEPs)
```

```
E-DCH-LogicalChannelInformation ::= SEOUENCE (SIZE (1..maxNoOfLogicalChannels)) OF E-DCH-LogicalChannelInformationItem
E-DCH-LogicalChannelInformationItem ::= SEQUENCE {
    logicalChannelId
                                    LogicalChannelID,
    schedulingPriorityIndicator
                                    SchedulingPriorityIndicator,
    schedulingInformation
                                    SchedulingInformation,
    mACes-GuaranteedBitRate
                                    MACes-Guaranteed-Bitrate
                                                                    OPTIONAL,
                                    EDCH-DDI-Value,
    eDCH-DDI-Value
    mACd-PDU-Size-List
                                    E-DCH-MACdPDU-SizeList,
                                    ProtocolExtensionContainer { { E-DCH-LogicalChannelInformationItem-ExtIEs } }
    iE-Extensions
                                                                                                                                        OPTIONAL,
    . . .
E-DCH-LogicalChannelInformationItem-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
      ID id-MaximumMACdPDU-SizeExtended
                                            CRITICALITY reject
                                                                                                                 PRESENCE optional } |
                                                                    EXTENSION
                                                                                MAC-PDU-SizeExtended
     ID id-MACes-Maximum-Bitrate-LCR
                                            CRITICALITY ignore
                                                                    EXTENSION
                                                                                MACes-Maximum-Bitrate-LCR
                                                                                                                         PRESENCE optional} | --
1.28Mcps TDD only
    { ID id-UE-AggregateMaximumBitRate-Enforcement-Indicator CRITICALITY ignore EXTENSION UE-AggregateMaximumBitRate-Enforcement-Indicator
    PRESENCE optional },
    . . .
}
E-DCH-Maximum-Bitrate ::= INTEGER (0..5742,...,5743..11498)
E-DCH-PowerOffset-for-SchedulingInfo ::= INTEGER (0.. maxNrOfEDCH-HARO-PO-OUANTSTEPs)
E-DCH-Processing-Overload-Level ::= INTEGER (0..10,...)
E-DCH-Reference-Power-Offset ::= INTEGER (0.. maxNrOfEDCH-HARO-PO-OUANTSTEPs)
E-DCH-MACdPDU-SizeList ::= SEQUENCE (SIZE (1..maxNrOfMACdPDUSize)) OF E-DCH-MACdPDU-SizeListItem
E-DCH-MACdPDU-SizeListItem ::= SEOUENCE {
    mACdPDU-Size
                                    MACdPDU-Size,
    iE-Extensions
                                    ProtocolExtensionContainer { { E-DCH-MACdPDU-SizeListItem-ExtIEs } }
                                                                                                                         OPTIONAL,
E-DCH-MACdPDU-SizeListItem-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
E-DCH-MACdPDUSizeFormat ::= ENUMERATED {
    fixedMACdPDU-Size,
    flexibleMACdPDU-Size
ļ
E-DCH-LogicalChannelToModify ::= SEQUENCE (SIZE (1..maxNoOfLogicalChannels)) OF E-DCH-LogicalChannelToModifyItem
E-DCH-LogicalChannelToModifyItem ::= SEQUENCE {
```

```
logicalChannelId
                                    LogicalChannelID,
    schedulingPriorityIndicator
                                    SchedulingPriorityIndicator
                                                                     OPTIONAL,
                                    SchedulingInformation
    schedulingInformation
                                                                     OPTIONAL.
    mACes-GuaranteedBitRate
                                    MACes-Guaranteed-Bitrate
                                                                     OPTIONAL,
    eDCH-DDI-Value
                                    EDCH-DDI-Value
                                                                     OPTIONAL,
    mACd-PDU-Size-List
                                    E-DCH-MACdPDU-SizeToModifyList,
                                    ProtocolExtensionContainer { { E-DCH-LogicalChannelToModifyItem-ExtIEs } }
    iE-Extensions
                                                                                                                                  OPTIONAL,
    . . .
E-DCH-LogicalChannelToModifyItem-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
      ID id-MaximumMACdPDU-SizeExtended
                                            CRITICALITY reject
                                                                     EXTENSION
                                                                                 MAC-PDU-SizeExtended
                                                                                                           PRESENCE optional } |
     ID id-MACes-Maximum-Bitrate-LCR
                                            CRITICALITY ignore
                                                                     EXTENSION
                                                                                 MACes-Maximum-Bitrate-LCR
                                                                                                                          PRESENCE optional }, --
1.28Mcps TDD only
    . . .
}
E-DCH-MACdPDU-SizeToModifyList ::= SEOUENCE (SIZE (0..maxNrOfMACdPDUSize)) OF E-DCH-MACdPDU-SizeListItem
E-DCH-LogicalChannelToDelete ::= SEQUENCE (SIZE (1..maxNoOfLogicalChannels)) OF E-DCH-LogicalChannelToDeleteItem
E-DCH-LogicalChannelToDeleteItem ::= SEQUENCE {
    logicalChannelId
                                    LogicalChannelID,
    iE-Extensions
                                    ProtocolExtensionContainer { { E-DCH-LogicalChannelToDeleteItem-ExtIEs } }
                                                                                                                                  OPTIONAL,
    . . .
E-DCH-LogicalChannelToDeleteItem-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
LogicalChannelID ::= INTEGER (1..15)
EDCH-MACdFlow-ID ::= INTEGER (0..maxNrOfEDCHMACdFlows-1)
EDCH-MACdFlow-ID-LCR ::= INTEGER (0..maxNrOfEDCHMACdFlowsLCR-1)
EDCH-MACdFlows-Information ::= SEQUENCE {
    eDCH-MACdFlow-Specific-Information
                                                     EDCH-MACdFlow-Specific-InfoList,
    iE-Extensions
                                                     ProtocolExtensionContainer { { EDCH-MACdFlow-Information-ExtIEs } }
                                                                                                                                         OPTIONAL,
    . . .
E-DCH-MACdFlow-Multiplexing-List ::= BIT STRING ( SIZE(maxNrOfEDCHMACdFlows) )
EDCH-MACdFlow-Information-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
}
EDCH-MACdFlow-Specific-InfoList ::= SEQUENCE (SIZE (1..maxNrOfEDCHMACdFlows)) OF EDCH-MACdFlow-Specific-InfoItem
```

EDCH-MACdFlow-Specific-InfoItem ::= SH eDCH-MACdFlow-ID allocationRetentionPriority tnlQoS payloadCRC-PresenceIndicator maxNr-Retransmissions-EDCH trafficClass eDCH-HARQ-PO-FDD eDCH-MACdFlow-Multiplexing-List eDCH-Grant-Type-Information bundlingModeIndicator eDCHLogicalChannelInformation iE-Extensions	EDCH-MACdFlow-ID, AllocationRetentionPriority TnlQos PayloadCRC-PresenceIndicator, MaxNr-Retransmissions-EDCH, TrafficClass, E-DCH-HARQ-PO-FDD, E-DCH-HARQ-PO-FDD, E-DCH-Grant-Type-Information BundlingModeIndicator E-DCH-LogicalChannelInformation,	OPTIONAL, OPTIONAL, OPTIONAL, OPTIONAL, OPTIONAL, H-MACdFlow-Specific-Infoltem-ExtIEs } }	OPTIONAL,
}			
EDCH-MACdFlow-Specific-InfoItem-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {     {ID id-TrCH-SrcStatisticsDescr CRITICALITY ignore EXTENSION TrCH-SrcStatisticsDescr PRESENCE optional },			
}			
EDCH-MACdFlow-Specific-InfoToModifyList ::= SEQUENCE (SIZE (1maxNrOfEDCHMACdFlows)) OF EDCH-MACdFlow-Specific-InfoToModifyItem			
<pre>EDCH-MACdFlow-Specific-InfoToModifyIte eDCH-MACdFlow-ID allocationRetentionPriority transportBearerRequestIndicator tnlQoS maxNr-Retransmissions-EDCH trafficClass eDCH-HARQ-PO-FDD eDCH-MACdFlow-Multiplexing-List eDCH-Grant-Type-Information bundlingModeIndicator eDCH-LogicalChannelToAdd eDCH-LogicalChannelToDdlete iE-Extensions OPTIONAL, </pre>	EDCH-MACdFlow-ID, AllocationRetentionPriority TransportBearerRequestIndicator, TnlQos MaxNr-Retransmissions-EDCH TrafficClass E-DCH-HARQ-PO-FDD E-DCH-MACdFlow-Multiplexing-List E-DCH-Grant-Type-Information BundlingModeIndicator E-DCH-LogicalChannelInformation E-DCH-LogicalChannelToModify E-DCH-LogicalChannelToDelete	OPTIONAL, OPTIONAL, OPTIONAL, OPTIONAL, OPTIONAL, OPTIONAL, OPTIONAL, OPTIONAL, OPTIONAL, OPTIONAL, H-MACdFlow-Specific-InfoToModifyItem-ExtIEs } }	
J			
EDCH-MACdFlow-Specific-InfoToModifyItem-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= { 			
}			
EDCH-MACdFlows-To-Delete ::= SEQUENCE (SIZE (1maxNrOfEDCHMACdFlows)) OF EDCH-MACdFlows-To-Delete-Item			
EDCH-MACdFlows-To-Delete-Item ::= SEQ eDCH-MACdFlow-ID iE-Extensions  }	UENCE { EDCH-MACdFlow-ID,	H-MACdFlows-To-Delete-Item-ExtIEs } }	OPTIONAL,

```
EDCH-MACdFlows-To-Delete-Item-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
EDCH-RL-Indication ::= ENUMERATED {
    eDCH.
    non-EDCH
E-DCH-Non-Scheduled-Transmission-Grant-Items ::= SEQUENCE {
    -- The following IE shall be ignored if id-Ext-Max-Bits-MACe-PDU-non-scheduled is present in E-DCH-Non-Scheduled-Transmission-Grant-Items-
ExtIEs
    maxBits-MACe-PDU-non-scheduled
                                                 Max-Bits-MACe-PDU-non-scheduled,
    hARO-Process-Allocation-NonSched-2ms
                                                 HARO-Process-Allocation-2ms-EDCH
                OPTIONAL.
    iE-Extensions
                                                 ProtocolExtensionContainer { { E-DCH-Non-Scheduled-Transmission-Grant-Items-ExtIEs } }
    OPTIONAL,
    . . .
E-DCH-Non-Scheduled-Transmission-Grant-Items-Extles RNSAP-PROTOCOL-EXTENSION ::= {
    -- The following IE shall be present if the maximum number of bits to be signalled exceeds maxNrOfBits-MACe-PDU-non-scheduled
    { ID id-Ext-Max-Bits-MACe-PDU-non-scheduled
                                                     CRITICALITY reject
                                                                             EXTENSION Ext-Max-Bits-MACe-PDU-non-scheduled
                                                                                                                                          PRESENCE
optional},
    . . .
E-DCH-TFCI-Table-Index ::= INTEGER (0..1,...,2..7)
E-DCH-Serving-cell-change-informationResponse ::= SEQUENCE {
    e-DCH-serving-cell-outcome-choice
                                            E-DCH-serving-cell-change-choice,
    iE-Extensions
                                             ProtocolExtensionContainer { { E-DCH-serving-cell-change-informationResponse-ExtIEs } OPTIONAL,
    . . .
l
E-DCH-serving-cell-change-informationResponse-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
E-DCH-serving-cell-change-choice ::= CHOICE {
    e-DCH-serving-cell-change-successful
                                                 E-DCH-serving-cell-change-successful,
    e-DCH-serving-cell-change-unsuccessful
                                                 E-DCH-serving-cell-change-unsuccessful,
    . . .
}
E-DCH-serving-cell-change-successful ::= SEQUENCE {
    e-DCH-RL-InformationList-Rsp
                                                     E-DCH-RL-InformationList-Rsp,
    iE-Extensions
                                                     ProtocolExtensionContainer { { E-DCH-serving-cell-change-successful-ExtIEs } } OPTIONAL,
}
E-DCH-serving-cell-change-successful-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
```

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E-DCH-RL-InformationList-Rsp ::= SEOUENCE (SIZE (0..maxNrOfRLs)) OF E-DCH-RL-InformationList-Rsp-Item
E-DCH-RL-InformationList-Rsp-Item ::= SEQUENCE {
    e-DCH-reconfigured-RL-Id
                                                 RL-ID.
    e-DCH-FDD-DL-Control-Channel-Info
                                                 EDCH-FDD-DL-ControlChannelInformation,
                                                 ProtocolExtensionContainer { { E-DCH-RL-InformationList-Rsp-Item-ExtIEs } }
    iE-Extensions
                                                                                                                                   OPTIONAL,
    . . .
}
E-DCH-RL-InformationList-Rsp-Item-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
3
E-DCH-serving-cell-change-unsuccessful ::= SEQUENCE {
    cause
                                     Cause,
                                     ProtocolExtensionContainer { { E-DCH-serving-cell-change-unsuccessful-ExtIEs } } OPTIONAL,
    iE-Extensions
    . . .
E-DCH-serving-cell-change-unsuccessful-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
E-DCH-TTI-Length ::= CHOICE {
    t.wo-ms
                DTX-Cycle-2ms-Items,
    ten-ms
                DTX-Cycle-10ms-Items
    . . .
E-DCH-TTI-Length-to-Modify ::= CHOICE {
                DTX-Cycle-2ms-to-Modify-Items,
    two-ms
    ten-ms
                DTX-Cycle-10ms-to-Modify-Items,
    . . .
EDPCH-Information-FDD ::= SEQUENCE {
    maxSet-E-DPDCHs
                                                              Max-Set-E-DPDCHs,
    punctureLimit
                                                             PunctureLimit,
                                                                 E-TFCS-Information,
    e-TFCS-Information
    e-TTI
                                                              E-TTI,
    e-DPCCH-PO
                                                              E-DPCCH-PO,
    e-RGCH-2-IndexStepThreshold
                                                              E-RGCH-2-IndexStepThreshold,
    e-RGCH-3-IndexStepThreshold
                                                              E-RGCH-3-IndexStepThreshold,
    hARO-Info-for-E-DCH
                                                             HARO-Info-for-E-DCH,
    hSDSCH-Configured-Indicator
                                                             HSDSCH-Configured-Indicator,
                                         ProtocolExtensionContainer { { EDPCH-Information-FDD-ExtIEs } }
    iE-Extensions
                                                                                                                            OPTIONAL,
    . . .
}
EDPCH-Information-FDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::=
```

{ ID id-MinimumReducedE-DPDCH-GainFactor CRITICALITY ignore EXTENSION MinimumReducedE-DPDCH-GainFactor PRESENCE optional },

. . .

```
3
EDPCH-Information-RLReconfPrepare-FDD ::= SEQUENCE {
    maxSet-E-DPDCHs
                                                 Max-Set-E-DPDCHs
                                                                         OPTIONAL.
    punctureLimit
                                                 PunctureLimit
                                                                         OPTIONAL,
    e-TFCS-Information
                                                E-TFCS-Information
                                                                         OPTIONAL,
    e-TTI
                                                E-TTI
                                                                         OPTIONAL,
    e-DPCCH-PO
                                                E-DPCCH-PO
                                                                         OPTIONAL,
    e-RGCH-2-IndexStepThreshold
                                                 E-RGCH-2-IndexStepThreshold
                                                                                      OPTIONAL,
    e-RGCH-3-IndexStepThreshold
                                                 E-RGCH-3-IndexStepThreshold
                                                                                      OPTIONAL,
                                                HARO-Info-for-E-DCH
    hARO-Info-for-E-DCH
                                                                                      OPTIONAL,
    hSDSCH-Configured-Indicator
                                                HSDSCH-Configured-Indicator
                                                                                     OPTIONAL,
    iE-Extensions
                                        ProtocolExtensionContainer { { EDPCH-Information-RLReconfPrepare-FDD-ExtIEs } }
                                                                                                                                          OPTIONAL
    . . .
EDPCH-Information-RLReconfPrepare-FDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    { ID id-MinimumReducedE-DPDCH-GainFactor
                                                    CRITICALITY ignore EXTENSION MinimumReducedE-DPDCH-GainFactor
                                                                                                                          PRESENCE optional },
    . . .
EDPCH-Information-RLReconfRequest-FDD ::= SEQUENCE {
    maxSet-E-DPDCHs
                                                             Max-Set-E-DPDCHs
                OPTIONAL,
                                                             PunctureLimit
    punctureLimit
                OPTIONAL,
    e-TFCS-Information
                                                             E-TFCS-Information
                OPTIONAL,
    e-TTI
                                                             E-TTI
                OPTIONAL,
    e-DPCCH-PO
                                                             E-DPCCH-PO
    OPTIONAL,
    e-RGCH-2-IndexStepThreshold
                                                             E-RGCH-2-IndexStepThreshold
    OPTIONAL,
    e-RGCH-3-IndexStepThreshold
                                                             E-RGCH-3-IndexStepThreshold
                OPTIONAL,
    hARO-Info-for-E-DCH
                                                             HARO-Info-for-E-DCH
                OPTIONAL,
    hSDSCH-Configured-Indicator
                                                             HSDSCH-Configured-Indicator
                OPTIONAL,
                                        ProtocolExtensionContainer { { EDPCH-Information-RLReconfRequest-FDD-ExtIEs } }
    iE-Extensions
                                                                                                                                          OPTIONAL,
    . . .
EDPCH-Information-RLReconfRequest-FDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    { ID id-MinimumReducedE-DPDCH-GainFactor
                                                    CRITICALITY ignore EXTENSION MinimumReducedE-DPDCH-GainFactor
                                                                                                                          PRESENCE optional },
    . . .
}
E-DPCCH-PO ::= INTEGER (0..maxNrOfEDPCCH-PO-OUANTSTEPs)
E-DPDCH-PowerInterpolation ::= BOOLEAN
```

```
E-Primary-Secondary-Grant-Selector ::= ENUMERATED {
    primary,
    secondary
EHICH-SignatureSequence ::= INTEGER (0..maxNrofSigSegERGHICH-1)
E-RGCH-Release-Indicator ::= ENUMERATED {e-RGCHreleased}
ERGCH-SignatureSequence ::= INTEGER (0..maxNrofSigSegERGHICH-1)
E-Serving-Grant-Value ::= INTEGER (0..38)
E-RGCH-2-IndexStepThreshold ::= INTEGER (0..37)
E-RGCH-3-IndexStepThreshold ::= INTEGER (0..37)
EDCH-Serving-RL ::= CHOICE {
    e-DCH-Serving-RL-in-this-DRNS
                                            EDCH-Serving-RL-in-this-DRNS,
    e-DCH-Serving-RL-not-in-this-DRNS
                                            NULL,
    . . .
EDCH-Serving-RL-in-this-DRNS ::= SEQUENCE {
    e-DCH-Serving-RL-Id
                                    RL-ID,
    iE-Extensions
                                    ProtocolExtensionContainer { { EDCH-Serving-RL-in-this-DRNS-ExtIEs } }
                                                                                                                      OPTIONAL,
    . . .
}
EDCH-Serving-RL-in-this-DRNS-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
}
Enhanced-FACH-Information-ResponseFDD ::= SEQUENCE {
    common-HS-DSCH-RNTI-priorityQueueInfo-EnhancedFACH
                                                                         PriorityQueue-InfoList-EnhancedFACH-PCH,
    dedicated-HS-DSCH-RNTI-priorityQueueInfo-EnhancedFACH
                                                                         PriorityQueue-InfoList-EnhancedFACH-PCH,
    priorityQueueInfo-EnhancedPCH
                                                 PriorityQueue-InfoList-EnhancedFACH-PCH
                                                                                                                          OPTIONAL,
    hSDSCH-Initial-Capacity-Allocation
                                                             HSDSCH-Initial-Capacity-Allocation,
    hSDSCH-RNTI
                                                             HSDSCH-RNTI
                OPTIONAL,
                                        ProtocolExtensionContainer { { Enhanced-FACH-Information-ResponseFDD-ExtIEs } }
    iE-Extensions
                                                                                                                                          OPTIONAL,
    . . .
Enhanced-FACH-Information-ResponseFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
Enhanced-FACH-Information-ResponseLCR ::= SEQUENCE {
    common-HS-DSCH-RNTI-priorityQueueInfo-EnhancedFACH
                                                                         PriorityQueue-InfoList-EnhancedFACH-PCH,
    dedicated-HS-DSCH-RNTI-priorityQueueInfo-EnhancedFACH
                                                                         PriorityQueue-InfoList-EnhancedFACH-PCH,
                                                 PriorityQueue-InfoList-EnhancedFACH-PCH
    priorityQueueInfo-EnhancedPCH
                                                                                                                          OPTIONAL,
```

```
HSDSCH-Initial-Capacity-Allocation,
    hSDSCH-Initial-Capacity-Allocation
    hSDSCH-RNTI
                                                             HSDSCH-RNTI
                OPTIONAL.
    iE-Extensions
                                         ProtocolExtensionContainer { { Enhanced-FACH-Information-ResponseLCR-ExtIEs } }
                                                                                                                                          OPTIONAL,
    . . .
}
Enhanced-FACH-Information-ResponseLCR-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
Enhanced-FACH-Support-Indicator ::= NULL
EnhancedHSServingCC-Abort ::= ENUMERATED {abortEnhancedHSServingCC,...}
Enhanced-PCH-Capability ::= ENUMERATED {
    enhanced-pch-capable,
    enhanced-pch-not-capable
}
E-RNTI ::= INTEGER (0..65535)
E-TFCI := INTEGER (0..127)
E-TFCI-BetaEC-Boost ::= INTEGER (0..127,...)
E-TFCI-Boost-Information ::= SEQUENCE {
    e-TFCI-BetaEC-Boost
                                                     E-TFCI-BetaEC-Boost,
    uL-Delta-T2TP
                                                     UL-Delta-T2TP
                                                                             OPTIONAL,
    -- This IE shall be present if the E-TFCI BetaEC Boost IE value is not set to 127.
                                                     ProtocolExtensionContainer { { E-TFCI-Boost-Information-ExtIEs} }
    iE-Extensions
                                                                                                                                  OPTIONAL,
    . . .
3
E-TFCI-Boost-Information-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
}
E-TFCS-Information ::= SEOUENCE {
    e-DCH-TFCI-Table-Index
                                                             E-DCH-TFCI-Table-Index,
    e-DCH-Min-Set-E-TFCI
                                                     E-TFCI,
    reference-E-TFCI-Information
                                                     Reference-E-TFCI-Information,
                                                     ProtocolExtensionContainer { {E-TFCS-Information-ExtIEs} }
    iE-Extensions
                                                                                                                          OPTIONAL,
    . . .
E-TFCS-Information-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    { ID id-E-DCH-Minimum-Set-E-TFCIValidityIndicator CRITICALITY reject EXTENSION E-DCH-Minimum-Set-E-TFCIValidityIndicator
                                                                                                                                          PRESENCE
optional }|
```

```
{ ID id-E-TFCI-Boost-Information
                                                        CRITICALITY reject EXTENSION E-TFCI-Boost-Information
    PRESENCE optional }
    { ID id-E-DPDCH-PowerInterpolation
                                                        CRITICALITY reject EXTENSION E-DPDCH-PowerInterpolation
       PRESENCE optional },
    . . .
}
E-DCH-Minimum-Set-E-TFCIValidityIndicator ::= ENUMERATED {
    e-DCH-Minimum-Set-E-TFCI-response-not-valid
}
E-TTI := ENUMERATED {
    tti10.
    tti2
-- 10ms TTI, 2ms TTI
}
E-AGCH-PowerOffset ::= INTEGER (0..255,...)
-- PowerOffset = -32 + offset * 0.25
-- Unit dB, Range -32dB .. +31.75dB, Step +0.25dB
E-RGCH-PowerOffset ::= INTEGER (0..255,...)
-- PowerOffset = -32 + offset * 0.25
-- Unit dB, Range -32dB .. +31.75dB, Step +0.25dB
E-HICH-PowerOffset ::= INTEGER (0..255,...)
-- PowerOffset = -32 + offset * 0.25
-- Unit dB, Range -32dB .. +31.75dB, Step +0.25dB
Enhanced-PrimaryCPICH-EcNo
                                   ::= INTEGER (0..49)
EventA ::= SEQUENCE {
    measurementTreshold
                            MeasurementThreshold,
    measurementHysteresisTime MeasurementHysteresisTime
                                                                OPTIONAL,
                            ProtocolExtensionContainer { {EventA-ExtIEs} } OPTIONAL,
   iE-Extensions
    . . .
}
EventA-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
}
EventB ::= SEQUENCE {
    measurementTreshold
                            MeasurementThreshold,
    measurementHysteresisTime MeasurementHysteresisTime
                                                                OPTIONAL,
                            ProtocolExtensionContainer { {EventB-ExtIEs} } OPTIONAL,
    iE-Extensions
    . . .
}
EventB-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
```

```
EventC ::= SEQUENCE {
    measurementIncreaseDecreaseThreshold MeasurementIncreaseDecreaseThreshold,
    measurementChangeTime
                                MeasurementChangeTime,
    iE-Extensions
                            ProtocolExtensionContainer { {EventC-ExtIEs} } OPTIONAL,
    . . .
}
EventC-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
EventD ::= SEQUENCE {
    measurementIncreaseDecreaseThreshold
                                            MeasurementIncreaseDecreaseThreshold,
    measurementChangeTime
                                MeasurementChangeTime,
    iE-Extensions
                            ProtocolExtensionContainer { {EventD-ExtIEs} } OPTIONAL,
    . . .
EventD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
EventE ::= SEQUENCE {
    measurementThreshold1
                                MeasurementThreshold,
    measurementThreshold2
                                MeasurementThreshold
                                                                 OPTIONAL,
    measurementHysteresisTime
                                MeasurementHysteresisTime
                                                                 OPTIONAL,
    reportPeriodicity
                                ReportPeriodicity
                                                             OPTIONAL,
    iE-Extensions
                            ProtocolExtensionContainer { {EventE-ExtIEs} } OPTIONAL,
    . . .
3
EventE-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
}
EventF ::= SEOUENCE {
    measurementThreshold1
                                MeasurementThreshold,
    measurementThreshold2
                                MeasurementThreshold
                                                                 OPTIONAL,
    measurementHysteresisTime
                                MeasurementHysteresisTime
                                                                 OPTIONAL,
    reportPeriodicity
                            ReportPeriodicity
                                                         OPTIONAL,
                            ProtocolExtensionContainer { {EventF-ExtIEs} } OPTIONAL,
    iE-Extensions
    . . .
EventF-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
ExtendedGSMCellIndividualOffset ::= INTEGER (-50..-11 | 11..50)
E-DCH-Information ::= SEQUENCE {
    e-PUCH-Information
                                                 E-PUCH-Information,
    e-TFCS-Information-TDD
                                                 E-TFCS-Information-TDD,
    e-DCH-MACdFlows-Information-TDD
                                                 E-DCH-MACdFlows-Information-TDD,
```

```
e-DCH-TDD-Information
                                                 E-DCH-TDD-Information,
    iE-Extensions
                                                 ProtocolExtensionContainer { { E-DCH-Information-ExtIEs} }
                                                                                                                           OPTIONAL,
    . . .
E-DCH-Information-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
E-PUCH-Information ::= SEQUENCE {
                                                 CodeRate,
    minCR
    maxCR
                                                 CodeRate,
    hargInfo
                                                 HARO-Info-for-E-DCH,
    n-E-UCCH
                                                 N-E-UCCH.
    iE-Extensions
                                                 ProtocolExtensionContainer { { E-PUCH-Information-ExtIEs } }
                                                                                                                           OPTIONAL,
    . . .
E-PUCH-Information-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
E-TFCS-Information-TDD ::= SEQUENCE {
    e-DCH-OPSK-RefBetaInfo
                                                 E-DCH-OPSK-RefBetaInfo,
    e-DCH-sixteenQAM-RefBetaInfo
                                                 E-DCH-sixteenQAM-RefBetaInfo,
    iE-Extensions
                                                 ProtocolExtensionContainer { { E-TFCS-Information-TDD-ExtIEs } }
                                                                                                                           OPTIONAL,
    . . .
E-TFCS-Information-TDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
E-DCH-OPSK-RefBetaInfo ::= SEQUENCE (SIZE (1..maxNrOfRefBetas)) OF E-DCH-RefBeta-Item
E-DCH-sixteenQAM-RefBetaInfo ::= SEQUENCE (SIZE (1..maxNrOfRefBetas)) OF E-DCH-RefBeta-Item
E-DCH-RefBeta-Item ::= SEQUENCE {
    refCodeRate
                            CodeRate-short,
    refBeta
                            RefBeta
}
E-DCH-MACdFlows-Information-TDD ::= SEQUENCE (SIZE (1..maxNrOfEDCHMACdFlows)) OF E-DCH-MACdFlow-InfoTDDItem
E-DCH-MACdFlow-InfoTDDItem ::= SEOUENCE {
    e-DCH-MACdFlow-ID
                                                     EDCH-MACdFlow-ID,
    allocationRetentionPrioritv
                                                     AllocationRetentionPriority,
    tnlQos
                                                     TnlQos
                                                                                  OPTIONAL,
    bindingID
                                                     BindingID
                                                                                  OPTIONAL,
                                                     TransportLayerAddress
    transportLayerAddress
                                                                                  OPTIONAL,
    payloadCRC-PresenceIndicator
                                                     PayloadCRC-PresenceIndicator,
    maximum-Number-of-Retransmissions-For-E-DCH
                                                     MaxNr-Retransmissions-EDCH,
    eDCH-HARQ-PO-TDD
                                                     E-DCH-HARQ-PO-TDD,
    eDCH-MACdFlow-Multiplexing-List
                                                     E-DCH-MACdFlow-Multiplexing-List
                                                                                                                           OPTIONAL,
```

```
eDCH-Grant-TypeTDD
                                                     E-DCH-Grant-TypeTDD,
    eDCHLogicalChannelInformation
                                                     E-DCH-LogicalChannelInformation,
    iE-Extensions
                                                     ProtocolExtensionContainer { { E-DCH-MACdFlow-InfoTDDItem-ExtIEs} }
    OPTIONAL.
    . . .
}
E-DCH-MACdFlow-InfoTDDItem-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    { ID id-eDCH-MACdFlow-Retransmission-Timer-LCR CRITICALITY ignore
                                                                             EXTENSION E-DCH-MACdFlow-Retransmission-Timer-LCR
                                                                                                                                          PRESENCE
optional }|
    { ID id-TrafficClass
                                                                             EXTENSION TrafficClass
                                                     CRITICALITY ignore
    PRESENCE mandatory },
    . . .
E-DCH-MACdFlow-Retransmission-Timer-LCR ::= ENUMERATED {
ms10, ms15, ms20, ms25, ms30, ms35, ms40, ms45, ms50, ms55, ms60, ms65, ms70, ms75, ms80, ms85, ms90,
ms95, ms100, ms110, ms120, ms140, ms160, ms200, ms240, ms280, ms320, ms400, ms480, ms560,...
E-DCH-HARQ-PO-TDD ::= INTEGER (0..6)
E-DCH-Grant-TypeTDD ::= ENUMERATED {
    scheduled,
    non-scheduled
3
E-DCH-TimeslotResource ::= BIT STRING (SIZE (13))
E-DCH-PowerResource ::= INTEGER(1..32)
TddE-PUCH-Offset ::= INTEGER(0..255)
E-DCH-TDD-Information ::= SEOUENCE {
    e-DCH-TDD-Maximum-Bitrate
                                                     E-DCH-TDD-Maximum-Bitrate
                                                                                                                          OPTIONAL,
    e-DCH-Processing-Overload-Level
                                                     E-DCH-Processing-Overload-Level
                                                                                                                          OPTIONAL,
    e-DCH-PowerOffset-for-SchedulingInfo
                                                     E-DCH-PowerOffset-for-SchedulingInfo
                                                                                                                          OPTIONAL,
                                                     ProtocolExtensionContainer { { E-DCH-TDD-Information-ExtIEs } }
    iE-Extensions
                                                                                                                          OPTIONAL,
    . . .
}
E-DCH-TDD-Information-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
E-DCH-TDD-Maximum-Bitrate ::= INTEGER (0..9201,...)
E-DCH-Information-Reconfig ::= SEQUENCE {
    e-PUCH-Information
                                                 E-PUCH-Information
                                                                                                                      OPTIONAL,
    e-TFCS-Information-TDD
                                                E-TFCS-Information-TDD
                                                                                                                      OPTIONAL,
    e-DCH-MACdFlows-to-Add
                                                E-DCH-MACdFlows-Information-TDD
                                                                                                                      OPTIONAL,
    e-DCH-MACdFlows-to-Delete
                                                EDCH-MACdFlows-To-Delete
                                                                                                                      OPTIONAL,
    e-DCH-Non-Scheduled-Grant-Info
                                                E-DCH-Non-Scheduled-Grant-Info
                                                                                                                      OPTIONAL,
```

e-DCH-TDD-Information E-DCH-TDD-Information OPTIONAL, e-DCH-TDD-Information-to-Modify E-DCH-TDD-Information-to-Modify OPTIONAL. iE-Extensions ProtocolExtensionContainer { { E-DCH-Information-Reconfig-ExtIEs } } OPTIONAL . . . E-DCH-Information-Reconfig-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= { . . . E-DCH-TDD-Information-to-Modify ::= SEQUENCE { e-DCH-TDD-Information-to-Modify-List E-DCH-TDD-Information-to-Modify-List OPTIONAL, mACeReset-Indicator MACeReset-Indicator OPTIONAL. iE-Extensions ProtocolExtensionContainer { { E-DCH-TDD-Information-to-Modify-ExtIEs } } OPTIONAL. . . . E-DCH-TDD-Information-to-Modify-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= { { ID id-E-DCH-MACdPDUSizeFormat CRITICALITY reject EXTENSION E-DCH-MACdPDUSizeFormat PRESENCE optional }, . . . E-DCH-TDD-Information-to-Modify-List ::= SEQUENCE (SIZE (1..maxNrOfEDCHMACdFlows)) OF E-DCH-MACdFlow-ModifyTDDItem E-DCH-MACdFlow-ModifyTDDItem ::= SEQUENCE { e-DCH-MACdFlow-ID EDCH-MACdFlow-ID. allocationRetentionPriority AllocationRetentionPriority OPTIONAL, transportBearerReguestIndicator TransportBearerRequestIndicator, bindingID BindingID OPTIONAL, transportLayerAddress TransportLayerAddress OPTIONAL, tnl0os Tnl0os OPTIONAL, maximum-Number-of-Retransmissions-For-E-DCH MaxNr-Retransmissions-EDCH OPTIONAL, eDCH-HARO-PO-TDD E-DCH-HARO-PO-TDD OPTIONAL, eDCH-MACdFlow-Multiplexing-List E-DCH-MACdFlow-Multiplexing-List OPTIONAL, eDCH-Grant-TvpeTDD E-DCH-Grant-TvpeTDD OPTIONAL, E-DCH-LogicalChannelInformation e-DCH-LogicalChannelToAdd OPTIONAL. e-DCH-LogicalChannelToModify E-DCH-LogicalChannelToModify OPTIONAL, e-DCH-LogicalChannelToDelete E-DCH-LogicalChannelToDelete OPTIONAL, iE-Extensions ProtocolExtensionContainer { {E-DCH-MACdFlow-ModifyTDDItem-ExtIEs } } OPTIONAL, . . . E-DCH-MACdFlow-ModifyTDDItem-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= { { ID id-eDCH-MACdFlow-Retransmission-Timer-LCR EXTENSION E-DCH-MACdFlow-Retransmission-Timer-LCR CRITICALITY iqnore PRESENCE optional }| { ID id-TrafficClass CRITICALITY iqnore EXTENSION TrafficClass PRESENCE optional }, . . . E-DCH-Information-Response ::= SEQUENCE e-DCH-TDD-MACdFlow-Specific-InformationResp E-DCH-TDD-MACdFlow-Specific-InformationResp OPTIONAL, e-AGCH-Specific-Information-ResponseTDD E-AGCH-Specific-InformationRespListTDD OPTIONAL, e-HICH-Information-Response E-HICH-InformationResp OPTIONAL,

```
e-DCH-Non-Scheduled-Grant-Info
                                                     E-DCH-Non-Scheduled-Grant-Info OPTIONAL,
    e-RNTT
                                                     E-RNTI.
    iE-Extensions
                                                     ProtocolExtensionContainer { { E-DCH-Information-Response-ExtIEs } }
                                                                                                                                           OPTIONAL.
    . . .
E-DCH-Information-Response-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
E-DCH-TDD-MACdFlow-Specific-InformationResp ::= SEQUENCE (SIZE (1..maxNrOfEDCHMACdFlows)) OF E-DCH-TDD-MACdFlow-Specific-InformationResp-Item
E-DCH-TDD-MACdFlow-Specific-InformationResp-Item ::= SEQUENCE {
    e-DCH-MacdFlow-Id
                                                     EDCH-MACdFlow-ID,
    bindingID
                                                     BindingID
                                                                                  OPTIONAL,
    transportLayerAddress
                                                     TransportLayerAddress
                                                                                  OPTIONAL,
                                                     ProtocolExtensionContainer { { E-DCH-TDD-MACdFlow-Specific-InformationRespItem-ExtIEs } }
    iE-Extensions
    OPTIONAL,
    . . .
E-DCH-TDD-MACdFlow-Specific-InformationRespItem-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
E-AGCH-Specific-InformationRespListTDD ::= SEQUENCE (SIZE (1..maxNrOfEAGCHCodes)) OF E-AGCH-Specific-InformationResp-ItemTDD
E-AGCH-Specific-InformationResp-ItemTDD ::= SEQUENCE {
    timeslot
                                                     TimeSlot,
    midambleShiftAndBurstType
                                                     MidambleShiftAndBurstType,
    tDD-ChannelisationCode
                                                     TDD-ChannelisationCode,
    iE-Extensions
                                                     ProtocolExtensionContainer { { E-AGCH-Specific-InformationResp-ItemTDD-ExtIEs } }
    OPTIONAL,
    . . .
E-AGCH-Specific-InformationResp-ItemTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
E-HICH-InformationResp::= SEQUENCE {
    timeslot
                                                     TimeSlot,
    midambleShiftAndBurstType
                                                     MidambleShiftAndBurstType,
    tDD-ChannelisationCode
                                                     TDD-ChannelisationCode,
    e-HICH-TimeOffset
                                                     E-HICH-TimeOffset,
    iE-Extensions
                                                     ProtocolExtensionContainer { { E-HICH-InformationResp-ExtIEs } }
                                                                                                                                   OPTIONAL,
    . . .
}
E-HICH-InformationResp-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
}
E-HICH-TimeOffset ::= INTEGER (4..44)
```

E-DCH-Non-Scheduled-Grant-Info ::= SEQUENCE timeslotResource E-DCH-TimeslotResource. powerResource E-DCH-PowerResource. repetitionPeriod RepetitionPeriod, repetitionLength RepetitionLength, tddE-PUCH-Offset TddE-PUCH-Offset, tdd-ChannelisationCode TDD-ChannelisationCode iE-Extensions ProtocolExtensionContainer { { E-DCH-Non-Scheduled-Grant-Info-ExtIEs } } OPTIONAL. E-DCH-Non-Scheduled-Grant-Info-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= { . . . E-DCH-768-Information ::= SEQUENCE { E-PUCH-Information, e-PUCH-Information e-TFCS-Information-TDD E-TFCS-Information-TDD, e-DCH-MACdFlows-Information-TDD E-DCH-MACdFlows-Information-TDD, e-DCH-TDD-Information768 E-DCH-TDD-Information768, ProtocolExtensionContainer { { E-DCH-768-Information-ExtIEs} } iE-Extensions OPTIONAL, . . . E-DCH-768-Information-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= { . . . E-DCH-TDD-Information768 ::= SEQUENCE { e-DCH-TDD-Maximum-Bitrate768 E-DCH-TDD-Maximum-Bitrate768 OPTIONAL, e-DCH-Processing-Overload-Level E-DCH-Processing-Overload-Level OPTIONAL, e-DCH-PowerOffset-for-SchedulingInfo E-DCH-PowerOffset-for-SchedulingInfo OPTIONAL, ProtocolExtensionContainer { { E-DCH-TDD-Information768-ExtIEs } } iE-Extensions OPTIONAL, . . . E-DCH-TDD-Information768-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= { . . . } E-DCH-TDD-Maximum-Bitrate768 ::= INTEGER (0..17713,...) E-DCH-768-Information-Reconfig ::= SEOUENCE { OPTIONAL, E-PUCH-Information e-PUCH-Information e-TFCS-Information-TDD E-TFCS-Information-TDD OPTIONAL, e-DCH-MACdFlows-to-Add E-DCH-MACdFlows-Information-TDD OPTIONAL, e-DCH-MACdFlows-to-Delete EDCH-MACdFlows-To-Delete OPTIONAL, e-DCH-Non-Scheduled-Grant-Info768 E-DCH-Non-Scheduled-Grant-Info768 OPTIONAL, e-DCH-TDD-Information768 E-DCH-TDD-Information768 OPTIONAL, e-DCH-TDD-Information-to-Modify E-DCH-TDD-Information-to-Modify OPTIONAL, iE-Extensions ProtocolExtensionContainer { { E-DCH-768-Information-Reconfig-ExtIEs } } OPTIONAL,

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```

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E-DCH-768-Information-Reconfig-Extles RNSAP-PROTOCOL-EXTENSION ::= {
E-DCH-768-Information-Response ::= SEQUENCE {
    e-DCH-TDD-MACdFlow-Specific-InformationResp
                                                     E-DCH-TDD-MACdFlow-Specific-InformationResp OPTIONAL,
    e-AGCH-Specific-Information-Response768TDD
                                                     E-AGCH-Specific-InformationRespList768TDD OPTIONAL,
    e-HICH-Information-Response768
                                                     E-HICH-InformationResp768 OPTIONAL,
    e-DCH-Non-Scheduled-Grant-Info768
                                                     E-DCH-Non-Scheduled-Grant-Info768 OPTIONAL,
    e-RNTI
                                                     E-RNTI,
                                                     ProtocolExtensionContainer { { E-DCH-768-Information-Response-ExtIEs } }
    iE-Extensions
                                                                                                                                          OPTIONAL,
    . . .
E-DCH-768-Information-Response-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
E-AGCH-Specific-InformationRespList768TDD ::= SEQUENCE (SIZE (1..maxNrOfEAGCHCodes)) OF E-AGCH-Specific-InformationResp-Item768TDD
E-AGCH-Specific-InformationResp-Item768TDD ::= SEQUENCE
    timeslot
                                                     TimeSlot,
    midambleShiftAndBurstType768
                                                     MidambleShiftAndBurstType768,
    tDD-ChannelisationCode768
                                                     TDD-ChannelisationCode768,
    iE-Extensions
                                                     ProtocolExtensionContainer { { E-AGCH-Specific-InformationResp-Item768TDD-ExtIEs } }
    OPTIONAL,
    . . .
E-AGCH-Specific-InformationResp-Item768TDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
E-HICH-InformationResp768::= SEQUENCE
    timeslot
                                                     TimeSlot,
    midambleShiftAndBurstType768
                                                     MidambleShiftAndBurstType768,
                                                     TDD-ChannelisationCode768,
    tDD-ChannelisationCode768
    e-HICH-TimeOffset
                                                     E-HICH-TimeOffset,
    iE-Extensions
                                                     ProtocolExtensionContainer { { E-HICH-InformationResp768-ExtIEs } }
                                                                                                                                  OPTIONAL,
    . . .
E-HICH-InformationResp768-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
E-DCH-Non-Scheduled-Grant-Info768 := SEQUENCE {
    timeslotResource
                                                 E-DCH-TimeslotResource,
    powerResource
                                                 E-DCH-PowerResource,
    repetitionPeriod
                                                 RepetitionPeriod,
    repetitionLength
                                                 RepetitionLength,
    tddE-PUCH-Offset
                                                 TddE-PUCH-Offset,
    tdd-ChannelisationCode768
                                                TDD-ChannelisationCode768,
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ProtocolExtensionContainer { { E-DCH-Non-Scheduled-Grant-Info768-ExtIEs } } iE-Extensions OPTIONAL, . . . E-DCH-Non-Scheduled-Grant-Info768-Extles RNSAP-PROTOCOL-EXTENSION ::= { . . . E-DCH-LCR-Information ::= SEQUENCE { e-PUCH-LCR-Information E-PUCH-LCR-Information, e-TFCS-Information-TDD E-TFCS-Information-TDD, e-DCH-MACdFlows-Information-TDD E-DCH-MACdFlows-Information-TDD, e-DCH-LCR-TDD-Information E-DCH-LCR-TDD-Information, iE-Extensions ProtocolExtensionContainer { { E-DCH-Information-LCR-ExtIEs } } OPTIONAL. . . . 3 E-DCH-Information-LCR-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= { . . . } E-PUCH-LCR-Information ::= SEQUENCE { minCR CodeRate, maxCR CodeRate, harqInfo HARQ-Info-for-E-DCH, pRxdesBase E-PUCH-PRXdesBase, TDD-TPC-UplinkStepSize-LCR, e-PUCH-TPC-Step-Size n-E-UCCH-LCR N-E-UCCH-LCR, ProtocolExtensionContainer { { E-PUCH-Information-LCR-ExtIEs } } OPTIONAL, iE-Extensions . . . E-PUCH-Information-LCR-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= { { ID id-E-PUCH-PowerControlGAP CRITICALITY ignore EXTENSION ControlGAP PRESENCE optional }, . . . E-PUCH-PRXdesBase ::= INTEGER(-112..-50) --SETP=1 E-DCH-LCR-TDD-Information ::= SEQUENCE { e-DCH-Physical-Layer-Category-LCR E-DCH-Physical-Layer-Category-LCR OPTIONAL. e-DCH-Processing-Overload-Level E-DCH-Processing-Overload-Level OPTIONAL, e-DCH-PowerOffset-for-SchedulingInfo E-DCH-PowerOffset-for-SchedulingInfo OPTIONAL, ProtocolExtensionContainer { { E-DCH-LCR-TDD-Information-Extles } } iE-Extensions OPTIONAL, . . . E-DCH-LCR-TDD-Information-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= { { ID id-Extended-E-DCH-LCRTDD-PhysicalLayerCategory CRITICALITY reject EXTENSION Extended-E-DCH-LCRTDD-PhysicalLayerCategory PRESENCE optional }| -- This IE shall be used if the E-DCH Physical Layer Category has a value larger than 5. { ID id-MaximumNumber-Of-Retransmission-For-SchedulingInfo-LCRTDD CRITICALITY ignore EXTENSION MaxNr-Retransmissions-PRESENCE optional }| EDCH

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                                                                                                                         ETSI TS 125 423 V9.8.0 (2012-01)
    { ID id-E-DCH-RetransmissionTimer-For-SchedulingInfo-LCRTDD
                                                                              CRITICALITY ignore
                                                                                                                      EXTENSION E-DCH-MACdFlow-
Retransmission-Timer-LCR PRESENCE optional }|
    { ID id-E-AGCH-UE-Inactivity-Monitor-Threshold
                                                                              CRITICALITY ignore
                                                                                                                      EXTENSION E-AGCH-UE-Inactivity-
Monitor-Threshold PRESENCE optional },
    . . .
}
E-DCH-Physical-Layer-Category-LCR ::= INTEGER (1..5)
Extended-E-DCH-LCRTDD-PhysicalLayerCategory ::= INTEGER (6,...)
E-DCH-LCR-Information-Reconfig ::= SEQUENCE {
    e-PUCH-LCR-Information
                                                 E-PUCH-LCR-Information
                                                                                                                      OPTIONAL.
    e-TFCS-Information-TDD
                                                 E-TFCS-Information-TDD
                                                                                                                      OPTIONAL,
    e-DCH-MACdFlows-to-Add
                                                 E-DCH-MACdFlows-Information-TDD
                                                                                                                      OPTIONAL,
    e-DCH-MACdFlows-to-Delete
                                                 EDCH-MACdFlows-To-Delete
                                                                                                                      OPTIONAL,
    e-DCH-LCR-TDD-Information
                                                 E-DCH-LCR-TDD-Information
                                                                                                                      OPTIONAL,
    e-DCH-TDD-Information-to-Modify
                                                 E-DCH-TDD-Information-to-Modify
                                                                                                                      OPTIONAL,
    iE-Extensions
                                                 ProtocolExtensionContainer { { E-DCH-Information-Reconfig-LCR-ExtIEs } }
                                                                                                                                  OPTIONAL,
    . . .
E-DCH-Information-Reconfig-LCR-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
E-DCH-LCR-Information-Response ::= SEQUENCE {
    e-DCH-TDD-MACdFlow-Specific-InformationResp
                                                     E-DCH-TDD-MACdFlow-Specific-InformationResp OPTIONAL,
    e-AGCH-Specific-Information-Response-LCR-TDD
                                                     E-AGCH-Specific-InformationRespList-LCR-TDD OPTIONAL,
    e-HICH-Specific-Information-Response-LCR
                                                     E-HICH-Specific-InformationResp-LCR OPTIONAL,
    e-DCH-Non-Scheduled-Grant-Info-LCR
                                                     E-DCH-Non-Scheduled-Grant-Info-LCR OPTIONAL,
    e-RNTT
                                                     E-RNTI OPTIONAL,
    iE-Extensions
                                                     ProtocolExtensionContainer { { E-DCH-Information-Response-LCR-ExtIEs } }
                                                                                                                                          OPTIONAL,
    . . .
E-DCH-Information-Response-LCR-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
E-AGCH-Specific-InformationRespList-LCR-TDD ::= SEQUENCE (SIZE (1..maxNrOfEAGCHCodes)) OF E-AGCH-Specific-InformationResp-Item-LCR-TDD
E-AGCH-Specific-InformationResp-Item-LCR-TDD ::= SEQUENCE {
    timeSlotLCR
                                                     TimeSlotLCR,
    midambleShiftLCR
                                                     MidambleShiftLCR,
    tDD-ChannelisationCode
                                                     TDD-ChannelisationCode,
    iE-Extensions
                                                     ProtocolExtensionContainer { { E-AGCH-Specific-InformationResp-ItemTDD-LCR-ExtIEs } }
    OPTIONAL,
    . . .
E-AGCH-Specific-InformationResp-ItemTDD-LCR-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
```

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E-HICH-Specific-InformationResp-LCR::= SEQUENCE {
    e-HICH-Scheduled-InformationResp-LCR
                                                     E-HICH-Scheduled-InformationRespList-LCR-TDD
                                                                                                                      OPTIONAL.
    e-HICH-non-Scheduled-InformationResp-LCR
                                                     E-HICH-InformationResp-LCR
                                                                                                                      OPTIONAL,
    e-HICH-TimeOffset-lcr
                                                     E-HICH-TimeOffset-LCR,
                                                     ProtocolExtensionContainer { { E-HICH-Specific-InformationResp-LCR-ExtIEs } }
   iE-Extensions
   OPTIONAL,
    . . .
}
E-HICH-Specific-InformationResp-LCR-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
}
E-HICH-Scheduled-InformationRespList-LCR-TDD ::= SEQUENCE (SIZE (1..maxNrOfEHICHCodes)) OF E-HICH-Scheduled-InformationResp-Item-LCR-TDD
E-HICH-Scheduled-InformationResp-Item-LCR-TDD ::= SEQUENCE {
    e-HICH-EI
                                                E-HICH-EI,
    e-HICH-Scheduled-InformationResp-LCR
                                                E-HICH-InformationResp-LCR,
    iE-Extensions
                                                 ProtocolExtensionContainer { { E-HICH-Scheduled-InformationResp-LCR-ExtIEs } }
                                                                                                                                          OPTIONAL.
    . . .
E-HICH-Scheduled-InformationResp-LCR-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
ļ
E-HICH-EI ::= INTEGER (0..3)
E-HICH-InformationResp-LCR::= SEQUENCE {
    timeSlotLCR
                                                     TimeSlotLCR,
    midambleShiftLCR
                                                     MidambleShiftLCR,
    tDD-ChannelisationCode
                                                     TDD-ChannelisationCode,
    signatureSequenceGroupIndex
                                                     SignatureSequenceGroupIndex,
    iE-Extensions
                                                     ProtocolExtensionContainer { { E-HICH-InformationResp-LCR-ExtIEs } }
                                                                                                                                          OPTIONAL,
E-HICH-InformationResp-LCR-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
E-HICH-TimeOffset-LCR ::= INTEGER (4..15)
E-DCH-SubframeNumber-LCR ::= ENUMERATED{s0,s1}
E-DCH-TimeslotResource-LCR := BIT STRING (SIZE (5))
E-DCH-Non-Scheduled-Grant-Info-LCR ::= SEQUENCE
    timeslotResource-LCR
                                                 E-DCH-TimeslotResource-LCR,
```

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powerResource
                                                 E-DCH-PowerResource,
    repetitionPeriod
                                                 RepetitionPeriod,
    repetitionLength
                                                 RepetitionLength,
                                                 E-DCH-SubframeNumber-LCR,
    subframenumber
    tddE-PUCH-Offset
                                                 TddE-PUCH-Offset.
    tdd-ChannelisationCode
                                                 TDD-ChannelisationCode,
                                                 ProtocolExtensionContainer { { E-DCH-Non-Scheduled-Grant-Info-LCR-ExtIEs } }
    iE-Extensions
                                                                                                                                          OPTIONAL,
    . . .
E-DCH-Non-Scheduled-Grant-Info-LCR-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
}
Enabling-Delay ::= ENUMERATED {v0, v1, v2, v4, v8, v16, v32, v64, v128}
-- Unit radio frame
Ext-Reference-E-TFCI-PO ::= INTEGER(30..31,...)
ExtendedPropagationDelay ::= INTEGER(255..1023)
Extended-RNC-ID
                                ::= INTEGER (4096..65535)
Extended-Round-Trip-Time-Value ::= INTEGER(32767..103041)
-- See also mapping in TS 25.133 [23]
Ext-Max-Bits-MACe-PDU-non-scheduled ::= INTEGER(19983..22978,...)
E-DCH-Semi-PersistentScheduling-Information-LCR ::= SEQUENCE {
    repetition-Period-List-LCR
                                             Repetition-Period-List-LCR,
    e-DCH-SPS-Indicator
                                             E-DCH-SPS-Indicator,
    e-DCH-SPS-Reservation-Indicator
                                             SPS-Reservation-Indicator
                                                                             OPTIONAL,
    iE-Extensions
                                             ProtocolExtensionContainer { { E-DCH-Semi-PersistentScheduling-Information-LCR-ExtIEs } }
    OPTIONAL,
    . . .
E-DCH-Semi-PersistentScheduling-Information-LCR-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
E-DCH-SPS-Indicator ::= BIT STRING (SIZE (16))
E-DCH-Semi-PersistentScheduling-Information-to-Modify-LCR ::= SEQUENCE {
    repetition-Period-List-LCR
                                             Repetition-Period-List-LCR
                                                                             OPTIONAL,
    e-DCH-SPS-Indicator
                                             E-DCH-SPS-Indicator
                                                                             OPTIONAL,
    e-DCH-SPS-Reservation-Indicator
                                             SPS-Reservation-Indicator
                                                                             OPTIONAL,
                                             ProtocolExtensionContainer { { E-DCH-Semi-PersistentScheduling-Information-to-Modify-LCR-ExtIEs } }
    iE-Extensions
            OPTIONAL,
    . . .
```

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E-DCH-Semi-PersistentScheduling-Information-to-Modify-LCR-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
E-DCH-Semi-PersistentScheduling-Information-ResponseLCR ::= SEQUENCE {
    initial-E-DCH-SPS-resource
                                                 Initial-E-DCH-SPS-resource
                                                                                      OPTIONAL,
    e-DCH-SPS-HICH-Information
                                                 E-DCH-SPS-HICH-Information
                                                                                      OPTIONAL,
    iE-Extensions
                                                 ProtocolExtensionContainer { { E-DCH-Semi-PersistentScheduling-Information-ResponseLCR-ExtIEs } }
            OPTIONAL,
    . . .
E-DCH-Semi-PersistentScheduling-Information-ResponseLCR-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
Initial-E-DCH-SPS-resource ::= SEQUENCE {
    timeslot-Resource-Related-Information
                                                 E-DCH-TimeslotResource-LCR,
    powerResource
                                                 E-DCH-PowerResource,
    repetitionPeriodIndex
                                                 RepetitionPeriodIndex,
    repetitionLength
                                                 RepetitionLength,
                                                 ENUMERATED {v0, v1},
    subframeNumber
    tddE-PUCH-Offset
                                                 TddE-PUCH-Offset,
    tdd-ChannelisationCode
                                                 TDD-ChannelisationCode,
    n-E-UCCHLCR
                                                 N-E-UCCH-LCR,
                                                 ProtocolExtensionContainer { { Initial-E-DCH-SPS-resource-ExtIEs } }
                                                                                                                                           OPTIONAL,
    iE-Extensions
    . . .
Initial-E-DCH-SPS-resource-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
E-DCH-SPS-HICH-Information ::= SEQUENCE {
    e-HICH-Configuration
                                                 E-HICH-Configuration,
    signatureSequenceGroupIndex
                                             SignatureSequenceGroupIndex,
    iE-Extensions
                                                 ProtocolExtensionContainer { { E-DCH-SPS-HICH-Information-ExtIEs } }
                                                                                                                                           OPTIONAL,
    . . .
E-DCH-SPS-HICH-Information-ExtIEs RNSAP-PROTOCOL-EXTENSION ::=
    . . .
E-HICH-Configuration ::= CHOICE {
    same-As-Scheduled-E-HICH
                                         Same-As-Scheduled-E-HICH,
    explicit
                                         E-HICH-InformationResp-ExplicitConfiguration-LCR,
    . . .
}
```

```
Same-As-Scheduled-E-HICH ::= SEQUENCE {
    e-HICH-EI
                                                 E-HICH-EI,
    . . .
E-HICH-InformationResp-ExplicitConfiguration-LCR ::= SEQUENCE {
    timeSlotLCR
                                                     TimeSlotLCR,
    midambleShiftLCR
                                                    MidambleShiftLCR,
    tDD-ChannelisationCode
                                                     TDD-ChannelisationCode,
                                                     ProtocolExtensionContainer { { E-HICH-InformationResp-ExplicitConfiguration-LCR-ExtIEs } }
   iE-Extensions
   OPTIONAL,
    . . .
3
E-HICH-InformationResp-ExplicitConfiguration-LCR-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
-- F
FACH-FlowControlInformation ::= SEQUENCE (SIZE (1..16)) OF FACH-FlowControlInformationItem
FACH-FlowControlInformationItem ::= SEQUENCE {
                                    SchedulingPrioritvIndicator,
    fACH-SchedulingPriority
   mAC-c-sh-SDU-Lengths
                                    MAC-c-sh-SDU-LengthList,
    fACH-InitialWindowSize
                                    FACH-InitialWindowSize,
    iE-Extensions
                                    ProtocolExtensionContainer { {FACH-FlowControlInformationItem-ExtIEs} } OPTIONAL,
    . . .
}
FACH-FlowControlInformationItem-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
}
                                ::= INTEGER { unlimited(255) } (0..255)
FACH-InitialWindowSize
-- Number of frames MAC-c-sh SDUs.
-- 255 = Unlimited number of FACH data frames
FACH-InformationList ::= SEQUENCE (SIZE(0.. maxNrOfFACHs)) OF FACH-InformationItem
FACH-InformationItem ::= SEQUENCE {
    transportFormatSet
                                    TransportFormatSet,
    iE-Extensions
                                    ProtocolExtensionContainer { { FACH-InformationItem-ExtIEs } } OPTIONAL,
    . . .
}
FACH-InformationItem-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
Fast-Reconfiguration-Mode ::= ENUMERATED {fast,...}
Fast-Reconfiguration-Permission ::= ENUMERATED {allowed,...}
```

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FDD-DCHs-to-Modify ::= SEQUENCE (SIZE (1..maxNrOfDCHs)) OF FDD-DCHs-to-ModifyItem FDD-DCHs-to-ModifyItem ::= SEQUENCE { ul-FP-Mode UL-FP-Mode OPTIONAL, toAWS TOAWS OPTIONAL. toAWE TOAWE OPTIONAL, transportBearerRequestIndicator TransportBearerRequestIndicator, dCH-SpecificInformationList FDD-DCHs-to-ModifySpecificInformationList, iE-Extensions ProtocolExtensionContainer { {FDD-DCHs-to-ModifyItem-ExtIEs} } OPTIONAL, FDD-DCHs-to-ModifyItem-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= { { ID id-TnlOos CRITICALITY ignore EXTENSION TnlOos PRESENCE optional }, . . . 3 FDD-DCHs-to-ModifySpecificInformationList ::= SEOUENCE (SIZE (1..maxNrOfDCHs)) OF FDD-DCHs-to-ModifySpecificItem FDD-DCHs-to-ModifySpecificItem ::= SEQUENCE { dCH-TD DCH-ID, ul-TransportformatSet TransportFormatSet OPTIONAL, dl-TransportformatSet TransportFormatSet OPTIONAL, OPTIONAL, allocationRetentionPriority AllocationRetentionPriority frameHandlingPriority FrameHandlingPriority OPTIONAL, not-Used-dRACControl NULL OPTIONAL. iE-Extensions ProtocolExtensionContainer { {FDD-DCHs-to-ModifySpecificItem-ExtIEs} } OPTIONAL, . . . FDD-DCHs-to-ModifySpecificItem-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= { ID id-Guaranteed-Rate-Information CRITICALITY ignore EXTENSION Guaranteed-Rate-Information PRESENCE optional ID id-TrafficClass CRITICALITY ignore EXTENSION TrafficClass PRESENCE optional }| PRESENCE optional }. ID id-Unidirectional-DCH-Indicator CRITICALITY reject EXTENSION Unidirectional-DCH-Indicator . . . FDD-DL-ChannelisationCodeNumber ::= INTEGER (0..511) -- According to the mapping in TS 25.213 [27]. The maximum value is equal to the DL spreading factor -1--FDD-DL-CodeInformation ::= SEQUENCE (SIZE (1..maxNrOfDL-Codes)) OF FDD-DL-CodeInformationItem FDD-DL-CodeInformationItem ::= SEQUENCE { dl-ScramblingCode DL-ScramblingCode, fDD-DL-ChannelisationCodeNumber FDD-DL-ChannelisationCodeNumber, transmission-Gap-Pattern-Sequence-ScramblingCode-Information Transmission-Gap-Pattern-Sequence-ScramblingCode-Information OPTIONAL, ProtocolExtensionContainer { {FDD-DL-CodeInformationItem-ExtIEs} } OPTIONAL, iE-Extensions FDD-DL-CodeInformationItem-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= { . . .

```
FDD-TPC-DownlinkStepSize ::= ENUMERATED {
    step-size0-5,
    step-size1,
    step-size1-5,
    step-size2,
    . . .
}
SchedulingPriorityIndicator
                                        ::= INTEGER { lowest(0), highest(15) } (0..15)
F-DPCH-SlotFormat ::= INTEGER (0..9)
F-DPCH-SlotFormatSupportRequest ::= NULL
FirstRLS-Indicator ::= ENUMERATED {
    first-RLS,
    not-first-RLS
}
FNReportingIndicator ::= ENUMERATED {
    fN-reporting-required,
    fN-reporting-not-required
}
FPACH-Information ::= SEQUENCE {
    timeSlotLCR
                                 TimeSlotLCR,
    tDD-ChannelisationCodeLCR
                                TDD-ChannelisationCodeLCR,
    midambleShiftLCR
                                MidambleShiftLCR,
    wΤ
                                INTEGER (1..4),
    . . .
FrameHandlingPriority
                                 ::= INTEGER { lowest(0), highest(15) } (0..15)
FrameOffset
                        ::= INTEGER (0..255)
-- Frames
FrequencyBandIndicator
                            ::= ENUMERATED {
    bandI,
    bandII,
    bandIII,
    bandIV,
    bandV,
    bandVI.
    bandVII,
    bandVIII,
    bandIX,
    bandX,
    bandXI,
    bandXII,
    bandXIII,
    bandXIV,
    bandXV,
```

bandXVI, bandXVII. bandXVIII, bandXIX, bandXX, bandXXI, bandXXII, . . . -- G GapLength ::= INTEGER (1..14) -- Unit Slot GapDuration ::= INTEGER (1..144,...) -- Unit Frame GA-Cell ::= SEQUENCE (SIZE (1..maxNrOfPoints)) OF SEOUENCE { cell-GAIgeographicalCoordinate GeographicalCoordinate, iE-Extensions ProtocolExtensionContainer { {GA-Cell-ExtIEs} } OPTIONAL, . . . GA-Cell-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= { . . . GA-CellAdditionalShapes ::= CHOICE { pointWithUncertainty GA-PointWithUnCertainty, pointWithUncertaintyEllipse GA-PointWithUnCertaintyEllipse, GA-PointWithAltitude, pointWithAltitude pointWithAltitudeAndUncertaintyEllipsoid GA-PointWithAltitudeAndUncertaintyEllipsoid, ellipsoidArc GA-EllipsoidArc, . . . ι GA-AltitudeAndDirection ::= SEQUENCE ENUMERATED {height, depth}, directionOfAltitude altitude INTEGER (0..32767), . . . } GA-EllipsoidArc ::= SEQUENCE { geographicalCoordinates GeographicalCoordinate, innerRadius INTEGER (0..65535), uncertaintyRadius INTEGER (0..127), offsetAngle INTEGER (0..179), includedAngle INTEGER (0..179), confidence INTEGER (0..127), iE-Extensions ProtocolExtensionContainer { { GA-EllipsoidArc-ExtIEs } } OPTIONAL, . . .

. . .

}

```
}
GA-EllipsoidArc-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
}
GANSS-AddClockModels ::= CHOICE {
    navClockModel
                                    GANSS-NAVclockModel,
    cnavClockModel
                                    GANSS-CNAVclockModel,
    qlonassClockModel
                                    GANSS-GLONASSclockModel,
    sbasClockModel
                                    GANSS-SBASclockModel,
    . . .
3
GANSS-AddIonoModelReq ::= BIT STRING (SIZE(2))
GANSS-AddNavigationModelsReg ::= BOOLEAN
GANSS-AddOrbitModels ::= CHOICE {
    navKeplerianSet
                                     GANSS-NavModel-NAVKeplerianSet,
    cnavKeplerianSet
                                    GANSS-NavModel-CNAVKeplerianSet,
    glonassECEF
                                    GANSS-NavModel-GLONASSecef,
    sbasECEF
                                    GANSS-NavModel-SBASecef,
    . . .
GANSS-AddUTCModelsReq ::= BOOLEAN
GANSS-Additional-Ionospheric-Model ::= SEQUENCE {
    dataID
                                        BIT STRING (SIZE(2)),
    alpha-beta-parameters
                                        GPS-Ionospheric-Model,
    ie-Extensions
                                         ProtocolExtensionContainer { { GANSS-Additional-Ionospheric-Model-ExtIEs } }
                                                                                                                           OPTIONAL,
    . . .
ļ
GANSS-Additional-Ionospheric-Model-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
}
GANSS-Additional-Navigation-Models ::= SEQUENCE {
    ganss-Transmission-Time
                                GANSS-Transmission-Time,
    non-broadcastIndication
                                ENUMERATED { true }
                                                                                                                                  OPTIONAL,
    ganssSatInfoNavList
                                Ganss-Sat-Info-AddNavList,
    ie-Extensions
                                ProtocolExtensionContainer { { GANSS-Additional-Navigation-Models-ExtIEs } } OPTIONAL,
    . . .
}
GANSS-Additional-Navigation-Models-Extles RNSAP-PROTOCOL-EXTENSION ::= {
```

```
GANSS-Additional-Time-Models ::= SEQUENCE (SIZE (1..maxGANSS-1)) OF GANSS-Time-Model
```

```
GANSS-Additional-UTC-Models ::= CHOICE {
    utcModel1
                        GANSS-UTCmodelSet1,
    utcModel2
                        GANSS-UTCmodelSet2,
    utcModel3
                        GANSS-UTCmodelSet3,
    . . .
}
GANSS-Almanac ::= SEQUENCE {
    ganss-wk-number
                                     INTEGER(0..255),
    qANSS-AlmanacModel
                                     CHOICE {
        gANSS-keplerianParameters
                                         SEQUENCE {
                                             INTEGER(0..255),
            t-oa
            iod-a
                                             INTEGER(0..3),
            qANSS-SatelliteInformationKP
                                             GANSS-SatelliteInformationKP,
            ie-Extensions
                                             ProtocolExtensionContainer { { GANSS-KeplerianParametersAlm-ExtIEs } } OPTIONAL,
            . . .
        },
        ...,
        extension-GANSS-AlmanacModel
                                             Extension-GANSS-AlmanacModel
    },
    ie-Extensions
                                     ProtocolExtensionContainer { { GANSS-Almanac-ExtIEs } }
                                                                                                                       OPTIONAL,
    . . .
}
GANSS-KeplerianParametersAlm-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
}
Extension-GANSS-AlmanacModel
                                ::= ProtocolIE-Single-Container {{ Extension-GANSS-AlmanacModel-IE }}
Extension-GANSS-AlmanacModel-IE RNSAP-PROTOCOL-IES ::= {
    { ID id-GANSS-alm-keplerianNAVAlmanac
                                                     CRITICALITY
                                                                      ignore
                                                                                  TYPE
                                                                                          GANSS-alm-keplerianNAVAlmanac
    PRESENCE mandatory }
    { ID id-GANSS-alm-keplerianReducedAlmanac
                                                     CRITICALITY
                                                                      iqnore
                                                                                  TYPE
                                                                                          GANSS-alm-keplerianReducedAlmanac
    PRESENCE
                mandatory } |
    { ID id-GANSS-alm-keplerianMidiAlmanac
                                                     CRITICALITY
                                                                      iqnore
                                                                                  TYPE
                                                                                          GANSS-alm-keplerianMidiAlmanac
                mandatory } |
    PRESENCE
    { ID id-GANSS-alm-keplerianGLONASS
                                                     CRITICALITY
                                                                      ignore
                                                                                  TYPE
                                                                                          GANSS-alm-keplerianGLONASS
    PRESENCE
                mandatory } |
    { ID id-GANSS-alm-ecefSBASAlmanac
                                                     CRITICALITY
                                                                      ignore
                                                                                  TYPE
                                                                                          GANSS-alm-ecefSBASAlmanac
    PRESENCE
                mandatory }
GANSS-alm-keplerianNAVAlmanac ::= SEQUENCE {
    t-oa
                                INTEGER (0..255),
    sat-info-NAVkpList
                                GANSS-SAT-Info-Almanac-NAVkpList,
```

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```
ProtocolExtensionContainer { { GANSS-ALM-NAVKeplerianSet-ExtIEs } }
    ie-Extensions
                                                                                                                       OPTIONAL,
    . . .
GANSS-ALM-NAVKeplerianSet-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
}
GANSS-alm-keplerianReducedAlmanac ::= SEQUENCE {
    t-oa
                                INTEGER (0..255),
    sat-info-REDkpList
                                GANSS-SAT-Info-Almanac-REDkpList,
                                ProtocolExtensionContainer { { GANSS-ALM-ReducedKeplerianSet-ExtIEs } }
    ie-Extensions
                                                                                                                       OPTIONAL,
    . . .
GANSS-ALM-ReducedKeplerianSet-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
}
GANSS-alm-keplerianMidiAlmanac ::= SEQUENCE {
    t-oa
                            INTEGER (0..255),
    sat-info-MIDIkpList
                                GANSS-SAT-Info-Almanac-MIDIkpList,
                                ProtocolExtensionContainer { { GANSS-ALM-MidiAlmanacSet-ExtIEs } }
    ie-Extensions
                                                                                                                       OPTIONAL,
    . . .
}
GANSS-ALM-MidiAlmanacSet-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
}
GANSS-alm-keplerianGLONASS ::= SEQUENCE {
    sat-info-GLOkpList
                                GANSS-SAT-Info-Almanac-GLOkpList,
    ie-Extensions
                                ProtocolExtensionContainer { { GANSS-ALM-GlonassAlmanacSet-ExtIEs } }
                                                                                                                       OPTIONAL,
    . . .
}
GANSS-ALM-GlonassAlmanacSet-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
}
GANSS-alm-ecefSBASAlmanac ::= SEQUENCE {
    sat-info-SBASecefList
                                GANSS-SAT-Info-Almanac-SBASecefList,
```

```
ProtocolExtensionContainer { { GANSS-ALM-ECEFsbasAlmanacSet-ExtIEs } }
   ie-Extensions
                                                                                                                 OPTIONAL,
    . . .
}
GANSS-ALM-ECEFsbasAlmanacSet-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
}
GANSS-Almanac-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
   . . .
}
GANSS-Auxiliary-Information ::= CHOICE {
    ganssID1 GANSS-AuxInfoGANSS-ID1,
                                          -- This choice may only be present if GANSS ID indicates Modernized GPS
   ganssID3
               GANSS-AuxInfoGANSS-ID3, -- This choice may only be present if GANSS ID indicates GLONASS
    . . .
GANSS-AuxInfoGANSS-ID1 ::= SEQUENCE (SIZE(1.. maxGANSSSat)) OF SEQUENCE {
    svID
            INTEGER(0..63),
    signalsAvailable BIT STRING (SIZE(8)),
   ie-Extensions ProtocolExtensionContainer { { GANSS-AuxInfoGANSS-ID1-element-ExtIEs } } OPTIONAL,
    . . .
}
GANSS-AuxInfoGANSS-ID1-element-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
}
GANSS-AuxInfoGANSS-ID3 ::= SEQUENCE (SIZE(1.. maxGANSSSat)) OF SEQUENCE {
    svID
           INTEGER(0..63),
    signalsAvailable BIT STRING (SIZE(8)),
    channelNumber INTEGER (-7..13),
                  ProtocolExtensionContainer { { GANSS-AuxInfoGANSS-ID3-element-ExtIEs } } OPTIONAL,
   ie-Extensions
    . . .
}
GANSS-AuxInfoGANSS-ID3-element-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
}
GANSS-AuxInfoReg ::= BOOLEAN
GANSS-Clock-Model ::= SEQUENCE (SIZE (1..maxGANSSClockMod)) OF SEQUENCE
    t-oc
                                       BIT STRING (SIZE (14)),
    a-i2
                                       BIT STRING (SIZE (12)),
    a-i1
                                       BIT STRING (SIZE (18)),
    a-i0
                                       BIT STRING (SIZE (28)),
    t-gd
                                       BIT STRING (SIZE (10))
                                                                                                                  OPTIONAL,
```

```
model-id
                                         INTEGER(0..1,...)
                                                                                                                       OPTIONAL,
    ie-Extensions
                                         ProtocolExtensionContainer { { GANSS-ClockModelItem-ExtIEs } }
                                                                                                                       OPTIONAL
    . . .
GANSS-ClockModelItem-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
}
GANSS-CNAVclockModel ::= SEQUENCE {
                       BIT STRING (SIZE (11)),
    cnavToc
    cnavTop
                        BIT STRING (SIZE (11)),
    cnavURA0
                        BIT STRING (SIZE (5)),
    cnavURA1
                        BIT STRING (SIZE (3)),
                        BIT STRING (SIZE (3)),
    cnavURA2
    cnavAf2
                        BIT STRING (SIZE (10)),
    cnavAf1
                        BIT STRING (SIZE (20)),
    cnavAf0
                        BIT STRING (SIZE (26)),
    cnavTqd
                        BIT STRING (SIZE (13)),
    cnavISCl1cp
                                                                                          OPTIONAL,
                        BIT STRING (SIZE (13))
    cnavISC11cd
                        BIT STRING (SIZE (13))
                                                                                          OPTIONAL,
    cnavISCl1ca
                        BIT STRING (SIZE (13))
                                                                                          OPTIONAL,
    cnavISC12c
                        BIT STRING (SIZE (13))
                                                                                          OPTIONAL,
    cnavISC15i5
                        BIT STRING (SIZE (13))
                                                                                          OPTIONAL,
    cnavISC15q5
                        BIT STRING (SIZE (13))
                                                                                          OPTIONAL,
    ie-Extensions
                        ProtocolExtensionContainer { { GANSS-CNAVclockModel-ExtIEs } }
                                                                                          OPTIONAL,
    . . .
GANSS-CNAVclockModel-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
}
GANSS-Common-Data ::= SEQUENCE {
    ganss-Ionospheric-Model
                                         GANSS-Ionospheric-Model
    OPTIONAL,
    ganss-Rx-Pos
                                         GANSS-RX-Pos
    OPTIONAL,
                                         ProtocolExtensionContainer { { GANSS-Common-Data-ExtIEs } }
    ie-Extensions
                                                                                                                       OPTIONAL,
    . . .
GANSS-Common-Data-ExtIEs RNSAP-PROTOCOL-EXTENSION ::=
                                                                                                                           PRESENCE optional }|
    { ID id-GANSS-Additional-Ionospheric-Model
                                                     CRITICALITY ignore EXTENSION GANSS-Additional-Ionospheric-Model
    { ID id-GANSS-Earth-Orientation-Parameters
                                                                                                                           PRESENCE optional },
                                                     CRITICALITY ignore EXTENSION GANSS-Earth-Orientation-Parameters
    . . .
}
GANSS-CommonDataInfoReq ::= SEQUENCE {
    ionospheric-Model
                                         BOOLEAN
    OPTIONAL,
```

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```

```
ProtocolExtensionContainer { { GANSS-CommonDataInfoReq-ExtIEs } }
    ie-Extensions
                                                                                                                       OPTIONAL,
    . . .
GANSS-CommonDataInfoReg-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    {ID id-GANSS-AddIonoModelReg
                                         CRITICALITY ignore EXTENSION
                                                                          GANSS-AddIonoModelReg
    PRESENCE optional }
    {ID id-GANSS-EarthOrientParaReg
                                         CRITICALITY ignore EXTENSION
                                                                          GANSS-EarthOrientParaReg
                                                                                                                       PRESENCE optional } ,
    . . .
GANSS-Data-Bit-Assistance ::= SEQUENCE {
    ganssTod
                                         INTEGER (0...59,...),
    dataBitAssistancelist
                                         GANSS-DataBitAssistanceList,
    ie-Extensions
                                         ProtocolExtensionContainer { { GANSS-Data-Bit-Assistance-ExtIEs } }
                                                                                                                       OPTIONAL,
    . . .
GANSS-Data-Bit-Assistance-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
}
GANSS-DataBitAssistanceList ::= SEQUENCE (SIZE (1..maxGANSSSat)) OF GANSS-DataBitAssistanceItem
GANSS-DataBitAssistanceItem ::= SEQUENCE {
    satId
                                     INTEGER(0..63),
    dataBitAssistanceSgnList
                                    GANSS-DataBitAssistanceSgnList,
                                     ProtocolExtensionContainer { { GANSS-DataBitAssistanceItem-ExtIEs } }
    ie-Extensions
                                                                                                                       OPTIONAL,
    . . .
GANSS-DataBitAssistanceItem-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
GANSS-DataBitAssistanceSgnList ::= SEQUENCE (SIZE (1..maxSgnType)) OF GANSS-DataBitAssistanceSgnItem
GANSS-DataBitAssistanceSqnItem ::= SEQUENCE {
    ganss-SignalId
                            GANSS-Signal-ID,
    ganssDataBits
                            BIT STRING (SIZE (1..1024)),
    ie-Extensions
                            ProtocolExtensionContainer { { GANSS-DataBitAssistanceSgnItem-ExtIEs } }
                                                                                                                       OPTIONAL,
    . . .
GANSS-DataBitAssistanceSqnItem-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
}
GANSS-Data-Bit-Assistance-ReqItem ::= SEQUENCE {
    ganssTod
                                             INTEGER (0..86399),
```

```
ganss-Data-Bit-Assistance-RegList
                                           GANSS-Data-Bit-Assistance-ReqList,
   iE-Extensions
                                           ProtocolExtensionContainer { { GANSS-Data-Bit-Assistance-RegItem-ExtIEs } } OPTIONAL,
    . . .
GANSS-Data-Bit-Assistance-RegItem-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
GANSS-Data-Bit-Assistance-ReqList ::= SEQUENCE {
                           BIT STRING (SIZE (8)),
   dGANSS-Signal-ID
   ganss-DataBitInterval
                                      INTEGER(0..15),
   ganss-SatelliteInfo
                                      SEQUENCE (SIZE (1..maxGANSSSat)) OF INTEGER(0..63)
       OPTIONAL.
   iE-Extensions
                                          ProtocolExtensionContainer { { GANSS-Data-Bit-Assistance-ReqList-ExtIEs } } OPTIONAL,
    . . .
3
GANSS-Data-Bit-Assistance-RegList-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
   . . .
GANSS-DeltaUT1 ::= SEQUENCE {
   b1 BIT STRING (SIZE(11)),
   b2
                    BIT STRING (SIZE(10)),
   ie-Extensions ProtocolExtensionContainer { { GANSS-DeltaUT1-ExtIEs } }
                                                                                  OPTIONAL,
   . . .
}
GANSS-DeltaUT1-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
}
GANSS-Earth-Orientation-Parameters ::= SEQUENCE {
   teop
             BIT STRING (SIZE (16)),
   pmX
                    BIT STRING (SIZE (21)),
   pmXdot
                    BIT STRING (SIZE (15)),
   pmY
                     BIT STRING (SIZE (21)),
   pmYdot
                    BIT STRING (SIZE (15)),
   deltaUT1
                    BIT STRING (SIZE (31)),
   deltaUT1dot
                      BIT STRING (SIZE (19)),
                       ProtocolExtensionContainer { { GANSS-Earth-Orientation-Parameters-ExtIEs } }
   ie-Extensions
                                                                                                                 OPTIONAL,
    . . .
GANSS-Earth-Orientation-Parameters-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
GANSS-EarthOrientParaReg ::= BOOLEAN
GANSS-GenericDataInfoReqList ::= SEQUENCE (SIZE(1..maxNoGANSS)) OF GANSS-GenericDataInfoReqItem
GANSS-GenericDataInfoReqItem ::= SEQUENCE {
```

ganss-Id	GANSS-ID	
OPTIONAL, ganss-Navigation-Model-And-Time-Recovery	BOOLEAN	OPTIONAL,
ganss-Navigacion-Model-And-Time-Recovery ganss-Time-Model-GNSS-GNSS	BIT STRING (SIZE (9))	OPTIONAL,
ganss-UTC-Model	BOOLEAN	OPTIONAL,
ganss-Almanac	BOOLEAN	OPTIONAL,
ganss-Real-Time-Integrity	BOOLEAN	OPTIONAL,
ganss-Data-Bit-Assistance-Req	GANSS-Data-Bit-Assistance-ReqItem	OPTIONAL,
ie-Extensions	ProtocolExtensionContainer { { GANSS-GenericDataInfoReqItem-ExtIF	Es } } OPTIONAL,
}		
·	<i>.</i>	
GANSS-GenericDataInfoReqItem-ExtIEs RNSAP-PRO	· ·	
{ID id-GANSS-AddNavigationModelsReq CRIT	ICALITY ignore EXTENSION GANSS-AddNavigationModelsReq	PRESENCE optional}
{ID id-GANSS-AddUTCModelsReq CRIT:	ICALITY ignore EXTENSION GANSS-AddUTCModelsReq	PRESENCE optional}
{ID id-GANSS-AuxInfoReq CRIT]	ICALITY ignore EXTENSION GANSS-AuxInfoReq	PRESENCE optional}
The following IE shall be present if `GANSS-ID' in `GANSS-GenericDataInfoReqItem' is `0' (SBAS)		
{ID id-GANSS-SBAS-ID CRIT	ICALITY ignore EXTENSION GANSS-SBAS-ID PRESENCE	optional} ,
}		
GANSS-Generic-Data ::= SEQUENCE (SIZE(1maxNoGANSS)) OF GANSS-Generic-DataItem		
GANSS-Generic-DataItem ::= SEQUENCE {	GANSS-ID	
ganss-Id OPTIONAL,	GANSS-1D	
dganss-Correction	DGANSSCorrections	
OPTIONAL,		
ganss-Navigation-Model-And-Time-Recovery OPTIONAL,	GANSS-Navigation-Model-And-Time-Recovery	
ganss-Time-Model OPTIONAL,	GANSS-Time-Model	
ganss-UTC-TIME	GANSS-UTC-Model	
OPTIONAL, qanss-Almanac	GANSS-Almanac	
OPTIONAL,		
ganss-Real-Time-Integrity OPTIONAL,	GANSS-Real-Time-Integrity	
ganss-Data-Bit-Assistance OPTIONAL,	GANSS-Data-Bit-Assistance	
ie-Extensions	<pre>ProtocolExtensionContainer { { GANSS-Generic-DataItem-ExtIEs } }</pre>	OPTIONAL,
J		
GANSS-Generic-DataItem-ExtIEs RNSAP-PROTOCOL-	-EXTENSION ::= {	
{ ID id-GANSS-Additional-Time-Models	CRITICALITY ignore EXTENSION GANSS-Additional-Time-Models	PRESENCE optional }
{ ID id-GANSS-Additional-Navigation-Model	5	- , ,
{ ID id-GANSS-Additional-UTC-Models optional }	CRITICALITY ignore EXTENSION GANSS-Additional-UTC-Models	PRESENCE
operonar 1		

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```
{ ID id-GANSS-Auxiliary-Information
                                                     CRITICALITY ignore EXTENSION GANSS-Auxiliary-Information
                                                                                                                                           PRESENCE
optional }|
    -- The following element shall be present if 'GANSS-ID' in 'GANSS-Generic-DataItem' is '0' ('SBAS')
    { ID id-GANSS-SBAS-ID
                                                     CRITICALITY ignore EXTENSION GANSS-SBAS-ID
                                                                                                                           PRESENCE optional },
    . . .
3
GANSS-GLONASSclockModel ::= SEQUENCE {
    gloTau
                          BIT STRING (SIZE (22)),
                            BIT STRING (SIZE (11)),
    qloGamma
    qloDeltaTau
                           BIT STRING (SIZE (5))
                                                                                                  OPTIONAL,
                            ProtocolExtensionContainer { { GANSS-GLONASSclockModel-ExtIEs } }
    ie-Extensions
                                                                                                  OPTIONAL.
    . . .
GANSS-GLONASSclockModel-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
}
GANSS-ID ::= INTEGER(0..7,...)
GANSS-Information ::= SEQUENCE {
    qANSS-CommonDataInfoReq
                                         GANSS-CommonDataInfoReg
                                                                                                                           OPTIONAL,
    qANSS-GenericDataInfoReqList
                                         GANSS-GenericDataInfoRegList
                                                                                                                           OPTIONAL,
                                         ProtocolExtensionContainer { { GANSS-Information-ExtIEs } }
    ie-Extensions
                                                                                                                       OPTIONAL,
    . . .
}
GANSS-Information-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
GANSS-Ionospheric-Model ::= SEQUENCE {
    alpha-zero-ionos
                                         BIT STRING (SIZE (12)),
    alpha-one-ionos
                                         BIT STRING (SIZE (12)),
    alpha-two-ionos
                                         BIT STRING (SIZE (12)),
    gANSS-IonosphereRegionalStormFlags GANSS-IonosphereRegionalStormFlags
                                                                                                                       OPTIONAL,
                                         ProtocolExtensionContainer { { GANSS-Ionospheric-Model-ExtIEs } }
    ie-Extensions
                                                                                                                       OPTIONAL,
    . . .
GANSS-Ionospheric-Model-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
}
GANSS-IonosphereRegionalStormFlags ::= SEQUENCE {
    storm-flag-one
                                         BOOLEAN,
    storm-flag-two
                                         BOOLEAN,
    storm-flag-three
                                         BOOLEAN
    storm-flag-four
                                         BOOLEAN,
```

```
storm-flag-five
                                        BOOLEAN,
    ie-Extensions
                                        ProtocolExtensionContainer { { GANSS-IonosphereRegionalStormFlags-ExtIEs } } OPTIONAL,
    . . .
GANSS-IonosphereRegionalStormFlags-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
}
GANSS-NAVclockModel ::= SEQUENCE {
    navToc
                           BIT STRING (SIZE (16)),
   navaf2
                           BIT STRING (SIZE (8)),
   navaf1
                          BIT STRING (SIZE (16)),
   navaf0
                          BIT STRING (SIZE (22)),
   navTqd
                          BIT STRING (SIZE (8)),
                           ProtocolExtensionContainer { { GANSS-NAVclockModel-ExtIEs } }
    ie-Extensions
                                                                                            OPTIONAL,
    . . .
}
GANSS-NAVclockModel-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
GANSS-Navigation-Model-And-Time-Recovery ::= SEQUENCE {
    ganss-Transmission-Time
                                GANSS-Transmission-Time,
                                ENUMERATED{true}
    non-broadcastIndication
                                                        OPTIONAL,
                                GANSS-Sat-Info-Nav,
    qanssSatInfoNav
                                ProtocolExtensionContainer { { GANSS-Navigation-Model-And-Time-Recovery-ExtlEs } } OPTIONAL,
    ie-Extensions
    . . .
GANSS-Navigation-Model-And-Time-Recovery-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
}
GANSS-NavModel-CNAVKeplerianSet ::= SEQUENCE {
    cnavTop
                           BIT STRING (SIZE (11)),
   cnavURAindex
                           BIT STRING (SIZE (5)),
    cnavDeltaA
                           BIT STRING (SIZE (26)),
    cnavAdot
                           BIT STRING (SIZE (25)),
    cnavDeltaNo
                           BIT STRING (SIZE (17)),
    cnavDeltaNoDot
                           BIT STRING (SIZE (23)),
                           BIT STRING (SIZE (33)),
    cnavMo
    cnavE
                           BIT STRING (SIZE (33)),
    cnavOmega
                           BIT STRING (SIZE (33)),
    cnavOMEGA0
                            BIT STRING (SIZE (33)),
    cnavDeltaOmegaDot
                            BIT STRING (SIZE (17)),
    cnavIo
                            BIT STRING (SIZE (33)),
    cnavIoDot
                            BIT STRING (SIZE (15)),
    cnavCis
                           BIT STRING (SIZE (16)),
    cnavCic
                           BIT STRING (SIZE (16)),
```

```
cnavCrs
                              BIT STRING (SIZE (24)),
    cnavCrc
                            BIT STRING (SIZE (24)),
    cnavCus
                            BIT STRING (SIZE (21)),
    cnavCuc
                            BIT STRING (SIZE (21)),
    ie-Extensions
                             ProtocolExtensionContainer { { GANSS-NavModel-CNAVKeplerianSet-ExtIEs } }
                                                                                                                                OPTIONAL,
    . . .
}
GANSS-NavModel-CNAVKeplerianSet-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
GANSS-NavModel-GLONASSecef ::= SEQUENCE {
    aloEn
             BIT STRING (SIZE (5)),
    qloP1
                            BIT STRING (SIZE(2)),
    qloP2
                           BIT STRING (SIZE (1)),
    qloM
                            BIT STRING (SIZE (2))
    OPTIONAL,
                      BIT STRING (SIZE (27)),
BIT STRING (SIZE (24)),
BIT STRING (SIZE (5)),
BIT STRING (SIZE (27)),
    qloX
    qloXdot
    qloXdotdot
    qloY
                         BIT STRING (SIZE (24)),
BIT STRING (SIZE (24)),
BIT STRING (SIZE (5)),
    qloYdot
    qloYdotdot
                          BIT STRING (SIZE (27)),
BIT STRING (SIZE (24)),
    qloZ
    qloZdot
    qloZdotdot
                            BIT STRING (SIZE (5)),
                            ProtocolExtensionContainer { { GANSS-NavModel-GLONASSecef-ExtIEs } }
    ie-Extensions
                                                                                                                                OPTIONAL,
    . . .
}
GANSS-NavModel-GLONASSecef-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
}
GANSS-NavModel-NAVKeplerianSet ::= SEQUENCE {
    navURA BIT STRING (SIZE (4)),
   navFitFlagBIT STRING (SIZE (1)),navToeBIT STRING (SIZE (16)),navOmegaBIT STRING (SIZE (16)),navDeltaNBIT STRING (SIZE (16)),
                            BIT STRING (SIZE (32)),
    navM0
    navOmegaADot
                              BIT STRING (SIZE (24)),
    navE
                              BIT STRING (SIZE (32)),
    navIDot
                              BIT STRING (SIZE (14)),
    navAPowerHalf
                              BIT STRING (SIZE (32)),
    navI0
                              BIT STRING (SIZE (32)),
                              BIT STRING (SIZE (32)),
    navOmegaA0
    navCrs
                             BIT STRING (SIZE (16)),
    navCis
                            BIT STRING (SIZE (16)),
    navCus
                              BIT STRING (SIZE (16)),
    navCrc
                              BIT STRING (SIZE (16)),
```

```
navCic
                            BIT STRING (SIZE (16)),
    navCuc
                            BIT STRING (SIZE (16)),
    ie-Extensions
                            ProtocolExtensionContainer { { GANSS-NavModel-NAVKeplerianSet-ExtIEs } }
                                                                                                                     OPTIONAL
    . . .
GANSS-NavModel-NAVKeplerianSet-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
GANSS-NavModel-SBASecef ::= SEQUENCE {
    -- the following IE shall be present if 'GANSS-SBASclockModel' in 'GANSS-AddClockModels' is not included in 'Ganss-Sat-Info-AddNavList'
    sbasTo
                           BIT STRING (SIZE (13))
                                                                                                 OPTIONAL,
    sbasAccuracy
                         BIT STRING (SIZE (4)),
                          BIT STRING (SIZE (30)),
    sbasXq
    sbasYq
                         BIT STRING (SIZE (30)),
    sbasZq
                         BIT STRING (SIZE (25)),
    sbasXqDot
                         BIT STRING (SIZE (17)),
    sbasYqDot
                           BIT STRING (SIZE (17)),
    sbasZgDot
                           BIT STRING (SIZE (18)),
    sbasXqDotDot
                           BIT STRING (SIZE (10)),
    sbaqYqDotDot
                           BIT STRING (SIZE (10)),
    sbasZqDotDot
                           BIT STRING (SIZE (10)),
    ie-Extensions
                           ProtocolExtensionContainer { { GANSS-NavModel-SBASecef-ExtIEs } }
                                                                                                 OPTIONAL,
    . . .
GANSS-NavModel-SBASecef-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
}
GANSS-Orbit-Model ::= CHOICE {
    gANSS-keplerianParameters
                                        SEQUENCE {
        toe-nav
                                            BIT STRING (SIZE (14)),
        ganss-omega-nav
                                            BIT STRING (SIZE (32)),
        delta-n-nav
                                            BIT STRING (SIZE (16)),
        m-zero-nav
                                            BIT STRING (SIZE (32)),
        omegadot-nav
                                            BIT STRING (SIZE (24)),
        ganss-e-nav
                                            BIT STRING (SIZE (32)),
        idot-nav
                                            BIT STRING (SIZE (14)),
        a-sqrt-nav
                                            BIT STRING (SIZE (32)),
        i-zero-nav
                                            BIT STRING (SIZE (32)),
        omega-zero-nav
                                            BIT STRING (SIZE (32)),
        c-rs-nav
                                            BIT STRING (SIZE (16)),
        c-is-nav
                                            BIT STRING (SIZE (16)),
        c-us-nav
                                            BIT STRING (SIZE (16)),
        c-rc-nav
                                            BIT STRING (SIZE (16)),
        c-ic-nav
                                            BIT STRING (SIZE (16)),
        c-uc-nav
                                            BIT STRING (SIZE (16)),
        ie-Extensions
                                            ProtocolExtensionContainer { { GANSS-KeplerianParametersOrb-ExtIEs } }
                                                                                                                         OPTIONAL,
```

```
. . .
    },
    . . .
GANSS-KeplerianParametersOrb-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
}
GANSS-Real-Time-Integrity ::= SEQUENCE (SIZE (1..maxGANSSSat)) OF SEQUENCE {
    bad-ganss-satId
                                         INTEGER(0..63),
    bad-ganss-signalId
                                         BIT STRING(SIZE(8))
                                                                                                                       OPTIONAL.
                                         ProtocolExtensionContainer { { GANSS-RealTimeInformationItem-ExtIEs } }
    ie-Extensions
                                                                                                                       OPTIONAL,
    . . .
GANSS-RealTimeInformationItem-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
}
GANSS-RX-Pos ::= SEQUENCE {
    latitudeSign
                            ENUMERATED {north, south},
    degreesOfLatitude
                            INTEGER(0..2147483647),
    degreesOfLongitude
                            INTEGER(-2147483648..2147483647),
    directionOfAltitude
                            ENUMERATED { height, depth },
    altitude
                            INTEGER(0..32767),
    ie-Extensions
                            ProtocolExtensionContainer { { GANSS-RX-Pos-ExtIEs } } OPTIONAL,
    . . .
GANSS-RX-Pos-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
}
GANSS-SatelliteInformationKP ::= SEQUENCE (SIZE (1..maxGANSSSatAlmanac)) OF SEQUENCE {
    satId
                                         INTEGER(0..63),
    ganss-e-alm
                                         BIT STRING (SIZE (11)),
    ganss-delta-I-alm
                                         BIT STRING (SIZE (11)),
    ganss-omegadot-alm
                                         BIT STRING (SIZE (11)),
    ganss-svhealth-alm
                                         BIT STRING (SIZE (4)),
    ganss-delta-a-sqrt-alm
                                         BIT STRING (SIZE (17)),
    ganss-omegazero-alm
                                         BIT STRING (SIZE (16)),
                                         BIT STRING (SIZE (16)),
    ganss-m-zero-alm
    ganss-omega-alm
                                         BIT STRING (SIZE (16)),
    ganss-af-zero-alm
                                         BIT STRING (SIZE (14)),
    ganss-af-one-alm
                                         BIT STRING (SIZE (11)),
    ie-Extensions
                                         ProtocolExtensionContainer { { GANSS-SatelliteInformationKPItem-ExtIEs } } OPTIONAL,
```

```
. . .
}
GANSS-SatelliteInformationKPItem-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
     . . .
}
Ganss-Sat-Info-AddNavList ::= SEQUENCE (SIZE (1..maxGANSSSat)) OF SEQUENCE {
    satIdINTEGER (0...63),svHealthBIT STRING (SIZE (6)),iodBIT STRING (SIZE (11)),ganssAddClockModelsGANSS-AddClockModels,ganssAddOrbitModelsProtocolExtensionContain
                                          ProtocolExtensionContainer { { Ganss-Sat-Info-AddNavList-ExtIEs } } OPTIONAL,
     . . .
Ganss-Sat-Info-AddNavList-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
     . . .
}
GANSS-SAT-Info-Almanac-GLOkpList ::= SEQUENCE (SIZE (1.. maxGANSSSatAlmanac)) OF SEQUENCE {
     gloAlmNA BIT STRING (SIZE(11)),
    gloAlmNABITSTRING(SIZE(11)),gloAlmNABITSTRING(SIZE(5)),gloAlmHABITSTRING(SIZE(5)),gloAlmLambdaABITSTRING(SIZE(21)),gloAlmDeltaIABITSTRING(SIZE(21)),gloAlmDeltaIABITSTRING(SIZE(21)),gloAlmDeltaIABITSTRING(SIZE(22)),gloAlmDeltaTABITSTRING(SIZE(22)),gloAlmDeltaTOOABITSTRING(SIZE(7)),gloAlmDegaABITSTRING(SIZE(15)),gloAlmTauABITSTRING(SIZE(16)),
     gloAlmTauA
                                  BIT STRING (SIZE(10)),
     qloAlmCA
                                  BIT STRING (SIZE(1)),
     gloAlmMA
                                  BIT STRING (SIZE(2))
     OPTIONAL,
     ie-Extensions
                                     ProtocolExtensionContainer { { GANSS-SAT-Info-Almanac-GLOkp-ExtIEs } }
                                                                                                                                                            OPTIONAL,
     . . .
}
GANSS-SAT-Info-Almanac-GLOkp-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
     . . .
}
GANSS-SAT-Info-Almanac-MIDIkpList ::= SEQUENCE (SIZE (1.. maxGANSSSatAlmanac)) OF SEQUENCE {
     svID
                    INTEGER(0..63),
                                  BIT STRING (SIZE (11)),
     midiAlmE
     midiAlmDeltaI
                                  BIT STRING (SIZE (11)),
     midiAlmOmegaDot
                                 BIT STRING (SIZE (11)),
```

```
midiAlmSgrtA
                            BIT STRING (SIZE (17)),
    midiAlmOmega0
                            BIT STRING (SIZE (16)),
    midiAlmOmega
                            BIT STRING (SIZE (16)),
    midiAlmMo
                           BIT STRING (SIZE (16)),
    midiAlmaf0
                          BIT STRING (SIZE (11)),
    midiAlmaf1
                          BIT STRING (SIZE (10)),
                     BIT STRING (SIZE (1)),
BIT STRING (SIZE (1)),
BIT STRING (SIZE (1)),
    midiAlmL1Health
    midiAlmL2Health
    midiAlmL5Health
                            BIT STRING (SIZE (1)),
                            ProtocolExtensionContainer { { GANSS-SAT-Info-Almanac-MIDIkp-ExtIEs } }
    ie-Extensions
                                                                                                                      OPTIONAL,
    . . .
GANSS-SAT-Info-Almanac-MIDIkp-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
}
GANSS-SAT-Info-Almanac-NAVkpList ::= SEQUENCE (SIZE (1.. maxGANSSSatAlmanac)) OF SEQUENCE {
    svID
                            INTEGER(0..63),
    navAlmE
                            BIT STRING (SIZE (16)),
    navAlmDeltaI
                         BIT STRING (SIZE (16)),
    navAlmOMEGADOT
                          BIT STRING (SIZE (16)),
    navAlmSVHealth
                           BIT STRING (SIZE (8)),
    navAlmSgrtA
                            BIT STRING (SIZE (24)),
    navAlmOMEGAo
                           BIT STRING (SIZE (24)),
    navAlmOmega
                         BIT STRING (SIZE (24)),
    navAlmMo
                         BIT STRING (SIZE (24)),
    navAlmaf0
                         BIT STRING (SIZE (11)),
    navAlmaf1
                            BIT STRING (SIZE (11)),
                            ProtocolExtensionContainer { { GANSS-SAT-Info-Almanac-NAVkp-ExtIEs } }
    ie-Extensions
                                                                                                                      OPTIONAL.
    . . .
3
GANSS-SAT-Info-Almanac-NAVkp-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
}
GANSS-SAT-Info-Almanac-REDkpList ::= SEQUENCE (SIZE (1.. maxGANSSSatAlmanac)) OF SEQUENCE {
    svID
                            INTEGER(0..63),
    redAlmDeltaA
                            BIT STRING (SIZE (8)),
    redAlmOmega0
                            BIT STRING (SIZE (7)),
    redAlmPhi0
                            BIT STRING (SIZE (7)),
    redAlmL1Health
                           BIT STRING (SIZE (1)),
    redAlmL2Health
                           BIT STRING (SIZE (1)),
    redAlmL5Health
                           BIT STRING (SIZE (1)),
                            ProtocolExtensionContainer { { GANSS-SAT-Info-Almanac-REDkp-ExtIEs } }
    ie-Extensions
                                                                                                                      OPTIONAL.
    . . .
```

```
GANSS-SAT-Info-Almanac-REDkp-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
}
GANSS-SAT-Info-Almanac-SBASecefList ::= SEQUENCE (SIZE (1.. maxGANSSSatAlmanac)) OF SEQUENCE {
    sbasAlmDataID BIT STRING (SIZE(2)),
    svID
                          INTEGER(0..63),
                        BIT STRING (SIZE(8)),
BIT STRING (SIZE(15)),
    sbasAlmHealth
    sbasAlmXq
    sbasAlmYq
                          BIT STRING (SIZE(15)),
    sbasAlmZq
                          BIT STRING (SIZE(9)),
                       BIT STRING (SIZE(3)),
BIT STRING (SIZE(3)),
BIT STRING (SIZE(3)),
    sbasAlmXqdot
    sbasAlmYqDot
    sbasAlmZqDot
                          BIT STRING (SIZE(4)),
    sbasAlmTo
                            BIT STRING (SIZE(11)),
    ie-Extensions
                            ProtocolExtensionContainer { { GANSS-SAT-Info-Almanac-SBASecef-ExtIEs } }
                                                                                                                         OPTIONAL,
    . . .
GANSS-SAT-Info-Almanac-SBASecef-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
}
GANSS-Sat-Info-Nav ::= SEQUENCE (SIZE(1..maxGANSSSat)) OF SEQUENCE {
    satId
                                 INTEGER(0..63),
    svHealth
                                 BIT STRING (SIZE(5)),
    iod
                                BIT STRING (SIZE(10)),
    ganssClockModel
                                 GANSS-Clock-Model,
    ganssOrbitModel
                                 GANSS-Orbit-Model,
    ie-Extensions
                                 ProtocolExtensionContainer { { GANSS-Sat-Info-Nav-ExtIEs } } OPTIONAL,
    . . .
GANSS-Sat-Info-Nav-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
}
GANSS-SBAS-ID ::= ENUMERATED
                                 {
                                 waas,
                                 egnos,
                                 msas,
                                 gagan,
                                 . . .
GANSS-SBASclockModel ::= SEQUENCE {
    sbasTo
                            BIT STRING (SIZE (13)),
    sbasAqfo
                            BIT STRING (SIZE (12)),
```

```
sbasAqf1
                            BIT STRING (SIZE (8)),
    ie-Extensions
                            ProtocolExtensionContainer { { GANSS-SBASclockModel-ExtIEs } } OPTIONAL,
    . . .
GANSS-SBASclockModel-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
}
GANSS-Signal-ID ::= INTEGER(0..7,...)
GANSS-StatusHealth ::= ENUMERATED {
  udre-scale-1dot0,
  udre-scale-0dot75,
  udre-scale-0dot5,
  udre-scale-0dot3,
   udre-scale-0dot2,
   udre-scale-0dot1,
  no-data,
   invalid-data
GANSS-Time-ID ::= INTEGER(0..7,...)
GANSS-Time-Model ::= SEQUENCE {
    ganss-time-model-Ref-Time
                                         INTEGER(0..37799),
    ganss-t-a0
                                         INTEGER(-2147483648..2147483647),
    ganss-t-a1
                                         INTEGER(-8388608..8388607)
                                                                                                                       OPTIONAL,
    ganss-t-a2
                                         INTEGER(-64..63)
                                                                                                                       OPTIONAL,
    qnss-to-id
                                         ENUMERATED{gps,...,galileo,qzss,glonass},
    ganss-wk-number
                                         INTEGER(0..8191)
                                                                                                                       OPTIONAL,
    ie-Extensions
                                         ProtocolExtensionContainer { { GANSS-Time-Model-ExtIEs } }
                                                                                                                       OPTIONAL,
    . . .
}
GANSS-Time-Model-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
}
GANSS-Transmission-Time ::= SEQUENCE {
                                INTEGER(0..8191)
    ganssDay
    OPTIONAL,
    ganssTod
                                 INTEGER(0..86399),
    ie-Extensions
                                 ProtocolExtensionContainer { { GANSS-Transmission-Time-ExtIEs } }
    OPTIONAL,
    . . .
GANSS-Transmission-Time-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
```

GANSS-UTCmodelSet3 ::= SEQUENCE {

```
}
GANSS-UTC-Model ::= SEQUENCE {
   a-one-utc
                                      BIT STRING (SIZE (24)),
   a-zero-utc
                                      BIT STRING (SIZE (32)),
   t-ot-utc
                                      BIT STRING (SIZE (8)),
   w-n-t-utc
                                      BIT STRING (SIZE (8)),
   delta-t-ls-utc
                                      BIT STRING (SIZE (8)),
   w-n-lsf-utc
                                      BIT STRING (SIZE (8)),
                                      BIT STRING (SIZE (8)),
   dn-utc
   delta-t-lsf-utc
                                      BIT STRING (SIZE (8)),
   ie-Extensions
                                      ProtocolExtensionContainer { { GANSS-UTC-Model-ExtIEs } }
                                                                                                                 OPTIONAL.
    . . .
GANSS-UTC-Model-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
   . . .
}
GANSS-UTCmodelSet1 ::= SEQUENCE {
   utcA0
           BIT STRING (SIZE(16)),
                      BIT STRING (SIZE(13)),
   ut.cA1
   utcA2
                      BIT STRING (SIZE(7)),
   utcDeltaTls
                    BIT STRING (SIZE(8)),
   utcTot
                      BIT STRING (SIZE(16)),
                       BIT STRING (SIZE(13)),
   utcWNot
   utcWNlsf
                      BIT STRING (SIZE(8)),
                      BIT STRING (SIZE(4)),
   utcDN
   utcDeltaTlsf
                    BIT STRING (SIZE(8)),
   ie-Extensions
                      ProtocolExtensionContainer { { GANSS-UTCmodelSet1-ExtIEs } } OPTIONAL,
   . . .
GANSS-UTCmodelSet1-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
   . . .
}
GANSS-UTCmodelSet2 ::= SEQUENCE {
   nA
                      BIT STRING (SIZE(11)),
   tauC
                      BIT STRING (SIZE(32)),
   deltaUT1
                    GANSS-DeltaUT1
                                                                                      OPTIONAL,
   kp
                      BIT STRING (SIZE(2))
                                                                                      OPTIONAL,
   ie-Extensions
                      ProtocolExtensionContainer { { GANSS-UTCmodelSet2-ExtIEs } }
                                                                                      OPTIONAL,
   . . .
GANSS-UTCmodelSet2-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
   . . .
}
```

```
BIT STRING (SIZE(24)),
    utcA1wnt
    utcA0wnt
                        BIT STRING (SIZE(32)),
    utcTot
                        BIT STRING (SIZE(8)),
    utcWNt
                        BIT STRING (SIZE(8)),
    utcDeltaTls
                        BIT STRING (SIZE(8)),
    utcWNlsf
                        BIT STRING (SIZE(8)),
    utcDN
                        BIT STRING (SIZE(8)),
    utcDeltaTlsf
                        BIT STRING (SIZE(8)),
    utcStandardID
                        BIT STRING (SIZE(3)),
                        ProtocolExtensionContainer { { GANSS-UTCmodelSet3-ExtIEs } }
                                                                                          OPTIONAL,
    ie-Extensions
    . . .
GANSS-UTCmodelSet3-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
}
GA-PointWithAltitude ::= SEQUENCE {
    geographicalCoordinates
                                 GeographicalCoordinate,
    altitudeAndDirection
                                GA-AltitudeAndDirection,
    iE-Extensions
                                 ProtocolExtensionContainer { { GA-PointWithAltitude-ExtIEs } } OPTIONAL,
    . . .
GA-PointWithAltitude-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
GA-PointWithAltitudeAndUncertaintyEllipsoid ::= SEQUENCE {
                                GeographicalCoordinate,
    geographicalCoordinates
    altitudeAndDirection
                                GA-AltitudeAndDirection,
    uncertaintyEllipse
                                 GA-UncertaintyEllipse,
    uncertaintyAltitude
                                INTEGER (0..127),
    confidence
                                INTEGER (0..127),
                                 ProtocolExtensionContainer { { GA-PointWithAltitudeAndUncertaintyEllipsoid-ExtIEs } } OPTIONAL,
    iE-Extensions
    . . .
GA-PointWithAltitudeAndUncertaintyEllipsoid-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
}
GA-PointWithUnCertaintyEllipse ::= SEQUENCE {
    geographicalCoordinates
                                GeographicalCoordinate,
    uncertaintyEllipse
                                GA-UncertaintyEllipse,
    confidence
                                INTEGER (0..127),
                                ProtocolExtensionContainer { { GA-PointWithUnCertaintyEllipse-ExtIEs } } OPTIONAL,
    iE-Extensions
    . . .
GA-PointWithUnCertaintyEllipse-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
}
```

```
GA-UncertaintyEllipse ::= SEQUENCE {
    uncertaintySemi-major
                               INTEGER (0..127),
    uncertaintySemi-minor
                               INTEGER (0..127),
    orientationOfMajorAxis
                               INTEGER (0..179),
                                                  -- The values 90..179 shall not be used.
    . . .
GA-PointWithUnCertainty ::=SEQUENCE {
    geographicalCoordinates
                               GeographicalCoordinate,
    uncertaintyCode
                           INTEGER (0..127),
                           ProtocolExtensionContainer { {GA-PointWithUnCertainty-ExtIEs} } OPTIONAL,
    iE-Extensions
    . . .
GA-PointWithUnCertainty-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
GA-AccessPointPosition ::= SEQUENCE {
    qeoqraphicalCoordinate
                               GeographicalCoordinate,
    iE-Extensions
                    ProtocolExtensionContainer { {GA-AccessPoint-ExtIEs} } OPTIONAL,
    . . .
GA-AccessPoint-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
GeographicalCoordinate ::= SEQUENCE {
                    ENUMERATED { north, south },
   latitudeSign
   latitude
                      INTEGER (0..8388607),
    longitude
                      INTEGER (-8388608..8388607),
    iE-Extensions
                           ProtocolExtensionContainer { {GeographicalCoordinate-ExtIEs} } OPTIONAL,
    . . .
GeographicalCoordinate-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
}
GERAN-Cell-Capability ::= BIT STRING (SIZE (16))
-- First bit: A/Gb mode --
-- Second bit: Iu mode --
-- Note: undefined bits are considered as a spare bit and spare bits shall be set to 0 by the transmitter and shall be ignored by the receiver. -
GERAN-Classmark ::=
                           OCTET STRING
    -- GERAN Classmark as defined in (38) --
GERAN-SI-Type ::= CHOICE {
                               GERAN-SystemInfo,
    sI
    pSI
                               GERAN-SystemInfo,
    . . .
```

```
GERAN-SystemInfo ::= SEQUENCE (SIZE (1..maxNrOfGERANSI)) OF
       SEOUENCE {
           gERAN-SI-block
                               OCTET STRING (SIZE (1..23)),
           iE-Extensions
                               ProtocolExtensionContainer { { GERAN-SystemInfo-ExtIEs } }
                                                                                                OPTIONAL,
            . . .
GERAN-SystemInfo-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
}
GenericTrafficCategory := BIT STRING (SIZE (8))
GPS-Almanac ::= SEQUENCE {
    wn<sub>a</sub>-alm
                           BIT STRING (SIZE (8)),
    satellite-Almanac-Information
                                       SEQUENCE (SIZE (1..maxNoSat)) OF
       SEQUENCE {
           dATA-ID
                             DATA-ID,
           sAT-ID
                             SAT-ID,
                           BIT STRING (SIZE (16)),
BIT STRING (SIZE (8)),
           qps-e-alm
           qps-toa-alm
           gps-delta-I-alm BIT STRING (SIZE (16)),
           omegadot-alm BIT STRING (SIZE (16)),
           svhealth-alm
                             BIT STRING (SIZE (8)),
           gps-a-sqrt-alm BIT STRING (SIZE (24)),
           omegazero-alm
                           BIT STRING (SIZE (24)),
           m-zero-alm
                               BIT STRING (SIZE (24)),
           qps-omega-alm
                           BIT STRING (SIZE (24)),
           gps-af-zero-alm BIT STRING (SIZE (11)),
           qps-af-one-alm
                               BIT STRING (SIZE (11)),
           iE-Extensions
                               ProtocolExtensionContainer { { Satellite-Almanac-Information-ExtIEs } }
                                                                                                                OPTIONAL,
            . . .
    -- This GPS-Almanac-Information is for the 1<sup>st</sup> 16 satellites
                        BIT STRING (SIZE (364))
    sVGlobalHealth-alm
                                                       OPTIONAL,
    iE-Extensions
                           ProtocolExtensionContainer { { GPS-Almanac-ExtIEs } }
                                                                                        OPTIONAL,
Satellite-Almanac-Information-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
GPS-Almanac-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
     ID id-Satellite-Almanac-Information-ExtItem CRITICALITY ignore
                                                                        EXTENSION Satellite-Almanac-Information-ExtItem
    PRESENCE optional },
    . . .
l
Satellite-Almanac-Information-ExtItem ::= SEQUENCE (SIZE (1..maxNrOfSatAlmanac-maxNoSat)) OF
       SEOUENCE {
           dATA-ID
                               DATA-ID,
            sAT-ID
                               SAT-ID,
```

```
qps-e-alm
                                   BIT STRING (SIZE (16)),
             qps-toa-alm
                                   BIT STRING (SIZE (8)),
             qps-delta-I-alm
                                   BIT STRING (SIZE (16)),
             omegadot-alm
                                   BIT STRING (SIZE (16)),
             svhealth-alm
                                   BIT STRING (SIZE (8)),
             qps-a-sqrt-alm
                                   BIT STRING (SIZE (24)),
             omegazero-alm
                                   BIT STRING (SIZE (24)),
             m-zero-alm
                                    BIT STRING (SIZE (24)),
             qps-omega-alm
                                   BIT STRING (SIZE (24)),
             qps-af-zero-alm
                                   BIT STRING (SIZE (11)),
             qps-af-one-alm
                                   BIT STRING (SIZE (11)),
                                    ProtocolExtensionContainer { { Satellite-Almanac-Information-ExtItemIEs } }
             iE-Extensions
                                                                                                                                       OPTIONAL,
             . . .
    Includes the GPS-Almanac-Information for the 17th through 32nd satellites.
Satellite-Almanac-Information-ExtItemIEs RNSAP-PROTOCOL-EXTENSION ::= {
GPSInformation ::= SEQUENCE (SIZE (1..maxNoGPSTypes)) OF
    SEQUENCE
        qPSInformationItem
                                    ENUMERATED {
             gPS-NavigationModel-and-TimeRecovery,
             qPS-Ionospheric-Model,
             gPS-UTC-Model,
             gPS-Almanac,
             gPS-RealTime-Integrity,
             . . .
         },
                                    ProtocolExtensionContainer { { GPSInformation-ExtIEs } }
         iE-Extensions
                                                                                                       OPTIONAL,
         . . .
-- This IE shall be present if the Information Type IE indicates 'GPS Information'
GPSInformation-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
GPS-Ionospheric-Model ::= SEQUENCE {
    alpha-zero-ionos
                              BIT STRING (SIZE (8)),
    alpha-one-ionos
                               BIT STRING (SIZE (8)),
    alpha-two-ionos
                              BIT STRING (SIZE (8)),
    alpha-three-ionos
   alpha-three-fond
beta-zero-ionos BIT STRING (SIZE (8)),
beta-two-ionos BIT STRING (SIZE (8)),
beta-two-ionos BIT STRING (SIZE (8)),
beta-three-ionos BIT STRING (SIZE (8)),
beta-three-ionos BIT STRING (SIZE (8)),
                              BIT STRING (SIZE (8)),
                               ProtocolExtensionContainer { { GPS-Ionospheric-Model-ExtIEs } }
                                                                                                            OPTIONAL.
    . . .
GPS-Ionospheric-Model-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
```

. . .

}

}

}

}

GPS-NavigationModel-and-TimeRecovery ::= SEOUENCE (SIZE (1..maxNoSat)) OF SEQUENCE { tx-tow-nav INTEGER (0..1048575), sAT-ID SAT-ID, tlm-message-nav BIT STRING (SIZE (14)), tlm-revd-c-nav BIT STRING (SIZE (2)), ho-word-nav BIT STRING (SIZE (22)), w-n-nav BIT STRING (SIZE (10)), ca-or-p-on-12-nav BIT STRING (SIZE (2)), user-range-accuracy-index-nav BIT STRING (SIZE (4)), sv-health-nav BIT STRING (SIZE (6)), iodc-nav BIT STRING (SIZE (10)), 12-p-dataflag-nav BIT STRING (SIZE (1)), sf1-reserved-nav BIT STRING (SIZE (87)), t-qd-nav BIT STRING (SIZE (8)), t-oc-nav BIT STRING (SIZE (16)), a-f-2-nav BIT STRING (SIZE (8)), a-f-1-nav BIT STRING (SIZE (16)), a-f-zero-nav BIT STRING (SIZE (22)), c-rs-nav BIT STRING (SIZE (16)), delta-n-nav BIT STRING (SIZE (16)), m-zero-nav BIT STRING (SIZE (32)), c-uc-nav BIT STRING (SIZE (16)), gps-e-nav BIT STRING (SIZE (32)), c-us-nav BIT STRING (SIZE (16)), a-sgrt-nav BIT STRING (SIZE (32)), t-oe-nav BIT STRING (SIZE (16)), fit-interval-flag-nav BIT STRING (SIZE (1)), aodo-nav BIT STRING (SIZE (5)), c-ic-nav BIT STRING (SIZE (16)), omega-zero-nav BIT STRING (SIZE (32)), c-is-nav BIT STRING (SIZE (16)), i-zero-nav BIT STRING (SIZE (32)), c-rc-nav BIT STRING (SIZE (16)), gps-omega-nav BIT STRING (SIZE (32)), omegadot-nav BIT STRING (SIZE (24)), idot-nav BIT STRING (SIZE (14)), spare-zero-fill BIT STRING (SIZE (20)), ProtocolExtensionContainer { { GPS-NavigationModel-and-TimeRecoveryItem-ExtIEs } } iE-Extensions OPTIONAL, . . . GPS-NavigationModel-and-TimeRecoveryItem-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= { . . . } GPS-RealTime-Integrity ::= CHOICE { badSatellites BadSatellites, noBadSatellite NULL

```
GPS-RX-POS ::= SEQUENCE {
```

}

```
qeoqraphicalCoordinate
                                GeographicalCoordinate,
    altitudeAndDirection
                                GA-AltitudeAndDirection,
    iE-Extensions
                                ProtocolExtensionContainer { { GPS-RX-POS-ExtIEs } } OPTIONAL,
    . . .
}
GPS-RX-POS-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
}
GPS-Status-Health ::= ENUMERATED {
  udre-1-0,
  udre-0-75,
  udre-0-5.
  udre-0-3,
  udre-0-1,
  no-data,
   invalid-data
J
GPSTOW ::= INTEGER (0..604799)
GPS-UTC-Model ::= SEQUENCE {
    a-one-utc
                            BIT STRING (SIZE (24)),
    a-zero-utc
                            BIT STRING (SIZE (32)),
    t-ot-utc
                            BIT STRING (SIZE (8)),
    delta-t-ls-utc
                            BIT STRING (SIZE (8)),
    w-n-t-utc
                            BIT STRING (SIZE (8)),
    w-n-lsf-utc
                            BIT STRING (SIZE (8)),
    dn-utc
                            BIT STRING (SIZE (8)),
    delta-t-lsf-utc
                            BIT STRING (SIZE (8)),
    iE-Extensions
                            ProtocolExtensionContainer { { GPS-UTC-Model-ExtIEs } }
                                                                                          OPTIONAL,
    . . .
GPS-UTC-Model-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
}
Guaranteed-Rate-Information ::= SEQUENCE
    guaranteed-UL-Rate
                                Guaranteed-Rate OPTIONAL,
    guaranteed-DL-Rate
                                Guaranteed-Rate OPTIONAL,
    iE-Extensions
                                ProtocolExtensionContainer { {Guaranteed-Rate-Information-ExtIEs} } OPTIONAL,
    . . .
}
Guaranteed-Rate-Information-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
}
Guaranteed-Rate
                       ::= INTEGER (1..maxNrOfTFs)
-- "1": TFI 0, "2": TFI 1, "3": TFI 2, ...
-- H
```

```
HARO-Info-for-E-DCH ::= ENUMERATED {
    rv0.
    rvtable
3
HARQ-MemoryPartitioning ::= CHOICE {
                    HARO-MemoryPartitioning-Implicit,
    implicit
    explicit
                    HARQ-MemoryPartitioning-Explicit,
    . . .
HARO-MemoryPartitioning-Implicit := SEQUENCE {
    number-of-Processes INTEGER (1..8,...,12|14|16),
   iE-Extensions
                               ProtocolExtensionContainer { { HARO-MemoryPartitioning-Implicit-ExtIEs } }
                                                                                                                                 OPTIONAL,
    . . .
}
HARO-MemoryPartitioning-Implicit-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
HARQ-MemoryPartitioning-Explicit
                                  ::= SEQUENCE {
    hARO-MemoryPartitioningList
                                        HARO-MemoryPartitioningList,
                                        ProtocolExtensionContainer { { HARQ-MemoryPartitioning-Explicit-ExtlEs } }
    iE-Extensions
                                                                                                                                        OPTIONAL,
    . . .
3
HARO-MemoryPartitioning-Explicit-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    {ID id-HARQ-MemoryPartitioningInfoExtForMIMO CRITICALITY ignore EXTENSION HARQ-MemoryPartitioningInfoExtForMIMO PRESENCE optional},
    . . .
}
HARQ-MemoryPartitioningList ::= SEQUENCE (SIZE (1..maxNrOfHARQProc)) OF HARQ-MemoryPartitioningItem
HARQ-MemoryPartitioningInfoExtForMIMO ::= SEQUENCE (SIZE (4 | 6 | 8)) OF HARQ-MemoryPartitioningItem
HARO-MemoryPartitioningItem ::= SEQUENCE {
                                        ENUMERATED
    process-Memory-Size
                                        hms800, hms1600, hms2400, hms3200, hms4000,
                                        hms4800, hms5600, hms6400, hms7200, hms8000,
                                        hms8800, hms9600, hms10400, hms11200, hms12000,
                                        hms12800, hms13600, hms14400, hms15200, hms16000,
                                        hms17600, hms19200, hms20800, hms22400, hms24000,
                                        hms25600, hms27200, hms28800, hms30400, hms32000,
                                        hms36000, hms40000, hms44000, hms48000, hms52000,
                                        hms56000, hms60000, hms64000, hms68000, hms72000,
                                        hms76000, hms80000, hms88000, hms96000, hms104000,
                                        hms112000, hms120000, hms128000, hms136000, hms144000,
                                        hms152000, hms160000, hms176000, hms192000, hms208000,
                                        hms224000, hms240000, hms256000, hms272000, hms288000,
                                        hms304000,...},
    iE-Extensions
                                        ProtocolExtensionContainer { { HARQ-MemoryPartitioningItem-ExtIEs } }
                                                                                                                                 OPTIONAL,
    . . .
```

```
}
HARO-MemoryPartitioningItem-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
}
HARQ-Preamble-Mode ::= ENUMERATED {
  mode0,
   mode1
HARQ-Process-Allocation-2ms-EDCH ::= BIT STRING ( SIZE (maxNrOfEDCHHARQProcesses2msEDCH) )
HARO-Preamble-Mode-Activation-Indicator ::=ENUMERATED
    hargPreambleModeSupported
HCS-Prio ::= INTEGER (0..7)
-- 0 = lowest priority, ...7 = highest priority
HSDSCH-Configured-Indicator ::= ENUMERATED {
    configured-HS-DSCH,
    no-configured-HS-DSCH
}
HSDSCH-FDD-Information ::= SEQUENCE {
    hSDSCH-MACdFlows-Information
                                                HSDSCH-MACdFlows-Information,
    uE-Capabilities-Info
                                                UE-Capabilities-Info,
    mAChs-Reordering-Buffer-Size-for-RLC-UM
                                                MAChsReorderingBufferSize-for-RLC-UM,
    cqiFeedback-CycleK
                                                CQI-Feedback-Cycle,
    cqiRepetitionFactor
                                                CQI-RepetitionFactor
                                                                                             OPTIONAL,
    -- This IE shall be present if the CQI Feedback Cycle k IE is set to a value greater than 0.
    ackNackRepetitionFactor
                                                AckNack-RepetitionFactor,
    cqiPowerOffset
                                                CQI-Power-Offset,
    ackPowerOffset
                                                Ack-Power-Offset,
    nackPowerOffset
                                                Nack-Power-Offset,
    hsscch-PowerOffset
                                                HSSCCH-PowerOffset
                                                                                             OPTIONAL,
                                                ProtocolExtensionContainer { { HSDSCH-FDD-Information-ExtIEs } }
    iE-Extensions
                                                                                                                                 OPTIONAL,
    . . .
HSDSCH-FDD-Information-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
{ ID id-HARQ-Preamble-Mode
                                                                                     HARO-Preamble-Mode
                                                     CRITICALITY ignore EXTENSION
    PRESENCE optional } |
{ ID id-MIMO-ActivationIndicator
                                                                                     MIMO-ActivationIndicator
                                                     CRITICALITY reject EXTENSION
        PRESENCE optional } |
{ ID id-HSDSCH-MACdPDUSizeFormat
                                                     CRITICALITY reject EXTENSION
                                                                                     HSDSCH-MACdPDUSizeFormat
        PRESENCE optional } |
{ ID id-SixtyfourQAM-UsageAllowedIndicator
                                                     CRITICALITY ignore EXTENSION
                                                                                     SixtyfourQAM-UsageAllowedIndicator
                                                                                                                                         PRESENCE
optional}
{ ID id-UE-with-enhanced-HS-SCCH-support-indicator
                                                         CRITICALITY ignore EXTENSION
                                                                                         NULL
    PRESENCE optional }
{ ID id-EnhancedHSServingCC-Abort
                                                     CRITICALITY reject EXTENSION
                                                                                     EnhancedHSServingCC-Abort
        PRESENCE optional } |
```

{ ID id-UE-SupportIndicatorExtension CRITICALITY ignore EXTENSION UE-SupportIndicatorExtension PRESENCE optional } | { ID id-power-offset-for-S-CPICH-for-MIMO-Request-Indicator CRITICALITY ignore EXTENSION PowerOffsetForSecondaryCPICHforMIMORequestIndicator PRESENCE optional } | { ID id-Single-Stream-MIMO-ActivationIndicator CRITICALITY reject EXTENSION Single-Stream-MIMO-ActivationIndicator PRESENCE optional}, . . . HSDSCH-FDD-Information-Response ::= SEQUENCE { hSDSCH-MACdFlow-Specific-InfoList-Response HSDSCH-MACdFlow-Specific-InfoList-Response OPTIONAL, hSSCCH-Specific-InfoList-Response HSSCCH-FDD-Specific-InfoList-Response OPTIONAL, hSPDSCH-and-HSSCCH-ScramblingCode DL-ScramblingCode OPTIONAL, measurement-Power-Offset Measurement-Power-Offset OPTIONAL, hARO-MemoryPartitioning HARO-MemoryPartitioning OPTIONAL, iE-Extensions ProtocolExtensionContainer { { HSDSCH-FDD-Information-Response-ExtIEs } } OPTIONAL, . . . HSDSCH-FDD-Information-Response-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= { { ID id-User-Plane-Congestion-Fields-Inclusion CRITICALITY ignore EXTENSION User-Plane-Congestion-Fields-Inclusion PRESENCE optional}| { ID id-HARO-Preamble-Mode-Activation-Indicator CRITICALITY ignore EXTENSION HARO-Preamble-Mode-Activation-Indicator PRESENCE optional} { ID id-MIMO-InformationResponse CRITICALITY ignore EXTENSION MIMO-InformationResponse PRESENCE optional} { ID id-SixtyfourQAM-DL-UsageIndicator CRITICALITY ignore EXTENSION SixtyfourQAM-DL-UsageIndicator PRESENCE optional}| { ID id-HSDSCH-TBSizeTableIndicator CRITICALITY iqnore EXTENSION HSDSCH-TBSizeTableIndicator PRESENCE optional} { ID id-power-offset-for-S-CPICH-for-MIMO CRITICALITY ignore EXTENSION PowerOffsetForSecondaryCPICHforMIMO PRESENCE optional} { ID id-Support-of-Dynamic-DTXDRX-Related-HS-SCCH-Order CRITICALITY ignore EXTENSION Support-of-Dynamic-DTXDRX-Related-HS-SCCH-Order PRESENCE optional}, . . . 3 HS-DSCH-FDD-Secondary-Serving-Information ::= SEQUENCE { hsscch-PowerOffset HSSCCH-PowerOffset OPTIONAL, sixtvfourOAM-UsageAllowedIndicator SixtvfourOAM-UsageAllowedIndicator OPTIONAL, ProtocolExtensionContainer { { HS-DSCH-FDD-Secondary-Serving-Information-ExtIEs } } iE-Extensions OPTIONAL, . . . HS-DSCH-FDD-Secondary-Serving-Information-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= { {ID id-MIMO-ActivationIndicator CRITICALITY reject EXTENSION MIMO-ActivationIndicator PRESENCE optional } {ID id-Single-Stream-MIMO-ActivationIndicator CRITICALITY reject EXTENSION Single-Stream-MIMO-ActivationIndicator PRESENCE optional} {ID id-DiversityMode PRESENCE optional } CRITICALITY reject EXTENSION DiversityMode

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CRITICALITY reject EXTENSION TransmitDiversityIndicator {ID id-TransmitDiversityIndicator PRESENCE optional } ID id-power-offset-for-S-CPICH-for-MIMO-Request-Indicator CRITICALITY ignore EXTENSION PowerOffsetForSecondaryCPICHforMIMORequestIndicator PRESENCE optional }. . . . HS-DSCH-FDD-Secondary-Serving-Information-Response ::= SEQUENCE { hSSCCH-Specific-InfoList-Response HSSCCH-FDD-Specific-InfoList-Response OPTIONAL, hSPDSCH-and-HSSCCH-ScramblingCode DL-ScramblingCode OPTIONAL, measurement-Power-Offset Measurement-Power-Offset OPTIONAL, sixtyfourQAM-DL-UsageIndicator SixtyfourQAM-DL-UsageIndicator OPTIONAL, hSDSCH-TBSizeTableIndicator HSDSCH-TBSizeTableIndicator OPTIONAL, iE-Extensions ProtocolExtensionContainer { { HS-DSCH-FDD-Secondary-Serving-Information-Respons-ExtIEs } } OPTIONAL. . . . HS-DSCH-FDD-Secondary-Serving-Information-Respons-Extles RNSAP-PROTOCOL-EXTENSION ::= { {ID id-MIMO-InformationResponse CRITICALITY ignore EXTENSION MIMO-InformationResponse PRESENCE optional } {ID id-power-offset-for-S-CPICH-for-MIMO CRITICALITY ignore EXTENSION PowerOffsetForSecondaryCPICHforMIMO PRESENCE optional }, . . . HS-DSCH-Secondary-Serving-Information-To-Modify ::= SEQUENCE { hsscch-PowerOffset HSSCCH-PowerOffset OPTIONAL, hSSCCH-CodeChangeGrant HSSCCH-Code-Change-Grant OPTIONAL. sixtyfourOAM-UsageAllowedIndicator SixtyfourOAM-UsageAllowedIndicator OPTIONAL, iE-Extensions ProtocolExtensionContainer { { HS-DSCH-Secondary-Serving-Information-To-Modify-ExtlEs } } OPTIONAL, . . . HS-DSCH-Secondary-Serving-Information-To-Modify-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= { {ID id-MIMO-Mode-Indicator CRITICALITY reject EXTENSION MIMO-Mode-Indicator PRESENCE optional } CRITICALITY reject EXTENSION Single-Stream-MIMO-Mode-Indicator {ID id-Single-Stream-MIMO-Mode-Indicator PRESENCE optional} {ID id-DiversityMode CRITICALITY reject EXTENSION DiversityMode PRESENCE optional} {ID id-TransmitDiversityIndicator CRITICALITY reject EXTENSION TransmitDiversityIndicator PRESENCE optional } -- This IE shall be present if Diversity Mode IE is present and is not set to "none" {ID id-NonCellSpecificTxDiversity CRITICALITY reject EXTENSION NonCellSpecificTxDiversity PRESENCE optional } | {ID id-power-offset-for-S-CPICH-for-MIMO-Request-Indicator CRITICALITY ignore EXTENSION PowerOffsetForSecondaryCPICHforMIMORequestIndicator PRESENCE optional }, . . . HS-DSCH-FDD-Secondary-Serving-Information-To-Modify-Unsynchronised ::= SEOUENCE { hsscch-PowerOffset HSSCCH-PowerOffset OPTIONAL, OPTIONAL, sixtvfourOAM-UsageAllowedIndicator SixtyfourQAM-UsageAllowedIndicator ProtocolExtensionContainer { { HS-DSCH-FDD-Secondary-Serving-Information-To-Modify-Unsynchronised-ExtIEs } } iE-Extensions OPTIONAL, . . . } HS-DSCH-FDD-Secondary-Serving-Information-To-Modify-Unsynchronised-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= { {ID id-MIMO-Mode-Indicator CRITICALITY reject EXTENSION MIMO-Mode-Indicator PRESENCE optional } |

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```
{ID id-Single-Stream-MIMO-Mode-Indicator
                                          CRITICALITY reject EXTENSION Single-Stream-MIMO-Mode-Indicator
                                                                                                             PRESENCE optional } |
{ID id-power-offset-for-S-CPICH-for-MIMO-Request-Indicator CRITICALITY ignore EXTENSION PowerOffsetForSecondaryCPICHforMIMORequestIndicator
    PRESENCE optional },
    . . .
HS-DSCH-FDD-Secondary-Serving-Update-Information ::= SEQUENCE {
    hsSCCHCodeChangeIndicator
                                              HSSCCH-CodeChangeIndicator
                                                                                         OPTIONAL.
   hS-PDSCH-Code-Change-Indicator
                                              HS-PDSCH-Code-Change-Indicator
                                                                                         OPTIONAL,
    -- This IE shall never be included. If received it shall be ignored.
                                              ProtocolExtensionContainer { { HS-DSCH-FDD-Secondary-Serving-Update-Information-ExtIEs } }
   iE-Extensions
   OPTIONAL,
    . . .
HS-DSCH-FDD-Secondary-Serving-Update-Information-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
HS-DSCH-Secondary-Serving-Cell-Change-Information-Response ::= SEQUENCE
   hS-DSCH-Secondary-Serving-cell-choice
                                              HS-DSCH-Secondary-Serving-cell-change-choice,
                                              iE-Extensions
       OPTIONAL,
    . . .
HS-DSCH-Secondary-Serving-Cell-Change-Information-Response-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
HS-DSCH-Secondary-Serving-cell-change-choice ::= CHOICE
   hS-Secondary-Serving-cell-change-successful
                                                      HS-Secondary-Serving-cell-change-successful,
   hS-Secondary-Serving-cell-change-unsuccessful
                                                      HS-Secondary-Serving-cell-change-unsuccessful,
    . . .
HS-Secondary-Serving-cell-change-successful ::= SEQUENCE {
    hS-DSCH-FDD-Secondary-Serving-Information-Response
                                                          HS-DSCH-FDD-Secondary-Serving-Information-Response,
   hSDSCH-RNTI
                                                          HSDSCH-RNTI,
   iE-Extensions
                                      ProtocolExtensionContainer { { HS-Secondary-Serving-cell-change-successful-ExtIEs } } OPTIONAL,
    . . .
HS-Secondary-Serving-cell-change-successful-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
HS-Secondary-Serving-cell-change-unsuccessful ::= SEQUENCE {
    cause
                                   Cause,
    iE-Extensions
                                  ProtocolExtensionContainer { { HS-Secondary-Serving-cell-change-unsuccessful-ExtIEs } } OPTIONAL,
    . . .
```

```
HS-Secondary-Serving-cell-change-unsuccessful-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
```

. . . HS-DSCH-Secondary-Serving-Remove ::= NULL HSDSCH-Information-to-Modify ::= SEQUENCE { hSDSCH-MACdFlow-Specific-InfoList-to-Modify HSDSCH-MACdFlow-Specific-InfoList-to-Modify OPTIONAL, prioritvOueue-Info-to-Modifv PrioritvOueue-InfoList-to-Modify OPTIONAL, mAChs-Reordering-Buffer-Size-for-RLC-UM MAChsReorderingBufferSize-for-RLC-UM OPTIONAL, cqiFeedback-CycleK CQI-Feedback-Cycle OPTIONAL, -- For FDD only cqiRepetitionFactor CQI-RepetitionFactor OPTIONAL, -- For FDD only ackNackRepetitionFactor AckNack-RepetitionFactor OPTIONAL, -- For FDD only cgiPowerOffset COI-Power-Offset OPTIONAL, -- For FDD only ackPowerOffset. Ack-Power-Offset OPTIONAL, -- For FDD only nackPowerOffset Nack-Power-Offset -- For FDD only OPTIONAL, hsscch-PowerOffset HSSCCH-PowerOffset OPTIONAL, -- For FDD only hSSCCH-CodeChangeGrant HSSCCH-Code-Change-Grant OPTIONAL, tDDAckNackPowerOffset TDD-AckNack-Power-Offset OPTIONAL, -- For TDD only ProtocolExtensionContainer { { HSDSCH-Information-to-Modify-ExtIEs } } iE-Extensions OPTIONAL, . . . HSDSCH-Information-to-Modify-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= { ID id-HARQ-Preamble-Mode CRITICALITY ignore EXTENSION HARO-Preamble-Mode PRESENCE optional } | { ID id-HS-PDSCH-Code-Change-Grant CRITICALITY ignore HS-PDSCH-Code-Change-Grant PRESENCE optional } | EXTENSION -- Applicable to FDD only { ID id-MIMO-Mode-Indicator CRITICALITY reject EXTENSION MIMO-Mode-Indicator PRESENCE optional } | { ID id-HSDSCH-MACdPDUSizeFormat CRITICALITY reject EXTENSION HSDSCH-MACdPDUSizeFormat PRESENCE optional}| ID id-SixtyfourQAM-UsageAllowedIndicator CRITICALITY ignore EXTENSION SixtyfourQAM-UsageAllowedIndicator PRESENCE optional } | ID id-UE-Capabilities-Info CRITICALITY ignore EXTENSION UE-Capabilities-Info PRESENCE optional } { ID id-EnhancedHSServingCC-Abort PRESENCE CRITICALITY reject EXTENSION EnhancedHSServingCC-Abort optional} ID id-UE-SupportIndicatorExtension CRITICALITY ignore UE-SupportIndicatorExtension PRESENCE optional } | EXTENSION ID id-power-offset-for-S-CPICH-for-MIMO-Request-Indicator CRITICALITY ignore EXTENSION PowerOffsetForSecondaryCPICHforMIMORequestIndicator PRESENCE optional } | { ID id-Single-Stream-MIMO-Mode-Indicator CRITICALITY reject Single-Stream-MIMO-Mode-Indicator PRESENCE optional }, EXTENSION HSDSCH-Information-to-Modify-Unsynchronised ::= SEOUENCE hSDSCH-MACdFlow-Specific-InfoList-to-Modify HSDSCH-MACdFlow-Specific-InfoList-to-Modify OPTIONAL, prioritvOueueInfotoModifvUnsvnchronised PrioritvOueue-InfoList-to-Modifv-Unsvnchronised OPTIONAL, COI-Power-Offset cgiPowerOffset OPTIONAL, -- For FDD only -- For FDD only ackPowerOffset Ack-Power-Offset OPTIONAL, nackPowerOffset Nack-Power-Offset OPTIONAL, -- For FDD only HSSCCH-PowerOffset -- Only for FDD hsscch-PowerOffset OPTIONAL, tDDAckNackPowerOffset TDD-AckNack-Power-Offset OPTIONAL, -- For TDD only iE-Extensions

ProtocolExtensionContainer { { HSDSCH-Information-to-Modify-Unsynchronised-ExtIEs } }

OPTIONAL,

```
. . .
3
HSDSCH-Information-to-Modify-Unsynchronised-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
 ID id-HARO-Preamble-Mode
                                            CRITICALITY ignore
                                                                    EXTENSION
                                                                                HARO-Preamble-Mode
                                                                                                                     PRESENCE optional } |
ID id-MIMO-Mode-Indicator
                                            CRITICALITY reject
                                                                    EXTENSION
                                                                                MIMO-Mode-Indicator
    PRESENCE optional } |
 ID id-SixtyfourQAM-UsageAllowedIndicator CRITICALITY ignore
                                                                     EXTENSION
                                                                                 SixtyfourQAM-UsageAllowedIndicator PRESENCE optional } |
{ ID id-EnhancedHSServingCC-Abort
                                            CRITICALITY reject
                                                                     EXTENSION
                                                                                 EnhancedHSServingCC-Abort
                                                                                                                                         PRESENCE
optional}
 ID id-UE-SupportIndicatorExtension
                                            CRITICALITY iqnore
                                                                    EXTENSION
                                                                                UE-SupportIndicatorExtension
                                                                                                                         PRESENCE optional } |
{ ID id-power-offset-for-S-CPICH-for-MIMO-Request-Indicator
                                                                CRITICALITY ignore EXTENSION PowerOffsetForSecondaryCPICHforMIMORequestIndicator
            PRESENCE optional }
{ ID id-Single-Stream-MIMO-Mode-Indicator CRITICALITY reject
                                                                     EXTENSION
                                                                                Single-Stream-MIMO-Mode-Indicator
                                                                                                                         PRESENCE optional },
    . . .
HSDSCH-MACdFlow-ID ::= INTEGER (0..maxNrOfMACdFlows-1)
HSDSCH-MACdFlow-Specific-InfoList := SEOUENCE (SIZE (1..maxNrOfMACdFlows)) OF HSDSCH-MACdFlow-Specific-InfoItem
HSDSCH-MACdPDUSizeFormat ::= ENUMERATED {
    indexedMACdPDU-Size,
    flexibleMACdPDU-Size
HSDSCH-MACdFlow-Specific-InfoItem ::= SEQUENCE {
    hSDSCH-MACdFlow-ID
                                        HSDSCH-MACdFlow-ID,
    allocationRetentionPriority
                                        AllocationRetentionPriority,
    trafficClass
                                        TrafficClass,
                                        BindingID
                                                                                 OPTIONAL,
    bindingID
    transportLayerAddress
                                        TransportLayerAddress
                                                                                 OPTIONAL,
    iE-Extensions
                                        ProtocolExtensionContainer { { HSDSCH-MACdFlow-Specific-InfoItem-ExtIEs } }
                                                                                                                                        OPTIONAL,
    . . .
HSDSCH-MACdFlow-Specific-InfoItem-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
                            CRITICALITY ignore
                                                    EXTENSION ThlOos PRESENCE optional } |
    {ID id-TnlOos
    {ID id-TrCH-SrcStatisticsDescr CRITICALITY ignore EXTENSION TrCH-SrcStatisticsDescr PRESENCE optional },
    . . .
}
HSDSCH-MACdFlow-Specific-InfoList-Response ::= SEQUENCE (SIZE (0..maxNrOfMACdFlows)) OF HSDSCH-MACdFlow-Specific-InfoItem-Response
HSDSCH-MACdFlow-Specific-InfoItem-Response ::= SEOUENCE {
                                        HSDSCH-MACdFlow-ID,
    hSDSCH-MACdFlow-ID
    bindingID
                                        BindingID
                                                                                 OPTIONAL,
    transportLayerAddress
                                        TransportLayerAddress
                                                                                OPTIONAL,
    hSDSCH-Initial-Capacity-Allocation HSDSCH-Initial-Capacity-Allocation
                                                                                OPTIONAL,
                                        ProtocolExtensionContainer { { HSDSCH-MACdFlow-Specific-InfoItem-Response-ExtIEs } }
    iE-Extensions
    OPTIONAL,
    . . .
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HSDSCH-MACdFlow-Specific-InfoItem-Response-Extles RNSAP-PROTOCOL-EXTENSION ::= {

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. . .

HSDSCH-MACdFlow-Specific-InfoList-to-Modify ::= SEQUENCE (SIZE (1..maxNrOfMACdFlows)) OF HSDSCH-MACdFlow-Specific-InfoItem-to-Modify

```
HSDSCH-MACdFlow-Specific-InfoItem-to-Modify ::= SEQUENCE {
    hSDSCH-MACdFlow-ID
                                        HSDSCH-MACdFlow-ID,
    allocationRetentionPriority
                                        AllocationRetentionPriority
                                                                                 OPTIONAL,
                                        TransportBearerRequestIndicator,
    transportBearerRequestIndicator
    trafficClass
                                        TrafficClass
                                                                                 OPTIONAL,
    bindingID
                                        BindingID
                                                                                 OPTIONAL,
    transportLayerAddress
                                        TransportLayerAddress
                                                                                 OPTIONAL.
    iE-Extensions
                                        ProtocolExtensionContainer { { HSDSCH-MACdFlow-Specific-InfoItem-to-Modify-ExtIEs } }
    OPTIONAL,
    . . .
HSDSCH-MACdFlow-Specific-InfoItem-to-Modify-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
                                                     EXTENSION TnlQos PRESENCE optional },
                            CRITICALITY ignore
    {ID id-TnlOos
    . . .
HSDSCH-MACdFlows-Information ::= SEOUENCE {
    hSDSCH-MACdFlow-Specific-Info
                                                     HSDSCH-MACdFlow-Specific-InfoList,
   priorityQueue-Info
                                                     PriorityOueue-InfoList,
   iE-Extensions
                                                     ProtocolExtensionContainer { { HSDSCH-MACdFlows-Information-ExtIEs } }
   OPTIONAL,
    . . .
HSDSCH-MACdFlows-Information-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
HSDSCH-MACdFlows-to-Delete ::= SEQUENCE (SIZE (1..maxNrOfMACdFlows)) OF HSDSCH-MACdFlows-to-Delete-Item
HSDSCH-MACdFlows-to-Delete-Item ::= SEQUENCE {
    hsDSCH-MACdFlow-ID
                                        HSDSCH-MACdFlow-ID,
                                        ProtocolExtensionContainer { { HSDSCH-MACdFlows-to-Delete-Item-ExtIEs } }
    iE-Extensions
                                                                                                                          OPTIONAL,
    . . .
HSDSCH-MACdFlows-to-Delete-Item-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
}
HSDSCH-Initial-Capacity-Allocation::= SEQUENCE (SIZE (1..maxNrOfPrioQueues)) OF HSDSCH-Initial-Capacity-AllocationItem
HSDSCH-Initial-Capacity-AllocationItem ::= SEQUENCE {
    schedulingPriorityIndicator
                                    SchedulingPriorityIndicator,
    maximum-MACdPDU-Size
                                    MACdPDU-Size,
    hSDSCH-InitialWindowSize
                                    HSDSCH-InitialWindowSize,
```

```
ProtocolExtensionContainer { {HSDSCH-Initial-Capacity-AllocationItem-ExtIEs} } OPTIONAL,
    iE-Extensions
    . . .
HSDSCH-Initial-Capacity-AllocationItem-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
{ ID id-MaximumMACdPDU-SizeExtended
                                        CRITICALITY ignore
                                                                EXTENSION MAC-PDU-SizeExtended PRESENCE optional },
HSDSCH-InitialWindowSize
                                    ::= INTEGER (1..255)
-- Number of MAC-d PDUs.
HSDSCH-PreconfigurationInfo ::= SEQUENCE {
    setsOfHS-SCCH-Codes
                           SetsOfHS-SCCH-Codes,
    hARO-MemoryPartitioning
                                HARO-MemoryPartitioning,
    eDCH-FDD-DL-ControlChannelInformation
                                                EDCH-FDD-DL-ControlChannelInformation
                                                                                            OPTIONAL,
                                                HARO-Preamble-Mode-Activation-Indicator
    hARO-Preamble-Mode-Activation-Indicator
                                                                                             OPTIONAL,
                           MIMO-InformationResponse
    mIMO-N-M-Ratio
                                                            OPTIONAL,
    continuous-Packet-Connectivity-HS-SCCH-Less-Information-Response
                                                                        Continuous-Packet-Connectivity-HS-SCCH-Less-Information-Response
    OPTIONAL,
                                        ProtocolExtensionContainer { { HSDSCH-PreconfigurationInfo-ExtIEs } }
    iE-Extensions
                                                                                                                         OPTIONAL,
    . . .
HSDSCH-PreconfigurationInfo-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
{ ID id-power-offset-for-S-CPICH-for-MIMO
                                                            CRITICALITY ignore EXTENSION PowerOffsetForSecondaryCPICHforMIMO
                                                                                                                                        PRESENCE
optional}
{ ID id-Additional-EDCH-Preconfiguration-Information
                                                            CRITICALITY ignore EXTENSION Additional-EDCH-Preconfiguration-Information PRESENCE
optional}
{ ID id-Support-of-Dynamic-DTXDRX-Related-HS-SCCH-Order
                                                            CRITICALITY ignore EXTENSION Support-of-Dynamic-DTXDRX-Related-HS-SCCH-Order
    PRESENCE optional },
    . . .
Additional-EDCH-Preconfiguration-Information ::= SEQUENCE (SIZE (1..maxNrOfEDCH-1)) OF Additional-EDCH-Preconfiguration-Information-ItemIEs
Additional-EDCH-Preconfiguration-Information-ItemIEs
                                                       ::= SEQUENCE {
    eDCH-FDD-DL-ControlChannelInformation
                                                EDCH-FDD-DL-ControlChannelInformation,
                                    ProtocolExtensionContainer { { Additional-EDCH-Preconfiguration-Information-ItemIEs-ExtIEs } } OPTIONAL,
    iE-Extensions
    . . .
Additional-EDCH-Preconfiguration-Information-ItemIEs-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
HSDSCH-PreconfigurationSetup ::= SEQUENCE {
    mAChsResetScheme
                           MAChsResetScheme,
    hSDSCH-Physical-Layer-Category
                                        INTEGER (1..64,...),
    mAChs-Reordering-Buffer-Size-for-RLC-UM
                                                MAChsReorderingBufferSize-for-RLC-UM,
    secondaryServingCells
                                SecondaryServingCells
                                                                OPTIONAL,
```

```
numPrimaryHS-SCCH-Codes
                                NumHS-SCCH-Codes
                                                             OPTIONAL,
    hARO-Preamble-Mode
                            HARO-Preamble-Mode
                                                                     OPTIONAL,
    mIMO-ActivationIndicator
                                    MIMO-ActivationIndicator
                                                                         OPTIONAL.
    hSDSCH-MACdPDUSizeFormat
                                    HSDSCH-MACdPDUSizeFormat
                                                                         OPTIONAL,
    sixtyfourOAM-UsageAllowedIndicator
                                            SixtyfourOAM-UsageAllowedIndicator
                                                                                         OPTIONAL.
    uE-with-enhanced-HS-SCCH-support-indicator
                                                                 OPTIONAL,
                                                     NULL
    continuous-Packet-Connectivity-HS-SCCH-Less-Information
                                                                     Continuous-Packet-Connectivity-HS-SCCH-Less-Information
                                                                                                                                         OPTIONAL,
                                        ProtocolExtensionContainer { { HSDSCHPreconfigurationSetup-ExtIEs } }
    iE-Extensions
                                                                                                                                  OPTIONAL,
    . . .
HSDSCHPreconfigurationSetup-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
                                                        CRITICALITY ignore
 ID id-UE-SupportIndicatorExtension
                                                                                 EXTENSION UE-SupportIndicatorExtension
                                                                                                                                  PRESENCE optional } |
{ ID id-power-offset-for-S-CPICH-for-MIMO-Request-Indicator
                                                                 CRITICALITY ignore EXTENSION PowerOffsetForSecondaryCPICHforMIMORequestIndicator
    PRESENCE optional },
    . . .
HS-SCCH-PreconfiguredCodes
                                        ::= SEQUENCE (SIZE (1..maxNrOfHSSCCHCodes)) OF HS-SCCH-PreconfiguredCodesItem
HS-SCCH-PreconfiguredCodesItem ::= SEQUENCE {
    hS-SCCH-CodeNumber
                                HS-SCCH-CodeNumber,
                            ProtocolExtensionContainer { { HS-SCCH-PreconfiguredCodesItem-ExtIEs } } OPTIONAL,
   iE-Extensions
    . . .
HS-SCCH-PreconfiguredCodesItem-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
HS-SCCH-CodeNumber ::= INTEGER (0..127)
HSDSCH-RNTI ::= INTEGER (0..65535)
HS-DSCH-serving-cell-change-information ::= SEQUENCE {
    hS-PDSCH-RLID
                                RL-ID,
    hSDSCH-FDD-Information
                                HSDSCH-FDD-Information
    OPTIONAL,
                                ProtocolExtensionContainer { { HS-DSCH-serving-cell-change-information-ExtIEs } }
    iE-Extensions
                                                                                                                          OPTIONAL,
    . . .
HS-DSCH-serving-cell-change-information-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
{ ID id-Continuous-Packet-Connectivity-HS-SCCH-Less-Information CRITICALITY reject EXTENSION Continuous-Packet-Connectivity-HS-SCCH-Less-
Information
                PRESENCE optional } |
{ ID id-Continuous-Packet-Connectivity-DTX-DRX-Information CRITICALITY reject EXTENSION Continuous-Packet-Connectivity-DTX-DRX-Information
    PRESENCE optional },
    . . .
}
```

```
HS-DSCH-serving-cell-change-informationResponse ::= SEQUENCE {
    hS-DSCH-serving-cell-choice
                                    HS-DSCH-serving-cell-change-choice,
    iE-Extensions
                                     ProtocolExtensionContainer { { HS-DSCH-serving-cell-change-informationResponse-ExtIEs } } OPTIONAL,
    . . .
HS-DSCH-serving-cell-change-informationResponse-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
HS-DSCH-serving-cell-change-choice ::= CHOICE {
    hS-serving-cell-change-successful
                                             HS-serving-cell-change-successful,
    hS-serving-cell-change-unsuccessful
                                             HS-serving-cell-change-unsuccessful,
    . . .
}
HSDSCH-TBSizeTableIndicator ::= ENUMERATED {
    octet-aligned
}
HS-serving-cell-change-successful ::= SEQUENCE {
    hSDSCH-FDD-Information-Response
                                        HSDSCH-FDD-Information-Response,
    hSDSCH-RNTI
                                        HSDSCH-RNTI,
                                         ProtocolExtensionContainer { { HS-serving-cell-change-successful-ExtIEs } } OPTIONAL,
    iE-Extensions
    . . .
HS-serving-cell-change-successful-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
{ ID id-Continuous-Packet-Connectivity-HS-SCCH-Less-Information-Response
                                                                             CRITICALITY ignore EXTENSION Continuous-Packet-Connectivity-HS-SCCH-
Less-Information-Response
                                PRESENCE optional },
    . . .
HS-serving-cell-change-unsuccessful ::= SEQUENCE {
    cause
                                     Cause,
    iE-Extensions
                                    ProtocolExtensionContainer { { HS-serving-cell-change-unsuccessful-ExtIEs } } OPTIONAL,
    . . .
HS-serving-cell-change-unsuccessful-ExtIEs RNSAP-PROTOCOL-EXTENSION ::=
    . . .
HSPDSCH-First-Code-Index ::= INTEGER (1..maxHS-PDSCHCodeNrComp-1)
    -- index of first HS-PDSCH code
HSPDSCH-Second-Code-Index ::= INTEGER (1..maxHS-PDSCHCodeNrComp-1)
    -- index of second HS-PDSCH code
HSPDSCH-Second-Code-Support ::= BOOLEAN
    -- true: applied, false: not applied
HSDSCH-TDD-Information ::= SEQUENCE {
```

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hSDSCH-MACdFlows-Information HSDSCH-MACdFlows-Information, uE-Capabilities-Info UE-Capabilities-Info, mAChs-Reordering-Buffer-Size-for-RLC-UM MAChsReorderingBufferSize-for-RLC-UM, tDD-AckNack-Power-Offset TDD-AckNack-Power-Offset, iE-Extensions ProtocolExtensionContainer { { HSDSCH-TDD-Information-ExtIEs } } OPTIONAL, . . . HSDSCH-TDD-Information-Extles RNSAP-PROTOCOL-EXTENSION ::= CRITICALITY reject EXTENSION HSDSCH-MACdPDUSizeFormat PRESENCE optional } | ID id-HSDSCH-MACdPDUSizeFormat CRITICALITY ignore { ID id-HSSICH-SIRTarget EXTENSION UL-SIR PRESENCE optional } | -- Applicable to 1.28Mcps TDD only { ID id-HSSICH-TPC-StepSize CRITICALITY ignore EXTENSION TDD-TPC-UplinkStepSize-LCR PRESENCE optional } | -- Mandatory for 1.28Mcps TDD only { ID id-tSN-Length CRITICALITY reject EXTENSION TSN-Length PRESENCE optional }| -- Applicable for 1.28Mcps TDD when using multiple frequencies { ID id-MIMO-ActivationIndicator CRITICALITY reject EXTENSION MIMO-ActivationIndicator PRESENCE optional }, . . . HSDSCH-TDD-Information-Response ::= SEQUENCE { hSDSCH-MACdFlow-Specific-InfoList-Response HSDSCH-MACdFlow-Specific-InfoList-Response OPTIONAL, hSSCCH-TDD-Specific-InfoList-Response HSSCCH-TDD-Specific-InfoList-Response OPTIONAL, -- Not Applicable to 1.28Mcps TDD hSSCCH-TDD-Specific-InfoList-Response-LCR HSSCCH-TDD-Specific-InfoList-Response-LCR OPTIONAL, -- Not Applicable to 3.84Mcps TDD or 7.68Mcps TDD. This HSSCCH Specific Information is for the first Frequency repetition, HSSCCH Specific Information for Frequency repetitions 2 and on, should be defined in MultipleFreq-HSPDSCH-InformationList-ResponseTDDLCR hSPDSCH-TDD-Specific-InfoList-Response HSPDSCH-TDD-Specific-InfoList-Response OPTIONAL, hSPDSCH-TDD-Specific-InfoList-Response-LCR HSPDSCH-TDD-Specific-InfoList-Response-LCR OPTIONAL, HARO-MemoryPartitioning hARO-MemoryPartitioning OPTIONAL, -- For 1.28Mcps TDD, this HARQ Memory Partitioning Information is for the first Frequency repetition, HARQ Memory Partitioning Information for Frequency repetitions 2 and on, should be defined in MultipleFreq-HSPDSCH-InformationList-ResponseTDDLCR iE-Extensions ProtocolExtensionContainer { { HSDSCH-TDD-Information-Response-ExtIEs } } OPTIONAL, . . . HSDSCH-TDD-Information-Response-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= { { ID id-User-Plane-Congestion-Fields-Inclusion CRITICALITY ignore EXTENSION User-Plane-Congestion-Fields-Inclusion PRESENCE optional } | { ID id-hSSCCH-TDD-Specific-InfoList-Response768 CRITICALITY ignore EXTENSION HSSCCH-TDD-Specific-InfoList-Response768 PRESENCE optional } | { ID id-hSPDSCH-TDD-Specific-InfoList-Response768 CRITICALITY ignore EXTENSION HSPDSCH-TDD-Specific-InfoList-Response768 PRESENCE optional } | { ID id-UARFCNforNt CRITICALITY ignore EXTENSION UARFCN PRESENCE optional } -- Applicable to 1.28Mcps TDD when using multiple frequencies , This is the UARFCN for the first Frequency repetition { ID id-multipleFreq-HSPDSCH-InformationList-ResponseTDDLCR CRITICALITY ignore EXTENSION MultipleFreq-HSPDSCH-InformationList-ResponseTDDLCR PRESENCE optional }| -- Applicable to 1.28Mcps TDD when using multiple frequencies , This MultipleFreq-HSPDSCH-InformationList-ResponseTDDLCR is the HS-SCCH and HARQ Memory Partitioning information for the 2<sup>nd</sup> and beyond HS-PDSCH frequencies { ID id-multicarrier-number CRITICALITY ignore EXTENSION Multicarrier-Number PRESENCE optional }|

```
-- Applicable for 1.28Mcps TDD when using multiple frequencies
{ID id-MIMO-SFMode-For-HSPDSCHDualStream
                                                    CRITICALITY reject
                                                                             EXTENSION MIMO-SFMode-For-HSPDSCHDualStream
            PRESENCE optional } |
{ID id-MIMO-ReferenceSignal-InformationListLCR CRITICALITY reject EXTENSION MIMO-ReferenceSignal-InformationListLCR
                                                                                                                                         PRESENCE
optional}|
 ID id-TS0-HS-PDSCH-Indication-LCR CRITICALITY ignore
                                                             EXTENSION TS0-HS-PDSCH-Indication-LCR
                                                                                                                  PRESENCE optional }|
{ ID id-Out-of-Sychronization-Window
                                                         CRITICALITY reject
                                                                                 EXTENSION Out-of-Sychronization-Window
    PRESENCE optional },
    . . .
Multicarrier-Number ::= INTEGER (1..maxHSDPAFrequency)
HSPDSCH-TDD-Specific-InfoList-Response ::= SEQUENCE (SIZE (0..maxNrOfDLTs)) OF HSPDSCH-TDD-Specific-InfoItem-Response
HSPDSCH-TDD-Specific-InfoItem-Response ::= SEQUENCE {
    timeslot
                                                     TimeSlot,
    midambleShiftAndBurstType
                                                     MidambleShiftAndBurstType,
    iE-Extensions
                                                     ProtocolExtensionContainer { { HSPDSCH-TDD-Specific-InfoItem-Response-ExtIEs } }
    OPTIONAL,
    . . .
HSPDSCH-TDD-Specific-InfoItem-Response-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
}
HSPDSCH-TDD-Specific-InfoList-Response-LCR ::= SEOUENCE (SIZE (1.. maxNrOfDLTsLCR)) OF HSPDSCH-TDD-Specific-InfoItem-Response-LCR
HSPDSCH-TDD-Specific-InfoItem-Response-LCR ::= SEQUENCE {
    timeslotLCR
                                                TimeSlotLCR,
    midambleShiftLCR
                                                MidambleShiftLCR,
    iE-Extensions
                                                ProtocolExtensionContainer { { HSPDSCH-TDD-Specific-InfoItem-Response-LCR-ExtIEs } }
    OPTIONAL,
    . . .
HSPDSCH-TDD-Specific-InfoItem-Response-LCR-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
}
HSPDSCH-TDD-Specific-InfoList-Response768 ::= SEQUENCE (SIZE (0..maxNrOfDLTs)) OF HSPDSCH-TDD-Specific-InfoItem-Response768
HSPDSCH-TDD-Specific-InfoItem-Response768 ::= SEQUENCE {
    timeslot
                                                     TimeSlot.
   midambleShiftAndBurstType768
                                                    MidambleShiftAndBurstType768,
                                                    ProtocolExtensionContainer { { HSPDSCH-TDD-Specific-InfoItem-Response-768-ExtIEs } }
    iE-Extensions
        OPTIONAL,
    . . .
}
HSPDSCH-TDD-Specific-InfoItem-Response-768-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
```

```
HSSCCH-FDD-Specific-InfoList-Response ::= SEOUENCE (SIZE (0..maxNrOfHSSCCHCodes)) OF HSSCCH-FDD-Specific-InfoItem-Response
HSSCCH-FDD-Specific-InfoItem-Response ::= SEQUENCE
    code-Number
                                                     INTEGER (0..127),
   iE-Extensions
                                                     ProtocolExtensionContainer { { HSSCCH-FDD-Specific-InfoItem-Response-ExtIEs } }
   OPTIONAL,
    . . .
}
HSSCCH-FDD-Specific-InfoItem-Response-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
}
HSSCCH-PowerOffset ::= INTEGER (0..255)
-- PowerOffset = -32 + offset * 0.25
-- Unit dB, Range -32dB .. +31.75dB, Step +0.25dB
HSSCCH-TDD-Specific-InfoList-Response ::= SEOUENCE (SIZE (0..maxNrOfHSSCCHCodes)) OF HSSCCH-TDD-Specific-InfoItem-Response
HSSCCH-TDD-Specific-InfoItem-Response ::= SEQUENCE {
    timeslot
                                                     TimeSlot,
                                                    MidambleShiftAndBurstType,
    midambleShiftAndBurstType
                                                    TDD-ChannelisationCode,
    tDD-ChannelisationCode
   hSSICH-Info
                                                    HSSICH-Info,
    iE-Extensions
                                                     ProtocolExtensionContainer { { HSSCCH-TDD-Specific-InfoItem-Response-ExtIEs } }
    OPTIONAL,
    . . .
HSSCCH-TDD-Specific-Infoltem-Response-Extles RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
}
HSSCCH-TDD-Specific-InfoList-Response-LCR ::= SEQUENCE (SIZE (0..maxNrOfHSSCCHCodes)) OF HSSCCH-TDD-Specific-InfoItem-Response-LCR
HSSCCH-TDD-Specific-InfoItem-Response-LCR ::= SEQUENCE {
    timeslotLCR
                                                TimeSlotLCR,
    midambleShiftLCR
                                                MidambleShiftLCR,
    first-TDD-ChannelisationCode
                                                TDD-ChannelisationCode,
    second-TDD-ChannelisationCode
                                            TDD-ChannelisationCode,
   hSSICH-InfoLCR
                                                HSSICH-InfoLCR,
   iE-Extensions
                                                 ProtocolExtensionContainer { { HSSCCH-TDD-Specific-InfoItem-Response-LCR-ExtIEs } }
    OPTIONAL,
    . . .
HSSCCH-TDD-Specific-InfoItem-Response-LCR-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
HSSCCH-TDD-Specific-InfoList-Response768 ::= SEQUENCE (SIZE (0..maxNrOfHSSCCHCodes)) OF HSSCCH-TDD-Specific-InfoItem-Response768
HSSCCH-TDD-Specific-InfoItem-Response768 ::= SEQUENCE {
```

```
timeslot
                                                     TimeSlot,
    midambleShiftAndBurstType768
                                                     MidambleShiftAndBurstType768,
    tDD-ChannelisationCode768
                                                     TDD-ChannelisationCode768.
    hSSICH-Info768
                                                     HSSICH-Info768,
    iE-Extensions
                                                     ProtocolExtensionContainer { { HSSCCH-TDD-Specific-InfoItem-Response768-ExtIEs } }
    OPTIONAL,
    . . .
}
HSSCCH-TDD-Specific-InfoItem-Response768-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
}
HSSICH-Info ::= SEQUENCE {
   hsSICH-ID
                                                     HS-SICH-ID,
    timeslot
                                                     TimeSlot,
    midambleShiftAndBurstType
                                                     MidambleShiftAndBurstType,
    tDD-ChannelisationCode
                                                     TDD-ChannelisationCode,
                                                     ProtocolExtensionContainer { { HSSICH-Info-ExtIEs } }
    iE-Extensions
                                                                                                                                   OPTIONAL,
    . . .
HSSICH-Info-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
}
HSSICH-InfoLCR ::= SEQUENCE {
    hsSICH-ID
                                                     HS-SICH-ID,
    timeslotLCR
                                                     TimeSlotLCR,
    midambleShiftLCR
                                                     MidambleShiftLCR,
    tDD-ChannelisationCode
                                                 TDD-ChannelisationCode,
                                                     ProtocolExtensionContainer { { HSSICH-Info-LCR-ExtIEs } }
    iE-Extensions
                                                                                                                                   OPTIONAL,
    . . .
}
HSSICH-Info-LCR-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    { ID id-HS-SICH-ID-Extension
                                             CRITICALITY iqnore
                                                                      EXTENSION HS-SICH-ID-Extension
                                                                                                            PRESENCE optional },
    -- Applicable for 1.28Mcps TDD only when the HS-SICH ID IE is more than 31
    . . .
}
HSSICH-Info768 ::= SEQUENCE {
    hsSICH-ID
                                                     HS-SICH-ID,
    timeslot
                                                     TimeSlot,
    midambleShiftAndBurstType768
                                                     MidambleShiftAndBurstTvpe768,
    tDD-ChannelisationCode768
                                                     TDD-ChannelisationCode768,
    iE-Extensions
                                                     ProtocolExtensionContainer { { HSSICH-Info-768-ExtIEs } }
                                                                                                                                   OPTIONAL,
    . . .
HSSICH-Info-768-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
}
```

# ETSI TS 125 423 V9.8.0 (2012-01)

```
HS-SICH-Reception-Quality-Value ::= SEQUENCE {
    failed-HS-SICH
                                HS-SICH-failed,
    missed-HS-SICH
                                HS-SICH-missed.
    total-HS-SICH
                                HS-SICH-total,
    iE-Extensions
                                ProtocolExtensionContainer { { HS-SICH-Reception-Quality-Value-ExtIEs } } OPTIONAL,
. . .
HS-SICH-Reception-Quality-Value-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
HS-SICH-failed ::= INTEGER (0..20)
HS-SICH-missed ::= INTEGER (0..20)
HS-SICH-total ::= INTEGER (0..20)
HS-SICH-Reception-Quality-Measurement-Value ::= INTEGER (0..20)
-- According to mapping in TS 25.133 [23]
HS-SICH-ID ::= INTEGER (0..31)
HS-SICH-ID-Extension ::= INTEGER (32..255,...)
HSSCCH-CodeChangeIndicator ::= ENUMERATED {
    hsSCCHCodeChangeNeeded
}
HSSCCH-Code-Change-Grant
                            ::= ENUMERATED {
    changeGranted
HS-PDSCH-Code-Change-Indicator ::= ENUMERATED {
    hsPDSCHCodeChangeNeeded
HS-PDSCH-Code-Change-Grant := ENUMERATED {
    changeGranted
}
HSDSCH-FDD-Update-Information ::= SEQUENCE {
    hsSCCHCodeChangeIndicator
                                                     HSSCCH-CodeChangeIndicator
                                                                                                  OPTIONAL,
    cqiFeedback-CycleK
                                                     CQI-Feedback-Cycle
                                                                                                  OPTIONAL,
    cqiRepetitionFactor
                                                     CQI-RepetitionFactor
                                                                                                  OPTIONAL.
                                                     AckNack-RepetitionFactor
    ackNackRepetitionFactor
                                                                                                  OPTIONAL,
                                                     COI-Power-Offset
    cgiPowerOffset
                                                                                                  OPTIONAL,
                                                     Ack-Power-Offset
    ackPowerOffset
                                                                                                  OPTIONAL,
    nackPowerOffset
                                                     Nack-Power-Offset
                                                                                                  OPTIONAL,
                                                     ProtocolExtensionContainer { { HSDSCH-FDD-Update-Information-ExtIEs } }
    iE-Extensions
                                                                                                                                          OPTIONAL,
    . . .
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}
```

HSDSCH-FDD-Update-Information-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {

938 3GPP TS 25.423 version 9.8.0 Release 9 ETSI TS 125 423 V9.8.0 (2012-01) PRESENCE optional }, {ID id-HS-PDSCH-Code-Change-Indicator CRITICALITY ignore HS-PDSCH-Code-Change-Indicator EXTENSION HSDSCH-TDD-Update-Information ::= SEQUENCE { hsSCCHCodeChangeIndicator HSSCCH-CodeChangeIndicator OPTIONAL, tDDAckNackPowerOffset TDD-AckNack-Power-Offset OPTIONAL, iE-Extensions ProtocolExtensionContainer { { HSDSCH-TDD-Update-Information-ExtIEs } } OPTIONAL, . . . HSDSCH-TDD-Update-Information-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= { . . . MIMO-ReferenceSignal-InformationListLCR ::= SEOUENCE (SIZE (1..maxNrOfHSSCCHCodes)) OF HSSICH-ReferenceSignal-InformationLCR HSSICH-ReferenceSignal-InformationLCR ::= SEQUENCE { midambleConfigurationLCR MidambleConfigurationLCR, midambleShift INTEGER (0..15), timeSlotLCR TimeSlotLCR, ProtocolExtensionContainer { { HSSICH-ReferenceSignal-InformationLCR-ExtIEs } } iE-Extensions OPTIONAL, . . . HSSICH-ReferenceSignal-InformationLCR-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= { . . . HS-DSCH-Semi-PersistentScheduling-Information-LCR ::= SEQUENCE { transport-Block-Size-List Transport-Block-Size-List-LCR, repetition-Period-List-LCR Repetition-Period-List-LCR, hS-DSCH-SPS-Reservation-Indicator SPS-Reservation-Indicator OPTIONAL, hS-DSCH-SPS-Operation-Indicator HS-DSCH-SPS-Operation-Indicator, ProtocolExtensionContainer { { HS-DSCH-Semi-PersistentScheduling-Information-LCR-ExtIEs } } iE-Extensions OPTIONAL, . . . HS-DSCH-Semi-PersistentScheduling-Information-LCR-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= { . . . HSDSCH-Physical-Layer-Category ::= INTEGER (1..64) Transport-Block-Size-List-LCR ::= SEQUENCE (SIZE (1..maxNoOfTBSs-Mapping-HS-DSCH-SPS)) OF Transport-Block-Size-Item-LCR Transport-Block-Size-Item-LCR ::= SEQUENCE { transport-Block-Size-maping-Index-LCR Transport-Block-Size-maping-Index-LCR, transport-Block-Size-Index-LCR Transport-Block-Size-Index-LCR, ProtocolExtensionContainer { { Transport-Block-Size-Item-LCR-ExtIEs } } iE-Extensions OPTIONAL, . . .

```
Transport-Block-Size-Item-LCR-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
}
Transport-Block-Size-maping-Index-LCR ::= INTEGER (0..maxNoOfTBSs-Mapping-HS-DSCH-SPS-1)
Transport-Block-Size-Index-LCR ::= INTEGER (1..maxNoOfHS-DSCH-TBSsLCR)
TS0-HS-PDSCH-Indication-LCR ::= NULL
Repetition-Period-List-LCR ::= SEQUENCE (SIZE (1..maxNoOfRepetition-Period-LCR)) OF Repetition-Period-Item-LCR
Repetition-Period-Item-LCR ::= SEQUENCE {
    repetitionPeriodIndex
                                RepetitionPeriodIndex,
    repetitionPeriod
                                RepetitionPeriod,
    repetitionLength
                                RepetitionLength
                                                                 OPTIONAL,
                                ProtocolExtensionContainer { { Repetition-Period-Item-LCR-ExtIEs } }
    iE-Extensions
                                                                                                                          OPTIONAL,
    . . .
Repetition-Period-Item-LCR-ExtIEs RNSAP-PROTOCOL-EXTENSION ::=
    . . .
RepetitionPeriodIndex ::= INTEGER (0..maxNoOfRepetitionPeriod-SPS-LCR-1)
SPS-Reservation-Indicator ::= ENUMERATED {
    reserve
HS-DSCH-SPS-Operation-Indicator ::= CHOICE {
    logicalChannellevel
                                LogicalChannellevel,
   priorityQueuelevel
                                PriorityQueuelevel,
    . . .
LogicalChannellevel ::= BIT STRING (SIZE (16))
PriorityQueuelevel ::= BIT STRING (SIZE (8))
HS-DSCH-Semi-PersistentScheduling-Information-to-Modify-LCR ::= SEQUENCE {
    transport-Block-Size-List
                                            Transport-Block-Size-List-LCR
                                                                                         OPTIONAL,
                                            Repetition-Period-List-LCR
    repetition-Period-List-LCR
                                                                                     OPTIONAL,
    hS-DSCH-SPS-Reservation-Indicator
                                            SPS-Reservation-Indicator
                                                                                     OPTIONAL,
    hS-DSCH-SPS-Operation-Indicator
                                            HS-DSCH-SPS-Operation-Indicator
                                                                                     OPTIONAL,
    iE-Extensions
                                            ProtocolExtensionContainer { { HS-DSCH-Semi-PersistentScheduling-Information-to-Modify-LCR-ExtIEs } }
                            OPTIONAL,
    . . .
HS-DSCH-Semi-PersistentScheduling-Information-to-Modify-LCR-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
```

```
HS-DSCH-Semi-PersistentScheduling-Information-ResponseLCR ::= SEQUENCE {
    hS-SICH-InformationList-for-HS-DSCH-SPS
                                                HS-SICH-InformationList-for-HS-DSCH-SPS,
    initial-HS-PDSCH-SPS-Resource
                                                Initial-HS-PDSCH-SPS-Resource
                                                                                         OPTIONAL.
    buffer-Size-for-HS-DSCH-SPS
                                                 Process-Memory-Size
                                                                                         OPTIONAL,
    number-of-Processes-for-HS-DSCH-SPS
                                                Number-of-Processes-for-HS-DSCH-SPS
                                                                                         OPTIONAL,
    iE-Extensions
                                                 ProtocolExtensionContainer { { HS-DSCH-Semi-PersistentScheduling-Information-ResponseLCR-ExtIEs } }
            OPTIONAL,
    . . .
}
HS-DSCH-Semi-PersistentScheduling-Information-ResponseLCR-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
}
HS-SICH-InformationList-for-HS-DSCH-SPS ::= SEQUENCE (SIZE (1..maxNoOf-HS-SICH-SPS)) OF HS-SICH-InformationItem-for-HS-DSCH-SPS
HS-SICH-InformationItem-for-HS-DSCH-SPS ::= SEQUENCE {
    hS-SICH-Mapping-Index
                                    HS-SICH-Mapping-Index
                                                                     OPTIONAL,
    hS-SICH-Type
                                    HS-SICH-Type,
    iE-Extensions
                                    ProtocolExtensionContainer { { HS-SICH-InformationItem-for-HS-DSCH-SPS-ExtIEs } }
                                                                                                                                          OPTIONAL,
    . . .
HS-SICH-InformationItem-for-HS-DSCH-SPS-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
}
HS-SICH-Mapping-Index ::= INTEGER (0..maxNoOf-HS-SICH-SPS-1)
HS-SICH-Type ::= CHOICE {
    hS-SCCH-Associated-HS-SICH
                                        HS-SCCH-Associated-HS-SICH,
    non-HS-SCCH-Associated-HS-SICH
                                        Non-HS-SCCH-Associated-HS-SICH,
    . . .
HS-SCCH-Associated-HS-SICH ::= SEQUENCE {
    hsSICH-ID
                                        HS-SICH-ID,
    extended-HS-SICH-ID
                                        HS-SICH-ID-Extension
                                                                         OPTIONAL,
. . .
}
Non-HS-SCCH-Associated-HS-SICH: = SEQUENCE {
    non-HS-SCCH-Aassociated-HS-SICH-ID Non-HS-SCCH-Aassociated-HS-SICH-ID,
. . .
}
Non-HS-SCCH-Aassociated-HS-SICH-ID ::= INTEGER (0..255)
Initial-HS-PDSCH-SPS-Resource::= SEQUENCE {
    repetitionPeriodIndex
                                                 RepetitionPeriodIndex,
    repetitionLength
                                                 RepetitionLength
                                                                             OPTIONAL,
    hS-PDSCH-Offset
                                                 TDD-PhysicalChannelOffset,
```

```
hS-PDSCH-Midamble-Configuation
                                                 MidambleShiftLCR,
    timeslot-Resource-Related-Information
                                                 HS-DSCH-TimeslotResourceLCR,
    startCode
                                                 TDD-ChannelisationCode.
    endCode
                                                 TDD-ChannelisationCode,
    transport-Block-Size-Index
                                                 Transport-Block-Size-Index-LCR,
                                                 ModulationSPS-LCR,
    modulationType
    hS-SICH-Mapping-Index
                                                 HS-SICH-Mapping-Index,
    iE-Extensions
                                                 ProtocolExtensionContainer { { Initial-HS-PDSCH-SPS-Resource-ExtIEs } }
                                                                                                                                          OPTIONAL,
. . .
}
Initial-HS-PDSCH-SPS-Resource-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
HS-DSCH-TimeslotResourceLCR ::= BIT STRING (SIZE (5))
ModulationSPS-LCR ::= ENUMERATED {
    qPSK,
    sixteenQAM,
    . . .
}
Number-of-Processes-for-HS-DSCH-SPS ::= INTEGER (1..16)
-- I
IMEI
            ::= OCTET STRING (SIZE(8))
IMEISV
            ::= OCTET STRING (SIZE(8))
IMSI
            ::= OCTET STRING (SIZE(3..8))
Inactivity-Threshold-for-UE-DTX-Cycle2 ::= ENUMERATED {v1, v4, v8, v16, v32, v64, v128, v256}
-- Unit E-DCH TTI
Inactivity-Threshold-for-UE-DRX-Cycle ::= ENUMERATED {v0, v1, v2, v4, v8, v16, v32, v64, v128, v256, v512}
-- Unit subframe
Inactivity-Threshold-for-UE-Grant-Monitoring ::= ENUMERATED {v0, v1, v2, v4, v8, v16, v32, v64, v128, v256}
-- Unit E-DCH TTI
InformationAvailable::= SEOUENCE {
    requestedDataValue
                            RequestedDataValue,
    iE-Extensions
                            ProtocolExtensionContainer { { InformationAvailable-ExtIEs } }
                                                                                                  OPTIONAL,
    . . .
}
InformationAvailable-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
}
```

```
InformationExchangeID ::= INTEGER (0..1048575)
InformationNotAvailable ::= NULL
InformationReportCharacteristics ::= CHOICE {
    onDemand
                            NULL,
    periodic
                            PeriodicInformation,
    onModification
                          OnModificationInformation,
    . . .
}
InformationReportPeriodicity ::= CHOICE {
    min
                    INTEGER (1..60,...),
-- Unit min, Step 1min
    hour
                    INTEGER (1..24,...),
-- Unit hour, Step 1hour
    . . .
}
InformationThreshold ::= CHOICE {
    dGPSThreshold
                        DGPSThreshold,
    ...,
    dGANSSThreshold
                       DGANSSThreshold
}
InformationType ::= SEQUENCE {
    informationTypeItem
                            ENUMERATED {
        gA-AccessPointPositionwithAltitude,
        gA-AccessPointPosition,
        iPDLParameters,
        gPSInformation,
        dGPSCorrections,
        qPS-RX-POS,
        sFNSFN-GA-AccessPointPosition,
        . . . ,
        cell-Capacity-Class,
        nACC-Related-Data,
        mBMSBearerServiceFullAddress,
        interFrequencyCellInformation,
        gANSSInformation,
        dGANSSCorrections,
        gANSS-RX-Pos,
        mBMS-Counting-Information,
        mBMS-Transmission-Mode,
        mBMS-Neighbouring-Cell-Information,
        mBMS-RLC-Sequence-Number
    },
    qPSInformation
                                GPSInformation
                                                         OPTIONAL,
                                ProtocolExtensionContainer { { InformationType-ExtIEs } }
    iE-Extensions
                                                                                                  OPTIONAL,
    . . .
```

-- The GPS Information IE shall be present if the Information Exchange Type IE indicates 'GPS Information'

-- For information exchange on the Iur-g interface, only the Cell Capacity Class is used.

```
InformationType-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
-- The following IE shall be present if the Information Type Item IE indicates 'GANSS Information'
    { ID id-GANSS-Information
                                        CRITICALITY ignore EXTENSION GANSS-Information
                                                                                                 PRESENCE conditional }|
-- The following IE shall be present if the Information Type Item IE indicates 'DGANSS Corrections'
    { ID id-DGANSS-Corrections-Reg
                                        CRITICALITY ignore EXTENSION DGANSS-Corrections-Reg
                                                                                                 PRESENCE conditional }|
-- The following IE shall be present if the Information Type Item IE indicates 'MBMS RLC Sequence Number'
    { ID id-MBMS-RLC-Sequence-Number-Information
                                                        CRITICALITY ignore EXTENSION MBMS-RLC-Sequence-Number-Information
                                                                                                                                 PRESENCE conditional
},
    . . .
Initial-DL-DPCH-TimingAdjustment-Allowed ::= ENUMERATED
    initial-DL-DPCH-TimingAdjustment-Allowed
3
InnerLoopDLPCStatus
                       ::= ENUMERATED {active, inactive}
IPDLParameters ::= CHOICE {
    iPDL-FDD-Parameters
                                IPDL-FDD-Parameters,
    iPDL-TDD-Parameters
                                IPDL-TDD-Parameters,
                                                        --3.84Mcps TDD and 7.68Mcps TDD only
    ...,
    extension-IPDLParameters
                                Extension-IPDLParameters
Extension-IPDLParameters
                           := ProtocolIE-Single-Container {{ Extension-IPDLParametersIE }}
Extension-IPDLParametersIE RNSAP-PROTOCOL-IES ::= {
    { ID id-IPDL-TDD-ParametersLCR CRITICALITY reject TYPE IPDL-TDD-ParametersLCR PRESENCE mandatory },
    . . .
Inter-Frequency-Cell-List ::= SEQUENCE (SIZE (0..maxCellsMeas)) OF Inter-Frequency-Cell
Inter-Frequency-Cell ::= SEQUENCE {
    dL-UARFCN
                                UARFCN,
                                UARFCN
    uL-UARFCN
                                            OPTIONAL,
    primaryScramblingCode
                                PrimaryScramblingCode,
    iE-Extensions
                                ProtocolExtensionContainer { {Inter-Frequency-Cell-ExtIEs} }
                                                                                                  OPTIONAL,
    . . .
Inter-Frequency-Cell-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
Inter-Frequency-Cell-Information ::= SEQUENCE {
    inter-Frequency-Cell-Information-SIB11
                                                Inter-Frequency-Cell-Information-SIB11,
                                                Inter-Frequency-Cell-Information-SIB12,
    inter-Frequency-Cell-Information-SIB12
                                ProtocolExtensionContainer { {Inter-Frequency-Cell-Information-ExtIEs } }
    iE-Extensions
                                                                                                                 OPTIONAL,
    . . .
```

```
Inter-Frequency-Cell-Information-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
Inter-Frequency-Cell-Information-SIB11 ::= SEQUENCE (SIZE (0..2)) OF Inter-Frequency-Cells-Information-SIB11-Per-Indication
Inter-Frequency-Cell-Information-SIB12 ::= SEQUENCE (SIZE (0..2)) OF Inter-Frequency-Cells-Information-SIB12-Per-Indication
Inter-Frequency-Cells-Information-SIB11-Per-Indication ::= SEQUENCE {
    inter-Frequency-Cell-Indication-SIB11 Inter-Frequency-Cell-Indication,
    inter-Frequency-Cell-List-SIB11
                                       Inter-Frequency-Cell-SIB11-or-SIB12-List,
                                ProtocolExtensionContainer { { Inter-Frequency-Cells-Information-SIB11-Per-Indication-ExtIEs } }
   iE-Extensions
                                                                                                                                         OPTIONAL,
    . . .
Inter-Frequency-Cells-Information-SIB11-Per-Indication-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
Inter-Frequency-Cells-Information-SIB12-Per-Indication ::= SEQUENCE {
    inter-Frequency-Cell-Indication-SIB12 Inter-Frequency-Cell-Indication,
    inter-Frequency-Cell-List-SIB12
                                        Inter-Frequency-Cell-SIB11-or-SIB12-List,
                                ProtocolExtensionContainer { { Inter-Frequency-Cells-Information-SIB12-Per-Indication-ExtIEs } }
   iE-Extensions
                                                                                                                                         OPTIONAL,
    . . .
Inter-Frequency-Cells-Information-SIB12-Per-Indication-Extles RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
}
Inter-Frequency-Cell-Indication ::= INTEGER (0..1)
Inter-Frequency-Cell-SIB11-or-SIB12-List ::= SEQUENCE (SIZE (0..maxCellSIB11OrSIB12)) OF Inter-Frequency-Cell-SIB11-or-SIB12
Inter-Frequency-Cell-SIB11-or-SIB12 ::= SEQUENCE {
   interFrequencyCellID
                                InterFrequencyCellID,
    dL-UARFCN
                                UARFCN,
    uL-UARFCN
                                UARFCN
                                            OPTIONAL,
    primaryScramblingCode
                                PrimaryScramblingCode,
    iE-Extensions
                                ProtocolExtensionContainer { {Inter-Frequency-Cell-ExtIEs} }
                                                                                                   OPTIONAL,
    . . .
InterFrequencyCellID ::= INTEGER (0..31)
IPDL-FDD-Parameters ::= SEOUENCE {
    iPSpacingFDD
                                IPSpacingFDD,
    iPLength
                                IPLength,
    iPOffset
                                IPOffset,
    seed
                                Seed,
    burstModeParameters
                                BurstModeParameters
                                                         OPTIONAL,
    iE-Extensions
                                ProtocolExtensionContainer { { IPDL-FDD-Parameters-ExtIEs } }
                                                                                                   OPTIONAL,
    . . .
```

```
}
IPDL-FDD-Parameters-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
}
IPDL-TDD-Parameters ::= SEQUENCE {
    iPSpacingTDD
                                 IPSpacingTDD,
    iPStart
                                IPStart,
    iPSlot
                                 IPSlot,
    iP-P-CCPCH
                                IP-P-CCPCH,
                                 BurstModeParameters
    burstModeParameters
                                                         OPTIONAL,
                                 ProtocolExtensionContainer { { IPDL-TDD-Parameters-ExtIEs } }
    iE-Extensions
                                                                                                    OPTIONAL,
    . . .
}
-- The BurstModeParameters IE shall be included if the Idle Periods are arranged in Burst Mode.
IPDL-TDD-Parameters-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
IPDL-TDD-ParametersLCR ::= SEQUENCE {
    iPSpacingTDD
                                 IPSpacingTDD,
    iPStart
                                IPStart,
    i PSub
                                 IPSub,
    burstModeParameters
                                 BurstModeParameters
                                                         OPTIONAL,
                                 ProtocolExtensionContainer { { IPDL-TDD-ParametersLCR-ExtIEs } } OPTIONAL,
    iE-Extensions
    . . .
}
-- The BurstModeParameters IE shall be included if the Idle Periods are arranged in Burst Mode.
IPDL-TDD-ParametersLCR-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
IPLength ::= ENUMERATED {
    ipl5,
    ipl10,
    . . .
}
IPMulticastAddress ::= OCTET STRING (SIZE (4..16))
IPOffset ::= INTEGER (0..9)
IP-P-CCPCH ::= ENUMERATED {
    switchOff-1-Frame,
    switchOff-2-Frames
}
IPSlot ::= INTEGER (0..14)
```

IPSpacingFDD ::= ENUMERATED { ipsF5, ipsF7, ipsF10, ipsF15, ipsF20, ipsF30, ipsF40, ipsF50, . . . } IPSpacingTDD ::= ENUMERATED { ipsT30, ipsT40, ipsT50, ipsT70, ipsT100, . . . } IPStart ::= INTEGER (0..4095) IPSub ::= ENUMERATED { first, second, both } IdleIntervalInformation ::= SEQUENCE { idleIntervalInfo-k INTEGER(2..3), idleIntervalInfo-offset INTEGER(0..7), . . . } -- J -- K -- L LAC ::= OCTET STRING (SIZE (2)) -- (EXCEPT (`0000'H|'FFFE'H)) LimitedPowerIncrease ::= ENUMERATED { used, not-used } List-Of-PLMNs ::= SEQUENCE (SIZE (1..maxNrOfBroadcastPLMNs)) OF PLMN-Identity L3-Information ::= BIT STRING Load-Value-IncrDecrThres ::= INTEGER(0..100) Load-Value ::= INTEGER(0..100)

**ETSI** 

```
LoadValue ::= SEQUENCE {
       uplinkLoadValue
                            INTEGER(0..100),
       downlinkLoadValue INTEGER(0..100)
}
LCRTDD-Uplink-Physical-Channel-Capability ::= SEOUENCE {
    maxTimeslotsPerSubFrame
                                       INTEGER(1..6),
                                        ENUMERATED{ts1, ts2, ts3, ts4,...},
    maxPhysChPerTimeslot
   iE-Extensions
                                        ProtocolExtensionContainer { { LCRTDD-Uplink-Physical-Channel-Capability-ExtIEs } } OPTIONAL,
    . . .
LCRTDD-Uplink-Physical-Channel-Capability-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
}
-- M
MaxNrOfUL-DPCHs
                         ::= INTEGER (1..6)
MAC-c-sh-SDU-Length
                     ::= INTEGER (1..5000)
MAC-c-sh-SDU-LengthList ::= SEQUENCE(SIZE(1..maxNrOfMACcshSDU-Length)) OF MAC-c-sh-SDU-Length
MAC-DTX-Cycle-2ms ::= ENUMERATED {v1, v4, v5, v8, v10, v16, v20}
MAC-DTX-Cycle-10ms ::= ENUMERATED {v5, v10, v20}
MAC-ehs-Reset-Timer ::= ENUMERATED {v1, v2, v3, v4,...}
MAC-Inactivity-Threshold ::= ENUMERATED {v1, v2, v4, v8, v16, v32, v64, v128, v256, v512, infinity}
    -- Unit subframe
MACdPDU-Size ::= INTEGER (1..5000,...)
    -- In case of E-DCH value 8 and values not multiple of 8 shall not be used
MAC-PDU-SizeExtended ::= INTEGER (1..1504,...,1505)
    -- In case of E-DCH value 1 shall not be used
MACdPDU-Size-IndexList ::= SEQUENCE (SIZE (1..maxNrOfPDUIndexes)) OF MACdPDU-Size-IndexItem
MACdPDU-Size-IndexItem ::= SEQUENCE {
    sID
                                        SID,
                                        MACdPDU-Size,
   mACdPDU-Size
   iE-Extensions
                                        ProtocolExtensionContainer { { MACdPDU-Size-IndexItem-ExtIEs } }
                                                                                                                        OPTIONAL,
    . . .
MACdPDU-Size-IndexItem-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
}
```

MACdPDU-Size-IndexList-to-Modify ::= SEQUENCE (SIZE (1..maxNrOfPDUIndexes)) OF MACdPDU-Size-IndexItem-to-Modify

```
MACdPDU-Size-IndexItem-to-Modify ::= SEQUENCE {
    sID
                                        SID.
    mACdPDU-Size
                                        MACdPDU-Size,
    iE-Extensions
                                        ProtocolExtensionContainer { { MACdPDU-Size-IndexItem-to-Modify-ExtIEs } }
                                                                                                                                        OPTIONAL,
    . . .
MACdPDU-Size-IndexItem-to-Modify-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
}
MACes-Guaranteed-Bitrate ::= INTEGER (0..16777215,...,16777216..256000000)
MACes-Maximum-Bitrate-LCR ::= INTEGER (0..25600000,...)
MACeReset-Indicator ::= ENUMERATED {mACeReset}
MAChsGuaranteedBitRate ::= INTEGER (0..16777215,...,16777216..256000000)
MAChsReorderingBufferSize-for-RLC-UM ::= INTEGER (0..300,...)
-- Unit kBytes
MAC-hsWindowSize
                        ::= ENUMERATED {v4, v6, v8, v12, v16, v24, v32,..., v64, v128}
MAChsResetScheme ::= ENUMERATED {
    always,
    interNodeB-change
}
MaximumAllowedULTxPower
                          ::= INTEGER (-50..33)
Max-Bits-MACe-PDU-non-scheduled ::= INTEGER(1..maxNrOfBits-MACe-PDU-non-scheduled)
MaxNrDLPhysicalchannels
                          ::= INTEGER (1..224)
-- 1.28Mcps TDD 97 - 224 are unused
MaxNrDLPhysicalchannels768 ::= INTEGER (1..448)
MaxNrDLPhysicalchannelsTS := INTEGER (1..16)
MaxNrDLPhysicalchannelsTS768 ::= INTEGER (1..32)
MaxNr-Retransmissions-EDCH ::= INTEGER (0..15)
MaxNrTimeslots
                           ::= INTEGER (1..14)
-- 1.28Mcps values 7-14 are unused
MaxNrULPhysicalchannels
                           ::= INTEGER (1..2)
Max-Set-E-DPDCHs ::= ENUMERATED {
    vN256, vN128, vN64, vN32, vN16, vN8, vN4, v2xN4, v2xN2, v2xN2plus2xN4,
    ...,
```

```
v2xM2plus2xM4
-- Values releated to TS 25.212 [9]
Max-UE-DTX-Cycle ::= ENUMERATED {
    v5, v10, v20, v40, v64, v80, v128, v160,
    . . .
    }
MBMS-Bearer-Service-Full-Address ::= SEQUENCE {
    accessPointName
                                            AccessPointName,
    iPMulticastAddress
                                            IPMulticastAddress,
   iE-Extensions
                                        ProtocolExtensionContainer { { MBMS-Bearer-Service-Full-Address-ExtIEs } }
                                                                                                                                         OPTIONAL,
    . . .
}
MBMS-Bearer-Service-Full-Address-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
}
MBMS-Bearer-Service-List := SEQUENCE (SIZE (1..maxNrOfMBMSServices)) OF TMGI
MBMS-Bearer-ServiceItemFDD ::=SEOUENCE{
    tmgi TMGI,
    transmissionMode
                       TransmissionMode,
    iE-Extensions
                                    ProtocolExtensionContainer { { MBMS-Bearer-ServiceItemFDD-ExtIEs } } OPTIONAL,
    . . .
}
MBMS-Bearer-ServiceItemFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
}
MBMS-Bearer-ServiceItemFDD-PFL ::=SEQUENCE{
    tmgi
          TMGI,
    transmissionMode
                           TransmissionMode
                                                OPTIONAL,
                                UARFCN
    preferredFrequencyLayer
                                                OPTIONAL,
   iE-Extensions
                                    ProtocolExtensionContainer { { MBMS-Bearer-ServiceItemFDD-PFL-ExtIEs } } OPTIONAL,
    . . .
}
MBMS-Bearer-ServiceItemFDD-PFL-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
MBMS-Bearer-ServiceItemTDD ::=SEQUENCE{
    tmgi
           TMGI,
    transmissionMode
                       TransmissionMode,
                                    ProtocolExtensionContainer { { MBMS-Bearer-ServiceItemTDD-ExtIEs } } OPTIONAL,
    iE-Extensions
    . . .
}
```

```
MBMS-Bearer-ServiceItemTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
MBMS-Bearer-ServiceItemTDD-PFL ::=SEQUENCE{
           TMGI,
    tmqi
    transmissionMode TransmissionMode
                                            OPTIONAL,
    preferredFrequencyLayer UARFCN
                                                OPTIONAL,
   iE-Extensions
                                    ProtocolExtensionContainer { { MBMS-Bearer-ServiceItemTDD-PFL-ExtIEs } } OPTIONAL,
MBMS-Bearer-ServiceItemTDD-PFL-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
MBMSChannelTypeInfo ::= SEQUENCE {
    tMGI
                        TMGI,
    pTM-Cell-List
                       PTMCellList
                                        OPTIONAL,
    pTP-Cell-List PTPCellList
                                        OPTIONAL,
    not-Provided-Cell-List NotProvidedCellList OPTIONAL,
    iE-Extensions
                        ProtocolExtensionContainer { { MBMSChannelTypeInfo-ExtIEs } } OPTIONAL,
    . . .
}
MBMSChannelTypeInfo-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
}
MBMSChannelTypeCellList ::= SEQUENCE {
    c-ID
                                            C-ID,
    affectedUEInformationForMBMS
                                        AffectedUEInformationForMBMS
                                                                         OPTIONAL,
    iE-Extensions
                                        ProtocolExtensionContainer { { MBMSChannelTypeCellList-ExtIEs } } OPTIONAL,
    . . .
}
MBMSChannelTypeCellList-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
MBMSPreferredFreqLayerInfo ::= SEQUENCE {
    tMGI
                                    TMGI,
    preferredFrequencyLayerInfo
                                    PreferredFrequencyLayerInfo,
    iE-Extensions
                                    ProtocolExtensionContainer { { MBMSPreferredFreqLayerInfo-ExtIEs } } OPTIONAL,
    . . .
MBMSPreferredFreqLayerInfo-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
}
MBMS-Neighbouring-Cell-Information ::= SEQUENCE {
    mBMS-ConcatenatedServiceList
                                        MBMS-ConcatenatedServiceList,
   13-Information-1
                                        L3-Information OPTIONAL,
-- This IE contains MBMS COMMON P-T-M RB INFORMATION defined in TS 25.331 [16]
   13-Information-2
                                        L3-Information OPTIONAL,
```

```
-- This IE contains MBMS CURRENT CELL P-T-M RB INFORMATION defined in TS 25.331 [16]
   iE-Extensions
                                    ProtocolExtensionContainer { { MBMS-Neighbouring-Cell-Information-ExtIEs } } OPTIONAL,
    . . .
}
MBMS-Neighbouring-Cell-Information-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
MBMS-ConcatenatedServiceList ::= SEQUENCE (SIZE (1..maxlengthMBMSconcatservlists)) OF TMGI
MBMS-RLC-Sequence-Number-Information ::= SEQUENCE (SIZE (1..maxNrOfCells)) OF MBMS-RLC-Sequence-Number-Information-List
MBMS-RLC-Sequence-Number-Information-List := SEQUENCE {
    c-ID
                                    C-ID,
   mBMS-Bearer-Service-List-RLC
                                                            MBMS-Bearer-Service-List-RLC,
                                    ProtocolExtensionContainer { { MBMS-RLC-Sequence-Number-Information-List-ExtIEs } }
   iE-Extensions
                                                                                                                                OPTIONAL,
    . . .
MBMS-RLC-Sequence-Number-Information-List-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
}
MBMS-Bearer-Service-List-RLC::= SEQUENCE (SIZE (1..maxNrOfMBMSServices)) OF MBMS-Bearer-Service-List-RLCinfo
MBMS-Bearer-Service-List-RLCinfo
                                  ::= SEQUENCE {
   tmqi
                                   TMGI,
    time-Stamp
                                   Time-Stamp,
                                    ProtocolExtensionContainer { { MBMS-Bearer-Service-List-RLCinfo-ExtIEs } }
   iE-Extensions
                                                                                                                        OPTIONAL,
    . . .
MBMS-Bearer-Service-List-RLCinfo-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
MBSFN-Cluster-Identity
                         ::= INTEGER (0..65535)
MCCH-Message-List := SEQUENCE (SIZE (1.. maxNrOfMCCHMessages)) OF L3-Information
MCCH-Configuration-Info ::= SEQUENCE {
    secondaryCCPCHSystemInformationMBMS
                                                Secondary-CCPCH-System-Information-MBMS,
                                                ProtocolExtensionContainer { {MCCH-Configuration-Info-ExtIEs } }
    ie-Extensions
                                                                                                                    OPTIONAL,
    . . .
}
MCCH-Configuration-Info-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
}
Secondary-CCPCH-System-Information-MBMS
                                         ::= BIT STRING
```

```
MBSFN-Scheduling-Transmission-Time-Interval-Info-List ::=
                                                                SEQUENCE (SIZE (1.. maxNrOfMBMSL3)) OF MBSFN-Scheduling-Transmission-Time-Interval-
Item
MBSFN-Scheduling-Transmission-Time-Interval-Item
                                                    ::= SEQUENCE {
    tMGI
                                    TMGI,
    mbsfnSchedulingTransmissionTimeInterval
                                                MbsfnSchedulingTransmissionTimeInterval,
                                                ProtocolExtensionContainer { { MBSFN-Scheduling-Transmission-Time-Interval-Item-ExtIEs } }
    ie-Extensions
    OPTIONAL,
    . . .
MBSFN-Scheduling-Transmission-Time-Interval-Item-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
MbsfnSchedulingTransmissionTimeInterval ::= ENUMERATED {tti4, tti8, tti16, tti32, tti64, tti128, tti256}
MeasurementFilterCoefficient ::= ENUMERATED{k0, k1, k2, k3, k4, k5, k6, k7, k8, k9, k11, k13, k15, k17, k19,...}
-- Measurement Filter Coefficient to be used for measurement
MeasurementID
                           ::= INTEGER (0..1048575)
Measurement-Power-Offset ::= INTEGER(-12 .. 26)
-- Actual value = IE value * 0.5
MinimumSpreadingFactor
                           ::= INTEGER (1..16)
MinimumSpreadingFactor768
                                ::= INTEGER (1..32)
MultipleURAsIndicator ::= ENUMERATED {
   multiple-URAs-exist,
    single-URA-exists
}
MaxAdjustmentStep
                           ::= INTEGER(1..10)
-- Unit Slot
MeasurementChangeTime
                           ::= INTEGER (1..6000,...)
-- The MeasurementChangeTime gives the MeasurementChangeTime
-- in number of 10 ms periods.
-- E.g. Value 6000 means 60000ms(1min)
-- Unit is ms. Step is 10 ms
MeasurementHysteresisTime
                                ::= INTEGER (1..6000,...)
-- The MeasurementHysteresisTime gives the
-- MeasurementHysteresisTime in number of 10 ms periods.
-- E.g. Value 6000 means 60000ms(1min)
-- Unit is ms, Step is 10ms
MeasurementIncreaseDecreaseThreshold
                                            ::= CHOICE {
```

```
SIR-Value-IncrDecrThres,
    sir
    sir-error
                                    SIR-Error-Value-IncrDecrThres.
    transmitted-code-power
                                    Transmitted-Code-Power-Value-IncrDecrThres.
                                    RSCP-Value-IncrDecrThres,
    rscp
    round-trip-time
                                    Round-Trip-Time-IncrDecrThres,
    . . . .
    extension-MeasurementIncreaseDecreaseThreshold
                                                        Extension-MeasurementIncreaseDecreaseThreshold
Extension-MeasurementIncreaseDecreaseThreshold ::= ProtocolIE-Single-Container {{ Extension-MeasurementIncreaseDecreaseThresholdIE }}
Extension-MeasurementIncreaseDecreaseThresholdIE RNSAP-PROTOCOL-IES ::= {
     ID id-Load-Value-IncrDecrThres
                                       CRITICALITY reject TYPE Load-Value-IncrDecrThres PRESENCE mandatory }
     ID id-Transmitted-Carrier-Power-Value-IncrDecrThres CRITICALITY reject TYPE Transmitted-Carrier-Power-Value-IncrDecrThres
    PRESENCE mandatory } |
    { ID id-Received-Total-Wideband-Power-Value-IncrDecrThres CRITICALITY reject TYPE Received-Total-Wideband-Power-Value-IncrDecrThres
    PRESENCE mandatory } |
     ID id-UL-Timeslot-ISCP-Value-IncrDecrThres CRITICALITY reject TYPE UL-Timeslot-ISCP-Value-IncrDecrThres
                                                                                                                        PRESENCE mandatory } |
     ID id-RT-Load-Value-IncrDecrThres CRITICALITY reject TYPE RT-Load-Value-IncrDecrThres
                                                                                                PRESENCE mandatory }
     ID id-NRT-Load-Information-Value-IncrDecrThres CRITICALITY reject TYPE NRT-Load-Information-Value-IncrDecrThres
                                                                                                                                PRESENCE mandatory
}|
    { ID id-UpPTSInterferenceValue
                                        CRITICALITY reject TYPE
                                                                    UpPTSInterferenceValue
                                                                                                PRESENCE mandatory }
MeasurementRecoveryBehavior ::= NULL
MeasurementRecoveryReportingIndicator ::= NULL
MeasurementRecoverySupportIndicator ::= NULL
MeasurementThreshold
                                ::= CHOICE {
                                    SIR-Value,
    sir
    sir-error
                                    SIR-Error-Value,
                                    Transmitted-Code-Power-Value,
    transmitted-code-power
    rscp
                                    RSCP-Value,
    rx-timing-deviation
                                    Rx-Timing-Deviation-Value,
    round-trip-time
                                    Round-Trip-Time-Value,
    . . . ,
    extension-MeasurementThreshold Extension-MeasurementThreshold
Extension-MeasurementThreshold ::= ProtocolIE-Single-Container {{ Extension-MeasurementThresholdIE }}
Extension-MeasurementThresholdIE RNSAP-PROTOCOL-IES ::= {
    { ID id-TUTRANGPSMeasurementThresholdInformation
                                                        CRITICALITY reject TYPE TUTRANGPSMeasurementThresholdInformation
                                                                                                                                       PRESENCE
mandatory }|
    { ID id-SFNSFNMeasurementThresholdInformation
                                                        CRITICALITY reject TYPE SFNSFNMeasurementThresholdInformation
                                                                                                                                       PRESENCE
mandatory }|
    { ID id-Load-Value
                                                        CRITICALITY reject TYPE Load-Value
            PRESENCE mandatory }|
    { ID id-Transmitted-Carrier-Power-Value
                                                        CRITICALITY reject TYPE Transmitted-Carrier-Power-Value
    PRESENCE mandatory }
    { ID id-Received-Total-Wideband-Power-Value
                                                        CRITICALITY reject TYPE Received-Total-Wideband-Power-Value
                                                                                                                                       PRESENCE
mandatory }|
```

}

```
{ ID id-UL-Timeslot-ISCP-Value
                                                         CRITICALITY reject TYPE UL-Timeslot-ISCP-Value
        PRESENCE mandatory } |
     ID id-RT-Load-Value
                                                         CRITICALITY reject TYPE RT-Load-Value
            PRESENCE mandatory } |
    { ID id-NRT-Load-Information-Value
                                                         CRITICALITY reject TYPE NRT-Load-Information-Value
    PRESENCE mandatory } |
    { ID id-Rx-Timing-Deviation-Value-LCR
                                                         CRITICALITY reject TYPE Rx-Timing-Deviation-Value-LCR
    PRESENCE mandatorv}
     ID id-HS-SICH-Reception-Quality-Measurement-Value CRITICALITY reject TYPE HS-SICH-Reception-Quality-Measurement-Value PRESENCE mandatory
     ID id-UpPTSInterferenceValue
                                                         CRITICALITY reject TYPE UpPTSInterferenceValue
        PRESENCE mandatory }
    { ID id-Rx-Timing-Deviation-Value-768
                                                         CRITICALITY reject TYPE Rx-Timing-Deviation-Value-768
    PRESENCE mandatory }
    { ID id-Rx-Timing-Deviation-Value-ext
                                                         CRITICALITY reject TYPE Rx-Timing-Deviation-Value-ext
    PRESENCE mandatory }
    { ID id-Extended-Round-Trip-Time-Value
                                                         CRITICALITY reject TYPE Extended-Round-Trip-Time-Value
    PRESENCE mandatory } |
    { ID id-TUTRANGANSSMeasurementThresholdInformation CRITICALITY reject TYPE TUTRANGANSSMeasurementThresholdInformation
                                                                                                                                  PRESENCE mandatory }
MidambleConfigurationBurstType1And3 ::=
                                            ENUMERATED {v4, v8, v16}
MidambleConfigurationBurstType2 ::=
                                        ENUMERATED {v3, v6}
MidambleConfigurationLCR ::=
                                ENUMERATED {v2, v4, v6, v8, v10, v12, v14, v16, ...}
MidambleShiftAndBurstType ::=
                                    CHOICE {
    type1
                                        SEQUENCE
        midambleConfigurationBurstType1And3
                                                MidambleConfigurationBurstType1And3,
        midambleAllocationMode
                                            CHOICE
            defaultMidamble
                                                NULL,
            commonMidamble
                                                NULL,
            ueSpecificMidamble
                                                MidambleShiftLong,
            . . .
        },
        . . .
    },
                                        SEQUENCE
    type2
        midambleConfigurationBurstType2
                                            MidambleConfigurationBurstType2,
        midambleAllocationMode
                                            CHOICE
            defaultMidamble
                                                NULL,
            commonMidamble
                                                NULL,
            ueSpecificMidamble
                                                MidambleShiftShort,
            . . .
        },
        . .
    },
                                        SEQUENCE
    type3
        midambleConfigurationBurstType1And3 MidambleConfigurationBurstType1And3,
        midambleAllocationMode
                                        CHOICE {
            defaultMidamble
                                                NULL,
            ueSpecificMidamble
                                                MidambleShiftLong,
            . . .
        },
```

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```
. . .
    },
    . . .
MidambleShiftLong ::=
                                     INTEGER (0..15)
MidambleShiftShort ::=
                                     INTEGER (0..5)
MidambleShiftLCR ::= SEQUENCE {
    midambleAllocationMode
                                 MidambleAllocationMode,
    midambleShift
                                 MidambleShiftLong
                                                          OPTIONAL,
        -- The IE shall be present if the Midamble Allocation Mode IE is set to "UE specific midamble".
    midambleConfigurationLCR
                                MidambleConfigurationLCR,
                                 ProtocolExtensionContainer { {MidambleShiftLCR-ExtIEs} }
    iE-Extensions
                                                                                                   OPTIONAL,
    . . .
MidambleAllocationMode ::= ENUMERATED {
    defaultMidamble,
    commonMidamble,
    uESpecificMidamble,
    . . .
MidambleShiftLCR-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
MidambleShiftAndBurstType768 ::=
                                         CHOICE {
                                         SEOUENCE
    type1
        midambleConfigurationBurstType1And3
                                                 MidambleConfigurationBurstType1And3,
        midambleAllocationMode
                                             CHOICE
            defaultMidamble
                                                 NULL,
            commonMidamble
                                                 NULL,
            ueSpecificMidamble
                                                 MidambleShiftLong,
            . . .
        },
        . . .
    },
                                         SEOUENCE
    type2
        midambleConfigurationBurstType2-768
                                                 MidambleConfigurationBurstType2-768,
        midambleAllocationMode
                                             CHOICE {
            defaultMidamble
                                                 NULL,
            commonMidamble
                                                 NULL,
            ueSpecificMidamble
                                                 MidambleShiftShort768,
            . . .
        },
        . . .
    },
                                         SEQUENCE {
    type3
        midambleConfigurationBurstType1And3 MidambleConfigurationBurstType1And3,
        midambleAllocationMode
                                         CHOICE {
            defaultMidamble
                                                 NULL,
```

```
ueSpecificMidamble
                                                 MidambleShiftLong,
            . . .
        },
        . . .
    },
    . . .
MidambleConfigurationBurstType2-768 ::=
                                             ENUMERATED \{v4, v8\}
MidambleShiftShort768 ::=
                                         INTEGER (0..7)
MIMO-ActivationIndicator
                          ::= NULL
MIMO-InformationResponse ::= SEQUENCE {
    mIMO-PilotConfiguration
                                                 MIMO-PilotConfiguration,
    mIMO-N-M-Ratio
                                                 MIMO-N-M-Ratio,
                                                 ProtocolExtensionContainer { { MIMO-InformationResponse-ExtIEs } }
    iE-Extensions
                                                                                                                                            OPTIONAL,
    . . .
}
MIMO-InformationResponse-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
}
MIMO-Mode-Indicator ::= ENUMERATED {
    activate,
    deactivate
}
MIMO-N-M-Ratio ::= ENUMERATED {v1-2, v2-3, v3-4, v4-5, v5-6, v6-7, v7-8, v8-9, v9-10, v1-1,...}
MIMO-PilotConfiguration ::= CHOICE {
    primary-and-secondary-CPICH
                                             MIMO-S-CPICH-Channelisation-Code,
    normal-and-diversity-primary-CPICH
                                             NULL,
    . . .
}
MIMO-S-CPICH-Channelisation-Code ::= INTEGER (0..255)
MinUL-ChannelisationCodeLength
                                     ::= ENUMERATED {
    v4,
    v8,
    v16,
    v32,
    v64,
    v128,
    v256
}
```

MinimumReducedE-DPDCH-GainFactor ::= ENUMERATED {m8-15, m11-15, m15-15, m21-15, m30-15, m42-15, m60-15, m84-15,...}

```
ModifyPriorityQueue ::= CHOICE {
    addPriorityOueue
                                PriorityQueue-InfoItem-to-Add,
    modifyPriorityOueue
                                PriorityOueue-InfoItem-to-Modify,
    deletePriorityOueue
                                PriorityQueue-Id,
    . . .
Modulation ::= ENUMERATED {
   aPSK,
    eightPSK,
    . . .
MulticellEDCH-Information
                                ::= ProtocolIE-Single-Container { {MulticellEDCH-InformationItem} }
MulticellEDCH-InformationItem RNSAP-PROTOCOL-IES ::= {
    { ID id-MulticellEDCH-Information CRITICALITY ignore TYPE MulticellEDCH-InformationItemIEs
                                                                                                          PRESENCE mandatory
MulticellEDCH-InformationItemIEs::= SEQUENCE {
    dL-PowerBalancing-Information
                                            DL-PowerBalancing-Information
                                                                                 OPTIONAL,
    minimumReducedE-DPDCH-GainFactor
                                            MinimumReducedE-DPDCH-GainFactor
                                                                                     OPTIONAL,
    secondary-UL-Frequency-Activation-State
                                                    Secondary-UL-Frequency-Activation-State
                                                                                                 OPTIONAL,
    f-DPCH-SlotFormat
                                F-DPCH-SlotFormat
                                                        OPTIONAL,
    common-DL-ReferencePowerInformation
                                                DL-Power
                                                                OPTIONAL,
    iE-Extensions
                        ProtocolExtensionContainer { { MulticellEDCH-InformationItemIEs-ExtIEs } } OPTIONAL,
    . . .
MulticellEDCH-InformationItemIEs-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
                                            ::= ProtocolIE-Single-Container { {MulticellEDCH-RL-SpecificInformationItem} }
MulticellEDCH-RL-SpecificInformation
MulticellEDCH-RL-SpecificInformationItem RNSAP-PROTOCOL-IES ::= {
    { ID id-MulticellEDCH-RL-SpecificInformation CRITICALITY ignore TYPE MulticellEDCH-RL-SpecificInformationItemIEs
                                                                                                                                         PRESENCE
mandatory }
}
MulticellEDCH-RL-SpecificInformationItemIEs::= SEQUENCE
    extendedPropagationDelay
                                    ExtendedPropagationDelay
                                                                         OPTIONAL,
    enhanced-PrimaryCPICH-EcNo
                                    Enhanced-PrimaryCPICH-EcNo
                                                                         OPTIONAL,
    dl-Reference-Power
                                DL-Power
                                                    OPTIONAL,
    phase-Reference-Update-Indicator
                                            Phase-Reference-Update-Indicator
                                                                                         OPTIONAL,
    additional-e-DCH-DL-Control-Channel-Grant
                                                    NULL
                                                                                         OPTIONAL,
                        ProtocolExtensionContainer { { MulticellEDCH-RL-SpecificInformationItemIEs-ExtIEs } } OPTIONAL,
    iE-Extensions
}
MulticellEDCH-RL-SpecificInformationItemIEs-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
```

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```
}
Multiple-PLMN-List ::= SEQUENCE {
    pLMN-Identity PLMN-Identity,
    list-Of-PLMNs
                       List-Of-PLMNs
                                                                                      OPTIONAL.
                       ProtocolExtensionContainer { { Multiple-PLMN-List-ExtIEs } } OPTIONAL,
    iE-Extensions
    . . .
}
Multiple-PLMN-List-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
}
MultiplexingPosition ::= ENUMERATED {
    fixed,
    flexible
}
MAChs-ResetIndicator ::= ENUMERATED{
    mAChs-NotReset
MultipleFreq-HSPDSCH-InformationList-ResponseTDDLCR ::= SEQUENCE (SIZE (1.. maxHSDPAFrequency-1)) OF MultipleFreq-HSPDSCH-InformationItem-
ResponseTDDLCR
--Includes the 2<sup>nd</sup> through the max number of frequency repetitions
MultipleFreq-HSPDSCH-InformationItem-ResponseTDDLCR ::= SEQUENCE{
    hSSCCH-TDD-Specific-InfoList-Response-LCR
                                                     HSSCCH-TDD-Specific-InfoList-Response-LCR
                                                                                                  OPTIONAL,
    hARQ-MemoryPartitioning
                                                     HARQ-MemoryPartitioning
                                                                                                  OPTIONAL,
    uARFCN
                                                     UARFCN,
    -- This is the UARFCN for the second and beyond Frequency repetition.
    iE-Extensions
                                                     ProtocolExtensionContainer { { MultipleFreq-HSPDSCH-InformationItem-ResponseTDDLCR-ExtIEs } }
        OPTIONAL,
    . . .
MultipleFreg-HSPDSCH-InformationItem-ResponseTDDLCR-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
. . .
}
MIMO-SFMode-For-HSPDSCHDualStream ::= ENUMERATED
    sF1,
    sF1SF16
}
-- N
NACC-Related-Data ::= SEQUENCE
    gERAN-SI-Type
                                 GERAN-SI-Type,
    iE-Extensions
                                ProtocolExtensionContainer { {NACC-Related-Data-ExtIEs} }
                                                                                                  OPTIONAL,
    . . .
```

```
NACC-Related-Data-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
Nack-Power-Offset ::= INTEGER (0..8,...)
-- According to mapping in ref. TS 25.213 [21] subclause 4.2.1
NCC ::= BIT STRING (SIZE (3))
Neighbouring-UMTS-CellInformation ::= SEQUENCE (SIZE (1..maxNrOfNeighbouringRNCs)) OF ProtocolIE-Single-Container {{ Neighbouring-UMTS-
CellInformationItemIE } }
Neighbouring-UMTS-CellInformationItemIE RNSAP-PROTOCOL-IES ::= {
    { ID id-Neighbouring-UMTS-CellInformationItem CRITICALITY ignore TYPE
                                                                                 Neighbouring-UMTS-CellInformationItem
                                                                                                                         PRESENCE
                                                                                                                                         mandatory
Neighbouring-UMTS-CellInformationItem ::= SEQUENCE
    rNC-ID
                                            RNC-ID,
    cN-PS-DomainIdentifier
                                            CN-PS-DomainIdentifier
                                                                         OPTIONAL.
    cN-CS-DomainIdentifier
                                            CN-CS-DomainIdentifier
                                                                         OPTIONAL,
    neighbouring-FDD-CellInformation
                                            Neighbouring-FDD-CellInformation
                                                                                 OPTIONAL,
    neighbouring-TDD-CellInformation
                                            Neighbouring-TDD-CellInformation
                                                                                 OPTIONAL,
                                            ProtocolExtensionContainer { {Neighbouring-UMTS-CellInformationItem-ExtIEs } } OPTIONAL,
    iE-Extensions
    . . .
Neighbouring-UMTS-CellInformationItem-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
     ID id-neighbouring-LCR-TDD-CellInformation
                                                             CRITICALITY ignore
                                                                                     EXTENSION
                                                                                                 Neighbouring-LCR-TDD-CellInformation
    PRESENCE optional }|
    { ID id-Extended-RNC-ID
                                                CRITICALITY reject EXTENSION Extended-RNC-ID
                                            PRESENCE optional },
    . . .
Neighbouring-FDD-CellInformation ::= SEQUENCE ( SIZE (1..maxNrOfFDDNeighboursPerRNC,...)) OF Neighbouring-FDD-CellInformationItem
Neighbouring-FDD-CellInformationItem ::= SEQUENCE {
    c-ID
                                        C-ID,
    uARFCNforNu
                                        UARFCN,
    uARFCNforNd
                                        UARFCN,
    frameOffset
                                        FrameOffset
                                                             OPTIONAL.
    primaryScramblingCode
                                        PrimaryScramblingCode,
    primaryCPICH-Power
                                        PrimaryCPICH-Power
                                                                 OPTIONAL,
    cellIndividualOffset
                                        CellIndividualOffset
                                                                OPTIONAL.
    txDiversitvIndicator
                                        TxDiversityIndicator,
    sTTD-SupportIndicator
                                        STTD-SupportIndicator
                                                                OPTIONAL,
    closedLoopMode1-SupportIndicator
                                        ClosedLoopMode1-SupportIndicator
                                                                             OPTIONAL,
    not-used-closedLoopMode2-SupportIndicator NULL
                                                        OPTIONAL,
                                        ProtocolExtensionContainer { { Neighbouring-FDD-CellInformationItem-ExtIEs } } OPTIONAL,
    iE-Extensions
    . . .
```

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```

Neighbouring-FDD-CellInformationItem-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {

{ ID id-RestrictionStateIndicator	CRITICALITY ignore	EXTENSION RestrictionStateIndicate	or PRESENCE optional
<pre>}  { ID id-DPC-Mode-Change-SupportIndic</pre>	ator CRITICALITY ignore	EXTENSION DPC-Mode-Change-SupportIndicat	tor PRESENCE optional }
{ ID id-CoverageIndicator	CRITICALITY ignore	EXTENSION Dec-mode-change-supportinuital EXTENSION CoverageIndicator	PRESENCE OPCIONAL /  PRESENCE
optional }	chilicimili ignore		
{ ID id-AntennaColocationIndicator	CRITICALITY ignore	EXTENSION AntennaColocationIndicator	PRESENCE optional }
{ ID id-HCS-Prio	CRITICALITY ignore	EXTENSION HCS-Prio	PRESENCE
optional }	-		
{ ID id-CellCapabilityContainer-FDD	CRITICALITY ignore	EXTENSION CellCapabilityContainer-FDD	PRESENCE
optional }			
{ ID id-SNA-Information	CRITICALITY ignore		PRESENCE optional }
{ ID id-FrequencyBandIndicator	CRITICALITY ignore	EXTENSION FrequencyBandIndicator	PRESENCE optional }
{ ID id-Max-UE-DTX-Cycle	CRITICALITY ignore	EXTENSION Max-UE-DTX-Cycle	PRESENCE
conditional }	he fifteenth hit Gentingen De	hat Game stights DEV DEV Game at Taliates	in the Gall Generalization Generalization
FDD IE is set to the value "1".	ne fifteenth bit Continuous Pac	ket Connectivity DTX-DRX Support Indicator	in the Cell Capability Container
{ ID id-Multiple-PLMN-List	CRITICALITY ignore	EXTENSION Multiple-PLMN-List	PRESENCE
optional }	CRITICALITI IGNOTE	EXTENSION MULTIPLE-FEMM-EISC	FRESENCE
{ ID id-Secondary-Serving-Cell-List	CRITICALITY ignore	EXTENSION Secondary-Serving-Cell-List	PRESENCE optional }
{ ID id-Dual-Band-Secondary-Serving-	5	1 5	PRESENCE optional }
	5	Indicator in the Cell Capability Container	- , ,
{ ID id-CellCapabilityContainerExten		EXTENSION CellCapabilityContainerExtension	
{ ID id-CellListValidityIndicator	CRITICALITY ignore	EXTENSION CellListValidityIndicator	PRESENCE optional },
}			
NeighbouringFDDCellMeasurementInformatic			
	UC-ID, UARFCN,		
	PrimaryScramblingCode,		
		NeighbouringFDDCellMeasurementInformation	tem-ExtIEs} } OPTIONAL.
			,
}			
NeighbouringFDDCellMeasurementInformatic	nItem-ExtIEs RNSAP-PROTOCOL-EXT	CENSION ::= {	
J			
Neighbouring-GSM-CellInformation ::= Pro	tocolIE-Single-Container {{    Nei	.ghbouring-GSM-CellInformationIE }}	
5 5	5 ((	5 5 ,,	
Neighbouring-GSM-CellInformationIE RNSAF	P-PROTOCOL-IES ::= {		
{ ID id-Neighbouring-GSM-CellInforma	tion CRITICALITY ignore TYP	PE Neighbouring-GSM-CellInformationIEs F	PRESENCE mandatory }
}			
Neighbouring-GSM-CellInformationLEs ::=	SEQUENCE ( SIZE (1maxNrOiGSMN	<pre>WeighboursPerRNC,)) OF Neighbouring-GSM-(</pre>	CellInformationItem
Neighbouring CON CallInformationItom			
Neighbouring-GSM-CellInformationItem ::= cGI	CGI,		
cellIndividualOffset	CellIndividualOffset OPTIONA	.т.	
	BSIC,		
	Band-Indicator,		
	BCCH-ARFCN,		
iE-Extensions	<pre>ProtocolExtensionContainer { {</pre>	Neighbouring-GSM-CellInformationItem-ExtIE	s} } OPTIONAL,

```
}
```

Neighbouring-GSM-CellInformationItem-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {

TD id Commentations			
{ ID id-CoverageIndicator	CRITICALITY ignore	EXTENSION CoverageIndicator	
PRESENCE optional }			
<pre>{ ID id-AntennaColocationIndicator</pre>	CRITICALITY ignore	EXTENSION AntennaColocationIndicator	PRESENCE optional
)			
{ ID id-HCS-Prio	CRITICALITY ignore	EXTENSION HCS-Prio	
PRESENCE optional }			
{ ID id-SNA-Information	CRITICALITY ignore	EXTENSION SNA-Information	
PRESENCE optional }			
{ ID id-GERAN-Cell-Capability	CRITICALITY ignore	EXTENSION GERAN-Cell-Capability	PRESENCE
optional }			
{ ID id-GERAN-Classmark	CRITICALITY ignore	EXTENSION GERAN-Classmark	
PRESENCE optional }			
<pre>{ ID id-ExtendedGSMCellIndividualOffset</pre>	CRITICALITY ignore	EXTENSION ExtendedGSMCellIndividualOffset PRESH	ENCE optional },
}			

Neighbouring-TDD-CellInformation ::= SEQUENCE ( SIZE (1..maxNrOfTDDNeighboursPerRNC,...)) OF Neighbouring-TDD-CellInformationItem

Neighbouring-TDD-CellInformationItem ::= SEQUENCE { C-TD C-ID, uARFCNforNt UARFCN, frameOffset FrameOffset OPTIONAL, cellParameterID CellParameterID, syncCase SyncCase, timeSlot TimeSlot OPTIONAL -- This IE shall be present if Sync Case = Case1 -- , SCH-TimeSlot sCH-TimeSlot OPTIONAL -- This IE shall be present if Sync Case = Case2 -- , SCTD-Indicator, sCTD-Indicator cellIndividualOffset CellIndividualOffset OPTIONAL, dPCHConstantValue DPCHConstantValue OPTIONAL, PCCPCH-Power OPTIONAL, pCCPCH-Power ProtocolExtensionContainer { { Neighbouring-TDD-CellInformationItem-ExtIEs } } OPTIONAL, iE-Extensions . . . Neighbouring-TDD-CellInformationItem-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= { ID id-RestrictionStateIndicator CRITICALITY ignore PRESENCE optional EXTENSION RestrictionStateIndicator ID id-CoverageIndicator CRITICALITY ignore EXTENSION CoverageIndicator PRESENCE optional }| ID id-AntennaColocationIndicator CRITICALITY ignore EXTENSION AntennaColocationIndicator PRESENCE optional }| ID id-HCS-Prio CRITICALITY ignore EXTENSION HCS-Prio PRESENCE optional }| ID id-CellCapabilityContainer-TDD PRESENCE optional }| CRITICALITY ignore EXTENSION CellCapabilityContainer-TDD ID id-SNA-Information CRITICALITY ignore EXTENSION SNA-Information PRESENCE optional }| { ID id-CellCapabilityContainer-TDD768 CRITICALITY ignore EXTENSION CellCapabilityContainer-TDD768 PRESENCE optional } { ID id-Multiple-PLMN-List CRITICALITY ignore EXTENSION Multiple-PLMN-List PRESENCE optional },

```
. . .
}
NeighbouringTDDCellMeasurementInformation ::= SEQUENCE {
    uC-ID
                                        UC-ID.
    UARFCN
                                        UARFCN,
    cellParameterID
                                        CellParameterID,
    timeSlot
                                        TimeSlot
                                                                     OPTIONAL,
    midambleShiftAndBurstType
                                        MidambleShiftAndBurstType OPTIONAL,
                                        ProtocolExtensionContainer { { NeighbouringTDDCellMeasurementInformationItem-ExtIEs } } OPTIONAL,
    iE-Extensions
    . . .
NeighbouringTDDCellMeasurementInformationItem-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
NeighbouringTDDCellMeasurementInformationLCR ::= SEQUENCE
    uC-ID
                                        UC-ID.
    UARFCN
                                        UARFCN,
                                        CellParameterID,
    cellParameterID
    timeSlotLCR
                                        TimeSlotLCR
                                                                     OPTIONAL,
    midambleShiftLCR
                                        MidambleShiftLCR
                                                                     OPTIONAL,
    iE-Extensions
                                        ProtocolExtensionContainer { { NeighbouringTDDCellMeasurementInformationLCRItem-ExtIEs } } OPTIONAL,
    . . .
NeighbouringTDDCellMeasurementInformationLCRItem-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
}
NeighbouringTDDCellMeasurementInformation768 ::= SEQUENCE
    uC-ID
                                        UC-ID,
    uARFCN
                                        UARFCN,
    cellParameterID
                                        CellParameterID,
    timeSlot
                                        TimeSlot
                                                                     OPTIONAL,
    midambleShiftAndBurstType768
                                        MidambleShiftAndBurstType768
                                                                         OPTIONAL,
                                        ProtocolExtensionContainer { { NeighbouringTDDCellMeasurementInformationItem768-ExtIEs } OPTIONAL,
    iE-Extensions
    . . .
NeighbouringTDDCellMeasurementInformationItem768-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
}
Neighbouring-LCR-TDD-CellInformation ::= SEQUENCE (SIZE (1.. maxNrOfLCRTDDNeighboursPerRNC,...)) OF Neighbouring-LCR-TDD-CellInformationItem
Neighbouring-LCR-TDD-CellInformationItem ::= SEQUENCE {
    c-ID
                                    C-ID,
    uARFCNforNt
                                    UARFCN,
    frameOffset
                                    FrameOffset
                                                         OPTIONAL,
    cellParameterID
                                    CellParameterID,
```

```
sCTD-Indicator
                            SCTD-Indicator,
    cellIndividualOffset
                                    CellIndividualOffset
                                                            OPTIONAL.
    dPCHConstantValue
                                    DPCHConstantValue OPTIONAL.
    pCCPCH-Power
                                    PCCPCH-Power
                                                            OPTIONAL.
    restrictionStateIndicator
                                    RestrictionStateIndicator
                                                                    OPTIONAL.
                                    ProtocolExtensionContainer { { Neighbouring-LCR-TDD-CellInformationItem-ExtIEs } } OPTIONAL,
    iE-Extensions
    . . .
Neighbouring-LCR-TDD-CellInformationItem-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ID id-CoverageIndicator
                                            CRITICALITY ignore
                                                                    EXTENSION
                                                                                CoverageIndicator
    PRESENCE optional }|
    { ID id-AntennaColocationIndicator
                                            CRITICALITY ignore
                                                                    EXTENSION
                                                                                AntennaColocationIndicator
                                                                                                                                         PRESENCE
optional }|
    { ID id-HCS-Prio
                                            CRITICALITY ignore
                                                                                HCS-Prio
                                                                    EXTENSION
    PRESENCE optional
                      }|
     ID id-CellCapabilityContainer-TDD-LCR CRITICALITY ignore
                                                                                CellCapabilityContainer-TDD-LCR
                                                                                                                         PRESENCE optional }|
                                                                    EXTENSION
     ID id-SNA-Information
                                                                                SNA-Information
                                            CRITICALITY ignore
                                                                     EXTENSION
    PRESENCE optional }|
    { ID id-Multiple-PLMN-List
                                            CRITICALITY ignore
                                                                                Multiple-PLMN-List
                                                                    EXTENSION
    PRESENCE optional },
    . . .
Neighbouring-E-UTRA-CellInformation ::= SEQUENCE ( SIZE (1..maxNrOfEUTRANeighboursPerRNC,...)) OF Neighbouring-E-UTRA-CellInformationItem
Neighbouring-E-UTRA-CellInformationItem ::= SEQUENCE {
    eCGI
                                        ECGI,
    eARFCN-Information
                                        EARFCN-Information,
                                        ProtocolExtensionContainer { { Neighbouring-E-UTRA-CellInformationItem-ExtIEs } } OPTIONAL,
    iE-Extensions
    . . .
Neighbouring-E-UTRA-CellInformationItem-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
}
NonCellSpecificTxDiversity ::= ENUMERATED {
    txDiversity,
    . . .
}
NotProvidedCellList ::= SEQUENCE (SIZE (1..maxNrOfCells)) OF MBMSChannelTypeCellList
NrOfDLchannelisationcodes ::= INTEGER (1..8)
NrOfTransportBlocks
                            ::= INTEGER (0..512)
NRT-Load-Information-Value-IncrDecrThres ::= INTEGER(0..3)
NRT-Load-Information-Value ::= INTEGER(0..3)
NRTLoadInformationValue ::= SEQUENCE {
```

```
uplinkNRTLoadInformationValue
                                            INTEGER(0..3),
        downlinkNRTLoadInformationValue
                                            INTEGER(0..3)
N-E-UCCH ::= INTEGER (1..12)
N-E-UCCH-LCR ::= INTEGER (1..8)
Number-Of-Supported-Carriers ::= ENUMERATED {
    one-one-carrier,
    one-three-carrier,
    three-three-carrier,
    one-six-carrier.
    three-six-carrier,
    six-six-carrier,
    . . .
NumHS-SCCH-Codes ::= INTEGER (1..maxNrOfHSSCCHCodes)
NoOfTargetCellHS-SCCH-Order::= INTEGER (1..30)
Non-Serving-RL-Preconfig-Setup ::= SEQUENCE {
    new-non-serving-RL-selection New-non-serving-RL-setup-selection,
                            ProtocolExtensionContainer { {Non-Serving-RL-Preconfig-Setup-ExtIEs } } OPTIONAL,
    iE-Extensions
    . . .
3
Non-Serving-RL-Preconfig-Setup-ExtIEs RNSAP-PROTOCOL-EXTENSION::= {
    {ID id-Additional-E-DCH-Non-Serving-RL-Preconfiguration-Setup CRITICALITY ignore EXTENSION Additional-E-DCH-Non-Serving-RL-Preconfiguration-
Setup PRESENCE optional },
. . .
}
Additional-E-DCH-Non-Serving-RL-Preconfiguration-Setup ::= NULL
New-non-serving-RL-setup-selection ::= CHOICE {
    new-Serving-RL-in-DRNS
                                            NULL,
    new-Serving-RL-Not-in-DRNS
                                            NULL,
    new-Serving-RL-in-or-Not-in-DRNS
                                            NULL,
    . . .
Non-Serving-RL-Preconfig-Info ::= SEQUENCE
    new-non-serving-RL-E-DCH-FDD-DL-ControlChannelInformation-A
                                                                     EDCH-FDD-DL-ControlChannelInformation OPTIONAL,
    new-non-serving-RL-E-DCH-FDD-DL-ControlChannelInformation-B
                                                                     EDCH-FDD-DL-ControlChannelInformation OPTIONAL,
    new-non-serving-RL-E-DCH-FDD-DL-ControlChannelInformation-C
                                                                     EDCH-FDD-DL-ControlChannelInformation OPTIONAL,
    iE-Extensions
                            ProtocolExtensionContainer { {Non-Serving-RL-Preconfig-Info-ExtIEs} } OPTIONAL,
    . . .
}
Non-Serving-RL-Preconfig-Info-ExtIEs
                                        RNSAP-PROTOCOL-EXTENSION
                                                                     ::=
```

{ID id-Additional-E-DCH-New-non-serving-RL-E-DCH-FDD-DL-Control-Channel-InfoList CRITICALITY iqnore EXTENSION Additional-E-DCH-New-nonserving-RL-E-DCH-FDD-DL-Control-Channel-InfoList PRESENCE optional}, . . . } Additional-E-DCH-New-non-serving-RL-E-DCH-FDD-DL-Control-Channel-InfoList := SEQUENCE(SIZE(1.. maxNrOfEDCH-1)) OF SEQUENCE { new-non-serving-RL-E-DCH-FDD-DL-Control-Channel-Information-A EDCH-FDD-DL-ControlChannelInformation OPTIONAL, new-non-serving-RL-E-DCH-FDD-DL-Control-Channel-Information-B EDCH-FDD-DL-ControlChannelInformation OPTIONAL, new-non-serving-RL-E-DCH-FDD-DL-Control-Channel-Information-C EDCH-FDD-DL-ControlChannelInformation OPTIONAL, iE-Extensions ProtocolExtensionContainer { { Additional-E-DCH-New-non-serving-RL-E-DCH-FDD-DL-Control-Channel-InfoList-ExtIEs } } OPTIONAL, . . . } Additional-E-DCH-New-non-serving-RL-E-DCH-FDD-DL-Control-Channel-InfoList-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= { } NeedforIdleInterval ::= ENUMERATED { true, false -- 0 OnModification ::= SEQUENCE { measurementThreshold MeasurementThreshold, ProtocolExtensionContainer { {OnModification-ExtIEs} } OPTIONAL, iE-Extensions . . . } OnModification-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= { . . . } OnModificationInformation ::= SEQUENCE { informationThreshold InformationThreshold OPTIONAL, iE-Extensions ProtocolExtensionContainer { {OnModificationInformation-ExtIEs} } OPTIONAL, . . . OnModificationInformation-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= { . . . } Out-of-Sychronization-Window ::= ENUMERATED { ms40, ms80, ms160, ms320, ms640, . . .

```
}
-- P
PagingCause ::= ENUMERATED {
    terminating-conversational-call,
    terminating-streaming-call,
    terminating-interactive-call,
    terminating-background-call,
    terminating-low-priority-signalling,
    ...,
    terminating-high-priority-signalling,
    terminating-cause-unknown
-- See in TS 25.331 [16]
PagingRecordType ::= ENUMERATED {
    imsi-qsm-map,
    tmsi-qsm-map,
    p-tmsi-gsm-map,
    imsi-ds-41,
    tmsi-ds-41,
    . . .
-- See in TS 25.331 [16]
PartialReportingIndicator ::= ENUMERATED {
    partial-reporting-allowed
}
Pattern-Sequence-Identifier ::= INTEGER (1.. maxNrOfDCHMeasurementOccasionPatternSequence)
PayloadCRC-PresenceIndicator ::= ENUMERATED {
    crc-included,
    crc-not-included
}
PCCPCH-Power ::= INTEGER (-150..400,...)
-- PCCPCH-power = power * 10
-- If power <= -15 PCCPCH shall be set to -150
-- If power >= 40 PCCPCH shall be set to 400
-- Unit dBm, Range -15dBm .. +40 dBm, Step 0.1dBm
PCH-InformationList ::= SEQUENCE (SIZE(0..1)) OF PCH-InformationItem
PCH-InformationItem ::= SEQUENCE {
    transportFormatSet
                                    TransportFormatSet,
                                    ProtocolExtensionContainer { { PCH-InformationItem-ExtIEs } } OPTIONAL,
    iE-Extensions
    . . .
}
PCH-InformationItem-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
```

```
PC-Preamble ::= INTEGER(0...7,...)
Periodic ::= SEQUENCE {
    reportPeriodicity
                            ReportPeriodicity,
    iE-Extensions
                             ProtocolExtensionContainer { {Periodic-ExtIEs} } OPTIONAL,
    . . .
}
Periodic-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
}
PeriodicInformation ::= SEQUENCE {
    informationReportPeriodicity
                                         InformationReportPeriodicity,
    iE-Extensions
                                         ProtocolExtensionContainer { {PeriodicInformation-ExtIEs} } OPTIONAL,
    . . .
}
PeriodicInformation-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
Permanent-NAS-UE-Identity ::= CHOICE {
    imsi
                IMSI,
    . . .
3
Phase-Reference-Update-Indicator ::= ENUMERATED {
    phase-reference-needs-to-be-changed
}
PLCCHsequenceNumber ::= INTEGER (0..14)
PLMN-Identity ::= OCTET STRING (SIZE(3))
PowerAdjustmentType ::= ENUMERATED {
    none,
    common,
    individual
}
PowerOffset
                       ::= INTEGER (0..24)
PowerOffsetForSecondaryCPICHforMIMO ::= INTEGER (-6..0)
-- Unit dB, Range -10dB .. 5dB, Step +1dB
PowerOffsetForSecondaryCPICHforMIMORequestIndicator ::= NULL
PRC ::= INTEGER (-2047..2047)
--pseudo range correction; scaling factor 0.32 meters
PRCDeviation ::= ENUMERATED {
    prcd1,
```

prcd2,

```
prcd5,
   prcd10,
    . . .
Pre-emptionCapability ::= ENUMERATED {
    shall-not-trigger-pre-emption,
    may-trigger-pre-emption
}
Pre-emptionVulnerability ::= ENUMERATED {
    not-pre-emptable,
    pre-emptable
}
PredictedSFNSFNDeviationLimit ::= INTEGER (1..256)
-- Unit chip, Step 1/16 chip, Range 1/16..16 chip
PredictedTUTRANGPSDeviationLimit ::= INTEGER (1..256)
-- Unit chip, Step 1/16 chip, Range 1/16..16 chip
PreferredFrequencyLayerInfo ::= SEQUENCE {
    defaultPreferredFrequency
                                    UARFCN,
    additionalPreferredFrequency
                                    AdditionalPreferredFrequency
                                                                    OPTIONAL,
    iE-Extensions
                                    ProtocolExtensionContainer { { PreferredFrequencyLayerInfo-ExtIEs } } OPTIONAL,
    . . .
PreferredFrequencyLayerInfo-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
}
PrimaryCPICH-Power
                          ::= INTEGER (-100..500)
-- step 0.1 (Range -10.0..50.0) Unit is dBm
PrimaryCPICH-EcNo
                           ::= INTEGER (-30..30)
Primary-CPICH-Usage-For-Channel-Estimation ::= ENUMERATED
  primary-CPICH-may-be-used,
   primary-CPICH-shall-not-be-used
PrimaryCCPCH-RSCP
                           ::= INTEGER (0..91)
-- Mapping of Non Negative values according to maping in TS 25.123 [24]
PrimaryCCPCH-RSCP-Delta
                           ::= INTEGER (-5..-1,...)
-- Mapping of Negative values according to maping in TS 25.123 [24]
PrimaryScramblingCode
                               ::= INTEGER (0..511)
PriorityLevel
                            ::= INTEGER (0..15)
-- 0 = spare, 1 = highest priority, ...14 = lowest priority and 15 = no priority
```

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PriorityQueue-Id ::= INTEGER (0..maxNrOfPrioQueues-1) PriorityOueue-InfoList ::= SEOUENCE (SIZE (1..maxNrOfPrioOueues)) OF PriorityOueue-InfoItem PriorityOueue-InfoItem ::= SEQUENCE { priorityOueue-Id PriorityQueue-Id, associatedHSDSCH-MACdFlow HSDSCH-MACdFlow-ID, schedulingPriorityIndicator SchedulingPriorityIndicator, t1 Τ1, discardTimer DiscardTimer OPTIONAL, mAC-hsWindowSize MAC-hsWindowSize, mAChsGuaranteedBitRate MAChsGuaranteedBitRate OPTIONAL, mACdPDU-Size-Index MACdPDU-Size-IndexList, rLC-Mode RLC-Mode. iE-Extensions ProtocolExtensionContainer { { PriorityQueue-InfoItem-ExtIEs } } OPTIONAL, . . . PriorityQueue-InfoItem-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= { ID id-MaximumMACdPDU-SizeExtended CRITICALITY reject PRESENCE optional } | EXTENSION MAC-PDU-SizeExtended ID id-DL-RLC-PDU-Size-Format CRITICALITY ignore EXTENSION DL-RLC-PDU-Size-Format PRESENCE optional } | { ID id-UE-AggregateMaximumBitRate-Enforcement-Indicator CRITICALITY ignore EXTENSION UE-AggregateMaximumBitRate-Enforcement-Indicator PRESENCE optional }, . . . PriorityOueue-InfoList-EnhancedFACH-PCH ::= SEQUENCE (SIZE (1..maxNrOfPrioOueues)) OF PriorityOueue-InfoItem-EnhancedFACH-PCH PriorityQueue-InfoItem-EnhancedFACH-PCH ::= SEQUENCE { priorityQueue-Id PriorityQueue-Id, schedulingPriorityIndicator SchedulingPriorityIndicator, t 1 Τ1, mAC-ehs-Reset-Timer MAC-ehs-Reset-Timer, discardTimer DiscardTimer OPTIONAL, mAC-hsWindowSize MAC-hsWindowSize, maximum-MACdPDU-Size MAC-PDU-SizeExtended, iE-Extensions ProtocolExtensionContainer { { PriorityQueue-InfoItem-EnhancedFACH-PCH-ExtIEs } } OPTIONAL, . . . PriorityQueue-InfoItem-EnhancedFACH-PCH-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= { . . . } PriorityQueue-InfoList-to-Modify ::= SEQUENCE (SIZE (1..maxNrOfPrioQueues)) OF ModifyPriorityQueue PriorityQueue-InfoItem-to-Add ::= SEQUENCE { priorityQueue-Id PriorityQueue-Id, associatedHSDSCH-MACdFlow HSDSCH-MACdFlow-ID, schedulingPriorityIndicator SchedulingPriorityIndicator, t1 Τ1, discardTimer DiscardTimer OPTIONAL, mAC-hsWindowSize MAC-hsWindowSize,

```
mAChsGuaranteedBitRate
                                        MAChsGuaranteedBitRate
                                                                                  OPTIONAL,
    mACdPDU-Size-Index
                                        MACdPDU-Size-IndexList.
    rLC-Mode
                                         RLC-Mode.
    iE-Extensions
                                         ProtocolExtensionContainer { { PriorityOueue-InfoItem-to-Add-ExtIEs } }
                                                                                                                                  OPTIONAL,
    . . .
PriorityQueue-InfoItem-to-Add-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
 ID id-MaximumMACdPDU-SizeExtended
                                        CRITICALITY reject
                                                                 EXTENSION MAC-PDU-SizeExtended
                                                                                                                      PRESENCE optional } |
 ID id-DL-RLC-PDU-Size-Format
                                             CRITICALITY iqnore
                                                                     EXTENSION DL-RLC-PDU-Size-Format
                                                                                                           PRESENCE optional },
    . . .
PriorityOueue-InfoItem-to-Modify ::= SEQUENCE {
    priorityOueue-Id
                                         PriorityQueue-Id,
    schedulingPriorityIndicator
                                         SchedulingPriorityIndicator
                                                                                  OPTIONAL,
    t1
                                        T1
                                                                                  OPTIONAL,
                                        DiscardTimer
    discardTimer
                                                                                  OPTIONAL,
    mAC-hsWindowSize
                                        MAC-hsWindowSize
                                                                                  OPTIONAL,
    mAChsGuaranteedBitRate
                                        MAChsGuaranteedBitRate
                                                                                  OPTIONAL,
    mACdPDU-Size-Index-to-Modify
                                        MACdPDU-Size-IndexList-to-Modify
                                                                                              OPTIONAL,
                                         ProtocolExtensionContainer { { PriorityQueue-InfoItem-to-Modify-ExtIEs } }
    iE-Extensions
                                                                                                                                          OPTIONAL,
    . . .
PriorityQueue-InfoItem-to-Modify-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
 ID id-MaximumMACdPDU-SizeExtended
                                         CRITICALITY reject
                                                                                                                      PRESENCE optional }
                                                                 EXTENSION
                                                                             MAC-PDU-SizeExtended
{ ID id-DL-RLC-PDU-Size-Format
                                         CRITICALITY ignore
                                                                 EXTENSION
                                                                             DL-RLC-PDU-Size-Format
                                                                                                           PRESENCE optional },
    . . .
3
PriorityQueue-InfoList-to-Modify-Unsynchronised ::= SEQUENCE (SIZE (0..maxNrOfPrioQueues)) OF PriorityQueue-InfoItem-to-Modify-Unsynchronised
PriorityQueue-InfoItem-to-Modify-Unsynchronised ::= SEQUENCE {
    prioritvOueueId
                                         PrioritvOueue-Id,
                                        SchedulingPriorityIndicator
    schedulingPriorityIndicator
                                                                                                                      OPTIONAL,
    discardTimer
                                        DiscardTimer
                                                                                                                      OPTIONAL,
                                                                                                                      OPTIONAL,
    mAChsGuaranteedBitRate
                                        MAChsGuaranteedBitRate
                                         ProtocolExtensionContainer { { PriorityQueue-InfoItem-to-Modify-Unsynchronised-ExtIEs }
    iE-Extensions
    OPTIONAL,
    . . .
PriorityQueue-InfoItem-to-Modify-Unsynchronised-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
PropagationDelay
                            ::= INTEGER (0..255)
ProvidedInformation ::= SEQUENCE {
                            MBMSChannelTypeInfo
    mBMSChannelTypeInfo
                                                         OPTIONAL,
    mBMSPreferredFreqLayerInfo MBMSPreferredFreqLayerInfo
                                                                 OPTIONAL,
    iE-Extensions
                                     ProtocolExtensionContainer { { ProvideInformation-ExtIEs } } OPTIONAL,
    . . .
```

```
ProvideInformation-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    { ID id-UpPCH-InformationList-LCRTDD
                                            CRITICALITY ignore
                                                                    EXTENSION UpPCH-InformationList-LCRTDD
                                                                                                                                 PRESENCE optional },
    -- Applicable to 1.28Mcps TDD only
    . . .
}
UpPCH-InformationList-LCRTDD ::= SEQUENCE (SIZE (0.. maxFrequencyinCell)) OF ProtocolIE-Single-Container {{ UpPCH-InformationItemIE-LCRTDD }}
UpPCH-InformationItemIE-LCRTDD RNSAP-PROTOCOL-IES ::= {
    { ID
           id-UpPCH-InformationItem-LCRTDD CRITICALITY ignore TYPE UpPCH-InformationItem-LCRTDD
                                                                                                                     PRESENCE mandatory },
    . . .
}
UpPCH-InformationItem-LCRTDD ::= SEQUENCE {
    uARFCNforNt
                           UARFCN
                                                    OPTIONAL,
    uPPCHPositionLCR
                            UPPCHPositionLCR
                                                    OPTIONAL,
                           ProtocolExtensionContainer { { UpPCH-InformationItem-LCRTDD-ExtIEs } }
   iE-Extensions
                                                                                                                          OPTIONAL,
    . . .
UpPCH-InformationItem-LCRTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
PunctureLimit
                           ::= INTEGER (0..15)
-- 0: 40%; 1: 44%; ... 14: 96%; 15: 100
-- 0 is not applicable for E-DPCH
PTMCellList ::= SEQUENCE (SIZE (1..maxNrOfCells)) OF MBMSChannelTypeCellList
PTPCellList ::= SEQUENCE (SIZE (1..maxNrOfCells)) OF MBMSChannelTypeCellList
-- O
OE-Selector ::= ENUMERATED {
    selected,
    non-selected
Process-Memory-Size ::= ENUMERATED {
                                        hms800, hms1600, hms2400, hms3200, hms4000,
                                        hms4800, hms5600, hms6400, hms7200, hms8000,
                                        hms8800, hms9600, hms10400, hms11200, hms12000,
                                        hms12800, hms13600, hms14400, hms15200, hms16000,
                                        hms17600, hms19200, hms20800, hms22400, hms24000,
                                        hms25600, hms27200, hms28800, hms30400, hms32000,
                                        hms36000, hms40000, hms44000, hms48000, hms52000,
                                        hms56000, hms60000, hms64000, hms68000, hms72000,
                                        hms76000, hms80000, hms88000, hms96000, hms104000,
                                        hms112000, hms120000, hms128000, hms136000, hms144000,
                                        hms152000, hms160000, hms176000, hms192000, hms208000,
```

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hms224000, hms240000, hms256000, hms272000, hms288000, hms304000,...}

```
-- R
```

```
RAC
                    ::= OCTET STRING (SIZE(1))
RANAP-EnhancedRelocationInformationRequest
                                                ::= BIT STRING
RANAP-EnhancedRelocationInformationResponse
                                                ::= BIT STRING
RANAP-RelocationInformation
                               ::= BIT STRING
Range-Correction-Rate ::= INTEGER (-127..127)
-- scaling factor 0.032 m/s
RateMatchingAttribute
                               ::= INTEGER (1..maxRateMatching)
RB-Identity
                                ::= INTEGER (0..31)
RB-Info ::= SEQUENCE (SIZE(1..maxNoOfRB)) OF RB-Identity
Received-Total-Wideband-Power-Value ::= Received-total-wide-band-power
Received-Total-Wideband-Power-Value-IncrDecrThres ::= INTEGER(0..620)
-- Unit dB Step 0.1dB
-- e.g. value 100 means 10dB
Reference-E-TFCI-Information ::= SEQUENCE (SIZE (1..maxNrOfRefETFCIs)) OF Reference-E-TFCI-Information-Item
Reference-E-TFCI-Information-Item ::= SEQUENCE {
    reference-E-TFCI
                                    E-TFCI,
    -- The following IE shall be ignored if id-Ext-Reference-E-TFCI-PO is present in Reference-E-TFCI-Information-Item-ExtIEs
    reference-E-TFCI-PO
                                   Reference-E-TFCI-PO,
                                    ProtocolExtensionContainer { { Reference-E-TFCI-Information-Item-ExtIEs } }
    iE-Extensions
                                                                                                                         OPTIONAL,
    . . .
ļ
Reference-E-TFCI-Information-Item-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    -- The following IE shall be present if the ref E-TFCI power offset to be signalled exceeds maxNrOfRefETFCI-PO-QUANTSTEPs
    { ID id-Ext-Reference-E-TFCI-PO
                                                                EXTENSION Ext-Reference-E-TFCI-PO
                                                                                                                 PRESENCE optional },
                                        CRITICALITY reject
    . . .
Reference-E-TFCI-PO ::= INTEGER (0.. maxNrOfRefETFCI-PO-OUANTSTEPs)
RefTFCNumber ::= INTEGER (0..15)
Released-CN-Domain ::= CHOICE {
   pSDomain
                            NULL,
    cSDomain
                            NULL,
   pS-CSDomain
                           NULL,
    . . .
```

RepetitionLength ::= INTEGER (1...63) RepetitionPeriod ::= ENUMERATED { v1, v2, v4, v8, v16, v32, v64 RepetitionNumber0 ::= INTEGER (0..255) RepetitionNumber1 ::= INTEGER (1..256) ReportCharacteristics ::= CHOICE { onDemand NULL, periodic Periodic, EventA, eventA EventB, eventB eventC EventC, eventD EventD, eventE EventE, EventF, eventF ..., extension-ReportCharacteristics Extension-ReportCharacteristics } Extension-ReportCharacteristics ::= ProtocolIE-Single-Container {{ Extension-ReportCharacteristicsIE }} Extension-ReportCharacteristicsIE RNSAP-PROTOCOL-IES ::= { { ID id-OnModification CRITICALITY reject TYPE OnModification PRESENCE mandatory } ReportPeriodicity ::= CHOICE { ten-msec INTEGER (1..6000,...), -- The Report Periodicity gives the reporting periodicity in number of 10 ms periods. -- E.g. value 6000 means 60000ms (i.e. 1min) -- Unit ms, Step 10ms min INTEGER (1..60,...), -- Unit min, Step 1min . . . RequestedDataValue ::= SEQUENCE { qA-AccessPointPositionwithAltitude GA-AccessPointPositionwithOptionalAltitude OPTIONAL, *iPDLParameters* OPTIONAL, IPDLParameters dGPSCorrections OPTIONAL, DGPSCorrections gPS-NavigationModel-and-TimeRecovery GPS-NavigationModel-and-TimeRecovery OPTIONAL, gPS-Ionospheric-Model GPS-Ionospheric-Model OPTIONAL, gPS-UTC-Model GPS-UTC-Model OPTIONAL,

```
qPS-Almanac
                                                GPS-Almanac
                                                                                             OPTIONAL,
    gPS-RealTime-Integrity
                                                GPS-RealTime-Integrity
                                                                                             OPTIONAL.
    aps-RX-POS
                                                GPS-RX-POS
                                                                                             OPTIONAL.
    sFNSFN-GA-AccessPointPosition
                                                GA-AccessPointPositionwithOptionalAltitude OPTIONAL,
    iE-Extensions
                                                ProtocolExtensionContainer { { RequestedDataValue-ExtIEs } }
                                                                                                                         OPTIONAL.
    . . .
RequestedDataValue-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    { ID id-Cell-Capacity-Class-Value
                                                    CRITICALITY ignore EXTENSION Cell-Capacity-Class-Value
    PRESENCE optional }|
    { ID id-NACC-Related-Data
                                                    CRITICALITY ignore EXTENSION NACC-Related-Data
        PRESENCE optional }|
    { ID id-MBMS-Bearer-Service-Full-Address
                                                    CRITICALITY ignore EXTENSION MBMS-Bearer-Service-Full-Address
                                                                                                                                         PRESENCE
optional }|
      ID id-Inter-Frequency-Cell-Information
                                                    CRITICALITY ignore EXTENSION
                                                                                   Inter-Frequency-Cell-Information
                                                                                                                                 PRESENCE optional }
                                                                                                                                 PRESENCE optional }
      ID id-GANSS-Common-Data
                                                    CRITICALITY ignore
                                                                        EXTENSION GANSS-Common-Data
                                                    CRITICALITY ignore EXTENSION GANSS-Generic-Data
     ID id-GANSS-Generic-Data
       PRESENCE optional }|
     ID id-Counting-Information
                                                    CRITICALITY ignore EXTENSION Counting-Information
                                                                                                                                 PRESENCE optional }|
     ID id-Transmission-Mode-Information
                                                    CRITICALITY ignore EXTENSION Transmission-Mode-Information
                                                                                                                                         PRESENCE
optional }|
      ID id-MBMS-Neighbouring-Cell-Information
                                                    CRITICALITY ignore EXTENSION MBMS-Neighbouring-Cell-Information
                                                                                                                                 PRESENCE optional }|
     ID id-RLC-Sequence-Number
                                                    CRITICALITY ignore EXTENSION RLC-Sequence-Number
                                                                                                                                 PRESENCE optional },
    . . .
}
RequestedDataValueInformation ::= CHOICE {
    informationAvailable
                                InformationAvailable,
    informationNotAvailable
                                InformationNotAvailable
}
RestrictionStateIndicator := ENUMERATED {
    cellNotResevedForOperatorUse,
    cellResevedForOperatorUse,
    . . .
RL-ID
                        ::= INTEGER (0..31)
RL-Set-ID
                        ::= INTEGER (0..31)
RL-Specific-DCH-Info ::= SEQUENCE (SIZE (1..maxNrOfDCHs)) OF RL-Specific-DCH-Info-Item
RL-Specific-DCH-Info-Item ::= SEOUENCE {
    dCH-id
                            DCH-ID,
    bindingID
                            BindingID OPTIONAL,
    -- Shall be ignored if bearer establishment with ALCAP.
    transportLayerAddress TransportLayerAddress
                                                        OPTIONAL,
    -- Shall be ignored if bearer establishment with ALCAP.
                            ProtocolExtensionContainer { { RL-Specific-DCH-Info-Item-ExtIEs } } OPTIONAL,
    iE-Extensions
    . . .
```

```
RL-Specific-DCH-Info-Item-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
      ID id-TransportBearerNotReguestedIndicator
                                                   CRITICALITY ignore EXTENSION TransportBearerNotReguestedIndicator
                                                                                                                                 PRESENCE optional
    }, -- FDD only
    . . .
3
RL-Specific-EDCH-Information ::= SEQUENCE {
    rL-Specific-EDCH-Info RL-Specific-EDCH-Info,
    e-AGCH-PowerOffset
                            E-AGCH-PowerOffset
                                                                                                        OPTIONAL,
    e-RGCH-PowerOffset
                            E-RGCH-PowerOffset
                                                                                                        OPTIONAL,
    e-HICH-PowerOffset
                            E-HICH-PowerOffset
                                                                                                        OPTIONAL,
                            ProtocolExtensionContainer { { RL-Specific-EDCH-Information-Item-ExtIEs } } OPTIONAL,
    iE-Extensions
    . . .
RL-Specific-EDCH-Information-Item-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
}
RL-Specific-EDCH-Info ::= SEQUENCE (SIZE (1..maxNrOfEDCHMACdFlows)) OF RL-Specific-EDCH-InfoItem
RL-Specific-EDCH-InfoItem ::= SEOUENCE {
    eDCH-MACdFlow-ID
                                        EDCH-MACdFlow-ID,
    bindingID
                                        BindingID
                                                             OPTIONAL,
    -- Shall be ignored if bearer establishment with ALCAP.
    transportLayerAddress
                                        TransportLayerAddress
                                                                     OPTIONAL,
    -- Shall be ignored if bearer establishment with ALCAP.
    iE-Extensions
                            ProtocolExtensionContainer { { RL-Specific-EDCH-Info-Item-ExtIEs } } OPTIONAL,
    . . .
RL-Specific-EDCH-Info-Item-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
      ID id-TransportBearerNotRequestedIndicator CRITICALITY ignore EXTENSION TransportBearerNotRequestedIndicator
                                                                                                                                 PRESENCE optional
    }, -- FDD only
    . . .
}
RLC-Mode
            ::= ENUMERATED
    rLC-AM,
    rLC-UM,
    . . .
DL-RLC-PDU-Size-Format ::= ENUMERATED {
    fixed-RLC-PDU-Size,
    flexible-RLC-PDU-Size,
    . . .
ļ
RLC-Sequence-Number
                       ::= INTEGER (0..127)
RNC-ID
                        ::= INTEGER (0..4095)
```

RNTI-Allocation-Indicator ::= ENUMERATED {

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```

```
true
}
Round-Trip-Time-IncrDecrThres ::= INTEGER(0...32766)
Round-Trip-Time-Value ::= INTEGER(0..32767)
-- According to mapping in TS 25.133 [23]
RSCP-Value ::= INTEGER (0..127)
-- According to mapping in TS 25.123 [24]
RSCP-Value-IncrDecrThres ::= INTEGER (0..126)
Received-total-wide-band-power
                                            ::= INTEGER (0..621)
-- According to mapping in TS 25.133 [23]
RT-Load-Value-IncrDecrThres ::= INTEGER(0..100)
RT-Load-Value ::= INTEGER(0..100)
RTLoadValue ::= SEQUENCE {
       uplinkRTLoadValue
                                INTEGER(0..100),
       downlinkRTLoadValue
                               INTEGER(0..100)
}
RxTimingDeviationForTA
                                   ::= INTEGER (0..127)
-- As specified in TS 25.435 [5], ch. 6.2.7.6
-- For 1.28Mcps TDD this IE must be set to 0.
RxTimingDeviationForTAext
                                       ::= INTEGER (0..511)
-- As specified in TS 25.435 [5] [3.84 Mcps TDD only]
RxTimingDeviationForTA768
                                       ::= INTEGER (0.. 1023)
-- As specified in TS 25.435 [5]
Rx-Timing-Deviation-Value ::= INTEGER (0..8191)
--According to mapping in TS 25.123 [24] [3.84Mcps TDD only]
Rx-Timing-Deviation-Value-ext ::= INTEGER (0..32767)
--According to mapping in TS 25.123 [24] [3.84Mcps TDD only]
Rx-Timing-Deviation-Value-LCR ::= INTEGER (0..511)
--According to mapping in TS 25.123 [24] [1.28Mcps TDD only]
Rx-Timing-Deviation-Value-768 ::= INTEGER (0..65535)
--According to mapping in TS 25.123 [24] [7.68Mcps TDD only]
RefBeta ::= INTEGER (-15..16)
-- S
SAC
                   ::= OCTET STRING (SIZE (2))
```

```
SAI ::= SEQUENCE {
    pLMN-Identity
                        PLMN-Identity,
    1AC
                        LAC.
    sAC
                        SAC,
    iE-Extensions
                        ProtocolExtensionContainer { {SAI-ExtIEs} } OPTIONAL
}
SAI-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
SAT-ID ::= INTEGER (0..63)
SCH-TimeSlot
                            ::= INTEGER (0...6)
ScaledAdjustmentRatio
                                ::= INTEGER(0..100)
-- AdjustmentRatio = ScaledAdjustmentRatio / 100
SchedulingInformation
                                ::= ENUMERATED {
    included.
    not-included
SecondaryServingCells ::= SEQUENCE (SIZE (1..maxNrOfHSDSCH-1)) OF SecondaryServingCellsItem
SecondaryServingCellsItem ::= SEQUENCE {
    secondaryC-ID
                                C-ID.
    numSecondaryHS-SCCH-Codes
                                    NumHS-SCCH-Codes
                                                             OPTIONAL,
    sixtyfourQAM-UsageAllowedIndicator
                                            SixtyfourQAM-UsageAllowedIndicator
                                                                                      OPTIONAL,
    iE-Extensions
                                                     ProtocolExtensionContainer { { SecondaryServingCellsItem-ExtIEs } }
    OPTIONAL,
    . . .
}
SecondaryServingCellsItem-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
{ID id-MIMO-ActivationIndicator
                                        CRITICALITY ignore EXTENSION MIMO-ActivationIndicator PRESENCE optional }
{ID id-EDCH-Indicator
                                        CRITICALITY ignore EXTENSION NULL
                                                                                                  PRESENCE optional }
ID id-power-offset-for-S-CPICH-for-MIMO-Request-Indicator CRITICALITY ignore EXTENSION PowerOffsetForSecondaryCPICHforMIMORequestIndicator
    PRESENCE optional },
    . . .
}
Secondary-CCPCH-Info-TDD::= SEOUENCE {
    dl-TFCS
                                            TFCS,
    tFCI-Coding
                                            TFCI-Coding,
    secondary-CCPCH-TDD-InformationList
                                            Secondary-CCPCH-TDD-InformationList,
    fACH-InformationList
                                            FACH-InformationList,
    pCH-InformationList
                                            PCH-InformationList,
    iE-Extensions
                                            ProtocolExtensionContainer { { Secondary-CCPCH-Info-TDD-ExtIEs } } OPTIONAL,
    . . .
```

```
Secondary-CCPCH-Info-TDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
Secondary-CPICH-Information ::= SEQUENCE {
   dl-ScramblingCode
                                             DL-ScramblingCode,
   fDD-DL-ChannelisationCodeNumber
                                             FDD-DL-ChannelisationCodeNumber,
                                             ProtocolExtensionContainer { { Secondary-CPICH-Information-ExtIEs } } OPTIONAL,
  iE-Extensions
    . . .
Secondary-CPICH-Information-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
Secondary-CPICH-Information-Change ::= CHOICE {
new-secondary-CPICH
                                     Secondary-CPICH-Information,
secondary-CPICH-shall-not-be-used NULL,
. . .
}
Secondary-LCR-CCPCH-Info-TDD::= SEQUENCE {
    dl-TFCS
                                             TFCS,
    tFCI-Coding
                                             TFCI-Coding,
    secondary-LCR-CCPCH-TDD-InformationList Secondary-LCR-CCPCH-TDD-InformationList,
    fACH-InformationList
                                             FACH-InformationList,
    pCH-InformationList
                                             PCH-InformationList,
    iE-Extensions
                                             ProtocolExtensionContainer { { Secondary-LCR-CCPCH-Info-TDD-ExtIEs } } OPTIONAL,
    . . .
}
Secondary-LCR-CCPCH-Info-TDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
}
Secondary-CCPCH-Info-TDD768::= SEQUENCE {
    dl-TFCS
                                             TFCS,
    tFCI-Coding
                                             TFCI-Coding,
    secondary-CCPCH-TDD-InformationList768
                                                 Secondary-CCPCH-TDD-InformationList768,
    fACH-InformationList
                                             FACH-InformationList,
    pCH-InformationList
                                             PCH-InformationList,
                                             ProtocolExtensionContainer { { Secondary-CCPCH-Info-TDD768-ExtIEs } } OPTIONAL,
    iE-Extensions
    . . .
}
Secondary-CCPCH-Info-TDD768-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
}
Secondary-CCPCH-TDD-InformationList ::= SEQUENCE (SIZE(0.. maxNrOfSCCPCHs)) OF Secondary-CCPCH-TDD-InformationItem
Secondary-CCPCH-TDD-InformationItem ::= SEQUENCE
    timeSlot
                                    TimeSlot,
    midambleShiftAndBurstType
                                     MidambleShiftAndBurstType,
```

```
tFCI-Presence
                                    TFCI-Presence,
    secondary-CCPCH-TDD-Code-Information
                                                         Secondary-CCPCH-TDD-Code-Information,
    tDD-PhysicalChannelOffset
                                    TDD-PhysicalChannelOffset,
    repetitionLength
                                    RepetitionLength,
    repetitionPeriod
                                     RepetitionPeriod,
    iE-Extensions
                                    ProtocolExtensionContainer { { Secondary-CCPCH-TDD-InformationItem-ExtIEs } } OPTIONAL,
    . . .
Secondary-CCPCH-TDD-InformationItem-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
Secondary-LCR-CCPCH-TDD-InformationList ::= SEQUENCE (SIZE(0.. maxNrOfSCCPCHs)) OF Secondary-LCR-CCPCH-TDD-InformationItem
Secondary-LCR-CCPCH-TDD-InformationItem ::= SEQUENCE {
    timeSlotLCR
                                                 TimeSlotLCR,
    midambleShiftLCR
                                                 MidambleShiftLCR,
    tFCI-Presence
                                                 TFCI-Presence,
                                                 Secondary-LCR-CCPCH-TDD-Code-Information,
    secondary-LCR-CCPCH-TDD-Code-Information
    tDD-PhysicalChannelOffset
                                                 TDD-PhysicalChannelOffset,
    repetitionLength
                                                 RepetitionLength,
    repetitionPeriod
                                                 RepetitionPeriod,
                                                 ProtocolExtensionContainer { { Secondary-LCR-CCPCH-TDD-InformationItem-ExtIEs } } OPTIONAL,
    iE-Extensions
    . . .
Secondary-LCR-CCPCH-TDD-InformationItem-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
Secondary-CCPCH-TDD-InformationList768 ::= SEQUENCE (SIZE(0.. maxNrOfSCCPCHs768)) OF Secondary-CCPCH-TDD-InformationItem768
Secondary-CCPCH-TDD-InformationItem768 ::= SEQUENCE {
    timeSlot
                                    TimeSlot,
    midambleShiftAndBurstType768
                                        MidambleShiftAndBurstType768,
    tFCI-Presence
                                    TFCI-Presence,
    secondary-CCPCH-TDD-Code-Information768
                                                         Secondary-CCPCH-TDD-Code-Information768,
    tDD-PhysicalChannelOffset
                                    TDD-PhysicalChannelOffset,
    repetitionLength
                                    RepetitionLength,
    repetitionPeriod
                                    RepetitionPeriod,
                                    ProtocolExtensionContainer { { Secondary-CCPCH-TDD-InformationItem768-ExtIEs } } OPTIONAL,
    iE-Extensions
    . . .
Secondary-CCPCH-TDD-InformationItem768-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
ļ
Secondary-CCPCH-TDD-Code-Information ::= SEQUENCE ( SIZE (1..maxNrOfSCCPCHs)) OF Secondary-CCPCH-TDD-Code-InformationItem
Secondary-CCPCH-TDD-Code-InformationItem ::= SEQUENCE
    tDD-ChannelisationCode
                                    TDD-ChannelisationCode,
    iE-Extensions
                                    ProtocolExtensionContainer { {Secondary-CCPCH-TDD-Code-InformationItem-ExtIEs } } OPTIONAL,
```

```
. . .
}
Secondary-CCPCH-TDD-Code-InformationItem-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
}
Secondary-LCR-CCPCH-TDD-Code-Information ::= SEQUENCE ( SIZE (1..maxNrOfSCCPCHs)) OF Secondary-LCR-CCPCH-TDD-Code-InformationItem
Secondary-LCR-CCPCH-TDD-Code-InformationItem ::= SEQUENCE {
    tDD-ChannelisationCodeLCR TDD-ChannelisationCodeLCR
    s-CCPCH-TimeSlotFormat-LCR
                                    TDD-DL-DPCH-TimeSlotFormat-LCR,
    iE-Extensions
                                    ProtocolExtensionContainer { {Secondary-LCR-CCPCH-TDD-Code-InformationItem-ExtIEs} } OPTIONAL,
    . . .
Secondary-LCR-CCPCH-TDD-Code-InformationItem-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
}
Secondary-CCPCH-TDD-Code-Information768 ::= SEQUENCE ( SIZE (1..maxNrOfSCCPCHs768)) OF Secondary-CCPCH-TDD-Code-InformationItem768
Secondary-CCPCH-TDD-Code-InformationItem768 ::= SEQUENCE {
    tDD-ChannelisationCode768
                                        TDD-ChannelisationCode768,
                                    ProtocolExtensionContainer { {Secondary-CCPCH-TDD-Code-InformationItem768-ExtIEs } } OPTIONAL,
    iE-Extensions
    . . .
}
Secondary-CCPCH-TDD-Code-InformationItem768-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
Secondary-Serving-Cell-List ::= SEQUENCE {
    possible-Secondary-Serving-Cell-List
                                                                 Possible-Secondary-Serving-Cell-List,
                                ProtocolExtensionContainer { { Secondary-Serving-Cell-List-ExtIEs } }
   iE-Extensions
                                                                                                                  OPTIONAL,
    . . .
}
Secondary-Serving-Cell-List-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
Possible-Secondary-Serving-Cell-List ::= SEQUENCE (SIZE (1..maxNrOfHSDSCH-1)) OF Possible-Secondary-Serving-Cell
Possible-Secondary-Serving-Cell ::= SEOUENCE {
   c-ID
                                C-ID,
    iE-Extensions
                                ProtocolExtensionContainer { { Possible-Secondary-Serving-Cell-ExtIEs } }
                                                                                                                                  OPTIONAL,
    . . .
Possible-Secondary-Serving-Cell-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
```

```
SecondInterleavingMode ::= ENUMERATED {
    frame-related.
    timeslot-related.
    . . .
Secondary-UL-Frequency-Activation-State ::= ENUMERATED {
    activated.
    deactivated,
        . . .
Seed ::= INTEGER (0..63)
Service-ID ::= OCTET STRING (SIZE (3))
SetsOfHS-SCCH-Codes ::= SEQUENCE (SIZE (1..maxNrOfHSDSCH)) OF SetsOfHS-SCCH-CodesItem
SetsOfHS-SCCH-CodesItem ::= SEQUENCE
    hS-SCCH-PreconfiguredCodes
                                    HS-SCCH-PreconfiguredCodes,
    hSDSCH-RNTI
                        HSDSCH-RNTI,
    hSPDSCH-and-HSSCCH-ScramblingCode
                                            DL-ScramblingCode,
    sixtyfourQAM-DL-SupportIndicator
                                            SixtyfourQAM-DL-SupportIndicator
                                                                                     OPTIONAL,
    sixtyfourQAM-DL-UsageIndicator
                                        SixtyfourQAM-DL-UsageIndicator
                                                                             OPTIONAL,
    hSDSCH-TBSizeTableIndicator
                                    HSDSCH-TBSizeTableIndicator
                                                                             OPTIONAL,
    iE-Extensions
                                    ProtocolExtensionContainer { { SetsOfHS-SCCH-CodesItem-ExtIEs } } OPTIONAL,
    . . .
SetsOfHS-SCCH-CodesItem-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
{ID id-MIMO-InformationResponse
                                            CRITICALITY ignore EXTENSION MIMO-InformationResponse
                                                                                                                  PRESENCE optional }
{ID id-power-offset-for-S-CPICH-for-MIMO
                                            CRITICALITY ignore EXTENSION PowerOffsetForSecondaryCPICHforMIMO
                                                                                                                  PRESENCE optional }
ID id-Measurement-Power-Offset
                                                CRITICALITY ignore EXTENSION Measurement-Power-Offset
                                                                                                                  PRESENCE optional },
    . . .
Setup-Or-ConfigurationChange-Or-Removal-Of-EDCH-On-secondary-UL-Frequency::= CHOICE {
                            Additional-EDCH-Setup-Info,
    setup
    configurationChange
                            Additional-EDCH-Cell-Information-ConfigurationChange-List,
    removal
                            Additional-EDCH-Cell-Information-Removal-List,
    . . .
SFN ::= INTEGER (0..4095)
SFNSFN-FDD ::= INTEGER(0..614399)
SFNSFN-TDD ::= INTEGER(0..40961)
SFNSFN-TDD768 ::= INTEGER(0..81923)
GA-AccessPointPositionwithOptionalAltitude ::= SEQUENCE
    geographicalCoordinate
                                                GeographicalCoordinate,
    altitudeAndDirection
                                                GA-AltitudeAndDirection OPTIONAL,
```

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```
ProtocolExtensionContainer { { GA-AccessPointPositionwithOptionalAltitude-ExtIEs } } OPTIONAL,
    iE-Extensions
    . . .
GA-AccessPointPositionwithOptionalAltitude-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
SFNSFNChangeLimit ::= INTEGER (1..256)
-- Unit chip, Step 1/16 chip, Range 1/16..16 chip
SFNSFNDriftRate ::= INTEGER (-100..100)
-- Unit chip/s, Step 1/256 chip/s, Range -100/256..+100/256 chip/s
SFNSFNDriftRateQuality ::= INTEGER (0..100)
-- Unit chip/s, Step 1/256 chip/s, Range 0..100/256 chip/s
SFNSFNMeasurementThresholdInformation::= SEQUENCE {
                                        SFNSFNChangeLimit
    sFNSFNChangeLimit
                                                                             OPTIONAL,
    predictedSFNSFNDeviationLimit
                                        PredictedSFNSFNDeviationLimit
                                                                             OPTIONAL,
    iE-Extensions
                                    ProtocolExtensionContainer { { SFNSFNMeasurementThresholdInformation-ExtIEs } }
                                                                                                                                  OPTIONAL,
    . . .
}
SFNSFNMeasurementThresholdInformation-Extles RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
}
SFNSFNMeasurementValueInformation ::= SEQUENCE {
    successfullNeighbouringCellSFNSFNObservedTimeDifferenceMeasurementInformation
                                                                                         SEQUENCE (SIZE(1..maxNrOfMeasNCell)) OF
        SEQUENCE {
            uC-ID
                        UC-ID.
            sFNSFNValue
                                        SFNSFNValue,
            sFNSFNOuality
                                        SFNSFNOuality
                                                                         OPTIONAL,
            sFNSFNDriftRate
                                        SFNSFNDriftRate,
                                                                     OPTIONAL,
            sFNSFNDriftRateQuality
                                        SFNSFNDriftRateQuality
            sFNSFNTimeStampInformation SFNSFNTimeStampInformation,
                                        ProtocolExtensionContainer { {
            iE-Extensions
SuccessfullNeighbouringCellSFNSFNObservedTimeDifferenceMeasurementInformationItem-ExtIEs} }
                                                                                                  OPTIONAL,
            . . .
        },
    unsuccessfull Neighbouring {\tt CellsFNSFNObservedTimeDifferenceMeasurementInformation}
                                                                                          SEQUENCE (SIZE(0..maxNrOfMeasNCell-1)) OF
        SEQUENCE {
            uC-ID
                        UC-ID,
                                ProtocolExtensionContainer { {    UnsuccessfullNeighbouringCellSFNSFNObservedTimeDifferenceMeasurementInformationItem-
            iE-Extensions
ExtIEs } }
                OPTIONAL,
            . . .
        },
    iE-Extensions
                        ProtocolExtensionContainer { { SFNSFNMeasurementValueInformationItem-ExtIEs } }
                                                                                                                   OPTIONAL,
    . . .
```

SFNSFNMeasurementValueInformationItem-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {

```
. . .
}
SuccessfullNeighbouringCellSFNSFNObservedTimeDifferenceMeasurementInformationItem-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
}
UnsuccessfullNeighbouringCellSFNSFNObservedTimeDifferenceMeasurementInformationItem-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
}
SFNSFNQuality ::= INTEGER (0..255)
-- Unit chip, Step 1/16 chip, Range 0.. 255/16 chip
SFNSFNTimeStampInformation ::= CHOICE {
    sFNSFNTimeStamp-FDD
                             SFN,
    sFNSFNTimeStamp-TDD
                            SFNSFNTimeStamp-TDD,
    . . .
}
SFNSFNTimeStamp-TDD::= SEQUENCE {
    sFN
                        SFN,
                        TimeSlot,
    timeSlot
    iE-Extensions
                                     ProtocolExtensionContainer { { SFNSFNTimeStamp-ExtIEs} } OPTIONAL,
    . . .
}
SFNSFNTimeStamp-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
}
SFNSFNValue ::= CHOICE {
    sFNSFN-FDD
                    SFNSFN-FDD,
    sFNSFN-TDD
                    SFNSFN-TDD,
                                     -- LCR & HCR TDD
    ...,
    sFNSFN-TDD768
                        SFNSFN-TDD768
}
SID ::= INTEGER (0..maxNrOfPDUIndexes-1)
Single-Stream-MIMO-ActivationIndicator ::= NULL
Single-Stream-MIMO-Mode-Indicator ::= ENUMERATED {
    activate,
    deactivate
}
```

```
SIR-Error-Value
                        ::= INTEGER (0..125)
SIR-Error-Value-IncrDecrThres
                                        ::= INTEGER (0..124)
SIR-Value
                       ::= INTEGER (0..63)
-- According to mapping in TS 25.215 [11]/TS 25.225 [14]
SIR-Value-IncrDecrThres ::= INTEGER (0..62)
SixteenQAM-UL-Operation-Indicator ::= ENUMERATED {
    activate,
    deactivate
}
SixtyfourQAM-UsageAllowedIndicator ::= ENUMERATED {
    allowed,
    not-allowed
}
SixtyfourQAM-DL-SupportIndicator ::= ENUMERATED {
    sixtyfourQAM-DL-supported,
    sixtyfourQAM-DL-not-supported
}
SixtyfourQAM-DL-UsageIndicator ::= ENUMERATED {
    sixtyfourQAM-DL-used,
    sixtyfourQAM-DL-not-used
}
SignatureSequenceGroupIndex ::= INTEGER (0..19)
SNA-Information ::= SEQUENCE {
    pLMN-Identity PLMN-Identity,
   listOfSNAs
                       ListOfSNAs
                                                                        OPTIONAL,
                        ProtocolExtensionContainer { { SNA-Information-ExtIEs } } OPTIONAL,
   iE-Extensions
   . . .
SNA-Information-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
ListOfSNAs ::= SEQUENCE (SIZE (1.. maxNrOfSNAs)) OF SNACode
SNACode ::= INTEGER (0..65535)
SpecialBurstScheduling ::= INTEGER (1..256)
S-RNTI
                       ::= INTEGER (0..1048575)
-- From 0 to 2^20-1
S-RNTI-Group
                        ::= SEQUENCE {
```

<pre>sRNTI sRNTI-BitMaskIndex b1, b2, b3, b4, b5, b6, b7, b8, b9, b10, b11, b12, b13, b14, b15, b16, b17,</pre>	S-RNTI, ENUMERATED	{
b18,		
b19, } }		
<pre>SRB-Delay ::= INTEGER( SSDT-SupportIndicator not-Used-sSDT-supp sSDT-not-supported }</pre>	::= ENUMERATED {	
<pre>Status-Flag ::= ENUMER</pre>	ATED {	
<pre>STTD-SupportIndicator sTTD-Supported, sTTD-not-Supported }</pre>		{
Support-8PSK ::= ENUME v8PSK-Supported }	RATED {	
Support-PLCCH ::= ENUM vPLCCH-Supported }	ERATED {	
Support-of-Dynamic-DTX supported, not-supported	DRX-Related-HS-SC	CCH-Order ::= ENUMERATED {

```
}
SyncCase ::= INTEGER (1..2,...)
SynchronisationConfiguration ::= SEQUENCE {
    n-INSYNC-IND
                            INTEGER (1..256),
                            INTEGER (1..256),
    n-OUTSYNC-IND
    t-RLFAILURE
                          INTEGER (0..255),
-- Unit seconds, Range 0s .. 25.5s, Step 0.1s
                          ProtocolExtensionContainer { { SynchronisationConfiguration-ExtIEs } }
    iE-Extensions
                                                                                                           OPTIONAL,
    . . .
}
SynchronisationConfiguration-ExtIEs RNSAP-PROTOCOL-EXTENSION ::=
    . . .
3
SYNC-UL-ProcParameters ::= SEQUENCE
    maxSYNC-UL-transmissions
                                     ENUMERATED {v1, v2, v4, v8, ...},
                                     INTEGER (0..3, ...),
    powerRampStep
    . . .
-- T
T1 ::= ENUMERATED {v10,v20,v30,v40,v50,v60,v70,v80,v90,v100,v120,v140,v160,v200,v300,v400,...}
TDD-AckNack-Power-Offset ::= INTEGER (-7..8,...)
-- Unit dB, Range -7dB .. +8dB, Step 1dB
TDD-ChannelisationCode
                                ::= ENUMERATED {
    chCodeldiv1,
    chCode2div1,
    chCode2div2,
    chCode4div1,
    chCode4div2,
    chCode4div3,
    chCode4div4,
    chCode8div1,
    chCode8div2,
    chCode8div3,
    chCode8div4,
    chCode8div5,
    chCode8div6,
    chCode8div7,
    chCode8div8,
    chCode16div1,
    chCode16div2,
    chCode16div3,
    chCode16div4,
    chCode16div5,
    chCode16div6,
    chCode16div7,
    chCode16div8,
```

chCode16div9, chCode16div10, chCode16div11, chCode16div12, chCode16div13, chCode16div14, chCode16div15, chCode16div16, . . . } TDD-ChannelisationCode768 ::= ENUMERATED chCodeldiv1, chCode2div1, chCode2div2, chCode4div1, chCode4div2, chCode4div3, chCode4div4, chCode8div1, chCode8div2, chCode8div3, chCode8div4, chCode8div5, chCode8div6, chCode8div7, chCode8div8, chCode16div1, chCode16div2, chCode16div3, chCode16div4, chCode16div5, chCode16div6, chCode16div7, chCode16div8, chCode16div9, chCode16div10, chCode16div11, chCode16div12, chCode16div13, chCode16div14, chCode16div15, chCode16div16, chCode32div1, chCode32div2, chCode32div3, chCode32div4, chCode32div5, chCode32div6, chCode32div7, chCode32div8, chCode32div9, chCode32div10, chCode32div11,

chCode32div12, chCode32div13. chCode32div14. chCode32div15, chCode32div16, chCode32div17, chCode32div18, chCode32div19, chCode32div20, chCode32div21, chCode32div22, chCode32div23, chCode32div24, chCode32div25, chCode32div26, chCode32div27, chCode32div28, chCode32div29, chCode32div30, chCode32div31, chCode32div32, . . . TDD-ChannelisationCodeLCR ::= SEQUENCE { tDD-ChannelisationCode TDD-ChannelisationCode, modulation Modulation, -- Modulation options for 1.28Mcps TDD in contrast to 3.84Mcps TDD or 7.68Mcps TDD . . . } TDD-DCHs-to-Modify ::= SEQUENCE (SIZE (1..maxNrOfDCHs)) OF TDD-DCHs-to-ModifyItem TDD-DCHs-to-ModifyItem ::= SEQUENCE { ul-FP-Mode UL-FP-Mode OPTIONAL, toAWS TOAWS OPTIONAL, TOAWE OPTIONAL, toAWE transportBearerRequestIndicator TransportBearerRequestIndicator, dCH-SpecificInformationList TDD-DCHs-to-ModifySpecificInformationList, ProtocolExtensionContainer { { TDD-DCHs-to-ModifyItem-ExtIEs } } OPTIONAL, iE-Extensions . . . 3 TDD-DCHs-to-ModifyItem-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= { { ID id-TnlQos }, CRITICALITY ignore EXTENSION TnlQos PRESENCE optional . . . } TDD-DCHs-to-ModifySpecificInformationList ::= SEQUENCE (SIZE (1..maxNrOfDCHs)) OF TDD-DCHs-to-ModifySpecificItem TDD-DCHs-to-ModifySpecificItem ::= SEQUENCE { dCH-ID DCH-ID, ul-CCTrCH-ID CCTrCH-ID OPTIONAL, dl-CCTrCH-ID CCTrCH-ID OPTIONAL, ul-TransportformatSet TransportFormatSet OPTIONAL,

```
dl-TransportformatSet
                                    TransportFormatSet OPTIONAL,
    allocationRetentionPriority
                                    AllocationRetentionPriority OPTIONAL,
    frameHandlingPriority
                                     FrameHandlingPriority OPTIONAL,
    iE-Extensions
                                     ProtocolExtensionContainer { {TDD-DCHs-to-ModifySpecificItem-ExtIEs} } OPTIONAL,
    . . .
3
TDD-DCHs-to-ModifySpecificItem-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
     ID id-Guaranteed-Rate-Information
                                            CRITICALITY ignore EXTENSION Guaranteed-Rate-Information
                                                                                                                   PRESENCE optional
                                                                                                                                          }|
     ID id-TrafficClass
                                CRITICALITY ignore EXTENSION TrafficClass
                                                                                 PRESENCE optional },
    . . .
}
TDD-DL-Code-Information ::= SEQUENCE ( SIZE (1..maxNrOfDPCHs)) OF TDD-DL-Code-InformationItem
TDD-DL-Code-InformationItem ::= SEQUENCE {
    dPCH-ID
                                    DPCH-ID,
    tDD-ChannelisationCode
                                    TDD-ChannelisationCode,
                                    ProtocolExtensionContainer { { TDD-DL-Code-InformationItem-ExtIEs } } OPTIONAL,
    iE-Extensions
    . . .
TDD-DL-Code-InformationItem-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
TDD-DL-Code-LCR-Information ::= SEQUENCE (SIZE (1..maxNrOfDPCHsLCR)) OF TDD-DL-Code-LCR-InformationItem
TDD-DL-Code-LCR-InformationItem ::= SEQUENCE {
    dPCH-ID
                                             DPCH-ID,
    tdd-ChannelisationCodeLCR
                                             TDD-ChannelisationCodeLCR,
    tdd-DL-DPCH-TimeSlotFormat-LCR
                                            TDD-DL-DPCH-TimeSlotFormat-LCR,
    iE-Extensions
                                             ProtocolExtensionContainer { { TDD-DL-Code-LCR-InformationItem-ExtIEs } }
                                                                                                                                  OPTIONAL,
    . . .
TDD-DL-Code-LCR-InformationItem-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
TDD-DL-Code-Information768 ::= SEQUENCE ( SIZE (1..maxNrOfDPCHs768)) OF TDD-DL-Code-InformationItem768
TDD-DL-Code-InformationItem768 ::= SEQUENCE {
    dPCH-TD
                                    DPCH-ID,
    tDD-ChannelisationCode768
                                    TDD-ChannelisationCode768,
    iE-Extensions
                                    ProtocolExtensionContainer { { TDD-DL-Code-InformationItem768-ExtIEs } } OPTIONAL,
    . . .
}
TDD-DL-Code-InformationItem768-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
TDD-DL-DPCH-TimeSlotFormat-LCR ::= CHOICE {
```

```
qPSK
                                QPSK-DL-DPCH-TimeSlotFormatTDD-LCR,
    eightPSK
                                EightPSK-DL-DPCH-TimeSlotFormatTDD-LCR,
    . . .
OPSK-DL-DPCH-TimeSlotFormatTDD-LCR ::= INTEGER(0..24,...)
EightPSK-DL-DPCH-TimeSlotFormatTDD-LCR ::= INTEGER(0..24,...)
TDD-DPCHOffset ::= CHOICE {
    initialOffset
                       INTEGER (0..255),
    noinitialOffset
                        INTEGER (0..63)
}
TDD-PhysicalChannelOffset
                                ::= INTEGER (0..63)
TDD-TPC-DownlinkStepSize ::= ENUMERATED {
    step-size1,
    step-size2,
    step-size3,
    . . .
}
TDD-TPC-UplinkStepSize-LCR ::= ENUMERATED {
    step-size1,
    step-size2,
    step-size3,
    . . .
3
TDD-UL-Code-Information ::= SEQUENCE ( SIZE (1..maxNrOfDPCHs)) OF TDD-UL-Code-InformationItem
TDD-UL-Code-InformationItem ::= SEQUENCE {
    dPCH-TD
                                    DPCH-ID,
    tDD-ChannelisationCode
                                    TDD-ChannelisationCode,
    iE-Extensions
                                    ProtocolExtensionContainer { {TDD-UL-Code-InformationItem-ExtIEs} } OPTIONAL,
    . . .
}
TDD-UL-Code-InformationItem-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
TDD-UL-Code-LCR-Information ::= SEQUENCE (SIZE (1..maxNrOfDPCHsLCR)) OF TDD-UL-Code-LCR-InformationItem
TDD-UL-Code-LCR-InformationItem ::= SEQUENCE {
    dPCH-ID
                                             DPCH-ID,
    tdd-ChannelisationCodeLCR
                                             TDD-ChannelisationCodeLCR,
    tdd-UL-DPCH-TimeSlotFormat-LCR
                                             TDD-UL-DPCH-TimeSlotFormat-LCR,
                                             ProtocolExtensionContainer { { TDD-UL-Code-LCR-InformationItem-ExtIEs } }
    iE-Extensions
                                                                                                                                   OPTIONAL,
    . . .
}
```

```
TDD-UL-Code-LCR-InformationItem-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
```

```
. . .
}
TDD-UL-Code-Information768 ::= SEQUENCE ( SIZE (1..maxNrOfDPCHs768)) OF TDD-UL-Code-InformationItem768
TDD-UL-Code-InformationItem768 ::= SEQUENCE {
    dPCH-ID
                                    DPCH-ID,
                                    TDD-ChannelisationCode768,
    tDD-ChannelisationCode768
    iE-Extensions
                                    ProtocolExtensionContainer { { TDD-UL-Code-InformationItem768-ExtIEs } } OPTIONAL,
    . . .
TDD-UL-Code-InformationItem768-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
}
TDD-UL-DPCH-TimeSlotFormat-LCR ::= CHOICE {
                                OPSK-UL-DPCH-TimeSlotFormatTDD-LCR,
    qPSK
                                EightPSK-UL-DPCH-TimeSlotFormatTDD-LCR,
    eightPSK
    . . .
}
QPSK-UL-DPCH-TimeSlotFormatTDD-LCR ::= INTEGER(0..69,...)
EightPSK-UL-DPCH-TimeSlotFormatTDD-LCR ::= INTEGER(0..24,...)
TFCI-Coding ::= ENUMERATED {
    v4,
    v8,
    v16,
    v32,
    . . .
TFCI-Presence ::= ENUMERATED {
   present,
   not-present
}
TFCI-SignallingMode ::= ENUMERATED {
    normal,
    not-Used-split
}
-- The value "Not Used" shall not be used by the SRNC. The procedure shall be rejected by the DRNC if the value "Not Used" is received.
TGD
                    ::= INTEGER (0|15..269)
-- 0 = Undefined, only one transmission gap in the transmission gap pattern sequence
TGPRC
                    ::= INTEGER (0..511)
-- 0 = infinity
TGPSID
                    ::= INTEGER (1.. maxTGPS)
TGSN
                    ::= INTEGER (0..14)
```

```
TimeSlot
                       ::= INTEGER (0..14)
TimeSlotLCR ::= INTEGER (0..6)
Time-Stamp ::= INTEGER (0..9999)
-- Unit: 10ms
TimingAdvanceApplied ::= ENUMERATED {
   yes,
    no
}
SynchronisationIndicator ::= ENUMERATED {
    timingMaintainedSynchronisation,
    . . .
}
      ::= SEQUENCE {
TMGI
   plmn-id PLMN-Identity,
    service-id Service-ID,
                                    ProtocolExtensionContainer { { TMGI-ExtIEs} }
   iE-Extensions
                                                                                         OPTIONAL,
    . . .
}
TMGI-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
}
TnlQos ::= CHOICE {
    dsField
                                DsField,
    genericTrafficCategory
                                GenericTrafficCategory,
    . . .
}
                       ::= INTEGER (0..2559)
TOAWE
TOAWS
                      ::= INTEGER (0..1279)
TraceDepth
                               ::= ENUMERATED {
   minimum,
   medium,
    maximum,
    . . .
}
TraceRecordingSessionReference ::= INTEGER (0..65535)
TraceReference
                                ::= OCTET STRING (SIZE (2..3))
TrafficClass ::= ENUMERATED {
    conversational,
```

```
streaming,
    interactive,
    background,
    . . .
Transmission-Gap-Pattern-Sequence-Information ::= SEQUENCE (SIZE (1..maxTGPS)) OF
    SEOUENCE {
        tGPSID
                        TGPSID,
        tGSN
                        TGSN,
        tGL1
                        GapLength,
        tGL2
                        GapLength
                                    OPTIONAL,
        t.GD
                        TGD,
        t.GPL1
                        GapDuration,
        not-to-be-used-1
                                    GapDuration OPTIONAL,
            -- This IE shall never be included in the SEOUENCE. If received it shall be ignored
                        UL-DL-mode,
        uL-DL-mode
        downlink-Compressed-Mode-Method
                                            Downlink-Compressed-Mode-Method
                                                                                 OPTIONAL,
            -- This IE shall be present if the value of the UL/DL mode IE is "DL only" or "UL/DL"
        uplink-Compressed-Mode-Method
                                            Uplink-Compressed-Mode-Method
                                                                                 OPTIONAL,
            -- This IE shall be present if the value of the UL/DL mode IE is "UL only" or "UL/DL"
        dL-FrameType
                            DL-FrameType,
        delta-SIR1
                        DeltaSIR,
        delta-SIR-after1 DeltaSIR,
                                    OPTIONAL,
        delta-SIR2
                       DeltaSIR
        delta-SIR-after2
                            DeltaSIR
                                        OPTIONAL,
        iE-Extensions
                                ProtocolExtensionContainer { {Transmission-Gap-Pattern-Sequence-Information-ExtIEs} } OPTIONAL,
        . . .
Transmission-Gap-Pattern-Sequence-Information-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
}
Transmission-Gap-Pattern-Sequence-ScramblingCode-Information
                                                                ::= ENUMERATED{
  code-change,
  nocode-change
}
Transmission-Gap-Pattern-Sequence-Status-List ::= SEQUENCE (SIZE (0..maxTGPS)) OF
    SEQUENCE {
        tGPSID
                        TGPSID,
        tGPRC
                        TGPRC,
        tGCFN
                        CFN,
                            ProtocolExtensionContainer { { Transmission-Gap-Pattern-Sequence-Status-List-ExtIEs } } OPTIONAL,
        iE-Extensions
        . . .
Transmission-Gap-Pattern-Sequence-Status-List-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
}
TransmissionMode
                    ::=ENUMERATED {
    p-t-p,
```

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```
p-t-m,
    not-provided,
    . . .
Transmission-Mode-Information::= SEQUENCE ( SIZE (1..maxNrOfFDDNeighboursPerRNC,...)) OF Transmission-Mode-Information-List
Transmission-Mode-Information-List ::= SEQUENCE {
    C-TD
                                         C-ID,
    transmissionMode
                                         TransmissionMode,
    iE-Extensions
                                         ProtocolExtensionContainer { { Transmission-Mode-Information-List-ExtIEs } } OPTIONAL,
    . . .
}
Transmission-Mode-Information-List-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
}
TransmissionTimeIntervalDynamic ::= ENUMERATED {
    msec-10,
    msec-20,
    msec-40,
    msec-80,
    . . .
TransmissionTimeIntervalSemiStatic ::= ENUMERATED {
    msec-10,
    msec-20,
    msec-40,
    msec-80,
    dynamic,
    . . .
}
TransmitDiversityIndicator ::= ENUMERATED {
    active,
    inactive
}
Transmitted-Carrier-Power-Value ::= INTEGER(0..100)
-- according to mapping in TS 25.133 [23] and TS 25.123 [24]
Transmitted-Carrier-Power-Value-IncrDecrThres ::= INTEGER(0..100)
-- according to mapping in TS 25.133 [23] and TS 25.123 [24]
Transport-Block-Size-Index ::= INTEGER(1..maxNrOfHS-DSCHTBSs)
TUTRANGANSS ::= SEQUENCE {
    mS
                    INTEGER(0..16383),
    lS
                    INTEGER(0..4294967295)
}
TUTRANGANSSAccuracyClass ::= ENUMERATED {
```

```
ganssAccuracy-class-A,
    ganssAccuracy-class-B,
    ganssAccuracy-class-C,
    . . .
}
TUTRANGANSSMeasurementThresholdInformation ::= SEQUENCE
    tUTRANGANSSChangeLimit
                                             INTEGER(1..256)
    OPTIONAL,
    predictedTUTRANGANSSDeviationLimit
                                             INTEGER(1..256)
    OPTIONAL,
    ie-Extensions
                            ProtocolExtensionContainer { { TUTRANGANSSMeasurementThresholdInformation-Extles } }
                                                                                                                      OPTIONAL,
    . . .
}
TUTRANGANSSMeasurementThresholdInformation-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
}
TUTRANGANSSMeasurementValueInformation ::= SEQUENCE {
    tUTRANGANSS
                                    TUTRANGANSS,
    tUTRANGANSSOuality
                                    INTEGER(0..255)
    OPTIONAL,
    tUTRANGANSSDriftRate
                                    INTEGER(-50..50),
    tUTRANGANSSDriftRateQuality
                                    INTEGER(0..50)
    OPTIONAL,
                                     ProtocolExtensionContainer { { TUTRANGANSSMeasurementValueInformation-ExtIEs } }
                                                                                                                           OPTIONAL,
    ie-Extensions
    . . .
TUTRANGANSSMeasurementValueInformation-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    { ID id-GANSS-Time-ID
                                    CRITICALITY ignore
                                                             EXTENSION GANSS-Time-ID
                                                                                          PRESENCE
                                                                                                                       optional},
    . . .
}
TUTRANGPS ::= SEQUENCE {
                INTEGER (0..16383),
    ms-part
    ls-part
                INTEGER (0..4294967295)
}
TUTRANGPSChangeLimit ::= INTEGER (1..256)
-- Unit chip, Step 1/16 chip, Range 1/16..16 chip
TUTRANGPSDriftRate ::= INTEGER (-50..50)
-- Unit chip/s, Step 1/256 chip/s, Range -50/256..+50/256 chip/s
TUTRANGPSDriftRateQuality ::= INTEGER (0..50)
-- Unit chip/s, Step 1/256 chip/s, Range 0..50/256 chip/s
TUTRANGPSAccuracyClass ::= ENUMERATED {
    accuracy-class-A,
```

```
accuracy-class-B,
    accuracy-class-C,
    . . .
TUTRANGPSMeasurementThresholdInformation ::= SEQUENCE {
    tUTRANGPSChangeLimit
                                            TUTRANGPSChangeLimit
                                                                                     OPTIONAL,
    predictedTUTRANGPSDeviationLimit
                                            PredictedTUTRANGPSDeviationLimit
                                                                                     OPTIONAL,
    iE-Extensions
                                    ProtocolExtensionContainer { { TUTRANGPSMeasurementThresholdInformation-ExtIEs } }
                                                                                                                                 OPTIONAL,
TUTRANGPSMeasurementThresholdInformation-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
}
TUTRANGPSMeasurementValueInformation ::= SEQUENCE {
       tUTRANGPS
                                        TUTRANGPS,
       tUTRANGPSQuality
                                        TUTRANGPSQuality
                                                                         OPTIONAL,
       tUTRANGPSDriftRate
                                        TUTRANGPSDriftRate,
       tUTRANGPSDriftRateQuality
                                        TUTRANGPSDriftRateQuality
                                                                         OPTIONAL,
                                        ProtocolExtensionContainer { { TUTRANGPSMeasurementValueInformationItem-ExtIEs } }
       iEe-Extensions
                                                                                                                                         OPTIONAL,
        . . .
TUTRANGPSMeasurementValueInformationItem-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
}
TUTRANGPSQuality ::= INTEGER (0..255)
-- Unit chip, Step 1/16 chip, Range 0.. 255/16 chip
TransportBearerID
                      ::= INTEGER (0..4095)
TransportBearerRequestIndicator
                                   ::= ENUMERATED
    bearer-requested,
    bearer-not-requested,
    . . .
}
TransportBearerNotRequestedIndicator
                                            ::= ENUMERATED
    transport-bearer-shall-not-be-established,
    transport-bearer-may-not-be-established
}
TransportBearerNotSetupIndicator
                                        ::= ENUMERATED {
    transport-bearer-not-setup
TransportBlockSize
                          ::= INTEGER (0..5000)
-- Unit is bits
```

```
TransportFormatCombination-Beta ::= CHOICE {
    signalledGainFactors
                          SEQUENCE {
       betaC
                                 BetaCD.
       betaD
                                BetaCD,
        refTFCNumber
                                RefTFCNumber
                                                 OPTIONAL.
                                ProtocolExtensionContainer { { SignalledGainFactors-ExtIEs } } OPTIONAL,
       iE-Extensions
        . . .
    },
    refTFCNumber
                            RefTFCNumber,
    . . .
SignalledGainFactors-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
TFCS ::= SEQUENCE
    tFCSvalues
                        CHOICE {
       no-Split-in-TFCI
                                     TFCS-TFCSList,
       not-Used-split-in-TFCI
                                    NULL,
        -- This choice shall never be made by the SRNC and the DRNC shall consider the procedure as failed if it is received.
        . . .
    },
                        ProtocolExtensionContainer { { TFCS-ExtIEs} }
    iE-Extensions
                                                                              OPTIONAL,
    . . .
3
TFCS-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
}
TFCS-TFCSList ::= SEQUENCE (SIZE (1..maxNrOfTFCs)) OF
    SEOUENCE {
       CTFC
                            TFCS-CTFC,
       tFC-Beta
                        TransportFormatCombination-Beta
                                                             OPTIONAL,
       -- The IE shall be present if the TFCS concerns a UL DPCH [FDD - or PRACH channel in FDD]
       iE-Extensions
                            ProtocolExtensionContainer { { TFCS-TFCSList-ExtIEs } }
                                                                                          OPTIONAL,
    . . .
}
TFCS-TFCSList-Extles RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
TFCS-CTFC ::= CHOICE {
    ctfc2bit
                                         INTEGER (0..3),
    ctfc4bit
                                         INTEGER (0..15),
    ctfc6bit
                                         INTEGER (0..63),
    ctfc8bit
                                         INTEGER (0..255),
    ctfc12bit
                                         INTEGER (0..4095),
    ctfc16bit
                                         INTEGER (0..65535),
    ctfcmaxbit
                                         INTEGER (0..maxCTFC)
```

```
TransportFormatSet ::= SEQUENCE {
    dynamicParts
                            TransportFormatSet-DynamicPartList,
    semi-staticPart
                            TransportFormatSet-Semi-staticPart,
                            ProtocolExtensionContainer { {TransportFormatSet-ExtIEs} } OPTIONAL,
    iE-Extensions
    . . .
٦
TransportFormatSet-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
TransportFormatSet-DynamicPartList ::= SEQUENCE (SIZE (1...maxNrOfTFs)) OF
   SEQUENCE {
       nrOfTransportBlocks
                                NrOfTransportBlocks,
       transportBlockSize
                                TransportBlockSize
                                                         OPTIONAL
        -- This IE shall be present if nrOfTransportBlocks is greater than 0 --,
                            TransportFormatSet-ModeDP,
        mode
        iE-Extensions
                                ProtocolExtensionContainer { {TransportFormatSet-DynamicPartList-ExtIEs} } OPTIONAL,
        . . .
TransportFormatSet-DynamicPartList-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
TransportFormatSet-ModeDP ::= CHOICE {
    tdd
                        TDD-TransportFormatSet-ModeDP,
    notApplicable
                        NULL,
    . . .
}
TDD-TransportFormatSet-ModeDP ::= SEQUENCE {
    transmissionTimeIntervalInformation
                                            TransmissionTimeIntervalInformation
                                                                                      OPTIONAL,
    -- This IE shall be present if the "Transmission Time Interval" of the "Semi-static Transport Format Information" is "dynamic". Otherwise it is
absent.
    iE-Extensions
                                            ProtocolExtensionContainer { { TDD-TransportFormatSet-ModeDP-ExtIEs } } OPTIONAL,
    . . .
TDD-TransportFormatSet-ModeDP-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
TransmissionTimeIntervalInformation ::= SEQUENCE (SIZE (1..maxTTI-Count)) OF
    SEOUENCE {
       transmissionTimeInterval
                                    TransmissionTimeIntervalDynamic,
                                ProtocolExtensionContainer { { TransmissionTimeIntervalInformation-ExtIEs } } OPTIONAL,
       iE-Extensions
        . . .
TransmissionTimeIntervalInformation-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
```

Transmitted-Code-Power-Value ::= INTEGER (0..127)

```
-- According to mapping in TS 25.215 [11]/TS 25.225 [14]
Transmitted-Code-Power-Value-IncrDecrThres ::= INTEGER (0..112,...)
TransportFormatManagement ::= ENUMERATED {
    cell-based,
    ue-based,
    . . .
}
TransportFormatSet-Semi-staticPart ::= SEQUENCE {
                            TransmissionTimeIntervalSemiStatic,
    transmissionTime
    channelCoding
                            ChannelCodingType,
    codingRate
                        CodingRate
                                                 OPTIONAL
    -- This IE shall be present if channelCoding is 'convolutional' or 'turbo' --,
                                RateMatchingAttribute,
    rateMatcingAttribute
    cRC-Size
                        CRC-Size,
    mode
                        TransportFormatSet-ModeSSP,
                            ProtocolExtensionContainer { {TransportFormatSet-Semi-staticPart-ExtIEs} } OPTIONAL,
    iE-Extensions
    . . .
TransportFormatSet-Semi-staticPart-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
}
TransportFormatSet-ModeSSP ::= CHOICE
    tdd
                    SecondInterleavingMode,
    notApplicable
                            NULL,
    . . .
}
TransportLayerAddress
                                ::= BIT STRING (SIZE(1..160, ...))
TrCH-SrcStatisticsDescr
                          ::= ENUMERATED {
    speech,
    rRC,
    unknown,
    . . .
}
TSN-Length ::= ENUMERATED {
    tsn-6bits,
    tsn-9bits
}
TSTD-Indicator ::= ENUMERATED {
    active,
    inactive
}
TSTD-Support-Indicator ::= ENUMERATED {
    tSTD-supported,
```

```
tSTD-not-supported
}
TxDiversityIndicator
                        ::= ENUMERATED {
    true,
    false
}
TypeOfError ::= ENUMERATED {
    not-understood,
    missing,
    . . .
}
-- U
UARFCN
                        ::= INTEGER (0..16383,...)
-- Corresponds to: 0.0Hz..3276.6Mhz. See TS 25.105 [7], TS 25.101 [43]
UDRE ::= ENUMERATED {
    lessThan1,
    between1-and-4,
    between4-and-8,
    over8,
    . . .
}
UDREGrowthRate ::=
                                     ENUMERATED {
                                         growth-1-point-5,
                                         growth-2,
                                         growth-4,
                                         growth-6,
                                         growth-8,
                                         growth-10,
                                         growth-12,
                                         growth-16
                                                      3
UDREValidityTime
                                     ENUMERATED {
                    : : =
                                         val-20sec,
                                         val-40sec,
                                         val-80sec,
                                         val-160sec,
                                         val-320sec,
                                         val-640sec,
                                         val-1280sec,
                                         val-2560sec }
UE-AggregateMaximumBitRate ::= SEQUENCE {
    uE-AggregateMaximumBitRateDownlink
                                             UE-AggregateMaximumBitRateDownlink OPTIONAL,
                                             UE-AggregateMaximumBitRateUplink
    uE-AggregateMaximumBitRateUplink
                                                                                   OPTIONAL,
    . . .
}
UE-AggregateMaximumBitRateDownlink
                                             ::= INTEGER (1..100000000)
```

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-- Unit is bits per sec UE-AggregateMaximumBitRateUplink ::= INTEGER (1..100000000) -- Unit is bits per sec UE-AggregateMaximumBitRate-Enforcement-Indicator ::= NULL UE-Capabilities-Info ::= SEQUENCE { hSDSCH-Physical-Layer-Category INTEGER (1..64,...), iE-Extensions ProtocolExtensionContainer { { UE-Capabilities-Info-ExtIEs } } OPTIONAL, . . . UE-Capabilities-Info-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= { {ID id-LCRTDD-uplink-Physical-Channel-Capability CRITICALITY ignore EXTENSION LCRTDD-Uplink-Physical-Channel-Capability PRESENCE optional} {ID id-number-Of-Supported-Carriers CRITICALITY reject EXTENSION Number-Of-Supported-Carriers PRESENCE optional } | {ID id-MIMO-SFMode-Supported-For-HSPDSCHDualStream CRITICALITY ignore EXTENSION MIMO-SFMode-For-HSPDSCHDualStream PRESENCE optional } | {ID id-MultiCarrier-HSDSCH-Physical-Layer-Category CRITICALITY ignore EXTENSION LCRTDD-HSDSCH-Physical-Layer-Category PRESENCE optional } | {ID id-UE-TS0-CapabilityLCR CRITICALITY ignore EXTENSION UE-TS0-CapabilityLCR PRESENCE optional }, . . . UE-TS0-CapabilityLCR ::= ENUMERATED { tS0-Capable, tS0-Not-Capable } LCRTDD-HSDSCH-Physical-Layer-Category ::= INTEGER (1..64) UE-DPCCH-burst1 ::= ENUMERATED {v1, v2, v5} -- Unit subframe UE-DPCCH-burst2 ::= ENUMERATED {v1, v2, v5} -- Unit subframe UE-DRX-Cycle ::= ENUMERATED {v4, v5, v8, v10, v16, v20} -- Unit subframe UE-DRX-Grant-Monitoring ::= BOOLEAN -- true: applied, false: not applied UE-DTX-Cycle1-2ms ::= ENUMERATED {v1, v4, v5, v8, v10, v16, v20} -- Unit subframe UE-DTX-Cycle1-10ms ::= ENUMERATED {v1, v5, v10, v20} -- Unit subframe UE-DTX-Cycle2-2ms ::= ENUMERATED {v4, v5, v8, v10, v16, v20, v32, v40, v64, v80, v128, v160} -- Unit subframe

```
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```

```
UE-DTX-Cycle2-10ms ::= ENUMERATED {v5, v10, v20, v40, v80, v160}
    -- Unit subframe
UE-DTX-DRX-Offset ::= INTEGER (0..159)
    -- Unit subframe
UE-DTX-Long-Preamble ::= ENUMERATED {v2, v4, v15}
    -- Units of slots
                            ::= CHOICE {
UEIdentity
    imsi
                IMSI,
    imei
                IMEI.
    imeisv
                IMEISV,
    . . .
UEMeasurementHysteresisTime ::= INTEGER (0..15)
    -- Unit dB
    -- Range 0..7.5 dB
    -- Step 0.5 dB
UEMeasurementParameterModAllow ::= ENUMERATED {
    parameterModificationAllowed,
    . . .
}
UEMeasurementReportCharacteristics ::= CHOICE {
                        UEMeasurementReportCharacteristicsPeriodic,
    periodic
    event1h
                        UEMeasurementReportCharacteristicsEvent1h,
    event1i
                        UEMeasurementReportCharacteristicsEvent1i,
    event6a
                        UEMeasurementReportCharacteristicsEvent6a,
                        UEMeasurementReportCharacteristicsEvent6b,
    event6b
    event6c
                        UEMeasurementReportCharacteristicsEvent6c,
    event6d
                        UEMeasurementReportCharacteristicsEvent6d,
    ...,
    extension-ReportCharacteristics
                                        UEMeasurementReportCharacteristics-Extension
UEMeasurementReportCharacteristicsEvent1h ::= SEQUENCE {
    uEMeasurementTreshold
                                UEMeasurementThreshold,
    uEMeasurementTimeToTrigger UEMeasurementTimeToTrigger,
    uEMeasurementHysteresisTime UEMeasurementHysteresisTime,
    iE-Extensions
                                ProtocolExtensionContainer { { UEMeasurementReportCharacteristicsEvent1h-ExtIEs } } OPTIONAL,
    . . .
UEMeasurementReportCharacteristicsEvent1h-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
}
UEMeasurementReportCharacteristicsEvent1i ::= SEQUENCE {
    uEMeasurementTreshold
                                UEMeasurementThreshold,
```

```
uEMeasurementTimeToTrigger UEMeasurementTimeToTrigger,
    uEMeasurementHysteresisTime UEMeasurementHysteresisTime,
    iE-Extensions
                                ProtocolExtensionContainer { { UEMeasurementReportCharacteristicsEvent1i-ExtIEs } } OPTIONAL,
    . . .
UEMeasurementReportCharacteristicsEvent1i-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
UEMeasurementReportCharacteristicsEvent6a ::= SEQUENCE
    uEMeasurementTreshold
                                UEMeasurementThreshold,
    uEMeasurementTimeToTrigger UEMeasurementTimeToTrigger,
    iE-Extensions
                                ProtocolExtensionContainer { { UEMeasurementReportCharacteristicsEvent6a-ExtIEs } OPTIONAL,
    . . .
UEMeasurementReportCharacteristicsEvent6a-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
3
UEMeasurementReportCharacteristicsEvent6b ::= SEQUENCE {
    uEMeasurementTreshold
                                UEMeasurementThreshold,
    uEMeasurementTimeToTrigger UEMeasurementTimeToTrigger,
    iE-Extensions
                                ProtocolExtensionContainer { { UEMeasurementReportCharacteristicsEvent6b-ExtIEs } } OPTIONAL,
    . . .
UEMeasurementReportCharacteristicsEvent6b-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
UEMeasurementReportCharacteristicsEvent6c ::= SEQUENCE {
    uEMeasurementTimeToTrigger UEMeasurementTimeToTrigger,
    iE-Extensions
                                ProtocolExtensionContainer { { UEMeasurementReportCharacteristicsEvent6c-ExtIEs } } OPTIONAL,
    . . .
UEMeasurementReportCharacteristicsEvent6c-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
3
UEMeasurementReportCharacteristicsEvent6d ::= SEQUENCE {
    uEMeasurementTimeToTrigger UEMeasurementTimeToTrigger,
                                ProtocolExtensionContainer { { UEMeasurementReportCharacteristicsEvent6d-ExtIEs } } OPTIONAL,
    iE-Extensions
    . . .
UEMeasurementReportCharacteristicsEvent6d-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
}
UEMeasurementReportCharacteristicsPeriodic ::= SEQUENCE
                            UEMeasurementReportCharacteristicsPeriodicAmountofReporting,
    amountofReporting
```

```
UEMeasurementReportCharacteristicsPeriodicReportingInterval,
    reportingInterval
    iE-Extensions
                             ProtocolExtensionContainer { { UEMeasurementReportCharacteristicsPeriodic-ExtIEs } } OPTIONAL,
    . . .
UEMeasurementReportCharacteristicsPeriodicAmountofReporting::= ENUMERATED {
    r1,
    r2,
    r4,
    r8,
    r16,
    r32,
    r64,
    rInfinity
}
UEMeasurementReportCharacteristicsPeriodicReportingInterval::= ENUMERATED {
    r250,
    r500,
    r1000,
    r2000,
    r3000,
    r4000,
    r6000,
    r8000,
    r12000,
    r16000,
    r20000,
    r24000,
    r28000,
    r32000,
    r64000
UEMeasurementReportCharacteristicsPeriodic-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
}
UEMeasurementReportCharacteristics-Extension ::= ProtocolIE-Single-Container {{ UEMeasurementReportCharacteristics-ExtensionIE }}
UEMeasurementReportCharacteristics-ExtensionIE RNSAP-PROTOCOL-IES ::= {
    . . .
UEMeasurementThreshold
                                ::= CHOICE {
                                    UEMeasurementThresholdDLTimeslotISCP,
    timeslotISCP
    uETransmitPower
                                     UEMeasurementThresholdUETransmitPower,
    . . . ,
    extension-UEMeasurementThreshold
                                         UEMeasurementThreshold-Extension
}
UEMeasurementThresholdDLTimeslotISCP ::=
                                             INTEGER(-115..-25)
UEMeasurementThresholdUETransmitPower ::=
                                             INTEGER(-50..33)
```

```
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```

```
UEMeasurementThreshold-Extension ::= ProtocolIE-Single-Container {{ UEMeasurementThreshold-ExtensionIE }}
UEMeasurementThreshold-ExtensionIE RNSAP-PROTOCOL-IES ::= {
    . . .
}
UEMeasurementTimeslotInfoHCR::= SEOUENCE (SIZE (1..maxNrOfTS)) OF UEMeasurementTimeslotInfoHCR-IEs
UEMeasurementTimeslotInfoHCR-IEs ::= SEOUENCE {
    timeSlot
                                    TimeSlot,
    burstType
                                    UEMeasurementTimeslotInfoHCRBurstType,
    iE-Extensions
                                    ProtocolExtensionContainer { { UEMeasurementTimeslotInfoHCR-IEs-ExtIEs } }
                                                                                                                           OPTIONAL,
    . . .
}
UEMeasurementTimeslotInfoHCRBurstType ::= ENUMERATED {
    type1,
    type2,
    type3,
    . . .
}
UEMeasurementTimeslotInfoHCR-IEs-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
}
UEMeasurementTimeslotInfoLCR::= SEOUENCE (SIZE (1..maxNrOfTsLCR)) OF UEMeasurementTimeslotInfoLCR-IEs
UEMeasurementTimeslotInfoLCR-IEs ::= SEQUENCE {
    timeSlot
                                    TimeSlotLCR,
    iE-Extensions
                                     ProtocolExtensionContainer { { UEMeasurementTimeslotInfoLCR-IEs-ExtIEs } }
                                                                                                                           OPTIONAL,
    . . .
UEMeasurementTimeslotInfoLCR-IEs-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
}
UEMeasurementTimeslotInfo768::= SEOUENCE (SIZE (1..maxNrOfTS)) OF UEMeasurementTimeslotInfo768-IEs
UEMeasurementTimeslotInfo768-IEs ::= SEQUENCE {
    timeSlot
                                    TimeSlot,
    burstTvpe
                                    UEMeasurementTimeslotInfo768BurstType,
                                    ProtocolExtensionContainer { { UEMeasurementTimeslotInfo768-IEs-ExtIEs } }
    iE-Extensions
                                                                                                                           OPTIONAL,
    . . .
}
UEMeasurementTimeslotInfo768BurstType ::= ENUMERATED {
    type1,
    type2,
    type3,
    . . .
```

```
}
UEMeasurementTimeslotInfo768-IEs-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
}
UEMeasurementTimeToTrigger ::= ENUMERATED {
    r0,
    r10.
    r20,
    r40,
    r60,
    r80,
    r100,
    r120,
    r160,
    r200,
    r240,
    r320,
    r640,
    r1280,
    r2560,
    r5000
UEMeasurementType ::= ENUMERATED {
    primary-CCPCH-RSCP,
    dL-Timeslot-ISCP,
    uE-Transmitted-power,
    . . .
٦
UEMeasurementValue ::= CHOICE {
    uE-Transmitted-Power
                                 UE-MeasurementValue-UE-Transmitted-Power,
    primary-CCPCH-RSCP
                                 UE-MeasurementValue-Primary-CCPCH-RSCP,
    dL-Timeslot-ISCP
                                 UE-MeasurementValue-DL-Timeslot-ISCP,
    . . . ,
    extension-UEMeasurementValue
                                         UEMeasurementValue-Extension
UE-MeasurementValue-UE-Transmitted-Power ::= SEQUENCE {
    uEMeasurementTransmittedPowerListHCR
                                                 UEMeasurementValueTransmittedPowerListHCR
                                                                                               OPTIONAL.
-- Mandatory for 3.84Mcps TDD, Not applicable for 1.28Mcps TDD or 7.68Mcps TDD
    uEMeasurementTransmittedPowerListLCR
                                                 UEMeasurementValueTransmittedPowerListLCR
                                                                                               OPTIONAL,
-- Mandatory for 1.28Mcps TDD, Not applicable for 3.84Mcps TDD or 7.68Mcps TDD
    iE-Extensions
                                                 ProtocolExtensionContainer { { UE-MeasurementValue-UE-Transmitted-Power-ExtIEs } }
    OPTIONAL,
    . . .
```

```
UE-MeasurementValue-UE-Transmitted-Power-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
```

```
{ ID id-UEMeasurementValueTransmittedPowerList768
                                                           CRITICALITY ignore EXTENSION UEMeasurementValueTransmittedPowerList768
   PRESENCE optional },
```

**ETSI** 

```
}
UEMeasurementValueTransmittedPowerListHCR ::= SEQUENCE (SIZE (1...maxNrOfTS)) OF UEMeasurementValueTransmittedPowerListHCR-IEs
UEMeasurementValueTransmittedPowerListHCR-IEs ::= SEQUENCE {
    timeSlot
                                    TimeSlot,
   uETransmitPower
                                    INTEGER(0..104),
    -- mapping according to TS 25.123 [24], values 0..20 not used
    iE-Extensions
                                                ProtocolExtensionContainer { { UEMeasurementValueTransmittedPowerListHCR-IEs-ExtIEs } }
   OPTIONAL,
    . . .
3
UEMeasurementValueTransmittedPowerListHCR-IEs-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
UEMeasurementValueTransmittedPowerListLCR ::= SEQUENCE (SIZE (1..maxNrOfTsLCR)) OF UEMeasurementValueTransmittedPowerListLCR-IEs
UEMeasurementValueTransmittedPowerListLCR-IEs ::= SEQUENCE {
    timeSlotLCR
                                    TimeSlotLCR,
    uETransmitPower
                                    INTEGER(0..104),
    -- mapping according to TS 25.123 [24], values 0..20 not used
   iE-Extensions
                                                ProtocolExtensionContainer { { UEMeasurementValueTransmittedPowerListLCR-IEs-ExtIEs } }
   OPTIONAL,
    . . .
UEMeasurementValueTransmittedPowerListLCR-IEs-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
UEMeasurementValueTransmittedPowerList768 ::= SEOUENCE (SIZE (1..maxNrOfTS)) OF UEMeasurementValueTransmittedPowerList768-IEs
UEMeasurementValueTransmittedPowerList768-IEs ::= SEOUENCE {
    timeSlot
                                    TimeSlot,
                                    INTEGER(0..104),
    uETransmitPower
    -- mapping according to TS 25.123 [24], values 0..20 not used
                                                ProtocolExtensionContainer { { UEMeasurementValueTransmittedPowerList768-IEs-ExtIEs } }
    iE-Extensions
   OPTIONAL,
    . . .
UEMeasurementValueTransmittedPowerList768-IEs-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
}
UE-MeasurementValue-Primary-CCPCH-RSCP::= SEQUENCE {
    primaryCCPCH-RSCP
                                        PrimaryCCPCH-RSCP
                                                                         OPTIONAL,
   primaryCCPCH-RSCP-Delta
                                        PrimaryCCPCH-RSCP-Delta
                                                                         OPTIONAL,
   iE-Extensions
                                        ProtocolExtensionContainer { { UE-MeasurementValue-Primary-CCPCH-RSCP-ExtIEs } }
                                                                                                                                  OPTIONAL,
    . . .
```

```
UE-MeasurementValue-Primary-CCPCH-RSCP-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
UE-MeasurementValue-DL-Timeslot-ISCP ::= SEQUENCE {
    uEMeasurementTimeslotISCPListHCR
                                            UEMeasurementValueTimeslotISCPListHCR
                                                                                    OPTIONAL,
-- Mandatory for 3.84Mcps TDD, Not applicable for 1.28Mcps TDD or 7.68Mcps TDD
    uEMeasurementTimeslotISCPListLCR
                                       UEMeasurementValueTimeslotISCPListLCR
                                                                                    OPTIONAL,
-- Mandatory for 1.28Mcps TDD, Not applicable for 3.84Mcps TDD or 7.68Mcps TDD
   iE-Extensions
                                                ProtocolExtensionContainer { { UE-MeasurementValue-DL-Timeslot-ISCP-ExtIEs } }
                                                                                                                                         OPTIONAL,
    . . .
}
UE-MeasurementValue-DL-Timeslot-ISCP-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    { ID id-UEMeasurementValueTimeslotISCPList768
                                                            CRITICALITY ignore EXTENSION UEMeasurementValueTimeslotISCPList768
    PRESENCE optional },
    . . .
}
UEMeasurementValueTimeslotISCPListHCR ::= SEQUENCE (SIZE (1..maxNrOfTS)) OF UEMeasurementValueTimeslotISCPListHCR-IEs
UEMeasurementValueTimeslotISCPListHCR-IEs ::= SEQUENCE {
    timeSlot
                                    TimeSlot,
    dL-TimeslotISCP
                                    DL-TimeslotISCP,
   iE-Extensions
                                    ProtocolExtensionContainer { { UEMeasurementValueTimeslotISCPListHCR-IEs-ExtIEs } }
                                                                                                                                 OPTIONAL,
    . . .
UEMeasurementValueTimeslotISCPListHCR-IEs-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
UEMeasurementValueTimeslotISCPListLCR ::= SEQUENCE (SIZE (1..maxNrOfTsLCR)) OF UEMeasurementValueTimeslotISCPListLCR-IEs
UEMeasurementValueTimeslotISCPListLCR-IEs ::= SEOUENCE {
    timeSlotLCR
                                    TimeSlotLCR,
    dL-TimeslotISCP
                                    DL-TimeslotISCP,
                                    ProtocolExtensionContainer { { UEMeasurementValueTimeslotISCPListLCR-IEs-ExtIEs } }
   iE-Extensions
                                                                                                                                 OPTIONAL,
    . . .
UEMeasurementValueTimeslotISCPListLCR-IEs-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
UEMeasurementValueTimeslotISCPList768 ::= SEOUENCE (SIZE (1..maxNrOfTS)) OF UEMeasurementValueTimeslotISCPList768-IEs
UEMeasurementValueTimeslotISCPList768-IEs ::= SEQUENCE {
   timeSlot
                                    TimeSlot,
    dL-TimeslotISCP
                                    DL-TimeslotISCP,
                                    ProtocolExtensionContainer { { UEMeasurementValueTimeslotISCPList768-IEs-ExtIEs } }
   iE-Extensions
                                                                                                                                 OPTIONAL,
    . . .
```

```
UEMeasurementValueTimeslotISCPList768-IES-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
UEMeasurementValue-Extension
                               ::= ProtocolIE-Single-Container {{ UEMeasurementValue-ExtensionIE }}
UEMeasurementValue-ExtensionIE RNSAP-PROTOCOL-IES ::= {
    . . .
}
UEMeasurementValueInformation ::= CHOICE {
    measurementAvailable
                                UEMeasurementValueInformationAvailable,
    measurementnotAvailable
                                UEMeasurementValueInformationnotAvailable
}
UEMeasurementValueInformationAvailable::= SEQUENCE {
                                UEMeasurementValue,
    uEmeasurementValue
                                ProtocolExtensionContainer { { UEMeasurementValueInformationAvailableItem-ExtIEs } }
    ie-Extensions
                                                                                                                                  OPTIONAL,
    . . .
}
UEMeasurementValueInformationAvailableItem-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
UEMeasurementValueInformationnotAvailable ::= NULL
UE-SupportIndicatorExtension ::= BIT STRING (SIZE (32))
-- First bit: Different HS-SCCH In Consecutive TTIs Support Indicator
-- Second bit: HS-SCCH orders in HS-SCCH-less Operation Support Indicator
-- Third bit: RRC Rel-9 (onwards) handling of DL secondary HS-DSCH (de)activation state Support Indicator
-- Fourth bit: UE DTX/DRX related HS-SCCH orders uniform behavior indicator
-- Note that undefined bits are considered as a spare bit and spare bits shall be set to 0 by the transmitter and shall be ignored by the receiver.
UE-State ::= CHOICE {
    cell-fach-pch
                                                                 Cell-Fach-Pch-State,
    ura-pch
                                                                 Ura-Pch-State,
Cell-Fach-Pch-State ::= SEQUENCE {
    d-RNTT
                                    D-RNTI,
    iE-Extensions
                                    ProtocolExtensionContainer { { Cell-Fach-Pch-State-ExtIEs } }
                                                                                                           OPTIONAL,
    . . .
Cell-Fach-Pch-State-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
}
Ura-Pch-State ::= SEQUENCE {
    srnc-id
                                     RNC-ID,
```

```
ura-id
                                    URA-ID,
    iE-Extensions
                                     ProtocolExtensionContainer { { Ura-Pch-State-ExtIEs } }
                                                                                                  OPTIONAL,
    . . .
Ura-Pch-State-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    { ID id-Extended-SRNC-ID
                                                 CRITICALITY reject EXTENSION Extended-RNC-ID
                                                                                                                           PRESENCE optional
                                                                                                                                                  },
    . . .
}
UL-Delta-T2TP ::= INTEGER (0..6,...)
UL-DL-mode ::= ENUMERATED {
    ul-only,
    dl-only,
    both-ul-and-dl
}
UL-DPDCHIndicatorEDCH ::= ENUMERATED
    uL-DPDCH-present,
    uL-DPDCH-not-present }
UL-Timeslot-Information::= SEQUENCE ( SIZE (1..maxNrOfTS)) OF UL-Timeslot-InformationItem
UL-Timeslot-InformationItem ::= SEQUENCE {
    timeSlot
                                    TimeSlot,
    midambleShiftAndBurstType
                                    MidambleShiftAndBurstType,
    tFCI-Presence
                                    TFCI-Presence,
    uL-Code-Information
                                    TDD-UL-Code-Information,
                                    ProtocolExtensionContainer { {UL-Timeslot-InformationItem-ExtIEs} } OPTIONAL,
    iE-Extensions
    . . .
UL-Timeslot-InformationItem-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
UL-TimeslotLCR-Information ::= SEQUENCE (SIZE (1..maxNrOfULTsLCR)) OF UL-TimeslotLCR-InformationItem
UL-TimeslotLCR-InformationItem ::= SEQUENCE
    timeSlotLCR
                                             TimeSlotLCR,
    midambleShiftLCR
                                            MidambleShiftLCR,
                                            TFCI-Presence,
    tFCI-Presence
    uL-Code-LCR-InformationList
                                        TDD-UL-Code-LCR-Information,
                                             ProtocolExtensionContainer { { UL-TimeslotLCR-InformationItem-ExtIEs } }
    iE-Extensions
                                                                                                                                  OPTIONAL,
    . . .
UL-TimeslotLCR-InformationItem-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    { ID id-PLCCH-Information-UL-TimeslotLCR-Info CRITICALITY ignore
                                                                             EXTENSION PLCCHinformation
                                                                                                                   PRESENCE optional },
    . . .
PLCCHinformation ::= SEQUENCE {
    tDD-ChannelisationCode
                                            TDD-ChannelisationCode,
```

```
timeSlotLCR
                                            TimeSlotLCR,
    midambleShiftLCR
                                            MidambleShiftLCR.
    sequenceNumber
                                             PLCCHsequenceNumber,
    iE-Extensions
                                             ProtocolExtensionContainer { { PLCCHinformation-ExtIEs} }
                                                                                                                           OPTIONAL,
    . . .
}
PLCCHinformation-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
UL-Timeslot-Information768::= SEQUENCE ( SIZE (1..maxNrOfTS)) OF UL-Timeslot-InformationItem768
UL-Timeslot-InformationItem768 ::= SEQUENCE {
    timeSlot
                                    TimeSlot,
    midambleShiftAndBurstType768
                                        MidambleShiftAndBurstType768,
    tFCI-Presence
                                    TFCI-Presence,
    uL-Code-Information768
                                     TDD-UL-Code-Information768,
                                    ProtocolExtensionContainer { {UL-Timeslot-InformationItem768-ExtIEs } } OPTIONAL,
    iE-Extensions
    . . .
UL-Timeslot-InformationItem768-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
UL-TimeSlot-ISCP-Info ::= SEQUENCE (SIZE (1..maxNrOfULTs)) OF UL-TimeSlot-ISCP-InfoItem
UL-TimeSlot-ISCP-InfoItem ::= SEQUENCE {
    timeSlot
                                TimeSlot,
    uL-TimeslotISCP
                                UL-TimeslotISCP,
    iE-Extensions
                                ProtocolExtensionContainer { { UL-TimeSlot-ISCP-InfoItem-ExtIEs } } OPTIONAL,
    . . .
}
UL-TimeSlot-ISCP-InfoItem-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
UL-TimeSlot-ISCP-LCR-Info ::= SEQUENCE (SIZE (1..maxNrOfULTsLCR)) OF UL-TimeSlot-ISCP-LCR-InfoItem
UL-TimeSlot-ISCP-LCR-InfoItem ::= SEQUENCE {
    timeSlotLCR
                                    TimeSlotLCR,
    iSCP
                                    UL-Timeslot-ISCP-Value,
    iE-Extensions
                                    ProtocolExtensionContainer { { UL-TimeSlot-ISCP-LCR-InfoItem-ExtIEs} }
                                                                                                                          OPTIONAL,
    . . .
 }
UL-TimeSlot-ISCP-LCR-InfoItem-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
}
UL-Timeslot-ISCP-Value ::= UL-TimeslotISCP
```

```
UL-Timeslot-ISCP-Value-IncrDecrThres ::= INTEGER(0..126)
-- Unit dB. Step 0.5dB
-- e.g. Value 100 means 50dB
UL-TimingAdvanceCtrl-LCR ::= SEQUENCE {
    sync-UL-codes-bitmap
                                                 BIT STRING (SIZE(8)),
    fPACH-info
                                                 FPACH-Information,
    prxUpPCHdes
                                                 INTEGER (-120 .. -58, ...),
    syncUL-procParameter
                                                 SYNC-UL-ProcParameters,
    mMax
                                                 INTEGER (1..32),
    . . .
    }
Uplink-Compressed-Mode-Method ::= ENUMERATED {
    sFdiv2,
    higher-layer-scheduling,
    . . .
                        ::= INTEGER (-82..173)
UL-SIR
-- The UL-SIR gives the UL-SIR in number of 0.1 dB steps.
-- E.g. Value 173 means 17.3 dB
-- Unit dB. Step 0.1 dB.
UC-ID ::= SEQUENCE {
    rNC-ID
                        RNC-ID,
                        C-ID,
    c-ID
                            ProtocolExtensionContainer { {UC-ID-ExtIEs} } OPTIONAL,
    iE-Extensions
    . . .
}
UC-ID-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    { ID id-Extended-RNC-ID
                                CRITICALITY reject
                                                         EXTENSION
                                                                     Extended-RNC-ID PRESENCE optional },
    . . .
l
UL-DPCCH-SlotFormat
                            ::= INTEGER (0..5,...)
UL-FP-Mode ::= ENUMERATED {
    normal,
    silent,
    . . .
UL-PhysCH-SF-Variation ::= ENUMERATED {
    sf-variation-supported,
    sf-variation-not-supported
}
UL-ScramblingCode ::= SEQUENCE
    ul-ScramblingCodeNumber
                                 UL-ScramblingCodeNumber,
    ul-ScramblingCodeLength
                                 UL-ScramblingCodeLength,
    iE-Extensions
                            ProtocolExtensionContainer { {UL-ScramblingCode-ExtIEs} } OPTIONAL
}
```

```
UL-ScramblingCode-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
}
UL-ScramblingCodeLength ::= ENUMERATED {
    short,
    long
}
UL-ScramblingCodeNumber
                                ::= INTEGER (0..16777215)
UL-Synchronisation-Parameters-LCR ::= SEQUENCE {
    uL-Synchronisation-StepSize
                                        UL-Synchronisation-StepSize,
                                            UL-Synchronisation-Frequency,
    uL-Synchronisation-Frequency
    iE-Extensions
                                    ProtocolExtensionContainer { { UL-Synchronisation-Parameters-LCR-ExtIEs } }
                                                                                                                          OPTIONAL,
    . . .
UL-Synchronisation-Parameters-LCR-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
UL-Synchronisation-StepSize ::= INTEGER (1..8)
UL-Synchronisation-Frequency ::= INTEGER (1..8)
UL-TimeslotISCP
                        ::= INTEGER (0..127)
-- According to mapping in TS 25.225 [14]
UPPCHPositionLCR ::= INTEGER (0..127)
UpPTSInterferenceValue ::= INTEGER (0..127,...)
Unidirectional-DCH-Indicator := ENUMERATED {
    downlink-DCH-only,
    uplink-DCH-only
}
URA-ID
                       ::= INTEGER (0..65535)
URA-Information ::= SEQUENCE {
    uRA-ID
                                        URA-ID,
    multipleURAsIndicator
                                        MultipleURAsIndicator,
    rNCsWithCellsInTheAccessedURA-List RNCsWithCellsInTheAccessedURA-List OPTIONAL,
                                        ProtocolExtensionContainer { {URA-Information-ExtIEs} } OPTIONAL,
    iE-Extensions
    . . .
}
URA-Information-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    { ID id-Extended-RNC-ID
                                                CRITICALITY reject EXTENSION Extended-RNC-ID
                                                                                                                  PRESENCE optional },
    . . .
}
```

```
RNCsWithCellsInTheAccessedURA-List ::= SEQUENCE (SIZE (1..maxRNCinURA-1)) OF RNCsWithCellsInTheAccessedURA-Item
RNCsWithCellsInTheAccessedURA-Item ::= SEOUENCE {
    rNC-ID
                                    RNC-ID.
    iE-Extensions
                                     ProtocolExtensionContainer { {RNCsWithCellsInTheAccessedURA-Item-ExtIEs} } OPTIONAL,
    . . .
RNCsWithCellsInTheAccessedURA-Item-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
}
USCH-ID
                        ::= INTEGER (0..255)
USCH-Information ::= SEQUENCE (SIZE (1..maxNoOfUSCHs)) OF USCH-InformationItem
USCH-InformationItem ::= SEQUENCE {
    uSCH-ID
                                         USCH-ID,
    ul-CCTrCH-ID
                                         CCTrCH-ID,
    trChSourceStatisticsDescriptor
                                        TrCH-SrcStatisticsDescr,
    transportFormatSet
                                         TransportFormatSet,
    allocationRetentionPriority
                                        AllocationRetentionPriority,
    schedulingPriorityIndicator
                                        SchedulingPriorityIndicator,
    rb-Info
                                        RB-Info,
    iE-Extensions
                                         ProtocolExtensionContainer { {USCH-InformationItem-ExtIEs } } OPTIONAL,
    . . .
}
USCH-InformationItem-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
      ID id-TrafficClass
                                CRITICALITY ignore EXTENSION TrafficClass
                                                                                  PRESENCE mandatory
                                                                                                           }|
    { ID id-BindingID
                                             CRITICALITY ignore
                                                                                 BindingID PRESENCE
                                                                                                                                  }|
                                                                     EXTENSION
                                                                                                                      optional
    -- Shall be ignored if bearer establishment with ALCAP.
    { ID id-TransportLayerAddress
                                            CRITICALITY iqnore
                                                                     EXTENSION
                                                                                  TransportLayerAddress
                                                                                                                   PRESENCE
                                                                                                                                  optional
                                                                                                                                                  }|
    -- Shall be ignored if bearer establishment with ALCAP.
                                                                                                                           PRESENCE optional
    { ID id-TnlQos
                                             CRITICALITY ignore
                                                                     EXTENSION
                                                                                 Tnl0os
                                                                                                                                                  }.
    . . .
}
User-Plane-Congestion-Fields-Inclusion
                                            ::= ENUMERATED { shall-be-included }
Uu-ActivationState ::= ENUMERATED {
    activated.
    de-activated,
    . . .
-- V
-- W
-- X
-- Y
-- Z
END
```

# 9.3.5 Common Definitions

-- Common definitions - -RNSAP-CommonDataTypes { itu-t (0) identified-organization (4) etsi (0) mobileDomain (0) umts-Access (20) modules (3) rnsap (1) version1 (1) rnsap-CommonDataTypes (3) } DEFINITIONS AUTOMATIC TAGS ::= BEGIN - --- Extension constants - -maxPrivateIEs INTEGER ::= 65535 maxProtocolExtensions INTEGER ::= 65535 INTEGER ::= 65535 maxProtocolIEs - --- Common Data Types - -Criticality ::= ENUMERATED { reject, ignore, notify } ::= ENUMERATED { optional, conditional, mandatory } Presence PrivateIE-ID ::= CHOICE { local INTEGER (0.. maxPrivateIEs), OBJECT IDENTIFIER qlobal } ProcedureCode ::= INTEGER (0..255) ProcedureID ::= SEQUENCE { procedureCode ProcedureCode, ddMode ENUMERATED { tdd, fdd, common, ... } } ProtocolIE-ID ::= INTEGER (0..maxProtocolIEs) TransactionID ::= CHOICE { shortTransActionId INTEGER (0..127),

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longTransActionId INTEGER (0..32767)

}

TriggeringMessage ::= ENUMERATED { initiating-message, successful-outcome, unsuccessful-outcome, outcome }

END

# 9.3.6 Constant Definitions

```
******
-- Constant definitions
_ _
  ******
RNSAP-Constants {
itu-t (0) identified-organization (4) etsi (0) mobileDomain (0)
umts-Access (20) modules (3) rnsap (1) version1 (1) rnsap-Constants (4) }
DEFINITIONS AUTOMATIC TAGS ::=
BEGIN
IMPORTS
   ProcedureCode,
   ProtocolIE-ID
FROM RNSAP-CommonDataTypes;
  - -
- -
-- Elementary Procedures
- -
     {\tt id-commonTransportChannelResourcesInitialisation}
                                                   ProcedureCode ::= 0
id-commonTransportChannelResourcesRelease
                                                   ProcedureCode ::= 1
id-compressedModeCommand
                                                   ProcedureCode ::= 2
                                                   ProcedureCode ::= 3
id-downlinkPowerControl
id-downlinkPowerTimeslotControl
                                                   ProcedureCode ::= 4
id-downlinkSignallingTransfer
                                                   ProcedureCode ::= 5
id-errorIndication
                                                   ProcedureCode ::= 6
id-dedicatedMeasurementFailure
                                                   ProcedureCode ::= 7
id-dedicatedMeasurementInitiation
                                                   ProcedureCode ::= 8
id-dedicatedMeasurementReporting
                                                   ProcedureCode ::= 9
id-dedicatedMeasurementTermination
                                                   ProcedureCode ::= 10
id-paging
                                                   ProcedureCode ::= 11
id-physicalChannelReconfiguration
                                                   ProcedureCode ::= 12
id-privateMessage
                                                   ProcedureCode ::= 13
id-radioLinkAddition
                                                   ProcedureCode ::= 14
id-radioLinkCongestion
                                                   ProcedureCode ::= 34
id-radioLinkDeletion
                                                   ProcedureCode ::= 15
id-radioLinkFailure
                                                   ProcedureCode ::= 16
id-radioLinkPreemption
                                                   ProcedureCode ::= 17
```

id-radioLinkRestoration	ProcedureCode ::= 18
id-radioLinkSetup	ProcedureCode ::= 19
id-relocationCommit	ProcedureCode ::= 20
id-synchronisedRadioLinkReconfigurationCancellation	ProcedureCode ::= 21
id-synchronisedRadioLinkReconfigurationCommit	ProcedureCode ::= 22
id-synchronisedRadioLinkReconfigurationPreparation	ProcedureCode ::= 23
id-unSynchronisedRadioLinkReconfiguration	ProcedureCode ::= 24
id-uplinkSignallingTransfer	ProcedureCode ::= 25
id-commonMeasurementFailure	ProcedureCode ::= 26
id-commonMeasurementInitiation	ProcedureCode ::= 27
id-commonMeasurementReporting	ProcedureCode ::= 28
id-commonMeasurementTermination	ProcedureCode ::= 29
id-informationExchangeFailure	ProcedureCode ::= 30
id-informationExchangeInitiation	ProcedureCode ::= 31
id-informationReporting	ProcedureCode ::= 32
id-informationExchangeTermination	ProcedureCode ::= 33
id-reset	ProcedureCode ::= 35
id-radioLinkActivation	ProcedureCode ::= 36
id-gERANuplinkSignallingTransfer	ProcedureCode ::= 37
id-radioLinkParameterUpdate	ProcedureCode ::= 38
id-uEMeasurementFailure	ProcedureCode ::= 39
id-uEMeasurementInitiation	ProcedureCode ::= 40
id-uEMeasurementReporting	ProcedureCode ::= 41
id-uEMeasurementTermination	ProcedureCode ::= 42
id-iurDeactivateTrace	ProcedureCode ::= 43
id-iurInvokeTrace	ProcedureCode ::= 44
id-mBMSAttach	ProcedureCode ::= 45
id-mBMSDetach	ProcedureCode ::= 46
id-directInformationTransfer	ProcedureCode ::= 48
id-enhancedRelocation	ProcedureCode ::= 49
id-enhancedRelocationCancel	ProcedureCode ::= 50
id-enhancedRelocationSignallingTransfer	ProcedureCode ::= 51
id-enhancedRelocationRelease	ProcedureCode ::= 52
id-mBSFNMCCHInformation	ProcedureCode ::= 53
id-secondaryULFrequencyReporting	ProcedureCode ::= 54
id-secondaryULFrequencyUpdate	ProcedureCode ::= 55

#### 

- -

-- Lists

maxCellSIB110rSIB12	INTEGER ::= 32
maxCellsMeas	INTEGER ::= 8
maxRateMatching	INTEGER ::= 256
maxNoOfDSCHs	INTEGER ::= 10
maxNoOfDSCHsLCR	INTEGER ::= 10
maxNoOfRB	INTEGER ::= 32
maxNoOfUSCHs	INTEGER ::= 10
maxNoOfUSCHsLCR	INTEGER ::= 10
maxNrOfTFCs	INTEGER ::= 1024
maxNrOfTFs	INTEGER ::= 32
maxNrOfCCTrCHs	INTEGER ::= 16

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INTEGER	::=	16	
INTEGER	::=	128	
INTEGER	::=	8	
INTEGER	::=	240	
INTEGER	::=	239	 maxNrofCCTrCH*maxNrOfULTs-1
INTEGER	::=	240	
INTEGER	::=	95	 maxNrofCCTrCH*maxNrOfULTsLCR-1

maxNrOfCCTrCHsLCR	INTEGER ::= 16
maxNrOfDCHs	INTEGER ::= 128
maxNrOfDL-Codes	INTEGER ::= 8
maxNrOfDPCHs	INTEGER ::= 240
maxNrOfDPCHsPerRL-1	INTEGER ::= 239 maxNrofCCTrCH*maxNrOf
maxNrOfDPCHsLCR	INTEGER ::= 240
maxNrOfDPCHsLCRPerRL-1	INTEGER ::= 95 maxNrofCCTrCH*maxNrOf
maxNrOfDPCHs768	INTEGER ::= 480
maxNrOfDPCHs768PerRL-1	INTEGER ::= 479
maxNrOfErrors	INTEGER ::= 256
maxNrOfMACcshSDU-Length	INTEGER ::= 16
maxNrOfMBMSServices	INTEGER ::= 128
maxNrOfActiveMBMSServices	INTEGER ::= 256
maxNrOfPoints	INTEGER ::= 15
maxNrOfRLs	INTEGER ::= 16
maxNrOfRLSets	INTEGER ::= maxNrOfRLs
maxNrOfRLSets-1	INTEGER ::= 15 maxNrOfRLSets - 1
maxNrOfRLs-1	INTEGER ::= 15 maxNrOfRLs - 1
maxNrOfRLs-2	INTEGER ::= 14 maxNrOfRLs - 2
maxNrOfUEs	INTEGER ::= 4096
maxNrOfULTs	INTEGER ::= 15
maxNrOfULTsLCR	INTEGER ::= 6
maxNrOfDLTs	INTEGER ::= 15
maxNrOfDLTsLCR	INTEGER ::= 6
maxRNCinURA-1	INTEGER ::= 15
maxTTI-Count	INTEGER ::= 4
maxCTFC	INTEGER ::= 16777215
maxNrOfNeighbouringRNCs	INTEGER ::= 10
maxNrOfFDDNeighboursPerRNC	INTEGER ::= 256
maxNrOfGSMNeighboursPerRNC	INTEGER ::= 256
maxNrOfTDDNeighboursPerRNC	INTEGER ::= 256
maxNrOfFACHs	INTEGER ::= 8
maxNrOfLCRTDDNeighboursPerRNC	INTEGER ::= 256
maxIBSEG	INTEGER ::= 16
maxNrOfSCCPCHs	INTEGER ::= 8
maxNrOfSCCPCHs768	INTEGER ::= 16
maxTGPS	INTEGER ::= 6
maxNrOfTS	INTEGER ::= 15
maxNrOfLevels	INTEGER ::= 256
maxNrOfTsLCR	INTEGER ::= 6
maxNoSat	INTEGER ::= 16
maxNoGPSTypes	INTEGER ::= 8
maxNrOfMeasNCell	INTEGER ::= 96
maxNrOfMeasNCell-1	INTEGER ::= 95 maxNrOfMeasNCell - 1
maxResetContext	INTEGER ::= 250
maxResetContextGroup	INTEGER ::= 32
maxNrOfHARQProc	INTEGER ::= 8
maxNrOfHSSCCHCodes	INTEGER ::= 4
maxNrOfHSSICHs	INTEGER ::= 4
maxNrOfHSSICHs-1	INTEGER ::= 3
maxNrOfMACdFlows	INTEGER ::= 8
maxNrOfMACdFlows-1	INTEGER ::= 0 INTEGER ::= 7 maxNrOfMACdFlows - 1
maxNrOfMACdPDUSize	INTEGER ::= 32
maxNrOfPDUIndexes	INTEGER ::= 8
MANATOLI DOLINGACO	INIDOIR= 0

maxNrOfPDUIndexes-1	INTEGER ::= 7 maxNrOfPDUIndexes - 1
maxNrOfPrioQueues	INTEGER ::= 8
maxNrOfPrioQueues-1	INTEGER ::= 7 maxNrOfPrioQueues - 1
maxNrOfSNAs	INTEGER ::= 65536
maxNrOfSatAlmanac-maxNoSat	INTEGER ::= 16
maxNrOfGERANSI	INTEGER ::= 8
maxNrOfInterfaces	INTEGER ::= 16
maxNrofSigSeqERGHICH-1	INTEGER ::= 39
maxNrOfCells	INTEGER ::= 65536
maxNrOfAddFreq	INTEGER ::= 8
maxNrOfCellsPerFreq	INTEGER ::= 65536
maxNrOfEDCHMACdFlows-1	INTEGER ::= 7
maxNrOfEDCH-HARQ-PO-QUANTSTEPs	INTEGER ::= 6
maxNrOfEDPCCH-PO-QUANTSTEPs	INTEGER ::= 8
maxNrOfEDCHHARQProcesses2msEDCH	INTEGER ::= 8
maxNrOfBits-MACe-PDU-non-scheduled	INTEGER ::= 19982
maxNrOfRefETFCIs	INTEGER ::= 8
maxNrOfRefETFCI-PO-QUANTSTEPs	INTEGER ::= 29
maxNrOfEDCHMACdFlows	INTEGER ::= 8
maxNoOfLogicalChannels	INTEGER ::= 16 only maximum 15 can be
maxNrOfRefBetas	INTEGER ::= 8
maxNrOfEAGCHCodes	INTEGER ::= 4
maxNrOfHS-DSCHTBSs	INTEGER ::= 90
maxNrOfHS-DSCHTBSs-HS-SCCHless	INTEGER ::= 4
maxHS-PDSCHCodeNrComp-1	INTEGER ::= 15
maxNrOfEHICHCodes	INTEGER ::= 4
maxGANSSSat	INTEGER ::= 64
maxNoGANSS	INTEGER ::= 8
maxSgnType	INTEGER ::= 8
maxNrOfBroadcastPLMNs	INTEGER ::= 5
maxHSDPAFrequency	INTEGER ::= 8
maxHSDPAFrequency-1	INTEGER ::= 7
maxFrequencyinCell	INTEGER ::= 12
maxFrequencyinCell-1	INTEGER ::= 11
maxGANSSSatAlmanac	INTEGER ::= 36
maxGANSSClockMod	INTEGER ::= 4
maxNrOfEDCHRLs	INTEGER ::= 4
maxEARFCN	INTEGER ::= 65535
maxNrOfEUTRANeighboursPerRNC	INTEGER ::= 256
maxNrOfMCCHMessages	INTEGER ::= 5
maxNrOfMBMSL3	INTEGER ::= 5 INTEGER ::= 64
maxNrOfEDCHMACdFlowsLCR	INTEGER ::= 256
maxNrOfEDCHMACdFlowsLCR-1	INTEGER ::= 255
maxNrOfPreconfiguredNeighbours	INTEGER ::= 256
maxNrOfHSDSCH-1	INTEGER ::= 32
maxNrOfHSDSCH	INTEGER ::= 33
maxGANSS-1	INTEGER ::= 7
maxlengthMBMSconcatservlists	INTEGER ::= 96
maxNoOfTBSs-Mapping-HS-DSCH-SPS	INTEGER ::= 4
maxNoOfTBSs-Mapping-HS-DSCH-SPS-1	INTEGER ::= 3
maxNoOfHS-DSCH-TBSsLCR	INTEGER ::= 64
maxNoOfRepetition-Period-LCR	INTEGER ::= 4
maxNoOfRepetitionPeriod-SPS-LCR-1	INTEGER ::= 3
maxNoOf-HS-SICH-SPS	INTEGER ::= 4

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used

maxNoOf-HS-SICH-SPS-1	INTEGER	::= 3		
maxNoOfNon-HS-SCCH-Assosiated-HS-SICH	INTEGER	::= 4		
maxNrOfEDCH-1	INTEGER	::= 32		
maxNrOfDCHMeasurementOccasionPatternSec	quence	INTEGER	::=	6

id-AllowedQueuingTime	ProtocolIE-ID ::= 4
id-Allowed-Rate-Information	ProtocolIE-ID ::= 42
id-AntennaColocationIndicator	ProtocolIE-ID ::= 309
id-BindingID	ProtocolIE-ID ::= 5
id-C-ID	ProtocolIE-ID ::= 6
id-C-RNTI	ProtocolIE-ID ::= 7
id-Cell-Capacity-Class-Value	ProtocolIE-ID ::= 303
id-CFN	ProtocolIE-ID ::= 8
id-CN-CS-DomainIdentifier	ProtocolIE-ID ::= 9
id-CN-PS-DomainIdentifier	ProtocolIE-ID ::= 10
id-Cause	ProtocolIE-ID ::= 11
id-CoverageIndicator	ProtocolIE-ID ::= 310
id-CriticalityDiagnostics	ProtocolIE-ID ::= 20
id-ContextInfoItem-Reset	ProtocolIE-ID ::= 211
id-ContextGroupInfoItem-Reset	ProtocolIE-ID ::= 515
id-D-RNTI	ProtocolIE-ID ::= 21
id-D-RNTI-ReleaseIndication	ProtocolIE-ID ::= 22
id-DCHs-to-Add-FDD	ProtocolIE-ID ::= 26
id-DCHs-to-Add-TDD	ProtocolIE-ID ::= 27
id-DCH-DeleteList-RL-ReconfPrepFDD	ProtocolIE-ID ::= 30
id-DCH-DeleteList-RL-ReconfPrepTDD	ProtocolIE-ID ::= 31
id-DCH-DeleteList-RL-ReconfRqstFDD	ProtocolIE-ID ::= 32
id-DCH-DeleteList-RL-ReconfRqstTDD	ProtocolIE-ID ::= 33
id-DCH-FDD-Information	ProtocolIE-ID ::= 34
id-DCH-TDD-Information	ProtocolIE-ID ::= 35
id-FDD-DCHs-to-Modify	ProtocolIE-ID ::= 39
id-TDD-DCHs-to-Modify	ProtocolIE-ID ::= 40
id-DCH-InformationResponse	ProtocolIE-ID ::= 43
id-DCH-Rate-InformationItem-RL-CongestInd	ProtocolIE-ID ::= 38
id-DL-CCTrCH-InformationAddItem-RL-ReconfPrepTDD	ProtocolIE-ID ::= 44
id-DL-CCTrCH-InformationListIE-RL-ReconfReadyTDD	ProtocolIE-ID ::= 45
id-DL-CCTrCH-InformationDeleteItem-RL-ReconfRqstTDD	ProtocolIE-ID ::= 46
id-DL-CCTrCH-InformationItem-RL-SetupRqstTDD	ProtocolIE-ID ::= 47
id-DL-CCTrCH-InformationListIE-PhyChReconfRqstTDD	ProtocolIE-ID ::= 48
id-DL-CCTrCH-InformationListIE-RL-AdditionRspTDD	ProtocolIE-ID ::= 49
id-DL-CCTrCH-InformationListIE-RL-SetupRspTDD	ProtocolIE-ID ::= 50
id-DL-CCTrCH-InformationAddList-RL-ReconfPrepTDD	ProtocolIE-ID ::= 51
id-DL-CCTrCH-InformationDeleteList-RL-ReconfRqstTDD	ProtocolIE-ID ::= 52
id-DL-CCTrCH-InformationList-RL-SetupRqstTDD	ProtocolIE-ID ::= 53
id-FDD-DL-CodeInformation	ProtocolIE-ID ::= 54
id-DL-DPCH-Information-RL-ReconfPrepFDD	ProtocolIE-ID ::= 59

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id-DL-DPCH-Information-RL-SetupRqstFDD id-DL-DPCH-Information-RL-ReconfRostFDD id-DL-DPCH-InformationItem-PhyChReconfRostTDD id-DL-DPCH-InformationItem-RL-AdditionRspTDD id-DL-DPCH-InformationItem-RL-SetupRspTDD id-DL-DPCH-TimingAdjustment id-DLReferencePower id-DLReferencePowerList-DL-PC-Rast id-DL-ReferencePowerInformation-DL-PC-Rgst id-DPC-Mode id-DRXCycleLengthCoefficient id-DedicatedMeasurementObjectType-DM-Fail-Ind id-DedicatedMeasurementObjectType-DM-Fail id-DedicatedMeasurementObjectType-DM-Rprt id-DedicatedMeasurementObjectType-DM-Rgst id-DedicatedMeasurementObjectType-DM-Rsp id-DedicatedMeasurementType id-FACH-InfoForUESelectedS-CCPCH-CTCH-ResourceRspFDD id-FACH-InfoForUESelectedS-CCPCH-CTCH-ResourceRspTDD id-Guaranteed-Rate-Information id-TMST id-HCS-Prio id-L3-Information id-AdjustmentPeriod id-MaxAdjustmentStep id-MeasurementFilterCoefficient id-MessageStructure id-MeasurementID id-Neighbouring-GSM-CellInformation id-Neighbouring-UMTS-CellInformationItem id-NRT-Load-Information-Value id-NRT-Load-Information-Value-IncrDecrThres id-PagingArea-PagingRost id-FACH-FlowControlInformation id-PartialReportingIndicator id-Permanent-NAS-UE-Identity id-PowerAdjustmentTvpe id-RANAP-RelocationInformation id-RL-Information-PhyChReconfRgstFDD id-RL-Information-PhyChReconfRgstTDD id-RL-Information-RL-AdditionRgstFDD id-RL-Information-RL-AdditionRgstTDD id-RL-Information-RL-DeletionRgst id-RL-Information-RL-FailureInd id-RL-Information-RL-ReconfPrepFDD id-RL-Information-RL-RestoreInd id-RL-Information-RL-SetupRgstFDD id-RL-Information-RL-SetupRgstTDD id-RL-InformationItem-RL-CongestInd id-RL-InformationItem-DM-Rprt id-RL-InformationItem-DM-Rgst id-RL-InformationItem-DM-Rsp id-RL-InformationItem-RL-PreemptRequiredInd id-RL-InformationItem-RL-SetupRqstFDD

ProtocolIE-ID ::= 60 ProtocolIE-ID ::= 61 ProtocolIE-ID ::= 62 ProtocolIE-ID ::= 63 ProtocolIE-ID ::= 64 ProtocolIE-ID ::= 278 ProtocolIE-ID ::= 67 ProtocolIE-ID ::= 68 ProtocolTE-TD := 69ProtocolIE-ID ::= 12 ProtocolIE-ID ::= 70 ProtocolIE-ID ::= 470 ProtocolIE-ID ::= 471 ProtocolIE-ID ::= 71 ProtocolIE-ID ::= 72 ProtocolIE-ID ::= 73 ProtocolIE-ID ::= 74 ProtocolIE-ID ::= 82 ProtocolIE-ID ::= 83 ProtocolIE-ID ::= 41 ProtocolTE-TD ::= 84 ProtocolIE-ID ::= 311 ProtocolIE-ID ::= 85 ProtocolIE-ID ::= 90 ProtocolIE-ID ::= 91 ProtocolIE-ID ::= 92 ProtocolIE-ID ::= 57 ProtocolIE-ID ::= 93 ProtocolIE-ID ::= 13 ProtocolIE-ID ::= 95 ProtocolIE-ID ::= 305 ProtocolIE-ID ::= 306 ProtocolIE-ID ::= 102 ProtocolIE-ID ::= 103 ProtocolIE-ID ::= 472 ProtocolIE-ID ::= 17 ProtocolIE-ID ::= 107 ProtocolIE-ID ::= 109 ProtocolIE-ID ::= 110 ProtocolIE-ID ::= 111 ProtocolIE-ID ::= 112 ProtocolIE-ID ::= 113 ProtocolIE-ID ::= 114 ProtocolIE-ID ::= 115 ProtocolIE-ID ::= 116 ProtocolIE-ID ::= 117 ProtocolIE-ID ::= 118 ProtocolIE-ID ::= 119 ProtocolIE-ID ::= 55 ProtocolIE-ID ::= 120 ProtocolIE-ID ::= 121 ProtocolIE-ID ::= 122 ProtocolIE-ID ::= 2 ProtocolIE-ID ::= 123

id-RL-InformationList-RL-CongestInd

id-RL-InformationList-RL-DeletionRgst

id-RL-InformationList-RL-AdditionRgstFDD

id-RL-InformationList-RL-PreemptRequiredInd id-RL-InformationList-RL-ReconfPrepFDD id-RL-InformationResponse-RL-AdditionRspTDD id-RL-InformationResponse-RL-ReconfReadvTDD id-RL-InformationResponse-RL-SetupRspTDD id-RL-InformationResponseItem-RL-AdditionRspFDD id-RL-InformationResponseItem-RL-ReconfReadvFDD id-RL-InformationResponseItem-RL-ReconfRspFDD id-RL-InformationResponseItem-RL-SetupRspFDD id-RL-InformationResponseList-RL-AdditionRspFDD id-RL-InformationResponseList-RL-ReconfReadvFDD id-RL-InformationResponseList-RL-ReconfRspFDD id-RL-InformationResponse-RL-ReconfRspTDD id-RL-InformationResponseList-RL-SetupRspFDD id-RL-ReconfigurationFailure-RL-ReconfFail id-RL-Set-InformationItem-DM-Rprt id-RL-Set-InformationItem-DM-Rgst id-RL-Set-InformationItem-DM-Rsp id-RL-Set-Information-RL-FailureInd id-RL-Set-Information-RL-RestoreInd id-RL-Set-Successful-InformationItem-DM-Fail id-RL-Set-Unsuccessful-InformationItem-DM-Fail id-RL-Set-Unsuccessful-InformationItem-DM-Fail-Ind id-RL-Successful-InformationItem-DM-Fail id-RL-Unsuccessful-InformationItem-DM-Fail id-RL-Unsuccessful-InformationItem-DM-Fail-Ind id-ReportCharacteristics id-Reporting-Object-RL-FailureInd id-Reporting-Object-RL-RestoreInd id-RT-Load-Value id-RT-Load-Value-IncrDecrThres id-S-RNTT id-ResetIndicator id-RNC-ID id-SAI id-SRNC-ID id-SuccessfulRL-InformationResponse-RL-AdditionFailureFDD id-SuccessfulRL-InformationResponse-RL-SetupFailureFDD id-TransportBearerID id-TransportBearerRequestIndicator id-TransportLaverAddress id-TvpeOfError id-UC-TD id-UL-CCTrCH-AddInformation-RL-ReconfPrepTDD id-UL-CCTrCH-InformationAddList-RL-ReconfPrepTDD id-UL-CCTrCH-InformationItem-RL-SetupRqstTDD id-UL-CCTrCH-InformationList-RL-SetupRgstTDD id-UL-CCTrCH-InformationListIE-PhyChReconfRgstTDD id-UL-CCTrCH-InformationListIE-RL-AdditionRspTDD id-UL-CCTrCH-InformationListIE-RL-ReconfReadyTDD

id-UL-CCTrCH-InformationListIE-RL-SetupRspTDD

ProtocolIE-ID ::= 56 ProtocolIE-ID ::= 124 ProtocolIE-ID ::= 125 ProtocolIE-ID ::= 1 ProtocolIE-ID ::= 126 ProtocolIE-ID ::= 127 ProtocolIE-ID ::= 128 ProtocolIE-ID ::= 129 ProtocolIE-ID ::= 130 ProtocolIE-ID ::= 131 ProtocolIE-ID ::= 132 ProtocolIE-ID ::= 133 ProtocolIE-ID ::= 134 ProtocolIE-ID ::= 135 ProtocolIE-ID ::= 136 ProtocolIE-ID ::= 28 ProtocolIE-ID ::= 137 ProtocolIE-ID ::= 141 ProtocolIE-ID ::= 143 ProtocolIE-ID ::= 144 ProtocolIE-ID ::= 145 ProtocolIE-ID ::= 146 ProtocolIE-ID ::= 147 ProtocolIE-ID ::= 473 ProtocolIE-ID ::= 474 ProtocolIE-ID ::= 475 ProtocolIE-ID ::= 476 ProtocolIE-ID ::= 477 ProtocolIE-ID ::= 478 ProtocolIE-ID ::= 152 ProtocolIE-ID ::= 153 ProtocolIE-ID ::= 154 ProtocolIE-ID ::= 307 ProtocolIE-ID ::= 308 ProtocolIE-ID ::= 155 ProtocolIE-ID ::= 244 ProtocolIE-ID ::= 245 ProtocolIE-ID ::= 156 ProtocolIE-ID ::= 157 ProtocolIE-ID ::= 159 ProtocolIE-ID ::= 160 ProtocolIE-ID ::= 163 ProtocolIE-ID ::= 164 ProtocolIE-ID ::= 165 ProtocolIE-ID ::= 140 ProtocolIE-ID ::= 166 ProtocolIE-ID ::= 167 ProtocolIE-ID ::= 169 ProtocolIE-ID ::= 171 ProtocolIE-ID ::= 172 ProtocolIE-ID ::= 173 ProtocolIE-ID ::= 174 ProtocolIE-ID ::= 175 ProtocolIE-ID ::= 176

id-UL-DPCH-Information-RL-ReconfPrepFDD id-UL-DPCH-Information-RL-ReconfRostFDD id-UL-DPCH-Information-RL-SetupRostFDD id-UL-DPCH-InformationItem-PhyChReconfRgstTDD id-UL-DPCH-InformationItem-RL-AdditionRspTDD id-UL-DPCH-InformationItem-RL-SetupRspTDD id-UL-DPCH-InformationAddListIE-RL-ReconfReadvTDD id-UL-SIRTarget id-URA-Information id-UnsuccessfulRL-InformationResponse-RL-AdditionFailureFDD id-UnsuccessfulRL-InformationResponse-RL-SetupFailureFDD id-UnsuccessfulRL-InformationResponse-RL-SetupFailureTDD id-Active-Pattern-Sequence-Information id-AdjustmentRatio id-CauseLevel-RL-AdditionFailureFDD id-CauseLevel-RL-AdditionFailureTDD id-CauseLevel-RL-ReconfFailure id-CauseLevel-RL-SetupFailureFDD id-CauseLevel-RL-SetupFailureTDD id-DL-CCTrCH-InformationDeleteItem-RL-ReconfPrepTDD id-DL-CCTrCH-InformationModifyItem-RL-ReconfPrepTDD id-DL-CCTrCH-InformationModifyItem-RL-ReconfRqstTDD id-DL-CCTrCH-InformationDeleteList-RL-ReconfPrepTDD id-DL-CCTrCH-InformationModifvList-RL-ReconfPrepTDD id-DL-CCTrCH-InformationModifyList-RL-ReconfRqstTDD id-DL-DPCH-InformationAddListIE-RL-ReconfReadyTDD id-DL-DPCH-InformationDeleteListIE-RL-ReconfReadyTDD id-DL-DPCH-InformationModifyListIE-RL-ReconfReadyTDD id-DSCHs-to-Add-TDD id-Unused-ProtocolIE-ID-216 id-DSCH-DeleteList-RL-ReconfPrepTDD id-Unused-ProtocolIE-ID-218 id-Unused-ProtocolIE-ID-219 id-DSCH-InformationListIE-RL-AdditionRspTDD id-DSCH-InformationListIEs-RL-SetupRspTDD id-DSCH-TDD-Information id-Unused-ProtocolIE-ID-223 id-Unused-ProtocolIE-ID-226 id-DSCH-ModifyList-RL-ReconfPrepTDD id-Unused-ProtocolIE-ID-228 id-Unused-ProtocolIE-ID-324 id-Unused-ProtocolIE-ID-229 id-DSCHToBeAddedOrModifiedList-RL-ReconfReadyTDD id-Unused-ProtocolIE-ID-29 id-Unused-ProtocolIE-ID-225 id-GA-Cell id-GA-CellAdditionalShapes id-Unused-ProtocolIE-ID-246 id-Transmission-Gap-Pattern-Sequence-Information id-UL-CCTrCH-DeleteInformation-RL-ReconfPrepTDD id-UL-CCTrCH-ModifyInformation-RL-ReconfPrepTDD id-UL-CCTrCH-InformationModifyItem-RL-ReconfRgstTDD id-UL-CCTrCH-InformationDeleteList-RL-ReconfPrepTDD id-UL-CCTrCH-InformationModifyList-RL-ReconfPrepTDD

ProtocolIE-ID ::= 177 ProtocolIE-ID ::= 178 ProtocolIE-ID ::= 179 ProtocolIE-ID ::= 180 ProtocolIE-ID ::= 181 ProtocolIE-ID ::= 182 ProtocolIE-ID ::= 183 ProtocolIE-ID ::= 184 ProtocolIE-ID ::= 185 ProtocolIE-ID ::= 188 ProtocolIE-ID ::= 189 ProtocolIE-ID ::= 190 ProtocolIE-ID ::= 193 ProtocolIE-ID ::= 194 ProtocolIE-ID ::= 197 ProtocolIE-ID ::= 198 ProtocolIE-ID ::= 199 ProtocolIE-ID ::= 200 ProtocolIE-ID ::= 201 ProtocolIE-ID ::= 205 ProtocolIE-ID ::= 206 ProtocolIE-ID ::= 207 ProtocolIE-ID ::= 208 ProtocolIE-ID ::= 209 ProtocolIE-ID ::= 210 ProtocolIE-ID ::= 212 ProtocolIE-ID ::= 213 ProtocolIE-ID ::= 214 ProtocolIE-ID ::= 215 ProtocolIE-ID ::= 216 ProtocolIE-ID ::= 217 ProtocolIE-ID ::= 218 ProtocolIE-ID ::= 219 ProtocolIE-ID ::= 220 ProtocolIE-ID ::= 221 ProtocolIE-ID ::= 222 ProtocolIE-ID ::= 223 ProtocolIE-ID ::= 226 ProtocolIE-ID ::= 227 ProtocolIE-ID ::= 228 ProtocolIE-ID ::= 324 ProtocolIE-ID ::= 229 ProtocolIE-ID ::= 230 ProtocolIE-ID ::= 29 ProtocolIE-ID ::= 225 ProtocolIE-ID ::= 232 ProtocolIE-ID ::= 3 ProtocolIE-ID ::= 246 ProtocolIE-ID ::= 255 ProtocolIE-ID ::= 256 ProtocolIE-ID ::= 257 ProtocolIE-ID ::= 258 ProtocolIE-ID ::= 259 ProtocolIE-ID ::= 260

id-UL-CCTrCH-InformationModifyList-RL-ReconfRqstTDD id-UL-CCTrCH-InformationDeleteItem-RL-ReconfRostTDD id-UL-CCTrCH-InformationDeleteList-RL-ReconfRostTDD id-UL-DPCH-InformationDeleteListIE-RL-ReconfReadyTDD id-UL-DPCH-InformationModifyListIE-RL-ReconfReadyTDD id-UnsuccessfulRL-InformationResponse-RL-AdditionFailureTDD id-USCHs-to-Add id-USCH-DeleteList-RL-ReconfPrepTDD id-USCH-InformationListIE-RL-AdditionRspTDD id-USCH-InformationListIEs-RL-SetupRspTDD id-USCH-Information id-USCH-ModifyList-RL-ReconfPrepTDD id-USCHToBeAddedOrModifiedList-RL-ReconfReadvTDD id-DL-Physical-Channel-Information-RL-SetupRgstTDD id-UL-Physical-Channel-Information-RL-SetupRgstTDD id-ClosedLoopMode1-SupportIndicator id-Unused-ProtocolIE-ID-277 id-STTD-SupportIndicator id-CFNReportingIndicator id-CNOriginatedPage-PagingRgst id-InnerLoopDLPCStatus id-PropagationDelay id-RxTimingDeviationForTA id-timeSlot-ISCP id-CCTrCH-InformationItem-RL-FailureInd id-CCTrCH-InformationItem-RL-RestoreInd id-CommonMeasurementAccuracy id-CommonMeasurementObjectType-CM-Rprt id-CommonMeasurementObjectType-CM-Rqst id-CommonMeasurementObjectType-CM-Rsp id-CommonMeasurementType id-CongestionCause id-SFN id-SFNReportingIndicator id-InformationExchangeID id-InformationExchangeObjectType-InfEx-Rprt id-InformationExchangeObjectType-InfEx-Rgst id-InformationExchangeObjectType-InfEx-Rsp id-InformationReportCharacteristics id-InformationType id-neighbouring-LCR-TDD-CellInformation id-DL-Timeslot-ISCP-LCR-Information-RL-SetupRqstTDD id-RL-LCR-InformationResponse-RL-SetupRspTDD id-UL-CCTrCH-LCR-InformationListIE-RL-SetupRspTDD id-UL-DPCH-LCR-InformationItem-RL-SetupRspTDD id-DL-CCTrCH-LCR-InformationListIE-RL-SetupRspTDD id-DL-DPCH-LCR-InformationItem-RL-SetupRspTDD id-DSCH-LCR-InformationListIEs-RL-SetupRspTDD id-USCH-LCR-InformationListIEs-RL-SetupRspTDD id-DL-Timeslot-ISCP-LCR-Information-RL-AdditionRgstTDD id-RL-LCR-InformationResponse-RL-AdditionRspTDD id-UL-CCTrCH-LCR-InformationListIE-RL-AdditionRspTDD id-UL-DPCH-LCR-InformationItem-RL-AdditionRspTDD id-DL-CCTrCH-LCR-InformationListIE-RL-AdditionRspTDD

ProtocolIE-ID ::= 261 ProtocolIE-ID ::= 262 ProtocolIE-ID ::= 263 ProtocolIE-ID ::= 264 ProtocolIE-ID ::= 265 ProtocolIE-ID ::= 266 ProtocolIE-ID ::= 267 ProtocolIE-ID ::= 268 ProtocolIE-ID ::= 269 ProtocolIE-ID ::= 270 ProtocolIE-ID ::= 271 ProtocolIE-ID ::= 272 ProtocolIE-ID ::= 273 ProtocolIE-ID ::= 274 ProtocolIE-ID ::= 275 ProtocolIE-ID ::= 276 ProtocolIE-ID ::= 277 ProtocolIE-ID ::= 279 ProtocolIE-ID ::= 14 ProtocolIE-ID ::= 23 ProtocolIE-ID ::= 24 ProtocolIE-ID ::= 25 ProtocolIE-ID ::= 36 ProtocolIE-ID ::= 37 ProtocolIE-ID ::= 15 ProtocolIE-ID ::= 16 ProtocolIE-ID ::= 280 ProtocolIE-ID ::= 281 ProtocolIE-ID ::= 282 ProtocolIE-ID ::= 283 ProtocolIE-ID ::= 284 ProtocolIE-ID ::= 18 ProtocolIE-ID ::= 285 ProtocolIE-ID ::= 286 ProtocolIE-ID ::= 287 ProtocolIE-ID ::= 288 ProtocolIE-ID ::= 289 ProtocolIE-ID ::= 290 ProtocolIE-ID ::= 291 ProtocolIE-ID ::= 292 ProtocolIE-ID ::= 58 ProtocolIE-ID ::= 65 ProtocolIE-ID ::= 66 ProtocolIE-ID ::= 75 ProtocolIE-ID ::= 76 ProtocolIE-ID ::= 77 ProtocolIE-ID ::= 78 ProtocolIE-ID ::= 79 ProtocolIE-ID ::= 80 ProtocolIE-ID ::= 81 ProtocolIE-ID ::= 86 ProtocolIE-ID ::= 87 ProtocolIE-ID ::= 88 ProtocolIE-ID ::= 89

id-DL-DPCH-LCR-InformationItem-RL-AdditionRspTDD id-DSCH-LCR-InformationListIEs-RL-AdditionRspTDD id-USCH-LCR-InformationListIEs-RL-AdditionRspTDD id-UL-DPCH-LCR-InformationAddListIE-RL-ReconfReadyTDD id-UL-Timeslot-LCR-InformationModifyList-RL-ReconfReadyTDD id-DL-DPCH-LCR-InformationAddListIE-RL-ReconfReadyTDD id-DL-Timeslot-LCR-InformationModifvList-RL-ReconfReadvTDD id-UL-Timeslot-LCR-InformationList-PhvChReconfRgstTDD id-DL-Timeslot-LCR-InformationList-PhyChReconfRqstTDD id-timeSlot-ISCP-LCR-List-DL-PC-Rqst-TDD id-TSTD-Support-Indicator-RL-SetupRqstTDD id-RestrictionStateIndicator id-Load-Value id-Load-Value-IncrDecrThres id-OnModification id-Received-Total-Wideband-Power-Value id-Received-Total-Wideband-Power-Value-IncrDecrThres id-SFNSFNMeasurementThresholdInformation id-Transmitted-Carrier-Power-Value id-Transmitted-Carrier-Power-Value-IncrDecrThres id-TUTRANGPSMeasurementThresholdInformation id-UL-Timeslot-ISCP-Value id-UL-Timeslot-ISCP-Value-IncrDecrThres id-Rx-Timing-Deviation-Value-LCR id-DPC-Mode-Change-SupportIndicator id-Unused-ProtocolIE-ID-247 id-Unused-ProtocolIE-ID-295 id-PrimaryCCPCH-RSCP-RL-ReconfPrepTDD id-DL-TimeSlot-ISCP-Info-RL-ReconfPrepTDD id-DL-Timeslot-ISCP-LCR-Information-RL-ReconfPrepTDD id-DSCH-RNTI id-DL-PowerBalancing-Information id-DL-PowerBalancing-ActivationIndicator id-DL-PowerBalancing-UpdatedIndicator id-DL-ReferencePowerInformation id-Enhanced-PrimarvCPICH-EcNo id-IPDL-TDD-ParametersLCR id-CellCapabilityContainer-FDD id-CellCapabilityContainer-TDD id-CellCapabilityContainer-TDD-LCR id-RL-Specific-DCH-Info id-RL-ReconfigurationReguestFDD-RL-InformationList id-RL-ReconfigurationReguestFDD-RL-Information-IEs id-RL-ReconfigurationReguestTDD-RL-Information id-CommonTransportChannelResourcesInitialisationNotRequired id-DelavedActivation id-DelavedActivationList-RL-ActivationCmdFDD id-DelayedActivationInformation-RL-ActivationCmdFDD id-DelayedActivationList-RL-ActivationCmdTDD id-DelayedActivationInformation-RL-ActivationCmdTDD id-neighbouringTDDCellMeasurementInformationLCR id-UL-SIR-Target-CCTrCH-InformationItem-RL-SetupRspTDD id-UL-SIR-Target-CCTrCH-LCR-InformationItem-RL-SetupRspTDD id-PrimCCPCH-RSCP-DL-PC-RqstTDD

ProtocolIE-ID ::= 94 ProtocolIE-ID ::= 96 ProtocolIE-ID ::= 97 ProtocolIE-ID ::= 98 ProtocolIE-ID ::= 100 ProtocolIE-ID ::= 101 ProtocolIE-ID ::= 104 ProtocolIE-ID ::= 105 ProtocolIE-ID ::= 106 ProtocolIE-ID ::= 138 ProtocolIE-ID ::= 139 ProtocolIE-ID ::= 142 ProtocolIE-ID ::= 233 ProtocolIE-ID ::= 234 ProtocolIE-ID ::= 235 ProtocolIE-ID ::= 236 ProtocolIE-ID ::= 237 ProtocolIE-ID ::= 238 ProtocolIE-ID ::= 239 ProtocolIE-ID ::= 240 ProtocolIE-ID ::= 241 ProtocolIE-ID ::= 242 ProtocolIE-ID ::= 243 ProtocolIE-ID ::= 293 ProtocolIE-ID ::= 19 ProtocolIE-ID ::= 247 ProtocolIE-ID ::= 295 ProtocolIE-ID ::= 202 ProtocolIE-ID ::= 203 ProtocolIE-ID ::= 204 ProtocolIE-ID ::= 249 ProtocolIE-ID ::= 296 ProtocolIE-ID ::= 297 ProtocolIE-ID ::= 298 ProtocolIE-ID ::= 299 ProtocolIE-ID ::= 224 ProtocolIE-ID ::= 252 ProtocolIE-ID ::= 300 ProtocolIE-ID ::= 301 ProtocolIE-ID ::= 302 ProtocolIE-ID ::= 317 ProtocolIE-ID ::= 318 ProtocolIE-ID ::= 319 ProtocolIE-ID ::= 321 ProtocolIE-ID ::= 250 ProtocolIE-ID ::= 312 ProtocolIE-ID ::= 313 ProtocolIE-ID ::= 314 ProtocolIE-ID ::= 315 ProtocolIE-ID ::= 316 ProtocolIE-ID ::= 251 ProtocolIE-ID ::= 150 ProtocolIE-ID ::= 151 ProtocolIE-ID ::= 451

id-HSDSCH-FDD-Information	ProtocolIE-ID ::= 452
id-HSDSCH-FDD-Information-Response	ProtocolIE-ID ::= 453
id-HSDSCH-FDD-Update-Information	ProtocolIE-ID ::= 466
id-HSDSCH-Information-to-Modify	ProtocolIE-ID ::= 456
${\tt id-HSDSCHMacdFlowSpecificInformationList-RL-PreemptRequiredInd}$	ProtocolIE-ID ::= 516
${\tt id-HSDSCHMacdFlowSpecificInformationItem-RL-PreemptRequiredInd}$	ProtocolIE-ID ::= 517
id-HSDSCH-RNTI	ProtocolIE-ID ::= 457
id-HSDSCH-TDD-Information	ProtocolIE-ID ::= 458
id-HSDSCH-TDD-Information-Response	ProtocolIE-ID ::= 459
id-HSDSCH-TDD-Update-Information	ProtocolIE-ID ::= 467
id-HSPDSCH-RL-ID	ProtocolIE-ID ::= 463
id-HSDSCH-MACdFlows-to-Add	ProtocolIE-ID ::= 531
id-HSDSCH-MACdFlows-to-Delete	ProtocolIE-ID ::= 532
id-Angle-Of-Arrival-Value-LCR	ProtocolIE-ID ::= 148
id-TrafficClass	ProtocolIE-ID ::= 158
id-Unused-ProtocolIE-ID-248	ProtocolIE-ID ::= 248
id-Unused-ProtocolIE-ID-253	ProtocolIE-ID ::= 253
id-PDSCH-RL-ID	ProtocolIE-ID ::= 323
id-TimeSlot-RL-SetupRspTDD	ProtocolIE-ID ::= 325
id-GERAN-Cell-Capability	ProtocolIE-ID ::= 468
id-GERAN-Classmark	ProtocolIE-ID ::= 469
id-DSCH-InitialWindowSize	ProtocolIE-ID ::= 480
id-UL-Synchronisation-Parameters-LCR	ProtocolIE-ID ::= 464
id-SNA-Information	ProtocolIE-ID ::= 479
id-MAChs-ResetIndicator	ProtocolIE-ID ::= 465
id-TDD-DL-DPCH-TimeSlotFormatModifyItem-LCR-RL-ReconfReadyTDD	ProtocolIE-ID ::= 481
id-TDD-UL-DPCH-TimeSlotFormatModifyItem-LCR-RL-ReconfReadyTDD	ProtocolIE-ID ::= 482
id-TDD-TPC-UplinkStepSize-LCR-RL-SetupRqstTDD	ProtocolIE-ID ::= 483
id-UL-CCTrCH-InformationList-RL-AdditionRgstTDD	ProtocolIE-ID ::= 484
id-UL-CCTrCH-InformationItem-RL-AdditionRqstTDD	ProtocolIE-ID ::= 485
id-DL-CCTrCH-InformationList-RL-AdditionRqstTDD	ProtocolIE-ID ::= 486
id-DL-CCTrCH-InformationItem-RL-AdditionRqstTDD	ProtocolIE-ID ::= 487
id-TDD-TPC-UplinkStepSize-InformationAdd-LCR-RL-ReconfPrepTDD	ProtocolIE-ID ::= 488
id-TDD-TPC-UplinkStepSize-InformationModify-LCR-RL-ReconfPrepTDD	ProtocolIE-ID ::= 489
id-TDD-TPC-DownlinkStepSize-InformationAdd-RL-ReconfPrepTDD	ProtocolIE-ID ::= 490
id-TDD-TPC-DownlinkStepSize-InformationModify-RL-ReconfPrepTDD	ProtocolIE-ID ::= 491
id-UL-TimingAdvanceCtrl-LCR	ProtocolIE-ID ::= 491
	ProtocolIE-ID ::= 492 ProtocolIE-ID ::= 493
id-HSPDSCH-Timeslot-InformationList-PhyChReconfRqstTDD	
id-HSPDSCH-Timeslot-InformationListLCR-PhyChReconfRqstTDD	ProtocolIE-ID ::= 494
id-HS-SICH-Reception-Quality	ProtocolIE-ID ::= 495
id-HS-SICH-Reception-Quality-Measurement-Value	ProtocolIE-ID ::= 496
id-HSSICH-Info-DM-Rprt	ProtocolIE-ID ::= 497
id-HSSICH-Info-DM-Rqst	ProtocolIE-ID ::= 498
id-HSSICH-Info-DM	ProtocolIE-ID ::= 499
id-CCTrCH-Maximum-DL-Power-RL-SetupRspTDD	ProtocolIE-ID ::= 500
id-CCTrCH-Minimum-DL-Power-RL-SetupRspTDD	ProtocolIE-ID ::= 501
id-CCTrCH-Maximum-DL-Power-RL-AdditionRspTDD	ProtocolIE-ID ::= 502
id-CCTrCH-Minimum-DL-Power-RL-AdditionRspTDD	ProtocolIE-ID ::= 503
id-CCTrCH-Maximum-DL-Power-RL-ReconfReadyTDD	ProtocolIE-ID ::= 504
id-CCTrCH-Minimum-DL-Power-RL-ReconfReadyTDD	ProtocolIE-ID ::= 505
$\verb"id-Maximum-DL-Power-TimeslotLCR-InformationModifyItem-RL-ReconfReadyTDD"$	ProtocolIE-ID ::= 506
id-Minimum-DL-Power-TimeslotLCR-InformationModifyItem-RL-ReconfReadyTDD	ProtocolIE-ID ::= 507
id-DL-CCTrCH-InformationList-RL-ReconfRspTDD	ProtocolIE-ID ::= 508
id-DL-DPCH-InformationModifyItem-LCR-RL-ReconfRspTDD	ProtocolIE-ID ::= 509

id-Maximum-DL-Power-TimeslotLCR-InformationItem	ProtocolIE-ID ::= 510
id-Minimum-DL-Power-TimeslotLCR-InformationItem	ProtocolIE-ID ::= 511
id-TDD-Support-8PSK	ProtocolIE-ID ::= 512
id-TDD-maxNrDLPhysicalchannels	ProtocolIE-ID ::= 513
id-ExtendedGSMCellIndividualOffset	ProtocolIE-ID ::= 514
id-RL-ParameterUpdateIndicationFDD-RL-InformationList	ProtocolIE-ID ::= 518
id-Primary-CPICH-Usage-For-Channel-Estimation	ProtocolIE-ID ::= 519
id-Secondary-CPICH-Information	ProtocolIE-ID ::= 520
id-Secondary-CPICH-Information-Change	ProtocolIE-ID ::= 521
id-Unused-ProtocolIE-ID-522	ProtocolIE-ID ::= 522
id-Unused-ProtocolIE-ID-523	ProtocolIE-ID ::= 523
id-RL-ParameterUpdateIndicationFDD-RL-Information-Item	ProtocolIE-ID ::= 524
id-Phase-Reference-Update-Indicator	ProtocolIE-ID ::= 525
id-Unidirectional-DCH-Indicator	ProtocolIE-ID ::= 526
id-RL-Information-RL-ReconfPrepTDD	ProtocolIE-ID ::= 527
id-Multiple-RL-InformationResponse-RL-ReconfReadyTDD	ProtocolIE-ID ::= 528
id-RL-ReconfigurationResponseTDD-RL-Information	ProtocolIE-ID ::= 529
id-Satellite-Almanac-Information-ExtItem	ProtocolIE-ID ::= 530
id-HSDSCH-Information-to-Modify-Unsynchronised	ProtocolIE-ID ::= 533
id-TnlQos	ProtocolIE-ID ::= 534
id-RTLoadValue	ProtocolIE-ID ::= 535
id-NRTLoadInformationValue	ProtocolIE-ID ::= 536
id-CellPortionID	ProtocolIE-ID ::= 537
id-UpPTSInterferenceValue	ProtocolIE-ID ::= 538
id-PrimaryCCPCH-RSCP-Delta	ProtocolIE-ID ::= 539
id-UEMeasurement Type	ProtocolIE-ID ::= 540
id-UEMeasurement Times lot InfoHCR	ProtocolIE-ID ::= 541
id-UEMeasurementTimeslotInfoLCR	ProtocolIE-ID ::= 542
id-UEMeasurementReportCharacteristics	ProtocolIE-ID ::= 543
id-UEMeasurementParameterModAllow	ProtocolIE-ID ::= 544
id-UEMeasurementValueInformation	ProtocolIE-ID ::= 545
id-InterfacesToTraceItem	ProtocolIE-ID ::= 546
id-ListOfInterfacesToTrace	ProtocolIE-ID ::= 547
id-TraceDepth	ProtocolIE-ID ::= 548
id-TraceRecordingSessionReference	ProtocolIE-ID ::= 549
id-TraceReference	ProtocolIE-ID ::= 550
id-UEIdentity	ProtocolIE-ID ::= 551
id-NACC-Related-Data	ProtocolIE-ID ::= 552
id-GSM-Cell-InfEx-Rgst	ProtocolIE-ID ::= 553
id-MeasurementRecoveryBehavior	ProtocolIE-ID ::= 554
id-MeasurementRecoveryReportingIndicator	ProtocolIE-ID ::= 555
id-MeasurementRecoverySupportIndicator	ProtocolIE-ID ::= 556
id-DL-DPCH-Power-Information-RL-ReconfPrepFDD	ProtocolIE-ID ::= 557
id-F-DPCH-Information-RL-ReconfPrepFDD	ProtocolIE-ID ::= 558
id-F-DPCH-Information-RL-SetupRqstFDD	ProtocolIE-ID ::= 559
id-MBMS-Bearer-Service-List	ProtocolIE-ID ::= 560
id-MBMS-Bearer-Service-List-InfEx-Rsp	ProtocolIE-ID ::= 561
id-Active-MBMS-Bearer-ServiceFDD	ProtocolIE-ID ::= 562
id-Active-MBMS-Bearer-ServiceTDD	ProtocolIE-ID ::= 563
id-Old-URA-ID	ProtocolIE-ID ::= 564
id-UE-State	ProtocolIE-ID ::= 568
id-URA-ID	ProtocolIE-ID ::= 569
id-HARO-Preamble-Mode	ProtocolIE-ID ::= 571
id-SynchronisationIndicator	ProtocolIE-ID ::= 571
Ta Synemionipacioninateacor	110000011E-1D ::= 572

id-UL-DPDCHIndicatorEDCH id-EDPCH-Information id-RL-Specific-EDCH-Information id-EDCH-RL-Indication id-EDCH-FDD-Information id-EDCH-RLSet-Id id-Serving-EDCHRL-Id id-EDCH-FDD-DL-ControlChannelInformation id-EDCH-FDD-InformationResponse id-EDCH-MACdFlows-To-Add id-EDCH-FDD-Information-To-Modify id-EDCH-MACdFlows-To-Delete id-EDPCH-Information-RLReconfRequest-FDD id-EDCH-MacdFlowSpecificInformationList-RL-PreemptRequiredInd id-EDCH-MacdFlowSpecificInformationItem-RL-PreemptRequiredInd id-EDCH-MacdFlowSpecificInformationList-RL-CongestInd id-EDCH-MacdFlowSpecificInformationItem-RL-CongestInd id-MBMS-Bearer-Service-Full-Address id-Initial-DL-DPCH-TimingAdjustment id-Initial-DL-DPCH-TimingAdjustment-Allowed id-User-Plane-Congestion-Fields-Inclusion id-HARO-Preamble-Mode-Activation-Indicator id-multiple-DedicatedMeasurementValueList-TDD-DM-Rsp id-multiple-DedicatedMeasurementValueList-LCR-TDD-DM-Rsp id-ProvidedInformation id-Active-MBMS-Bearer-ServiceFDD-PFL id-Active-MBMS-Bearer-ServiceTDD-PFL id-FrequencyBandIndicator id-Serving-cell-change-CFN id-HS-DSCH-serving-cell-change-information id-HS-DSCH-serving-cell-change-informationResponse id-E-DCH-Serving-cell-change-informationResponse id-secondary-LCR-CCPCH-Info-TDD id-E-DCH-FDD-Update-Information id-Inter-Frequency-Cell-List id-Inter-Frequency-Cell-Information id-multiple-HSSICHMeasurementValueList-TDD-DM-Rsp id-TDD-Support-PLCCH id-PLCCH-Information-UL-TimeslotLCR-Info id-PLCCH-Information-PhyChReconfRgstTDD id-TDD768-maxNrDLPhysicalchannelsTS id-RL-InformationResponse-RL-AdditionRspTDD768 id-UL-CCTrCH-InformationListIE-RL-AdditionRspTDD768 id-DL-CCTrCH-InformationListIE-RL-AdditionRspTDD768 id-UL-DPCH-InformationItem-RL-AdditionRspTDD768 id-DL-DPCH-InformationItem-RL-AdditionRspTDD768 id-UL-DPCH-InformationAddListIE-RL-ReconfReadvTDD768 id-UL-Timeslot-InformationModifyList-RL-ReconfReadyTDD768 id-DL-DPCH-InformationAddListIE-RL-ReconfReadyTDD768 id-DL-Timeslot-InformationModifyList-RL-ReconfReadyTDD768 id-secondary-CCPCH-Info-RL-ReconfReadyTDD768 id-hSSCCH-TDD-Specific-InfoList-Response768 id-hSPDSCH-TDD-Specific-InfoList-Response768 id-HSPDSCH-Timeslot-InformationList-PhyChReconfRqstTDD768

ProtocolIE-ID ::= 573 ProtocolIE-ID ::= 574 ProtocolIE-ID ::= 575 ProtocolIE-ID ::= 576 ProtocolIE-ID ::= 577 ProtocolIE-ID ::= 578 ProtocolIE-ID ::= 579 ProtocolIE-ID ::= 580 ProtocolIE-ID ::= 581 ProtocolIE-ID ::= 582 ProtocolIE-ID ::= 583 ProtocolIE-ID ::= 584 ProtocolIE-ID ::= 585 ProtocolIE-ID ::= 586 ProtocolIE-ID ::= 587 ProtocolIE-ID ::= 588 ProtocolIE-ID ::= 589 ProtocolIE-ID ::= 590 ProtocolIE-ID ::= 591 ProtocolIE-ID ::= 592 ProtocolIE-ID ::= 593 ProtocolIE-ID ::= 594 ProtocolIE-ID ::= 595 ProtocolIE-ID ::= 596 ProtocolIE-ID ::= 597 ProtocolIE-ID ::= 598 ProtocolIE-ID ::= 599 ProtocolIE-ID ::= 600 ProtocolIE-ID ::= 601 ProtocolIE-ID ::= 602 ProtocolIE-ID ::= 603 ProtocolIE-ID ::= 604 ProtocolIE-ID ::= 605 ProtocolIE-ID ::= 606 ProtocolIE-ID ::= 607 ProtocolIE-ID ::= 608 ProtocolIE-ID ::= 609 ProtocolIE-ID ::= 610 ProtocolIE-ID ::= 611 ProtocolIE-ID ::= 612 ProtocolIE-ID ::= 613 ProtocolIE-ID ::= 614 ProtocolIE-ID ::= 615 ProtocolIE-ID ::= 616 ProtocolIE-ID ::= 617 ProtocolIE-ID ::= 618 ProtocolIE-ID ::= 619 ProtocolIE-ID ::= 620 ProtocolIE-ID ::= 621 ProtocolIE-ID ::= 622 ProtocolIE-ID ::= 623 ProtocolIE-ID ::= 624 ProtocolIE-ID ::= 625 ProtocolIE-ID ::= 626

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id-UL-Timeslot-InformationList-PhyChReconfRgstTDD768 ProtocolIE-ID ::= 627 id-DL-Timeslot-InformationList-PhyChReconfRostTDD768 ProtocolIE-ID ::= 628 id-CellCapabilityContainer-TDD768 ProtocolIE-ID ::= 629 id-multiple-DedicatedMeasurementValueList-TDD768-DM-Rsp ProtocolIE-ID ::= 630 id-neighbouringTDDCellMeasurementInformation768 ProtocolIE-ID ::= 631 id-UEMeasurementTimeslotInfo768 ProtocolIE-ID ::= 632 id-Rx-Timing-Deviation-Value-768 ProtocolIE-ID ::= 633 id-UEMeasurementValueTransmittedPowerList768 ProtocolIE-ID ::= 634 id-UEMeasurementValueTimeslotISCPList768 ProtocolIE-ID ::= 635 id-RL-InformationResponse-RL-SetupRspTDD768 ProtocolIE-ID ::= 636 id-UL-CCTrCH-InformationListIE-RL-SetupRspTDD768 ProtocolIE-ID ::= 637 id-DL-CCTrCH-InformationListIE-RL-SetupRspTDD768 ProtocolIE-ID ::= 638 id-UL-DPCH-InformationItem-RL-SetupRspTDD768 ProtocolIE-ID ::= 639 id-DL-DPCH-InformationItem-RL-SetupRspTDD768 ProtocolIE-ID ::= 640 id-TDD768-minimumSpreadingFactor-UL ProtocolIE-ID ::= 641 id-TDD768-minimumSpreadingFactor-DL ProtocolIE-ID ::= 642 id-TDD768-maxNrDLPhysicalchannels ProtocolIE-ID ::= 643 id-DL-DPCH-InformationDeleteList768-RL-ReconfReadyTDD ProtocolIE-ID ::= 644 id-DPCH-ID768-DM-Rsp ProtocolIE-ID ::= 645 id-DPCH-ID768-DM-Rgst ProtocolIE-ID ::= 646 id-DPCH-ID768-DM-Rprt ProtocolIE-ID ::= 647 id-EDPCH-Information-RLAdditionReg-FDD ProtocolIE-ID ::= 648 id-HSDSCH-Configured-Indicator ProtocolIE-ID ::= 649 id-RxTimingDeviationForTAext ProtocolIE-ID ::= 650 id-RxTimingDeviationForTA768 ProtocolIE-ID ::= 651 id-Rx-Timing-Deviation-Value-ext ProtocolIE-ID ::= 652 id-E-DCH-PowerOffset-for-SchedulingInfo ProtocolIE-ID ::= 653 id-TrCH-SrcStatisticsDescr ProtocolIE-ID ::= 654 ProtocolIE-ID ::= 655 id-E-DCH-Information ProtocolIE-ID ::= 656 id-E-DCH-Serving-RL-ID id-E-DCH-Information-Reconfig ProtocolIE-ID ::= 657 id-E-DCH-Information-Response ProtocolIE-ID ::= 658 id-E-DCH-768-Information ProtocolIE-ID ::= 659 id-E-DCH-768-Information-Reconfig ProtocolIE-ID ::= 660 id-E-DCH-768-Information-Response ProtocolIE-ID ::= 661 id-ExtendedPropagationDelay ProtocolIE-ID ::= 662 id-Extended-Round-Trip-Time-Value ProtocolIE-ID ::= 663 id-AlternativeFormatReportingIndicator ProtocolIE-ID ::= 664 id-DCH-Indicator-For-E-DCH-HSDPA-Operation ProtocolIE-ID ::= 665 id-E-RGCH-E-HICH-ChannelisationCodeValidityIndicator ProtocolIE-ID ::= 666 id-E-DCH-Minimum-Set-E-TFCIValidityIndicator id-Fast-Reconfiguration-Mode id-Fast-Reconfiguration-Permission id-Continuous-Packet-Connectivity-DTX-DRX-Information id-Continuous-Packet-Connectivity-HS-SCCH-Less-Information id-Continuous-Packet-Connectivity-HS-SCCH-Less-Information-Response id-CPC-Information id-MIMO-InformationResponse id-E-DCH-LCR-Information id-E-DCH-LCR-Information-Reconfig id-E-DCH-LCR-Information-Response id-HS-PDSCH-Code-Change-Grant id-HS-PDSCH-Code-Change-Indicator id-Extended-SRNC-ID

ProtocolIE-ID ::= 667 ProtocolIE-ID ::= 668 ProtocolIE-ID ::= 669 ProtocolIE-ID ::= 670 ProtocolIE-ID ::= 671 ProtocolIE-ID ::= 672 ProtocolIE-ID ::= 673 ProtocolIE-ID ::= 675 ProtocolIE-ID ::= 677 ProtocolIE-ID ::= 678 ProtocolIE-ID ::= 679 ProtocolIE-ID ::= 680 ProtocolIE-ID ::= 681 ProtocolIE-ID ::= 682

**ETSI** 

id-Extended-RNC-ID	ProtocolIE-ID ::= 683
id-SixtyfourQAM-DL-SupportIndicator	ProtocolIE-ID ::= 684
id-Enhanced-FACH-Support-Indicator	ProtocolIE-ID ::= 685
id-Enhanced-FACH-Information-ResponseFDD	ProtocolIE-ID ::= 686
id-HSDSCH-MACdPDUSizeFormat	ProtocolIE-ID ::= 690
id-MaximumMACdPDU-SizeExtended	ProtocolIE-ID ::= 691
id-F-DPCH-SlotFormat	ProtocolIE-ID ::= 692
id-F-DPCH-SlotFormatSupportRequest	ProtocolIE-ID ::= 693
id-eDCH-MACdFlow-Retransmission-Timer-LCR	ProtocolIE-ID ::= 694
id-Max-UE-DTX-Cycle	ProtocolIE-ID ::= 695
id-GANSS-Common-Data	ProtocolIE-ID ::= 699
id-GANSS-Information	ProtocolIE-ID ::= 700
id-GANSS-Generic-Data	ProtocolIE-ID ::= 701
id-TUTRANGANSSMeasurementThresholdInformation	ProtocolIE-ID ::= 702
id-TUTRANGANSSMeasurementValueInformation	ProtocolIE-ID ::= 703
id-Ext-Reference-E-TFCI-PO	ProtocolIE-ID ::= 705
id-Ext-Max-Bits-MACe-PDU-non-scheduled	ProtocolIE-ID ::= 706
id-HARQ-MemoryPartitioningInfoExtForMIMO	ProtocolIE-ID ::= 707
id-MIMO-ActivationIndicator	ProtocolIE-ID ::= 708
id-MIMO-Mode-Indicator	ProtocolIE-ID ::= 709
id-MIMO-N-M-Ratio	ProtocolIE-ID ::= 710
id-TransportBearerNotSetupIndicator	ProtocolIE-ID ::= 711
id-TransportBearerNotRequestedIndicator	ProtocolIE-ID ::= 712
id-PowerControlGAP	ProtocolIE-ID ::= 713
id-UARFCNforNt	ProtocolIE-ID ::= 714
id-LCRTDD-uplink-Physical-Channel-Capability	ProtocolIE-ID ::= 715
id-number-Of-Supported-Carriers	ProtocolIE-ID ::= 716
id-HSSICH-SIRTarget	ProtocolIE-ID ::= 717
id-HSSICH-TPC-StepSize	ProtocolIE-ID ::= 718
id-tSN-Length	ProtocolIE-ID ::= 719
id-HS-SICH-ID-Extension	ProtocolIE-ID ::= 720
id-HSSICH-Info-DM-Rgst-Extension	ProtocolIE-ID ::= 721
id-multipleFreq-HSPDSCH-InformationList-ResponseTDDLCR	ProtocolIE-ID ::= 722
id-multicarrier-number	ProtocolIE-ID ::= 723
id-UPPCHPositionLCR	ProtocolIE-ID ::= 724
id-UpPCH-InformationList-LCRTDD	ProtocolIE-ID ::= 725
id-UpPCH-InformationItem-LCRTDD	ProtocolIE-ID ::= 726
id-Multiple-PLMN-List	ProtocolIE-ID ::= 727
id-UE-Capabilities-Info	ProtocolIE-ID ::= 728
id-FrameOffset	ProtocolIE-ID ::= 729
id-ChipOffset	ProtocolIE-ID ::= 730
id-Enhanced-PCH-Capability	ProtocolIE-ID ::= 731
id-SixteenQAM-UL-Operation-Indicator	ProtocolIE-ID ::= 732
id-E-TFCI-Boost-Information	ProtocolIE-ID ::= 733
id-SixtyfourQAM-UsageAllowedIndicator	ProtocolIE-ID ::= 733
id-SixtyfourQAM-DL-UsageIndicator	ProtocolIE-ID ::= 734 ProtocolIE-ID ::= 735
id-Default-Serving-Grant-in-DTX-Cycle2	ProtocolIE-ID ::= 736
id-E-DPDCH-PowerInterpolation	ProtocolIE-ID ::= 737
	ProtocolIE-ID ::= 737
id-Extended-E-DCH-LCRTDD-PhysicalLayerCategory id-E-DCH-MACdPDUSizeFormat	ProtocolIE-ID ::= 738 ProtocolIE-ID ::= 739
id-Continuous-Packet-Connectivity-HS-SCCH-Less-Deactivate-Indicator id-E-DCH-DL-Control-Channel-Change-Information	ProtocolIE-ID ::= 740
5	ProtocolIE-ID ::= 741 ProtocolIE-ID ::= 742
id-E-DCH-DL-Control-Channel-Grant-Information	ProtocollE-ID ::= 742 ProtocollE-ID ::= 743
id-MaximumNumber-Of-Retransmission-For-SchedulingInfo-LCRTDD	PIOLOCOIIE-ID ::= /43

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id-E-DCH-RetransmissionTimer-For-SchedulingInfo-LCRTDD	ProtocolIE-ID ::= 744
id-E-PUCH-PowerControlGAP	ProtocolIE-ID ::= 745
id-HSDSCH-TBSizeTableIndicator	ProtocolIE-ID ::= 746
id-UE-with-enhanced-HS-SCCH-support-indicator	ProtocolIE-ID ::= 747
id-DGANSS-Corrections-Req	ProtocolIE-ID ::= 748
id-E-AGCH-Table-Choice	ProtocolIE-ID ::= 749
id-RANAP-EnhancedRelocationInformationRequest	ProtocolIE-ID ::= 750
id-RANAP-EnhancedRelocationInformationResponse	ProtocolIE-ID ::= 751
id-Common-EDCH-MAC-d-Flow-Specific-InformationFDD	ProtocolIE-ID ::= 752
id-Common-EDCH-Support-Indicator	ProtocolIE-ID ::= 753
id-E-RNTI	ProtocolIE-ID ::= 754
id-Released-CN-Domain	ProtocolIE-ID ::= 755
id-MBMS-Bearer-Service-in-MBMS-Cell-InfEx-Rqst	ProtocolIE-ID ::= 756
id-MBMS-Bearer-Service-in-MBMS-Cell-InfEx-Rsp	ProtocolIE-ID ::= 757
id-MBMS-Bearer-Service-in-MBMS-Cell-InfEx-Rprt	ProtocolIE-ID ::= 758
id-MBMS-Cell-InfEx-Rqst	ProtocolIE-ID ::= 759
id-MBMS-Cell-InfEx-Rsp	ProtocolIE-ID ::= 760
id-MBMS-Cell-InfEx-Rprt	ProtocolIE-ID ::= 761
id-Counting-Information	ProtocolIE-ID ::= 762
id-Transmission-Mode-Information	ProtocolIE-ID ::= 763
id-MBMS-Neighbouring-Cell-Information	ProtocolIE-ID ::= 764
id-MBMS-RLC-Sequence-Number-Information	ProtocolIE-ID ::= 765
id-RLC-Sequence-Number	ProtocolIE-ID ::= 766
id-Neighbouring-E-UTRA-CellInformation	ProtocolIE-ID ::= 767
id-MBSFN-Cluster-Identity	ProtocolIE-ID ::= 769
id-MCCH-Configuration-Info	ProtocolIE-ID ::= 770
id-MCCH-Message-List	ProtocolIE-ID ::= 771
id-MBSFN-Scheduling-Transmission-Time-Interval-Info-List	ProtocolIE-ID ::= 772
id-GANSS-Time-ID	ProtocolIE-ID ::= 773
id-GANSS-AddIonoModelReg	ProtocolIE-ID ::= 774
id-GANSS-EarthOrientParaReq	ProtocolIE-ID ::= 775
id-GANSS-AddNavigationModelsReq	ProtocolIE-ID ::= 776
id-GANSS-AddUTCModelsReg	ProtocolIE-ID ::= 777
id-GANSS-AuxInfoReq	ProtocolIE-ID ::= 778
id-GANSS-SBAS-ID	ProtocolIE-ID ::= 779
id-GANSS-ID	ProtocolIE-ID ::= 780
	FIOCOCOTIE-ID= /00
id CNNSS Additional Tonognharig Model	ProtocolIE ID 701
id-GANSS-Additional-Ionospheric-Model	ProtocolIE-ID ::= 781
id-GANSS-Earth-Orientation-Parameters	ProtocolIE-ID ::= 782
id-GANSS-Earth-Orientation-Parameters id-GANSS-Additional-Time-Models	ProtocolIE-ID ::= 782 ProtocolIE-ID ::= 783
id-GANSS-Earth-Orientation-Parameters id-GANSS-Additional-Time-Models id-GANSS-Additional-Navigation-Models	ProtocolIE-ID ::= 782 ProtocolIE-ID ::= 783 ProtocolIE-ID ::= 784
id-GANSS-Earth-Orientation-Parameters id-GANSS-Additional-Time-Models id-GANSS-Additional-Navigation-Models id-GANSS-Additional-UTC-Models	ProtocolIE-ID ::= 782 ProtocolIE-ID ::= 783 ProtocolIE-ID ::= 784 ProtocolIE-ID ::= 785
id-GANSS-Earth-Orientation-Parameters id-GANSS-Additional-Time-Models id-GANSS-Additional-Navigation-Models id-GANSS-Additional-UTC-Models id-GANSS-Auxiliary-Information	ProtocolIE-ID ::= 782 ProtocolIE-ID ::= 783 ProtocolIE-ID ::= 784 ProtocolIE-ID ::= 785 ProtocolIE-ID ::= 786
id-GANSS-Earth-Orientation-Parameters id-GANSS-Additional-Time-Models id-GANSS-Additional-Navigation-Models id-GANSS-Additional-UTC-Models id-GANSS-Auxiliary-Information id-MinimumReducedE-DPDCH-GainFactor	ProtocolIE-ID ::= 782 ProtocolIE-ID ::= 783 ProtocolIE-ID ::= 784 ProtocolIE-ID ::= 785 ProtocolIE-ID ::= 786 ProtocolIE-ID ::= 787
id-GANSS-Earth-Orientation-Parameters id-GANSS-Additional-Time-Models id-GANSS-Additional-Navigation-Models id-GANSS-Additional-UTC-Models id-GANSS-Auxiliary-Information id-MinimumReducedE-DPDCH-GainFactor id-Enhanced-FACH-Information-ResponseLCR	ProtocolIE-ID ::= 782 ProtocolIE-ID ::= 783 ProtocolIE-ID ::= 784 ProtocolIE-ID ::= 785 ProtocolIE-ID ::= 786 ProtocolIE-ID ::= 787 ProtocolIE-ID ::= 788
<pre>id-GANSS-Earth-Orientation-Parameters id-GANSS-Additional-Time-Models id-GANSS-Additional-Navigation-Models id-GANSS-Additional-UTC-Models id-GANSS-Auxiliary-Information id-MinimumReducedE-DPDCH-GainFactor id-Enhanced-FACH-Information-ResponseLCR id-Common-EDCH-MAC-d-Flow-Specific-InformationLCR</pre>	ProtocolIE-ID ::= 782 ProtocolIE-ID ::= 783 ProtocolIE-ID ::= 784 ProtocolIE-ID ::= 785 ProtocolIE-ID ::= 786 ProtocolIE-ID ::= 787 ProtocolIE-ID ::= 788 ProtocolIE-ID ::= 789
<pre>id-GANSS-Earth-Orientation-Parameters id-GANSS-Additional-Time-Models id-GANSS-Additional-Navigation-Models id-GANSS-Additional-UTC-Models id-GANSS-Aduiliary-Information id-MinimumReducedE-DPDCH-GainFactor id-Enhanced-FACH-Information-ResponseLCR id-Common-EDCH-MAC-d-Flow-Specific-InformationLCR id-HSDSCH-PreconfigurationSetup</pre>	ProtocolIE-ID ::= 782 ProtocolIE-ID ::= 783 ProtocolIE-ID ::= 784 ProtocolIE-ID ::= 785 ProtocolIE-ID ::= 786 ProtocolIE-ID ::= 787 ProtocolIE-ID ::= 788 ProtocolIE-ID ::= 789 ProtocolIE-ID ::= 790
<pre>id-GANSS-Earth-Orientation-Parameters id-GANSS-Additional-Time-Models id-GANSS-Additional-Navigation-Models id-GANSS-Additional-UTC-Models id-GANSS-Auxiliary-Information id-MinimumReducedE-DPDCH-GainFactor id-Enhanced-FACH-Information-ResponseLCR id-Common-EDCH-MAC-d-Flow-Specific-InformationLCR id-HSDSCH-PreconfigurationSetup id-HSDSCH-PreconfigurationInfo</pre>	ProtocolIE-ID ::= 782 ProtocolIE-ID ::= 783 ProtocolIE-ID ::= 784 ProtocolIE-ID ::= 785 ProtocolIE-ID ::= 786 ProtocolIE-ID ::= 787 ProtocolIE-ID ::= 788 ProtocolIE-ID ::= 789 ProtocolIE-ID ::= 790 ProtocolIE-ID ::= 791
<pre>id-GANSS-Earth-Orientation-Parameters id-GANSS-Additional-Time-Models id-GANSS-Additional-Navigation-Models id-GANSS-Additional-UTC-Models id-GANSS-Auxiliary-Information id-MinimumReducedE-DPDCH-GainFactor id-Enhanced-FACH-Information-ResponseLCR id-Common-EDCH-MAC-d-Flow-Specific-InformationLCR id-HSDSCH-PreconfigurationSetup id-HSDSCH-PreconfigurationInfo id-NoOfTargetCellHS-SCCH-Order</pre>	ProtocolIE-ID ::= 782 ProtocolIE-ID ::= 783 ProtocolIE-ID ::= 784 ProtocolIE-ID ::= 785 ProtocolIE-ID ::= 786 ProtocolIE-ID ::= 787 ProtocolIE-ID ::= 788 ProtocolIE-ID ::= 789 ProtocolIE-ID ::= 790 ProtocolIE-ID ::= 791 ProtocolIE-ID ::= 792
<pre>id-GANSS-Earth-Orientation-Parameters id-GANSS-Additional-Time-Models id-GANSS-Additional-Navigation-Models id-GANSS-Additional-UTC-Models id-GANSS-Auxiliary-Information id-GANSS-Auxiliary-Information id-MinimumReducedE-DPDCH-GainFactor id-Enhanced-FACH-Information-ResponseLCR id-Common-EDCH-MAC-d-Flow-Specific-InformationLCR id-HSDSCH-PreconfigurationSetup id-HSDSCH-PreconfigurationInfo id-NoOfTargetCellHS-SCCH-Order id-EnhancedHSServingCC-Abort</pre>	ProtocolIE-ID ::= 782 ProtocolIE-ID ::= 783 ProtocolIE-ID ::= 784 ProtocolIE-ID ::= 785 ProtocolIE-ID ::= 786 ProtocolIE-ID ::= 787 ProtocolIE-ID ::= 788 ProtocolIE-ID ::= 789 ProtocolIE-ID ::= 790 ProtocolIE-ID ::= 791 ProtocolIE-ID ::= 792 ProtocolIE-ID ::= 793
<pre>id-GANSS-Earth-Orientation-Parameters id-GANSS-Additional-Time-Models id-GANSS-Additional-Navigation-Models id-GANSS-Additional-UTC-Models id-GANSS-Auxiliary-Information id-MinimumReducedE-DPDCH-GainFactor id-Enhanced-FACH-Information-ResponseLCR id-Common-EDCH-MAC-d-Flow-Specific-InformationLCR id-HSDSCH-PreconfigurationSetup id-HSDSCH-PreconfigurationInfo id-NoOfTargetCellHS-SCCH-Order id-EnhancedHSServingCC-Abort id-Additional-HS-Cell-Information-RL-Setup</pre>	ProtocolIE-ID ::= 782 ProtocolIE-ID ::= 783 ProtocolIE-ID ::= 784 ProtocolIE-ID ::= 785 ProtocolIE-ID ::= 786 ProtocolIE-ID ::= 787 ProtocolIE-ID ::= 789 ProtocolIE-ID ::= 799 ProtocolIE-ID ::= 791 ProtocolIE-ID ::= 792 ProtocolIE-ID ::= 793 ProtocolIE-ID ::= 794
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<pre>id-GANSS-Earth-Orientation-Parameters id-GANSS-Additional-Time-Models id-GANSS-Additional-Navigation-Models id-GANSS-Additional-UTC-Models id-GANSS-Auxiliary-Information id-MinimumReducedE-DPDCH-GainFactor id-Enhanced-FACH-Information-ResponseLCR id-Common-EDCH-MAC-d-Flow-Specific-InformationLCR id-HSDSCH-PreconfigurationSetup id-HSDSCH-PreconfigurationInfo id-NoOfTargetCellHS-SCCH-Order id-EnhancedHSServingCC-Abort id-Additional-HS-Cell-Information-RL-Setup id-Additional-HS-Cell-Information-RL-Setup id-Additional-HS-Cell-Information-RL-Addition</pre>	ProtocolIE-ID ::= 782         ProtocolIE-ID ::= 783         ProtocolIE-ID ::= 784         ProtocolIE-ID ::= 785         ProtocolIE-ID ::= 786         ProtocolIE-ID ::= 787         ProtocolIE-ID ::= 788         ProtocolIE-ID ::= 789         ProtocolIE-ID ::= 790         ProtocolIE-ID ::= 791         ProtocolIE-ID ::= 792         ProtocolIE-ID ::= 793         ProtocolIE-ID ::= 794         ProtocolIE-ID ::= 795         ProtocolIE-ID ::= 796
<pre>id-GANSS-Earth-Orientation-Parameters id-GANSS-Additional-Time-Models id-GANSS-Additional-Navigation-Models id-GANSS-Additional-UTC-Models id-GANSS-Auxiliary-Information id-MinimumReducedE-DPDCH-GainFactor id-Enhanced-FACH-Information-ResponseLCR id-Common-EDCH-MAC-d-Flow-Specific-InformationLCR id-HSDSCH-PreconfigurationSetup id-HSDSCH-PreconfigurationInfo id-NoOfTargetCellHS-SCCH-Order id-EnhancedHSServingCC-Abort id-Additional-HS-Cell-Information-RL-Setup id-Additional-HS-Cell-Information-Response</pre>	ProtocolIE-ID ::= 782         ProtocolIE-ID ::= 783         ProtocolIE-ID ::= 784         ProtocolIE-ID ::= 785         ProtocolIE-ID ::= 786         ProtocolIE-ID ::= 787         ProtocolIE-ID ::= 788         ProtocolIE-ID ::= 789         ProtocolIE-ID ::= 790         ProtocolIE-ID ::= 791         ProtocolIE-ID ::= 792         ProtocolIE-ID ::= 793         ProtocolIE-ID ::= 794         ProtocolIE-ID ::= 795

id-Additional-HS-Cell-Information-RL-Reconf-Req id-Additional-HS-Cell-RL-Reconf-Response id-Additional-HS-Cell-Information-RL-Param-Upd id-Secondary-Serving-Cell-List id-MultiCarrier-HSDSCH-Physical-Layer-Category id-IdleIntervalInformation id-NeedforIdleInterval id-IdleIntervalConfigurationIndicator id-ContinuousPacketConnectivity-DRX-InformationLCR id-ContinuousPacketConnectivity-DRX-Information-ResponseLCR id-E-AGCH-UE-Inactivity-Monitor-Threshold id-CPC-InformationLCR id-E-DCH-Semi-PersistentScheduling-Information-LCR id-HS-DSCH-Semi-PersistentScheduling-Information-LCR id-HS-DSCH-Semi-PersistentScheduling-Information-ResponseLCR id-E-DCH-Semi-PersistentScheduling-Information-ResponseLCR id-MIMO-SFMode-For-HSPDSCHDualStream id-MIMO-SFMode-Supported-For-HSPDSCHDualStream id-MIMO-ReferenceSignal-InformationListLCR id-GANSS-alm-keplerianNAVAlmanac id-GANSS-alm-keplerianReducedAlmanac id-GANSS-alm-keplerianMidiAlmanac id-GANSS-alm-keplerianGLONASS id-GANSS-alm-ecefSBASAlmanac id-DL-RLC-PDU-Size-Format id-MACes-Maximum-Bitrate-LCR id-Single-Stream-MIMO-ActivationIndicator id-Single-Stream-MIMO-Mode-Indicator id-Dual-Band-Secondary-Serving-Cell-List id-UE-AggregateMaximumBitRate id-power-offset-for-S-CPICH-for-MIMO id-power-offset-for-S-CPICH-for-MIMO-Request-Indicator id-UE-SupportIndicatorExtension id-ActivationInformation id-CellPortionLCRID id-Additional-EDCH-Cell-Information-RL-Setup-Reg id-Additional-EDCH-Cell-Information-Response id-Additional-EDCH-Cell-Information-RL-Add-Reg id-Additional-EDCH-Cell-Information-Response-RLAdd id-Additional-EDCH-Cell-Information-RL-Reconf-Prep id-Additional-EDCH-Cell-Information-RL-Reconf-Reg id-Additional-EDCH-Cell-Information-RL-Param-Upd id-Additional-EDCH-Preconfiguration-Information id-MulticellEDCH-Information id-Additional-EDCH-Cell-Information-ResponseRLReconf id-EDCH-Indicator id-DiversitvMode id-TransmitDiversityIndicator id-NonCellSpecificTxDiversity id-CellCapabilityContainerExtension-FDD id-HSDSCH-Physical-Layer-Category id-E-RNTI-For-FACH id-H-RNTI-For-FACH id-RNTI-Allocation-Indicator

ProtocolIE-ID ::= 799 ProtocolIE-ID ::= 800 ProtocolIE-ID ::= 801 ProtocolIE-ID ::= 802 ProtocolIE-ID ::= 803 ProtocolIE-ID ::= 804 ProtocolIE-ID ::= 805 ProtocolIE-ID ::= 806 ProtocolIE-ID ::= 807 ProtocolIE-ID ::= 808 ProtocolIE-ID ::= 809 ProtocolIE-ID ::= 810 ProtocolIE-ID ::= 811 ProtocolIE-ID ::= 812 ProtocolIE-ID ::= 813 ProtocolIE-ID ::= 814 ProtocolIE-ID ::= 815 ProtocolIE-ID ::= 816 ProtocolIE-ID ::= 817 ProtocolIE-ID ::= 818 ProtocolIE-ID ::= 819 ProtocolIE-ID ::= 820 ProtocolIE-ID ::= 821 ProtocolIE-ID ::= 822 ProtocolIE-ID ::= 823 ProtocolIE-ID ::= 824 ProtocolIE-ID ::= 825 ProtocolIE-ID ::= 826 ProtocolIE-ID ::= 827 ProtocolIE-ID ::= 828 ProtocolIE-ID ::= 829 ProtocolIE-ID ::= 830 ProtocolIE-ID ::= 831 ProtocolIE-ID ::= 835 ProtocolIE-ID ::= 836 ProtocolIE-ID ::= 837 ProtocolIE-ID ::= 838 ProtocolIE-ID ::= 839 ProtocolIE-ID ::= 840 ProtocolIE-ID ::= 841 ProtocolIE-ID ::= 842 ProtocolIE-ID ::= 843 ProtocolIE-ID ::= 844 ProtocolIE-ID ::= 845 ProtocolIE-ID ::= 854 ProtocolIE-ID ::= 855 ProtocolIE-ID ::= 856 ProtocolIE-ID ::= 857 ProtocolIE-ID ::= 858 ProtocolIE-ID ::= 859 ProtocolIE-ID ::= 860 ProtocolIE-ID ::= 861 ProtocolIE-ID ::= 862 ProtocolIE-ID ::= 863

id-UE-AggregateMaximumBitRate-Enforcement-Indicator	ProtocolIE-ID ::= 864
id-DCH-MeasurementOccasion-Information	ProtocolIE-ID ::= 865
id-DCH-MeasurementType-Indicator	ProtocolIE-ID ::= 866
id-Out-of-Sychronization-Window	ProtocolIE-ID ::= 867
id-MulticellEDCH-RL-SpecificInformation	ProtocolIE-ID ::= 868
id-DGNSS-ValidityPeriod	ProtocolIE-ID ::= 869
id-TS0-HS-PDSCH-Indication-LCR	ProtocolIE-ID ::= 870
id-UE-TS0-CapabilityLCR	ProtocolIE-ID ::= 871
id-Non-Serving-RL-Preconfig-Info	ProtocolIE-ID ::= 872
id-Non-Serving-RL-Preconfig-Setup	ProtocolIE-ID ::= 873
id-Non-Serving-RL-Preconfig-Removal	ProtocolIE-ID ::= 874
id-Additional-E-DCH-Non-Serving-RL-Preconfiguration-Setup	ProtocolIE-ID ::= 875
id-Additional-E-DCH-New-non-serving-RL-E-DCH-FDD-DL-Control-Channel-InfoLis	t ProtocolIE-ID ::= 876
id-CellListValidityIndicator	ProtocolIE-ID ::= 877
id-HS-SCCH-Inactivity-Threshold-for-UE-DRX-Cycle-LCR-Ext	ProtocolIE-ID ::= 890
id-Measurement-Power-Offset	ProtocolIE-ID ::= 893
id-Support-of-Dynamic-DTXDRX-Related-HS-SCCH-Order	ProtocolIE-ID ::= 909
id-CPC-RecoveryReport	ProtocolIE-ID ::= 910

END

# 9.3.7 Container Definitions

- --- Container definitions - -RNSAP-Containers { itu-t (0) identified-organization (4) etsi (0) mobileDomain (0) umts-Access (20) modules (3) rnsap (1) version1 (1) rnsap-Containers (5) } DEFINITIONS AUTOMATIC TAGS ::= BEGIN \_ \_ - --- IE parameter types from other modules. - -IMPORTS maxPrivateIEs, maxProtocolExtensions, maxProtocolIEs, Criticality, Presence, PrivateIE-ID, ProtocolIE-ID FROM RNSAP-CommonDataTypes;

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- --- Class Definition for Protocol IEs - -RNSAP-PROTOCOL-IES ::= CLASS { &id ProtocolIE-ID UNIQUE, &criticality Criticality, &Value, &presence Presence } WITH SYNTAX { ID &id CRITICALITY &criticality TYPE &Value &presence PRESENCE - -- --- Class Definition for Protocol IEs - -RNSAP-PROTOCOL-IES-PAIR ::= CLASS { &id ProtocolIE-ID UNIQUE, &firstCriticality Criticality, &FirstValue, &secondCriticality Criticality, &SecondValue, &presence Presence WITH SYNTAX { ID &id FIRST CRITICALITY &firstCriticality FIRST TYPE &FirstValue &secondCriticality SECOND CRITICALITY &SecondValue SECOND TYPE PRESENCE &presence } - -- --- Class Definition for Protocol Extensions - -RNSAP-PROTOCOL-EXTENSION ::= CLASS { &id ProtocolIE-ID UNIQUE, &criticality Criticality, &Extension, &presence Presence }

WITH SYNTAX { ID &id CRITICALITY &criticality EXTENSION &Extension PRESENCE &presence } \*\*\*\*\*\* Class Definition for Private IEs - -- -\*\*\*\*\*\*\*\*\*\* RNSAP-PRIVATE-IES ::= CLASS { &id PrivateIE-ID, &criticality Criticality, &Value, &presence Presence WITH SYNTAX { ТD &id CRITICALITY &criticality TYPE &Value PRESENCE &presence - --- Container for Protocol IEs - -ProtocollE-Container {RNSAP-PROTOCOL-IES : IesSetParam} ::= SEQUENCE (SIZE (0..maxProtocolles)) OF ProtocolIE-Field {{IesSetParam}} ProtocolIE-Single-Container {RNSAP-PROTOCOL-IES : IesSetParam} ::= ProtocolIE-Field {{IesSetParam}} ProtocolIE-Field {RNSAP-PROTOCOL-IES : IesSetParam} ::= SEQUENCE { RNSAP-PROTOCOL-IES.&id ({IesSetParam}), id criticality ({IesSetParam}{@id}), RNSAP-PROTOCOL-IES.&criticality value RNSAP-PROTOCOL-IES.&Value ({IesSetParam}{@id}) } - --- Container for Protocol IE Pairs \*\*\*\*\*\* ProtocolIE-ContainerPair {RNSAP-PROTOCOL-IES-PAIR : IesSetParam} ::= SEQUENCE (SIZE (0..maxProtocolles)) OF ProtocolIE-FieldPair {{IesSetParam}}

```
ProtocolIE-FieldPair {RNSAP-PROTOCOL-IES-PAIR : IesSetParam} ::= SEQUENCE {
   id
        RNSAP-PROTOCOL-IES-PAIR.&id
                                          ({IesSetParam}),
                      RNSAP-PROTOCOL-IES-PAIR.&firstCriticality ({IesSetParam}{@id}),
   firstCriticality
   firstValue RNSAP-PROTOCOL-IES-PAIR.&FirstValue
                                                        ({IesSetParam}{@id}),
   secondCriticality RNSAP-PROTOCOL-IES-PAIR.&secondCriticality ({IesSetParam}{@id}),
   secondValue RNSAP-PROTOCOL-IES-PAIR. & SecondValue
                                                           ({IesSetParam}{@id})
    **********
  Container Lists for Protocol IE Containers
_ _
    ProtocolIE-ContainerList {INTEGER : lowerBound, INTEGER : upperBound, RNSAP-PROTOCOL-IES : lesSetParam} ::=
   SEQUENCE (SIZE (lowerBound..upperBound)) OF
   ProtocolIE-Container {{IesSetParam}}
ProtocolIE-ContainerPairList {INTEGER : lowerBound, INTEGER : upperBound, RNSAP-PROTOCOL-IES-PAIR : IesSetParam} ::=
   SEQUENCE (SIZE (lowerBound..upperBound)) OF
   ProtocolIE-ContainerPair {{IesSetParam}}
   Container for Protocol Extensions
- -
     ProtocolExtensionContainer {RNSAP-PROTOCOL-EXTENSION : ExtensionSetParam} ::=
   SEQUENCE (SIZE (1..maxProtocolExtensions)) OF
   ProtocolExtensionField {{ExtensionSetParam}}
ProtocolExtensionField {RNSAP-PROTOCOL-EXTENSION : ExtensionSetParam} ::= SEQUENCE {
         RNSAP-PROTOCOL-EXTENSION.&id
                                                 ({ExtensionSetParam}),
   id
                RNSAP-PROTOCOL-EXTENSION.&criticality
                                                        ({ExtensionSetParam}{@id}),
   criticality
                                                        ({ExtensionSetParam}{@id})
   extensionValue
                 RNSAP-PROTOCOL-EXTENSION.&Extension
    ************
- -
-- Container for Private IEs
- -
         **********
PrivateIE-Container {RNSAP-PRIVATE-IES : IesSetParam} ::=
   SEQUENCE (SIZE (1..maxPrivateIEs)) OF
   PrivateIE-Field {{IesSetParam}}
PrivateIE-Field {RNSAP-PRIVATE-IES : IesSetParam} ::= SEQUENCE {
                                           ({IesSetParam}),
   id
            RNSAP-PRIVATE-IES.&id
   criticality
               RNSAP-PRIVATE-IES.&criticality
                                               ({IesSetParam}{@id}),
   value
                RNSAP-PRIVATE-IES.&Value
                                      ({IesSetParam}{@id})
```

END

# 9.4 Message Transfer Syntax

RNSAP shall use the ASN.1 Basic Packed Encoding Rules (BASIC-PER) Aligned Variant as transfer syntax as specified in ref. ITU-T Rec. X.691 [20].

# 9.5 Timers

T Preempt

- Specifies the maximum time that a DRNS may wait for pre-emption of resources for establishment or reconfiguration of Radio Links.

T<sub>RELOCprep</sub>

- Specifies the maximum time for the Enhanced Relocation procedure in the SRNC.

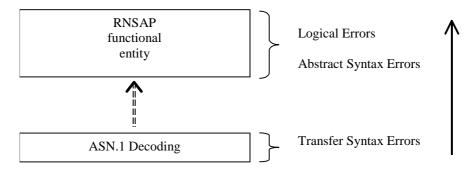
# 10 Handling of Unknown, Unforeseen and Erroneous Protocol Data

# 10.1 General

Protocol Error cases can be divided into three classes:

- 1. Transfer Syntax Error;
- 2. Abstract Syntax Error;
- 3. Logical Error.

Protocol errors can occur in the following functions within a receiving node.



## Figure 34: Protocol Errors in RNSAP

The information stated in subclauses 10.2, 10.3 and 10.4, to be included in the message used when reporting an error, is what at minimum shall be included. Other optional information elements within the message may also be included, if available. This is also valid for the case when the reporting is done with a response message. The latter is an exception to what is stated in subclause 4.1.

# 10.2 Transfer Syntax Error

A Transfer Syntax Error occurs when the receiver is not able to decode the received physical message. Transfer syntax errors are always detected in the process of ASN.1 decoding. If a Transfer Syntax Error occurs, the receiver should initiate Error Indication procedure with appropriate cause value for the Transfer Syntax protocol error.

Examples for Transfer Syntax Errors are:

- Violation of value ranges in ASN.1 definition of messages. E.g.: If an IE has a defined value range of 0 to 10 (ASN.1: INTEGER (0..10)), and 12 will be received, then this will be treated as a transfer syntax error;
- Violation in list element constraints. E.g.: If a list is defined as containing 1 to 10 elements, and 12 elements will be received, than this case will be handled as a transfer syntax error;
- Missing mandatory elements in ASN.1 SEQUENCE definitions (as sent by the originator of the message);
- Wrong order of elements in ASN.1 SEQUENCE definitions (as sent by the originator of the message).

# 10.3 Abstract Syntax Error

## 10.3.1 General

An Abstract Syntax Error occurs when the receiving functional RNSAP entity:

- 1. Receives IEs or IE groups that cannot be understood (unknown IE id);
- 2 Receives IEs for which the logical range is violated (e.g.: ASN.1 definition: 0 to 15, the logical range is 0 to 10 (values 11 to 15 are undefined), and 12 will be received; this case will be handled as an abstract syntax error using criticality information sent by the originator of the message);
- 3 Does not receive IEs or IE groups but according to the specified presence of the concerned object, the IEs or IE groups should have been present in the received message;
- 4 Receives IEs or IE groups that are defined to be part of that message in wrong order or with too many occurrences of the same IE or IE group;
- 5 receives IEs or IE groups but according to the conditional presence of the concerned object and the specified condition, the IEs or IE groups should not have been present in the received message.

Cases 1 and 2 (not comprehended IE/IE group) are handled based on received Criticality information. Case 3 (missing IE/IE group) is handled based on Criticality information and Presence information for the missing IE/IE group specified in the version of the specification used by the receiver. Case 4 (IEs or IE groups in wrong order or with too many occurrences) and Case 5 (erroneously present conditional IEs or IE groups) result in rejecting the procedure.

If an Abstract Syntax Error occurs, the receiver shall read the remaining message and shall then for each detected Abstract Syntax Error that belong to cases 1-3 act according to the Criticality Information and Presence Information for the IE/IE group due to which Abstract Syntax Error occurred in accordance with subclauses 10.3.4 and 10.3.5. The handling of cases 4 and 5 is specified in subclause 10.3.6.

# 10.3.2 Criticality Information

In the RNSAP messages there is criticality information set for individual IEs and/or IE groups. This criticality information instructs the receiver how to act when receiving an IE or an IE group that is not comprehended, i.e. the entire item (IE or IE group) which is not (fully or partially) comprehended shall be treated in accordance with its own criticality information as specified in subclause 10.3.4.

In addition, the criticality information is used in case of the missing IE/IE group abstract syntax error (see subclause 10.3.5).

The receiving node shall take different actions depending on the value of the Criticality Information. The three possible values of the Criticality Information for an IE/IE group are:

- 1. Reject IE;
- 2. Ignore IE and Notify Sender;
- 3. Ignore IE.

The following rules restrict when a receiving entity may consider an IE, an IE group or an EP not comprehended (not implemented), and when action based on criticality information is applicable:

- 1. IE or IE group: When one new or modified IE or IE group is implemented for one EP from a standard version, then other new or modified IEs or IE groups specified for that EP in that standard version shall be considered comprehended by a receiving entity (some may still remain unsupported).
- 2. EP: The comprehension of different Eps within a standard version or between different standard versions is not mandated. Any EP that is not supported may be considered not comprehended, even if another EP from that standard version is comprehended, and action based on criticality shall be applied.

# 10.3.3 Presence Information

For many IEs/IE groups which are optional according to the ASN.1 transfer syntax, RNSAP specifies separately if the presence of these IEs/IE groups is optional or mandatory with respect to RNS application by means of the presence field f the concerned object of class RNSAP-PROTOCOL-IES, RNSAP-PROTOCOL-IES-PAIR, RNSAP-PROTOCOL-EXTENSION or RNSAP-PRIVATE-IES.

The presence field of the indicated classes supports three values:

- 1. Optional;
- 2. Conditional;
- 3. Mandatory.

If an IE/IE group is not included in a received message and the presence of the IE/IE group is mandatory or the presence is conditional and the condition is true according to the version of the specification used by the receiver, an abstract syntax error occurs due to a missing IE/IE group.

If an IE/IE group is included in a received message and the presence of the IE/IE group is conditional and the condition is false according to the version of the specification used by the receiver, an abstract syntax error occurs due to this erroneously present conditional IE/IE group.

# 10.3.4 Not Comprehended IE/IE Group

## 10.3.4.1 Procedure ID

The receiving node shall treat the different types of received criticality information of the *Procedure ID* according to the following:

## **Reject IE:**

- If a message is received with a *Procedure ID* marked with "*Reject IE*" which the receiving node does not comprehend, the receiving node shall reject the procedure using the Error Indication procedure.

## Ignore IE and Notify Sender:

- If a message is received with a *Procedure ID* marked with "*Ignore IE and Notify Sender*" which the receiving node does not comprehend, the receiving node shall ignore the procedure and initiate the Error Indication procedure.

## **Ignore IE:**

- If a message is received with a *Procedure ID* marked with "*Ignore IE*" which the receiving node does not comprehend, the receiving node shall ignore the procedure.

When using the Error Indication procedure to reject a procedure or to report an ignored procedure it shall include the *Procedure ID* IE, the *Triggering Message* IE, and the *Procedure Criticality* IE in the *Criticality Diagnostics* IE.

## 10.3.4.1A Type of Message

When the receiving node cannot decode the *Type of Message* IE, the Error Indication procedure shall be initiated with an appropriate cause value.

## 10.3.4.2 IEs Other Than the Procedure ID and Type of Message

The receiving node shall treat the different types of received criticality information of an IE/IE group other than the *Procedure ID* IE and *Type of Message* IE according to the following:

## **Reject IE:**

- If a message *initiating* a procedure is received containing one or more IEs/IE groups marked with "*Reject IE*" which the receiving node does not comprehend; none of the functional requests of the message shall be executed. The receiving node shall reject the procedure and report the rejection of one or more IEs/IE groups using the message normally used to report unsuccessful outcome of the procedure. In case the information received in the initiating message was insufficient to determine a value for all IEs that are required to be present in the message used to report the unsuccessful outcome of the procedure, the receiving node shall instead terminate the procedure and initiate the Error Indication procedure.
- If a message *initiating* a procedure that does not have a message to report unsuccessful outcome is received containing one or more IEs/IE groups marked with "*Reject IE*" which the receiving node does not comprehend, the receiving node shall terminate the procedure and initiate the Error Indication procedure.
- If a *response* message is received containing one or more IEs/IE groups marked with "*Reject IE*, that the receiving node does not comprehend, the receiving node shall consider the procedure as unsuccessfully terminated and initiate local error handling.

## Ignore IE and Notify Sender:

- If a message *initiating* a procedure is received containing one or more IEs/IE groups marked with "*Ignore IE and Notify Sender*" which the receiving node does not comprehend, the receiving node shall ignore the content of the not comprehended IEs/IE groups, continue with the procedure as if the not comprehended IEs/IE groups were not received (except for the reporting) using the understood IEs/IE groups, and report in the response message of the procedure that one or more IEs/IE groups have been ignored. In case the information received in the initiating message was insufficient to determine a value for all IEs that are required to be present in the response message, the receiving node shall instead terminate the procedure and initiate the Error Indication procedure.
- If a message *initiating* a procedure that does not have a message to report the outcome of the procedure is received containing one or more IEs/IE groups marked with "*Ignore IE and Notify Sender*" which the receiving node does not comprehend, the receiving node shall ignore the content of the not comprehended IEs/IE groups, continue with the procedure as if the not comprehended IEs/IE groups were not received (except for the reporting) using the understood IEs/IE groups, and initiate the Error Indication procedure to report that one or more IEs/IE groups have been ignored.
- If a *response* message is received containing one or more IEs/IE groups marked with "*Ignore IE and Notify Sender*" which the receiving node does not comprehend, the receiving node shall ignore the content of the not comprehended IEs/IE groups, continue with the procedure as if the not comprehended IEs/IE groups were not received (except for the reporting) using the understood IEs/IE groups and initiate the Error Indication procedure.

## Ignore IE:

- If a message *initiating* a procedure is received containing one or more IEs/IE groups marked with "*Ignore IE*" which the receiving node does not comprehend, the receiving node shall ignore the content of the not comprehended IEs/IE groups and continue with the procedure as if the not comprehended IEs/IE groups were not received using the understood IEs/IE groups.
- If a *response* message is received containing one or more IEs/IE groups marked with "*Ignore IE*" which the receiving node does not comprehend, the receiving node shall ignore the content of the not comprehended IEs/IE groups and continue with the procedure as if the not comprehended IEs/IE groups were not received using the understood IEs/IE groups.

When reporting not comprehended IEs/IE groups marked with "*Reject IE*" or "*Ignore IE and Notify Sender*" using a response message defined for the procedure, the *Information Element Criticality Diagnostics* IE shall be included in the *Criticality Diagnostics* IE for each reported IE/IE group. In the *Information Element Criticality Diagnostics* IE the *Repetition Number* IE shall be included and in addition, if the not comprehended IE/IE group is not at message hierarchy level 1 (top level; see annex C) also the *Message Structure* IE shall be included.

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When reporting not comprehended IEs/IE groups marked with "*Reject IE*" or "*Ignore IE and Notify Sender*" using the Error Indication procedure, the *Procedure ID* IE, the *Triggering Message* IE, *Procedure Criticality* IE, the *Transaction ID* IE, and the *Information Element Criticality Diagnostics* IE shall be included in the *Criticality Diagnostics* IE for each reported IE/IE group. In the *Information Element Criticality Diagnostics* IE the *Repetition Number* IE shall be included and in addition, if the not comprehended IE/IE group is not at message hierarchy level 1 (top level; see annex C) also the *Message Structure* IE shall be included.

# 10.3.5 Missing IE or IE Group

The receiving node shall treat the missing IE/IE group according to the criticality information for the missing IE/IE group in the received message specified in the version of this specification used by the receiver:

## **Reject IE:**

- If a received message *initiating* a procedure is missing one or more IEs/IE groups with specified criticality *"Reject IE"*; none of the functional requests of the message shall be executed. The receiving node shall reject the procedure and report the missing IEs/IE groups using the message normally used to report unsuccessful outcome of the procedure. In case the information received in the initiating message was insufficient to determine a value for all IEs that are required to be present in the message used to report the unsuccessful outcome of the procedure, the receiving node shall instead terminate the procedure and initiate the Error Indication procedure.
- If a received message *initiating* a procedure that does not have a message to report unsuccessful outcome is missing one or more IEs/IE groups with specified criticality "*Reject IE*", the receiving node shall terminate the procedure and initiate the Error Indication procedure.
- If a received *response* message is missing one or more IEs/IE groups with specified criticality "*Reject IE*, the receiving node shall consider the procedure as unsuccessfully terminated and initiate local error handling.

### Ignore IE and Notify Sender:

- If a received message *initiating* a procedure is missing one or more IEs/IE groups with specified criticality *"Ignore IE and Notify Sender"*, the receiving node shall ignore that those IEs are missing and continue with the procedure based on the other IEs/IE groups present in the message and report in the response message of the procedure that one or more IEs/IE groups were missing. In case the information received in the initiating message was insufficient to determine a value for all IEs that are required to be present in the response message, the receiving node shall instead terminate the procedure and initiate the Error Indication procedure.
- If a received message *initiating* a procedure that does not have a message to report the outcome of the procedure is missing one or more IEs/IE groups with specified criticality "*Ignore IE and Notify Sender*", the receiving node shall ignore that those IEs are missing and continue with the procedure based on the other IEs/IE groups present in the message and initiate the Error Indication procedure to report that one or more IEs/IE groups were missing.
- If a received *response* message is missing one or more IEs/IE groups with specified criticality "*Ignore IE and Notify Sender*", the receiving node shall ignore that those IEs are missing and continue with the procedure based on the other IEs/IE groups present in the message and initiate the Error Indication procedure to report that one or more IEs/IE groups were missing.

## **Ignore IE:**

- If a received message *initiating* a procedure is missing one or more IEs/IE groups with specified criticality *"Ignore IE"*, the receiving node shall ignore that those IEs are missing and continue with the procedure based on the other IEs/IE groups present in the message.
- If a received *response* message is missing one or more IEs/IE groups with specified criticality "*Ignore IE*", the receiving node shall ignore that those IEs/IE groups are missing and continue with the procedure based on the other IEs/IE groups present in the message.

When reporting missing IEs/IE groups with specified criticality "*Reject IE*" or "*Ignore IE and Notify Sender*" using a response message defined for the procedure, the *Information Element Criticality Diagnostics* IE shall be included in the *Criticality Diagnostics* IE for each reported IE/IE group. In the *Information Element Criticality Diagnostics* IE the *Repetition Number* IE shall be included and in addition, if the missing IE/IE group is not at message hierarchy level 1 (top level; see annex C) also the *Message Structure* IE shall be included.

When reporting missing IEs/IE groups with specified criticality "*Reject IE*" or "*Ignore IE and Notify Sender*" using the Error Indication procedure, the *Procedure ID* IE, the *Triggering Message* IE, *Procedure Criticality* IE, the *Transaction ID* IE, and the *Information Element Criticality Diagnostics* IE shall be included in the *Criticality Diagnostics* IE for each reported IE/IE group. In the *Information Element Criticality Diagnostics* IE the *Repetition Number* IE shall be included and in addition, if the missing IE/IE group is not at message hierarchy level 1 (top level; see annex C) also the *Message Structure* IE shall be included.

# 10.3.6 IEs or IE Groups Received in Wrong Order or With Too Many Occurrences or Erroneously Present

If a message with IEs or IE groups in wrong order or with too many occurrences is received or if IEs or IE groups with a conditional presence are present when the condition is not met (i.e. erroneously present), the receiving node shall behave according to the following:

- If a message *initiating* a procedure is received containing IEs or IE groups in wrong order or with too many occurrences or erroneously present, none of the functional requests of the message shall be executed. The receiving node shall reject the procedure and report the cause value "Abstract Syntax Error (Falsely Constructed Message)" using the message normally used to report unsuccessful outcome of the procedure. In case the information received in the initiating message was insufficient to determine a value for all IEs that are required to be present in the message used to report the unsuccessful outcome of the procedure, the receiving node shall instead terminate the procedure and initiate the Error Indication procedure.
- If a message *initiating* a procedure that does not have a message to report unsuccessful outcome is received containing IEs or IE groups in wrong order or with too many occurrences or erroneously present, the receiving node shall terminate the procedure and initiate the Error Indication procedure, and use cause value "Abstract Syntax Error (Falsely Constructed Message)".
- If a *response* message is received containing IEs or IE groups in wrong order or with too many occurrences or erroneously present, the receiving node consider the procedure as unsuccessfully terminated and initiate local error handling.

When determining the correct order only the IEs specified in the specification version used by the receiver shall be considered.

# 10.4 Logical Error

Logical error situations occur when a message is comprehended correctly, but the information contained within the message is not valid (i.e. semantic error), or describes a procedure which is not compatible with the state of the receiver. In these conditions, the following behaviour shall be performed (unless otherwise specified) as defined by the class of the elementary procedure, irrespective of the criticality information of the IEs/IE groups containing the erroneous values.

## Class 1:

Where the logical error occurs in a request message of a class 1 procedure, and the procedure has a message to report this unsuccessful outcome, this message shall be sent with an appropriate cause value. Typical cause values are:

## **Protocol Causes:**

- 1. Semantic Error;
- 2. Message not Compatible with Receiver State.

Where the logical error is contained in a request message of a class 1 procedure, and the procedure does not have a message to report this unsuccessful outcome, the procedure shall be terminated and the Error Indication procedure shall be initiated with an appropriate cause value. The *Procedure ID* IE, the *Triggering Message* IE and the *Transaction ID* IE within the *Criticality Diagnostics* IE shall then be included in order to identify the message containing the logical error.

Where the logical error exists in a response message of a class 1 procedure, the procedure shall be considered as unsuccessfully terminated and local error handling shall be initiated.

#### Class 2:

Where the logical error occurs in a message of a class 2 procedure, the procedure shall be terminated and the Error Indication procedure shall be initiated with an appropriate cause value. The *Procedure ID* IE, the *Triggering Message* IE and the *Transaction ID* IE within the *Criticality Diagnostics* IE shall then be included in order to identify the message containing the logical error.

### 10.5 Exceptions

The error handling for all the cases described hereafter shall take precedence over any other error handling described in the other subclauses of clause 10.

- If any type of error (Transfer Syntax Error, Abstract Syntax Error or Logical Error) is detected in the ERROR INDICATION message, it shall not trigger the Error Indication procedure in the receiving Node but local error handling.
- In case a response message or ERROR INDICATION message needs to be returned, but the information necessary to determine the receiver of that message is missing, the procedure shall be considered as unsuccessfully terminated and local error handling shall be initiated.

If an error that terminates a procedure occurs, the returned cause value shall reflect the error that caused the termination of the procedure even if one or more abstract syntax errors with criticality "ignore and notify" have earlier occurred within the same procedure.

# Annex A (normative): Allocation and Pre-emption of Radio Links in the DRNS

# A.1 Deriving Allocation Information for a Radio Link

### A.1.1 Establishment of a New Radio Link

The Allocation Information for a Radio Link in the case of establishment of a new Radio Link shall be derived as follows:

- The latest received Allocation/Retention Priority IE for each transport channel shall be used.
- Note: The *Allocation/Retention Priority* IE for a transport channel may have been received in a) the procedure that establishes the first Radio Link for the UE in the DRNS or b) a procedure adding or modifying the transport channel.
- If the *Priority Level* IE in the *Allocation/Retention Priority* IE for all transport channels that are intended to use the Radio Link is set to "no priority", the pre-emption capability of the Radio Link shall be set to "shall not trigger pre-emption".
- If the *Priority Level* IE in the *Allocation/Retention Priority* IE for one or more of the transport channels that are intended to use the Radio Link is not set to "no priority", the allocation priority and the pre-emption capability of the Radio Link shall be set according to the following:
  - The transport channels that have the *Priority Level* IE in the *Allocation/Retention Priority* IE set to "no priority" shall be excluded when setting the allocation priority and pre-emption capability of a Radio Link.
  - The allocation priority for a Radio Link shall be set to highest priority level, given by the *Priority Level* IE in the *Allocation/Retention Priority* IE, for all non excluded transport channels that are intended to use the Radio Link.
  - If all non-excluded transport channels that are intended to use a Radio Link to be established have the preemption capability, given by the *Pre-emption Capability* IE in the *Allocation/Retention Priority* IE, set to "shall not trigger pre-emption", the pre-emption capability of the Radio Link shall be set to "shall not trigger pre-emption".

If one or more non-excluded transport channels that are intended to use the Radio Link to be established have the value of the *Pre-emption Capability* IE in the *Allocation/Retention Priority* IE set to "may trigger pre-emption", the pre-emption capability of the Radio Link shall be set to "may trigger pre-emption".

The derived allocation priority and pre-emption capability are only valid during this allocation/retention process.

# A.1.2 Modification of an Existing Radio Link

The Allocation Information for a Radio Link in the case of modification of a Radio Link (addition or modification of transport channels using the Radio Link) shall be derived as follows:

- The latest received Allocation/Retention Priority IE for each transport channel shall be used.
- Note: The *Allocation/Retention Priority* IE for a transport channel may have been received in a) the procedure that establishes the first Radio Link for the UE in the DRNS, b) a previous procedure adding or modifying the transport channel, or
  c) the current procedure adding or modifying the transport channel.
- If the *Priority Level* IE in the *Allocation/Retention Priority* IE for all transport channels to be added or modified in the Radio Link is set to "no priority", the pre-emption capability of the Radio Link to be modified shall be set to "shall not trigger pre-emption".

- If the *Priority Level* IE in the *Allocation/Retention Priority* IE for one or more of the transport channels to be added or modified in the Radio Link is not set to "no priority", the allocation priority of and the pre-emption capability of the Radio Link to be modified shall be set according to the following:
  - The transport channels to be added or modified that have the *Priority Level* IE in the *Allocation/Retention Priority* IE set to "no priority" shall be excluded when setting the allocation priority and pre-emption capability of a Radio Link to be modified.
  - The allocation priority for a Radio Link to be modified shall be set to highest priority level, given by the *Priority Level* IE in the *Allocation/Retention Priority* IE, for all the non-excluded transport channels that are to be added or modified.
  - If all non-excluded transport channels that are to be added or modified in the Radio Link have the preemption capability, given by the *Pre-emption Capability* IE in the *Allocation/Retention Priority* IE, set to "shall not trigger pre-emption", the pre-emption capability of the Radio Link to be modified shall be set to "shall not trigger pre-emption".

If one or more of the non-excluded transport channels to be added or modified in the Radio Link have the value of the *Pre-emption Capability* IE in the *Allocation/Retention Priority* IE set to "may trigger pre-emption", the pre-emption capability of the Radio Link to be modified shall be set to "may trigger pre-emption".

The derived allocation priority and pre-emption capability are only valid during this allocation/retention process.

# A.2 Deriving Retention Information for a Radio Link

The Retention Information for an existing Radio Link shall be derived as follows:

- The latest received Allocation/Retention Priority IE for each transport channel shall be used.
- Note: The *Allocation/Retention Priority* IE for a transport channel may have been received in a) the procedure that establishes the first Radio Link for the UE in the DRNS or b) a procedure adding or modifying the transport channel.
- If the *Priority Level* IE in the *Allocation/Retention Priority* IE for one or more transport channels using the Radio Link is set to "no priority", the pre-emption vulnerability of the Radio Link shall be set to "not pre-emptable".
- If the *Priority Level* IE in the *Allocation/Retention Priority* IE for all the transport channels using the Radio Link is not set to "no priority", the retention priority of the Radio Link and the pre-emption vulnerability of the Radio Link shall be set according to the following:
  - The retention priority for a Radio Link shall be set to highest priority level, given by the *Priority Level* IE in the *Allocation/Retention Priority* IE, for all transport channels that uses the Radio Link.
  - If all transport channels that uses the Radio Link have the pre-emption vulnerability, given by the *Pre-emption Vulnerability* IE in the *Allocation/Retention Priority* IE, set to "pre-emptable", the pre-emption vulnerability of the Radio Link shall be set to "pre-emptable".
     If one or more transport channels that uses the Radio Link have the value of the *Pre-emption Vulnerability* IE in the *Allocation/Retention* Priority IE, set to "pre-emptable".
     If one or more transport channels that uses the Radio Link have the value of the *Pre-emption Vulnerability* IE in the *Allocation/Retention Priority* IE set to "not pre-emptable", the pre-emption vulnerability of the Radio Link shall be set to "not pre-emptable".

The derived retention priority and pre-emption vulnerability are valid until they are changed, or until the Radio Link is deleted. When new transport channels are added to or deleted from the Radio Link or when existing transport channels are modified with regards to the *Allocation/Retention Priority* IE, the retention information shall be derived again according to above.

# A.3 The Allocation/Retention Process

The DRNS shall establish or modify the resources for a Radio Link according to:

- The value of the Allocation Information (allocation priority and pre-emption capability) of the Radio to be established or modified. The Allocation Information is derived according to clause A.1.
- The value of the Retention Information (retention priority and pre-emption vulnerability) of existing Radio Links. The Retention Information derived according to clause A.2.
- The resource situation in the DRNS.

Whilst the process and the extent of the pre-emption functionality is operator dependent, the pre-emption indicators (pre-emption capability and pre-emption vulnerability) shall be treated as follows:

- -. If the pre-emption capability for a Radio Link to be established or modified is set to "may trigger preemption" and the resource situation so requires, the DRNS may trigger the pre-emption process in clause A.4 to free resources for this allocation request.
- -. If the pre-emption capability for a Radio Link to be established or modified is set to "shall not trigger preemption", then this allocation request shall not trigger the pre-emption process in clause A.4.
- -. If the pre-emption vulnerability for an existing Radio Link is set to "pre-emptable", then this Radio Link shall be included in the pre-emption process in clause A.4.
- -. If the pre-emption vulnerability for an existing Radio Link is set to "not pre-emptable", then this Radio Link shall not be included in the pre-emption process in clause A.4.

### A.4 The Pre-emption Process

The pre-emption process shall only pre-empt Radio Links with lower retention priority than the allocation priority of the Radio Link to be established or modified. The Radio Links to be pre-empted shall be selected in ascending order of the retention priority.

When the pre-emption process detects that one or more Radio Links have to be pre-empted to free resources for a Radio Link(s) to be established or modified, the DRNS shall initiate the Radio Link Pre-emption procedure for all the UE Contexts having Radio Links selected for pre-emption and start the  $T_{Preempt}$  timer.

When enough resources are freed to establish or modify the Radio Link(s) according to the request, the DRNS shall stop the  $T_{Preempt}$  timer and complete the procedure that triggered the pre-emption process in accordance with the "Successful Operation" subclause of the procedure.

If the T<sub>Preempt</sub> timer expires, the DRNS shall reject the procedure that triggered the pre-emption process and complete the procedure in accordance with the "Unsuccessful Operation" subclause of the procedure.

### Annex B (informative): Measurement Reporting

When the *Report Characteristics* IE is set to "Event A" (figure B.1), the Measurement Reporting procedure is initiated when the measured entity rises above the requested threshold and stays there for the requested hysteresis time. If no hysteresis time is given, the value zero shall be used for the hysteresis time.

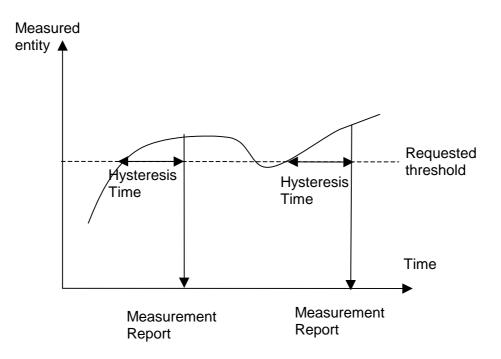


Figure B.1: Event A reporting with Hysteresis Time specified

When the *Report Characteristics* IE is set to "Event B" (figure B.2), the Measurement Reporting procedure is initiated when the measured entity falls below the requested threshold and stays there for the requested hysteresis time. If no hysteresis time is given, the value zero shall be used for the hysteresis time.

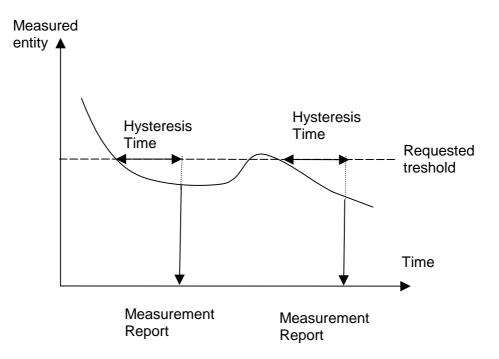
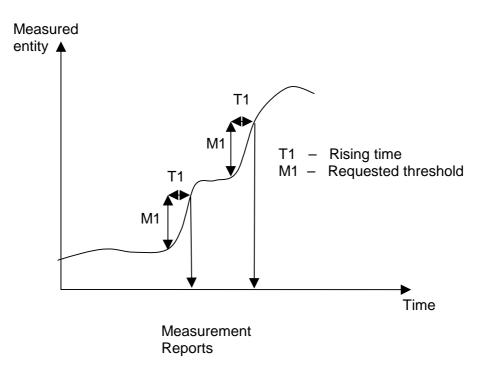


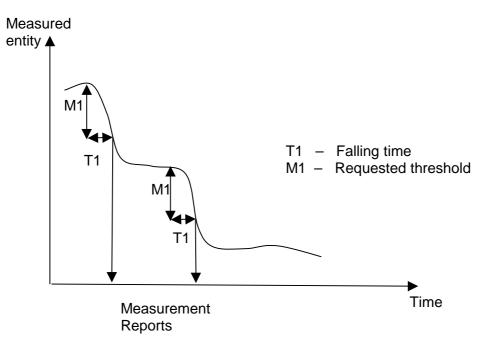
Figure B.2: Event B reporting with Hysteresis Time specified

When the *Report Characteristics* IE is set to "Event C" (figure B.3), the Measurement Reporting procedure is initiated always when the measured entity rises by an amount greater than the requested threshold within the requested time. The reporting in figure B.3 is initiated if the Rising Time T1 is less than the requested time.





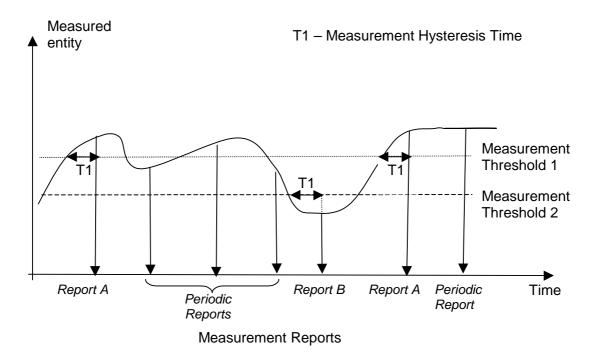
When the *Report Characteristics* IE is set to "Event D" (figure B.4), the Measurement Reporting procedure is initiated always when the measured entity falls by an amount greater than the requested threshold within the requested time. The reporting in figure B.4 is initiated if the Falling Time T1 is less than the requested time.





When the *Report Characteristics* IE is set to "Event E" (figure B.5), the Measurement Reporting procedure (Report A) is initiated always when the measured entity rises above the "Measurement Threshold 1" and stays there for the "Measurement Hysteresis Time" (T1 in figure B.5). If *Report Periodicity* IE is provided DRNS shall also initiate Measurement Reporting procedure periodically. The periodic reporting continues although the measured entity falls below the "Measurement Threshold 1" and is terminated by the Report B.

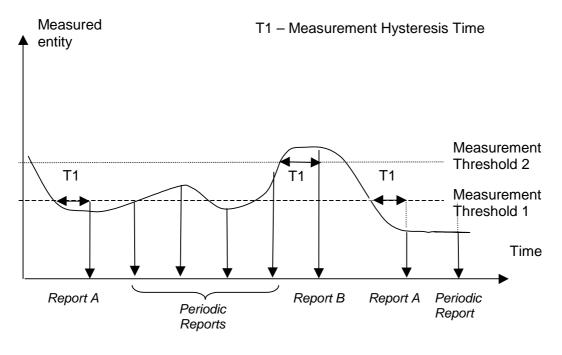
When the Report A conditions have been met and the measured entity falls below the "Measurement Threshold 2" and stays there for the "Measurement Hysteresis Time" (T1) the Measurement Reporting procedure (Report B) is initiated and the periodic reporting is terminated.



#### Figure B.5: Event E reporting with Hysteresis Time specified and Periodic Reporting requested

When the *Report Characteristics* IE is set to "Event F" (figure B.6), the Measurement Reporting procedure (Report A) is initiated always when the measured entity falls below the "Measurement Threshold 1" and stays there for the "Measurement Hysteresis Time" (T1 in figure B.6). If *Report Periodicity* IE is provided DRNS shall also initiate Measurement Reporting procedure periodically. The periodic reporting continues although the measured entity rises above the "Measurement Threshold 1" and is terminated by the Report B.

When the Report A conditions have been met and the measured entity rises above the "Measurement Threshold 2" and stays there for the "Measurement Hysteresis Time" (T1) Measurement Reporting procedure (Report B) is initiated and the periodic reporting is terminated.



**Measurement Reports** 

Figure B.6: Event F reporting with Hysteresis Time specified and Periodic Reporting requested

# Annex C (informative): Guidelines for Usage of the Criticality Diagnostics IE

# C.1 EXAMPLE MESSAGE Layout

Assume the following message format:

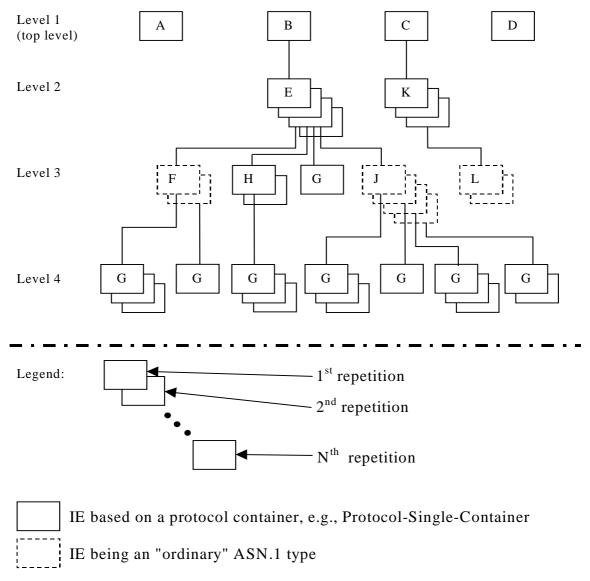
IE/Group Name	Presence	Range	IE Type and Referenc e	Semantics Description	Criticality	Assigned Criticality
Message Type	М				YES	reject
Transaction ID	М				_	
A	М				YES	reject
В	М				YES	reject
>E		1 <maxe></maxe>			EACH	ignore
>>F		1 <maxf></maxf>			-	
>>>G		03,			EACH	ignore
>>H		1 <maxh></maxh>			EACH	ignore
>>>G		03,			EACH	ignore and notify
>>G	М				YES	reject
>>J		1 <maxj></maxj>			-	
>>>G		03,			EACH	reject
С	М				YES	reject
>К		1 <maxk></maxk>			EACH	ignore and notify
>>L		1 <maxl></maxl>			-	
>>>M	0				-	
D	М				YES	reject

Note 1. The IEs F, J, and L do not have assigned criticality. The IEs F, J, and L are consequently realised as the ASN.1 type SEQUENCE OF of "ordinary" ASN.1 type, e.g. INTEGER. On the other hand, the repeatable IEs with assigned criticality are realised as the ASN.1 type SEQUENCE OF of an IE object, e.g. ProtocolIE-Single-Container.

For the corresponding ASN.1 layout, see subclause C.4.

### C.2 Example on a Received EXAMPLE MESSAGE

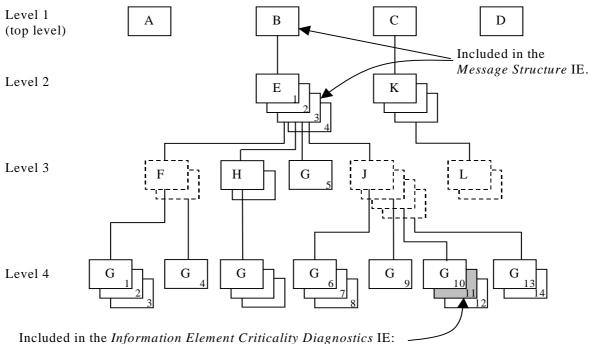
Assume further more that a received message based on the above tabular format is according to the figure below.



#### Figure C.1: Example of content of a received RNSAP message based on the EXAMPLE MESSAGE

### C.3 Content of Criticality Diagnostics

### C.3.1 Example 1



a) *IE ID* IE

b) Repetition Number IE

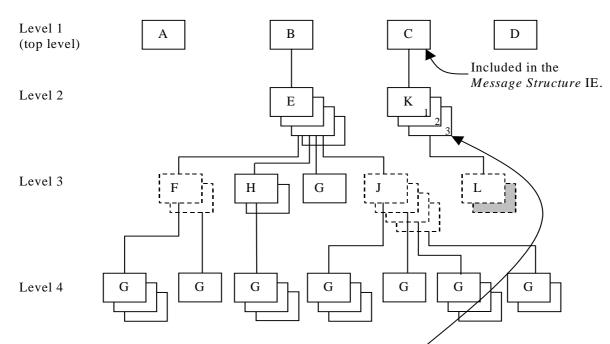
### Figure C.2: Example of a received RNSAP message containing a not comprehended IE

If there is an error within the instance marked as grey in the IE G in the IE J shown in the figure C.2 above, this will be reported within the *Information Element Criticality Diagnostics* IE within the *Criticality Diagnostics* IE as follows:

IE name	Value	Comment
IE Criticality	reject	Criticality for IE on the reported level, i.e. level 4.
IE ID	id-G	IE ID from the reported level, i.e. level 4.
Repetition	11	Repetition number on the reported level, i.e. level 4.
Number		(Since the IE E (level 2) is the lowest level included in the Message Structure IE this is
		the eleventh occurrence of IE G within the IE E (level 2).
Type of Error	not	
	underst	
	ood	
Message Structur	e, first rep	etition
>IE ID	id-B	IE ID from level 1.
Message Structur	e, second	repetition
>IE ID	id-E	IE ID from the lowest level above the reported level, i.e. level 2.
>Repetition	3	Repetition number from the lowest level above the reported level, i.e. level 2.
Number		

- Note 2. The IE J on level 3 cannot be included in the *Message Structure* IE since they have no criticality of their own.
- Note 3. The repetition number of the reported IE indicates the number of repetitions of IE G received up to the detected erroneous repetition, counting all occurrences of the IE G below the same instance of the previous level with assigned criticality (instance 3 of IE E on level 2).

### C.3.2 Example 2



- Included in the Information Element Criticality Diagnostics IE:
- a) IE ID IE
- b) Repetition Number IE

#### Figure C.3: Example of a received RNSAP message containing a not comprehended IE

If there is an error within the second instance (marked as grey) in the sequence (IE L in the tabular format) on level 3 below IE K in the structure shown in the figure C.3 above, this will be reported within the *Information Element Criticality Diagnostics* IE within the *Criticality Diagnostics* IE as follows:

IE name	Value	Comment	
IE Criticality	ignore	Criticality for IE on the reported level, i.e. level 2.	
	and		
	notify		
IE ID	id-K	IE ID from the reported level, i.e. level 2.	
Repetition	3	Repetition number on the reported level, i.e. level 2.	
Number			
Type of Error	not		
	underst		
	ood		
Message Structure, first repetition			
>IE ID	id-C	IE ID from the lowest level above the reported level, i.e. level 1.	

Note 4. The IE L on level 3 cannot be reported individually included in the *Message Structure* IE since it has no criticality of its own.

#### Level 1 С D А В (top level) Included in the Message Structure IE. Level 2 Κ E Level 3 Η G Level 4 G G G G G G G

- Included in the Information Element Criticality Diagnostics IE:
- a) IE ID IE
- b) Repetition Number IE

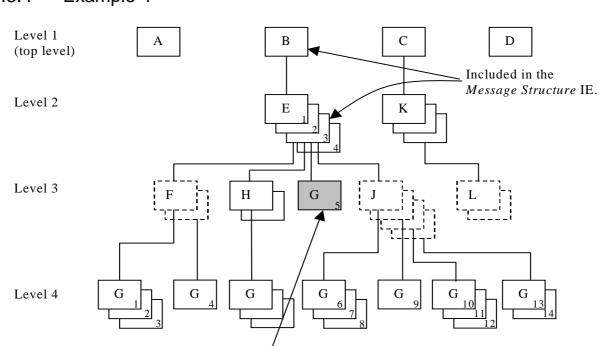
#### Figure C.4: Example of a received RNSAP message containing a not comprehended IE

If there is an error within the instance marked as grey in the IE G in the IE H shown in the figure C.4 above, this will be reported within the *Information Element Criticality Diagnostics* IE within the *Criticality Diagnostics* IE as follows:

IE name	Value	Comment
IE Criticality	ignore	Criticality for IE on the reported level, i.e. level 4.
	and	
	notify	
IE ID	id-G	IE ID from the reported level, i.e. level 4.
Repetition	2	Repetition number on the reported level, i.e. level 4.
Number		
Type of Error	not	
	underst	
	ood	
Message Structur	e, first repe	etition
>IE ID	id-B	IE ID from level 1.
Message Structur	re, second	repetition
>IE ID	id-E	IE ID from level 2.
>Repetition	3	Repetition number from level 2.
Number		
Message Structur	e, third rep	petition
>IE ID	id-H	IE ID from the lowest level above the reported level, i.e. level 3.
>Repetition	1	Repetition number from the lowest level above the reported level, i.e. level 3.
Number		

Note 5. The repetition number of level 4 indicates the number of repetitions of IE G received up to the detected erroneous repetition, counted below the same instance of the previous level with assigned criticality (instance 1 of IE H on level 3).

### C.3.3 Example 3



- Included in the Information Element Criticality Diagnostics IE:
- a) IE ID IE
- b) Repetition Number IE

#### Figure C.5: Example of a received RNSAP message containing a not comprehended IE

If there is an error within the instance marked as grey in the IE G in the IE E shown in the figure C.5 above, this will be reported within the Information Element Criticality Diagnostics IE within the Criticality Diagnostics IE as follows:

IE name	Value	Comment
IE Criticality	reject	Criticality for IE on the reported level, i.e. level 3.
IE ID	id-G	IE ID from the reported level, i.e. level 3.
Repetition	5	Repetition number on the reported level, i.e. level 3.
Number		(Since the IE E (level 2) is the lowest level included in the Message Structure IE this is
		the fifth occurrence of IE G within the IE E (level 2).
Type of Error	not	
	underst	
	ood	
Message Structur	e, first rep	etition
>IE ID	id-B	IE ID from level 1.
Message Structur	e, second	repetition
>IE ID	id-E	IE ID from the lowest level above the reported level, i.e. level 2.
>Repetition	3	Repetition number from the lowest level above the reported level, i.e. level 2.
Number		

The repetition number of the reported IE indicates the number of repetitions of IE G received up to the Note 6. detected erroneous repetition, counting all occurrences of the IE G below the same instance of the previous level with assigned criticality (instance 3 of IE E on level 2).

#### C.3.5 Example 5 Level 1 Α В С D (top level) Included in the Message Structure IE. Level 2 F K Level 3 Η F G Level 4 G G G G G G

- Included in the Information Element Criticality Diagnostics IE:
- a) IE ID IE
- b) Repetition Number IE

#### Figure C.6: Example of a received RNSAP message with a missing IE

If the instance marked as grey in the IE G in the IE E shown in the figure C.6 above, is missing this will be reported within the *Information Element Criticality Diagnostics* IE within the *Criticality Diagnostics* IE as follows:

IE name	Value	Comment
IE Criticality	reject	Criticality for IE on the reported level, i.e. level 3.
IE ID	id-G	IE ID from the reported level, i.e. level 3.
Repetition Number	4	Repetition number up to the missing IE on the reported level, i.e. level 3. (Since the IE E (level 2) is the lowest level included in the <i>Message Structure</i> IE there have been four occurrences of IE G within the IE E (level 2) up to the missing occurrence.
Type of Error	missing	
Message Structu	re, <i>first rep</i>	etition
>IE ID	id-B	IE ID from level 1.
Message Structu	re, second	repetition
>IE ID	id-E	IE ID from the lowest level above the reported level, i.e. level 2.
>Repetition Number	3	Repetition number from the lowest level above the reported level, i.e. level 2.

Note 7. The repetition number of the reported IE indicates the number of repetitions of IE G received up to but not including the missing occurrence, counting all occurrences of the IE G below the same instance of the previous level with assigned criticality (instance 3 of IE E on level 2).

### C.4 ASN.1 of EXAMPLE MESSAGE

```
ExampleMessage ::= SEQUENCE {
    ProtocolIEs ProtocolIE-Container {{ExampleMessage-Ies}},
    ProtocolExtensions ProtocolExtensionContainer {{ExampleMessage-Extensions}} OPTIONAL,
    ...
}
ExampleMessage-IEs RNSAP-PROTOCOL-IES ::= {
    { ID id-A CRITICALITY reject TYPE A PRESENCE mandatory} |
```

```
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```

```
{ ID id-B CRITICALITY reject TYPE B PRESENCE mandatory} |
{ ID id-C CRITICALITY reject TYPE C PRESENCE mandatory} |
{ ID id-D CRITICALITY reject TYPE D PRESENCE mandatory} ,
}
B ::= SEQUENCE {
                    E-List,
    e
    iE-Extensions ProtocolExtensionContainer { {B-ExtIEs} } OPTIONAL,
    . . .
}
B-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
}
E-List ::= SEQUENCE (SIZE (1..maxE)) OF ProtocolIE-Single-Container { {E-IEs} }
E-Ies RNSAP-PROTOCOL-IES ::= {
    { ID id-E CRITICALITY ignore TYPE E PRESENCE mandatory }
}
E ::= SEQUENCE {
    f
                     F-List,
    h
                     H-List.
    g
                     G-List1
                    J-List,
    iE-Extensions ProtocolExtensionContainer { {E-ExtIEs} } OPTIONAL,
    . . .
}
E-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
   . . .
}
F-List ::= SEQUENCE (SIZE (1..maxF)) OF F
F ::= SEQUENCE {
                    G-List2 OPTIONAL,
    iE-Extensions ProtocolExtensionContainer { {F-ExtIEs} } OPTIONAL,
    . . .
}
F-ExtIEs
          RNSAP-PROTOCOL-EXTENSION ::= {
   . . .
}
G-List2 ::= SEQUENCE (SIZE (1..3, ...)) OF ProtocolIE-Single-Container { {G2-IES} }
G2-IES RNSAP-PROTOCOL-IES ::= {
    { ID id-G CRITICALITY ignore TYPE G PRESENCE mandatory }
}
H-List := SEQUENCE (SIZE (1..maxH)) OF Protocolle-Single-Container { {H-IEs} }
H-Ies RNSAP-PROTOCOL-IES ::= {
    { ID id-H CRITICALITY ignore TYPE H PRESENCE mandatory }
}
H ::= SEQUENCE {
                     G-List3 OPTIONAL,
    iE-Extensions
                                   ProtocolExtensionContainer { {H-ExtIEs} } OPTIONAL,
    . . .
}
H-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
   . . .
}
G-List3 ::= SEQUENCE (SIZE (1..3, ...)) OF ProtocolIE-Single-Container { {G3-IEs} }
G3-IES RNSAP-PROTOCOL-IES ::= {
    { ID id-G CRITICALITY notify TYPE G PRESENCE mandatory }
}
G-List1 ::= ProtocolIE-Single-Container { {G1-IEs} }
G1-IES RNSAP-PROTOCOL-IES ::= {
```

```
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```

```
{ ID id-G CRITICALITY reject TYPE G PRESENCE mandatory }
}
J-List ::= SEQUENCE (SIZE (1..maxJ)) OF J
J ::= SEQUENCE {
                   G-List4 OPTIONAL,
   iE-Extensions ProtocolExtensionContainer { {J-ExtIEs} } OPTIONAL,
   . . .
}
           RNSAP-PROTOCOL-EXTENSION ::= {
J-ExtIEs
  • • •
}
G-List4 ::= SEQUENCE (SIZE (1..3, ...)) OF ProtocolIE-Single-Container { {G4-IEs} }
G4-IES RNSAP-PROTOCOL-IES ::= {
   { ID id-G CRITICALITY reject TYPE G PRESENCE mandatory }
}
C ::= SEQUENCE {
                   K-List,
    k
   iE-Extensions ProtocolExtensionContainer { {C-ExtIEs} } OPTIONAL,
    . . .
}
C-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
}
K-List ::= SEQUENCE (SIZE (1..maxK)) OF ProtocolIE-Single-Container { {K-IEs} }
K-IES RNSAP-PROTOCOL-IES ::= {
   { ID id-K CRITICALITY notify TYPE K PRESENCE mandatory }
}
K ::= SEQUENCE {
   1
                   L-List,
   iE-Extensions ProtocolExtensionContainer { {K-ExtIEs} } OPTIONAL,
   . . .
}
K-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
   . . .
}
L-List ::= SEQUENCE (SIZE (1..maxL)) OF L
L ::= SEQUENCE {
                   M OPTIONAL,
   m
   iE-Extensions ProtocolExtensionContainer { {L-ExtIEs} } OPTIONAL,
   . . .
}
L-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
  . . .
}
ExampleMessage-Extensions RNSAP-PROTOCOL-EXTENSION ::= {
   . . .
}
```

# Annex D (normative): DRNS Behaviour at SRNC or RNSAP Signalling Bearer Failure

This annex describes the DRNC actions in the event of SRNC or RNSAP Signalling Bearer failure when all or some of the UE Contexts related to the SRNC need to be removed in DRNC.

### D.1 Detection of SRNC or RNSAP Signalling Bearer/Connection Failure

Termination of all or some of the UE Contexts in DRNC which are related to an SRNC may be triggered due to failure of SRNC, RNSAP Signalling Bearer or the Iur signalling connection of an UE(s).

### D.1.1 Termination of all UE Contexts Related to a Specific SRNC

Termination of all UE Contexts in DRNC which are related to a specific SRNC is triggered if the RNSAP Signalling Bearer failure is detected by the RNSAP according to the procedure described in the sub-clause 4.5.1.5.1 of TS 25.420. By "all" UE Contexts, it means all Ues having dedicated and/or common channel resources.

### D.1.2 Termination of Specific UE Context

Termination of a specific UE Context in DRNC is triggered for an UE which has dedicated transport channel resources according to the procedure described in the sub-clause 4.5.1.5.2 of TS 25.420.

### D.2 DRNC Actions at UE Context Termination

When termination of the UE Context is required, the DRNC shall remove any common and/or dedicated radio resources related to the UE Context. The DRNC shall also initiate release of the dedicated or common user plane resources that were involved in these UE contexts. In addition, if it is possible the DRNC shall release the RRC connection.

# Annex E (informative): Change History

TSG #	TSG Doc.	CR	Rev	Subject/Comment	New
09/2009	-	-	-	Release 9 version created based on v8.6.0	9.0.0
45	RP-090777	1521	2	Introduction of UE AMBR concept in UMTS	9.0.0
	RP-090774	1528	1	Introduction of TxAA extension for non-MIMO Ues	9.0.0
45	RP-090772	1529	2	Introduction of Dual-Band HSDPA	9.0.0
45	RP-090773	1536	1	Introduction of MIMO for DC HSDPA	9.0.0
46	RP-091188	1540	-	Introduction of Cell Portion for 1.28 Mcps TDD	9.1.0
46	RP-091187	1541	1	Single Stream MIMO for DC-HSDPA	9.1.0
46	RP-091186	1542	-	Activation and deactivation of secondary carrier in non serving Node B	9.1.0
46	RP-091182	1544	1	Correction of abnormal conditions for Dual cell HS-DSCH in RL Addition procedure	9.1.0
46	RP-091180	1551	1	Clarification of the meaning of BIT STRING type IEs for SPS operation for 1.28Mcps	9.1.0
46	RP-091181	1558	1	TDD MAC-e Reset Indicator for MAC-I Reset	9.1.0
	RP-091182		-	Further Corrections for DC-HSDPA	9.1.0
	RP-091179		1	Wrong ref in tabular	9.1.0
	RP-091179			STTD is cell specific in Dual-Cell HSDPA	9.1.0
	RP-091186		2	Introduction of Dual Cell E-DCH mode of operation	9.1.0
-	RP-091187		-	Removal of MAC-ehs format indicator	9.1.0
	RP-091179			Correction on IE "E-AGCH Table Choice"	9.1.0
	RP-091186		1	Introduction of Re9 HSPA Capability into RNSAP	9.1.0
	RP-100215			Addition of HS-DSCH physical layer category over lur	9.2.0
	RP-100219		1	E-RNTI Allocation for UE moves to Cell_FACH from Cell_DCH	9.2.0
	RP-100215			Allow reconfiguration of some les in RL Addition procedure	9.2.0
	RP-100219			Correction of DC-HSDPA Capability in lur	9.2.0
	RP-100218			Correction for the description of E-DCH serving radio link IE for E-DCH semi-persistent operation	9.2.0
47	RP-100215	1586		Combining E-DCH Radio Links within the RLS	9.2.0
	RP-100220		1	Correction of Multi-cell Capability Report in Iur	9.2.0
	RP-100230		2	Introduction of HS-PDSCH resources on TS0 for 1.28Mcps TDD	9.2.0
	RP-100217		3	Correction to state transition of Enhanced CELL_FACH UE for LCR TDD	9.2.0
	RP-100230		2	Rel-9 Flexible cell combinations in DC-HSDPA	9.2.0
	RP-100230		1	Addition of DGNSS Validity Period in RNSAP	9.2.0
47	RP-100229	1594	1	Introduction of UE Aggregate Maximum Bit Rate Enforcement Indicator	9.2.0
47	RP-100218	1596	1	Syncronization detection window configuration in CPC for 1.28 Mcps TDD	9.2.0
47	RP-100230	1597	2	Measurement occasion configuration in CELL_DCH for 1.28Mcps TDD	9.2.0
	RP-100216			Correction for Procedural Text on E-RNTI Allocation at E-DCH Serving Cell Change	9.2.0
47	RP-100199	1604		Indication of Precoding Weight Set Restriction preference	9.2.0
47	RP-100229	1605		Rapporteur's update of RNSAP protocol	9.2.0
	RP-100224		3	Corrections to DC HSUPA	9.2.0
47	RP-100221	1608		Remove Cell Specific HARQ memory partitioning for DC HSDPA+MIMO and additional corrections for HS-DSCH preconfiguration	9.2.0
04/2010				Corrected a typo in ASN.1 to make it pass the syntax checker	9.2.1
04/2010				ToC updated	9.2.2
04/2010				Corrupted headers fixed	9.2.3
	RP-100592		1	CPC parameters missing for serving HS-DSCH RL change in RL Addition procedure	9.3.0
	RP-100593			Correction of procedure text that appears to be duplicated and mis-placed	9.3.0
	RP-100594		2	CQI Feedback Cycle k for DC-HSDPA and MIMO operation	9.3.0
	RP-100591			Correction when the power offset for S-CPICH for MIMO is zero	9.3.0
	RP-100545			Correction for Enhanced Serving Cell Change	9.3.0
	RP-100904		1	Clarification of 64 QAM usage at intra Node B serving HS-DSCH RL change	9.4.0
	RP-100909		2	Corrections to HSDPA secondary serving cell list handling	9.4.0
	RP-100905			Correction of procedure text for E-DCH SPS operation	9.4.0
	RP-100904		L	Addition of UE with enhanced HS-SCCH support indicator IE for Cell_FACH	9.4.0
	RP-101269		<u> </u>	Corrections to E-DCH MAC-d Flow Multiplexing for 1.28Mcps TDD	9.5.0
	RP-101269		1	Correction of Inactivity Threshold for UE DRX Cycle for 1.28Mcps TDD	9.5.0
		1651	1	Power Offset For S-CPICH for MIMO of secondary cell	9.5.0
	SP-100629		<u> </u>	Clarification on the use of References (TS 21.801 CR#0030)	9.6.0
	RP-110222		1	Addition of Measurement Power Offset in ESCC procedure over lur	9.6.0
52	RP-110681	1676	1	Misalignment between message tabular and ASN.1 for Idle Interval Information IE	9.7.0
50			~		
	RP-110681 RP-111645	1684		UE support indicator for DL secondary HS-DSCH activation state according to RRC Rel-9 Support of dynamic HS-SCCH order for DTXDRX	9.7.0 9.8.0

# History

	Document history			
V9.1.0	February 2010	Publication		
V9.2.3	April 2010	Publication		
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