

# ETSI TS 136 523-2 V8.4.0 (2010-02)

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*Technical Specification*

**LTE;  
Evolved Universal Terrestrial Radio Access (E-UTRA) and  
Evolved Packet Core (EPC);  
User Equipment (UE) conformance specification;  
Part 2: ICS  
(3GPP TS 36.523-2 version 8.4.0 Release 8)**

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# Foreword

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# Introduction

To evaluate conformance of a particular implementation, it is necessary to have a statement of which capabilities and options have been implemented for a telecommunication specification. Such a statement is called an Implementation Conformance Statement (ICS).

The present document is part 2 of a multi-part conformance test specification for User Equipment (UE).

3GPP TS 36.523-1 [19]: "Evolved Universal Terrestrial Radio Access (E-UTRA) and Evolved Packet Core (EPC); User Equipment (UE) conformance specification; Part 1: Protocol conformance specification".

**3GPP TS 36.523-2: "Evolved Universal Terrestrial Radio Access (E-UTRA) and Evolved Packet Core (EPC); User Equipment (UE) conformance specification; Part 2: Implementation Conformance Statement (ICS) proforma specification". (the present document)**

3GPP TS 36.523-3 [20]: "Evolved Universal Terrestrial Radio Access (E-UTRA) and Evolved Packet Core (EPC); User Equipment (UE) conformance specification; Part 3: Abstract Test Suite (ATS)".

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# 1 Scope

The present document provides the Implementation Conformance Statement (ICS) proforma for 3<sup>rd</sup> Generation User Equipment (UE), in compliance with the relevant EPS (E-UTRA/EPC) requirements, and in accordance with the relevant guidance given in ISO/IEC 9646-1 [24] and ISO/IEC 9646-7 [25].

The present document also specifies a recommended applicability statement for the test cases included in TS 36.523-1 [19]. These applicability statements are based on the features implemented in the UE.

Special conformance testing functions can be found in TS 36.509 [6] and the common test environments are included in 3GPP TS 36.508 [18].

The present document is valid for UE complying with EPS (E-UTRA/EPC) and implemented according to 3GPP releases starting from Release 8 up to the Release indicated on the cover page of the present document.

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# 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.
  - For a Release 8 UE, references to 3GPP documents are to version 8.x.y, when available.

**Editor's Note: The Reference list is incomplete and some references are still to UMTS specs.**

- [1] 3GPP TR 21.905: "Vocabulary for 3GPP Specifications".
- [2] 3GPP TS 23.003: "Numbering, Addressing and Identification".
- [3] 3GPP TS 23.122: "Non-Access-Stratum functions related to Mobile Station (MS) in idle mode".
- [4] 3GPP TS 24.008: "Mobile Radio Interface Layer 3 specification; Core Network Protocols; Stage 3".
- [5] 3GPP TS 34.108: "Common Test Environments for User Equipment (UE) Conformance Testing".
- [6] 3GPP TS 36.509: " Special conformance testing functions for User Equipment " .
- [7] 3GPP TS 34.123-1: "User Equipment (UE) conformance specification; Part 1: Protocol conformance specification".
- [8] 3GPP TS 34.123-2: "User Equipment (UE) conformance specification; Part 2: Implementation Conformance Statement (ICS) proforma specification".
- [9] 3GPP TS 34.123-3: "User Equipment (UE) conformance specification; Part 3: Abstract Test Suites (ATS)".
- [10] 3GPP TS 36.300: "Evolved Universal Terrestrial Radio Access (E-UTRA) and Evolved Universal Terrestrial Radio Access Network (E-UTRAN); Overall description; Stage 2".
- [11] 3GPP TS 36.302: "Services provided by the physical layer for E-UTRA".
- [12] 3GPP TS 36.304: "Evolved Universal Terrestrial Radio Access (E-UTRA) User Equipment (UE) Procedures in idle mode " .

- [13] 3GPP TS 36.306: "Evolved Universal Terrestrial Radio Access (E-UTRA) User Equipment (UE) Radio Access capabilities".
- [14] 3GPP TS 36.321: "Evolved Universal Terrestrial Radio Access (E-UTRA) Medium Access Control (MAC) protocol specification".
- [15] 3GPP TS 36.322: "Evolved Universal Terrestrial Radio Access (E-UTRA) Radio Link Control (RLC) protocol specification".
- [16] 3GPP TS 36.323: "Evolved Universal Terrestrial Radio Access (E-UTRA) Packet Data Convergence Protocol (PDCP) specification".
- [17] 3GPP TS 36.331: "Evolved Universal Terrestrial Radio Access (E-UTRA) Radio Resource Control (RRC) Protocol Specification".
- [18] 3GPP TS 36.508: "Evolved Universal Terrestrial Radio Access (E-UTRA) and Evolved Packet Core (EPC); Common Test Environments for User Equipment (UE) Conformance Testing".
- [19] 3GPP TS 36.523-1: "Evolved Universal Terrestrial Radio Access (E-UTRA) and Evolved Packet Core (EPC); User Equipment (UE) conformance specification; Part 1: Protocol conformance specification".
- [20] 3GPP TS 36.523-3: " Evolved Universal Terrestrial Radio Access (E-UTRA) and Evolved Packet Core (EPC); User Equipment (UE) conformance specification; Part 3: Abstract Test Suites (ATS)".
- [21] 3GPP TR 24.801: "3GPP System Architecture Evolution; CT WG1 Aspects".
- [22] 3GPP TS 23.401: "3GPP System Architecture Evolution; GPRS enhancements for E-UTRAN access".
- [23] 3GPP TS 51.010-1: "Mobile Station (MS) conformance specification; Part 1: Conformance specification".
- [24] ISO/IEC 9646-1: "Information technology - Open Systems Interconnection - Conformance testing methodology and framework - Part 1: General concepts".
- [25] ISO/IEC 9646-7: "Information technology - Open systems interconnection - Conformance testing methodology and framework - Part 7: Implementation Conformance Statements".
- [26] 3GPP2 C.S0024-A-v3.0: "cdma2000 High Rate Packet Data Air Interface Specification".
- [27] 3GPP2 C.S0002-A: "Physical Layer Standard for cdma2000 Spread Spectrum Systems – Release A".
- [28] 3GPP TS 24.303: "Mobility management based on Dual-Stack Mobile IPv6; Stage 3".

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## 3 Definitions, symbols and abbreviations

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

- such given in TR 21.905[1]
- such given in ISO/IEC 9646-1 [24] and ISO/IEC 9646-7 [25]

NOTE: Some terms and abbreviations defined in [24] and [25] are explicitly included below with small modification to reflect the terminology used in 3GPP.

### 3.1 Definitions

**Implementation Conformance Statement (ICS):** A statement made by the supplier of an implementation or system claimed to conform to a given specification, stating which capabilities have been implemented.

**ICS proforma:** A document, in the form of a questionnaire, which when completed for an implementation or system becomes an ICS.

**Implementation eXtra Information for Testing (IXIT):** A statement made by a supplier or implementer of an UEUT which contains or references all of the information (in addition to that given in the ICS) related to the UEUT and its testing environment, which will enable the test laboratory to run an appropriate test suite against the UEUT.

**IXIT proforma:** A document, in the form of a questionnaire, which when completed for an UEUT becomes an IXIT.

**Protocol Implementation Conformance Statement (PICS):** An ICS for an implementation or system claimed to conform to a given protocol specification.

**Protocol Implementation eXtra Information for Testing (PIXIT):** An IXIT related to testing for conformance to a given protocol specification.

**static conformance review:** A review of the extent to which the static conformance requirements are claimed to be supported by the UEUT, by comparing the answers in the ICS(s) with the static conformance requirements expressed in the relevant specification(s).

## 3.2 Symbols

No specific symbols have been identified so far.

## 3.3 Abbreviations

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

ENB	Evolved Node B
FFS	For Further Study
ICS	Implementation Conformance Statement
IXIT	Implementation eXtra Information for Testing
PICS	Protocol Implementation Conformance Statement
PIXIT	Protocol Implementation eXtra Information for Testing
SCS	System Conformance Statement
TC	Test Case
UEUT	User Equipment Under Test

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## 4 Recommended Test Case Applicability

The applicability of each individual test is identified in Table 4-1. This is just a recommendation based on the purpose for which the test case was written.

The applicability of every test is formally expressed by the use of Boolean expression that are based on parameters (ICS) included in annex A of the present document.

Additional information related to the Test Case (TC), e.g. affecting its dynamic behaviour or its execution may be provided as well

The columns in Table 1 have the following meaning:

### Clause

The clause column indicates the clause number in TS 36.523-1 [19] that contains the test body.

### Title

The title column describes the name of the test and contains the clause title of the clause in TS 36.523-1 [19] that contains the test body.



## Release

The release column indicates the earliest release from which each the test case is applicable.

## Applicability - Condition

The following notations are used for the applicability column:

R	recommended - the test case is recommended
O	optional – the test case is optional
N/A	not applicable - in the given context, the test case is not recommended.
Ci	conditional - the test is recommended ("R") or not ("N/A") depending on the support of other items. "i" is an integer identifying an unique conditional status expression which is defined immediately following the table. For nested conditional expressions, the syntax "IF ... THEN (IF ... THEN ... ELSE...) ELSE ..." is used to avoid ambiguities.

NOTE: The conditions are defined in Table 4-1a.

## Applicability - Comments

This column contains a verbal description of the condition.

## Additional Information - Specific ICS

This column contains the mnemonics of ICS(s) affecting the dynamic behaviour of the TC.

## Additional Information - Specific IXIT

This column contains the mnemonics of IXIT(s) affecting the dynamic behaviour of the TC.

NOTE 1: More columns may be added in the future if appropriate e.g. Number of test executions, etc.

NOTE 2: To meet the validation requirements from certification bodies then there is a need to uniquely reference the FDD and TDD branch of common FDD and TDD test cases. The FDD and TDD branches of common FDD and TDD test cases can be referenced by amending a "FDD" or "TDD" suffix to the test case clause number. For example for AM RLC test case 7.2.3.13 the FDD and TDD branches can be identified by "7.2.3.13 FDD" and "7.2.3.13 TDD".

**Table 4-1: Applicability of tests and additional information for testing**

Clause	TC Title	Release	Applicability		Additional Information	
			Condition	Comment	Specific ICS	Specific IXIT
	<b>IDLE MODE</b>					
6.1.1.1	PLMN selection of RPLMN, HPLMN/EHPLMN, UPLMN and OPLMN: Automatic mode	Rel-8	R	UEs supporting E-UTRA	pc_eFDD	
					pc_eTDD	
6.1.2.2	Cell selection, Qrxlevmin	Rel-8	R	UEs supporting E-UTRA	pc_eFDD	
					pc_eTDD	
6.1.2.3	Cell selection (intra frequency intra E-UTRAN) when the serving cell becomes non-suitable (S<0, barred)	Rel-8	R	UEs supporting E-UTRA	pc_eFDD	
					pc_eTDD	
6.1.2.4	Cell reselection	Rel-8	R	UEs supporting E-UTRA	pc_eFDD	
					pc_eTDD	
6.1.2.5	Cell reselection for inter-band operation	Rel-8	R	UEs supporting E-UTRA	pc_eFDD	
					pc_eTDD	
6.1.2.6	Cell reselection using Qhyst, Qoffset and Treselection	Rel-8	R	UEs supporting E-UTRA	pc_eFDD	
					pc_eTDD	
6.1.2.7	Cell reselection: Equivalent PLMN	Rel-8	R	UEs supporting E-UTRA	pc_eFDD	
					pc_eTDD	
6.1.2.8	Cell reselection using cell status and cell reservations (access control class 0-9)	Rel-8	R	UEs supporting E-UTRA	pc_eFDD	
					pc_eTDD	
6.1.2.9	Cell reselection using cell status and cell reservations (access control class 11-15)	Rel-8	R	UEs supporting E-UTRA	pc_eFDD	
					pc_eTDD	
6.1.2.11	Inter-frequency cell reselection	Rel-8	R	UEs supporting E-UTRA	pc_eFDD	
					pc_eTDD	
6.1.2.13	Cell re-selection, S <sub>intrasearch</sub> , S <sub>nonintrasearch</sub>	Rel-8	R	UEs supporting E-UTRA	pc_eFDD	
					pc_eTDD	
6.1.2.15	Inter-frequency cell reselection according to cell reselection priority provided by SIBs	Rel-8	R	UEs supporting E-UTRA	pc_eFDD	
					pc_eTDD	
6.2.2.1	Inter-RAT cell Selection / from E-UTRA RRC_IDLE to UTRA_Idle, serving cell becomes non-suitable (SServingCell<0,barred)	Rel-8	C01	UEs supporting E-UTRA and UTRA	pc_eFDD	
					pc_eTDD	
6.2.2.2	Inter-RAT cell Selection / from E-UTRA RRC_IDLE to GSM_Idle/GPRS Packet_idle, serving cell becomes non-suitable (SServingCell<0,barred)	Rel-8	C05	UEs supporting E-UTRA and GSM	pc_eFDD	
					pc_eTDD	
6.2.2.3	Inter-RAT Cell Selection / from E-UTRA RRC_IDLE to HRPD Idle, when the serving cell becomes non-suitable (SServingCell<0)	Rel-8	C06	UEs supporting E-UTRA and HRPD	pc_eFDD	
					pc_eTDD	

Clause	TC Title	Release	Applicability		Additional Information	
			Condition	Comment	Specific ICS	Specific IXIT
6.2.2.4	Inter-RAT Cell Selection / from E-UTRA RRC_IDLE to 1xRTT Idle, when the serving cell becomes non-suitable (SServingCell<0)	Rel-8	C07	UEs supporting E-UTRA and 1xRTT	pc_eFDD	
					pc_eTDD	
6.2.2.5	Cell selection No SIM/USIM	Rel-8	C01	UEs supporting E-UTRA and UTRA	pc_eFDD	
					pc_eTDD	
6.2.3.1	Inter-RAT Cell Reselection / from E-UTRA RRC_IDLE to GSM_Idle/GPRS Packet_Idle	Rel-8	C05	UEs supporting E-UTRA and GSM	pc_eFDD	
					pc_eTDD	
6.2.3.2	Inter-RAT Cell Reselection / from GSM_Idle/GPRS Packet_Idle to E-UTRA	Rel-8	C05	UEs supporting E-UTRA and GSM	pc_eFDD	
					pc_eTDD	
6.2.3.3	Inter-RAT Cell Reselection / from UTRA_Idle to E-UTRA RRC_IDLE	Rel-8	C01	UEs supporting E-UTRA and UTRA	pc_eFDD	
					pc_eTDD	
6.2.3.5	Inter-RAT Cell reselection / from E-UTRA RRC_IDLE to UTRA_Idle	Rel-8	C01	UEs supporting E-UTRA and UTRA	pc_eFDD	
					pc_eTDD	
6.2.3.6	Inter-RAT Cell Reselection / from E-UTRA RRC_IDLE to UTRA idle according to RAT priority provided by dedicated signalling	Rel-8	C01	UEs supporting E-UTRA and UTRA	pc_eFDD	
					pc_eTDD	
6.2.3.7	Inter-RAT Cell Reselection: from E-UTRA RRC_IDLE to HRPD Idle – When HRPD cell is higher reselection priority than E-UTRA	Rel-8	C06	UEs supporting E-UTRA and HRPD	pc_eFDD	
					pc_eTDD	
6.2.3.8	Inter-RAT Cell Reselection: from E-UTRA RRC_IDLE to HRPD Idle – When HRPD is lower reselection priority than E-UTRA	Rel-8	C06	UEs supporting E-UTRA and HRPD	pc_eFDD	
					pc_eTDD	
6.2.3.13	Inter-RAT Cell Reselection / from UTRA_Idle to E-UTRA RRC_IDLE according to RAT priority provided by dedicated signalling	Rel-8	C01	UEs supporting E-UTRA and UTRA	pc_eFDD	
					pc_eTDD	
6.2.3.21	Inter-RAT Autonomous Cell Reselection GPRS Packet_transfer to E-UTRA (NC0 mode)	Rel-8	C05	UEs supporting E-UTRA and GSM	pc_eFDD	
					pc_eTDD	
6.3.6	Ignoring CSG cells in cell selection/reselection when Allowed CSG list is empty or not supported	Rel-8	R	UEs supporting E-UTRA	pc_eFDD	
					pc_eTDD	
<b>LAYER 2</b>						
7.1.1.1	CCCH mapped to UL SCH/ DL-SCH / Invalid LCID (Logical Channel ID)	Rel-8	R	UEs supporting E-UTRA	pc_eFDD	
					pc_eTDD	
7.1.1.2	DTCH or DCCH mapped to UL SCH/ DL-SCH / Invalid LCID (Logical Channel ID)	Rel-8	R	UEs supporting E-UTRA	pc_eFDD	
					pc_eTDD	
7.1.2.1	Correct Selection of RACH parameters / Random Access	Rel-8	R	UEs supporting E-UTRA	pc_eFDD	

Clause	TC Title	Release	Applicability		Additional Information	
			Condition	Comment	Specific ICS	Specific IXIT
	Preamble and PRACH resource explicitly signalled to the UE by RRC [Non Contention Based Random Access Procedure]					
7.1.2.2	Correct Selection of RACH parameters / Random Access Preamble and PRACH resource explicitly signalled to the UE in PDCCH Order [Non Contention Based Random Access Procedure]	Rel-8	R	UEs supporting E-UTRA	pc_eTDD pc_eFDD	
7.1.2.3	Correct Selection of RACH parameters, selected by MAC itself [Contention Based Random Access Procedure]	Rel-8	R	UEs supporting E-UTRA	pc_eTDD pc_eFDD	
7.1.2.4	Random Access Procedure: Successful	Rel-8	R	UEs supporting E-UTRA	pc_eTDD pc_eFDD	
7.1.2.5	Random Access Procedure: MAC PDU containing multiple RARs	Rel-8	R	UEs supporting E-UTRA	pc_eTDD pc_eFDD	
7.1.2.6	Maintenance of Uplink Time Alignment	Rel-8	R	UEs supporting E-UTRA	pc_eTDD pc_eFDD	
7.1.2.7	MAC-Contention Resolution[Temporary C-RNTI]	Rel-8	R	UEs supporting E-UTRA	pc_eTDD pc_eFDD	
7.1.2.8	MAC-Contention Resolution[C-RNTI]	Rel-8	R	UEs supporting E-UTRA	pc_eTDD pc_eFDD	
7.1.2.9	MAC-Backoff Indicator	Rel-8	R	UEs supporting E-UTRA	pc_eTDD pc_eFDD	
7.1.3.1	Correct handling of DL assignment / dynamic case	Rel-8	R	UEs supporting E-UTRA	pc_eTDD pc_eFDD	
7.1.3.2	Correct handling of DL assignment / semi persistent case [Conf Req:]	Rel-8	C15	UEs supporting E-UTRA and Feature Group Indicator 3 and 7	pc_eTDD pc_eFDD	
7.1.3.3	MAC PDU header handling	Rel-8	R	UEs supporting E-UTRA	pc_eTDD pc_eFDD	
7.1.3.4	Correct HARQ process handling [DCCH /DTCH]	Rel-8	R	UEs supporting E-UTRA	pc_eTDD pc_eFDD	
7.1.3.5	Correct HARQ process handling [CCCH]	Rel-8	R	UEs supporting E-UTRA	pc_eTDD pc_eFDD	
7.1.3.6	Correct HARQ process handling [BCCH]	Rel-8	R	UEs supporting E-UTRA	pc_eTDD pc_eFDD	
7.1.3.7	MAC-Padding	Rel-8	R	UEs supporting E-UTRA	pc_eTDD pc_eFDD	
7.1.3.9	MAC reset	Rel-8	R	UEs supporting E-UTRA	pc_eTDD pc_eFDD	
7.1.4.1	Correct handling of UL assignment / dynamic case	Rel-8	R	UEs supporting E-UTRA	pc_eTDD pc_eFDD	
7.1.4.2	Correct handling of UL assignment / semi persistent case	Rel-8	C18	UEs supporting E-UTRA and Feature Group Indicator 3 and 7	pc_eTDD pc_eFDD	

Clause	TC Title	Release	Applicability		Additional Information	
			Condition	Comment	Specific ICS	Specific IXIT
7.1.4.3	Logical channel prioritization handling	Rel-8	C19	UEs supporting E-UTRA and Feature Group Indicator 6	pc_eFDD	
					pc_eTDD	
7.1.4.4	Correct Handling of MAC control information [Scheduling Requests/ PUCCH]	Rel-8	R	UEs supporting E-UTRA	pc_eFDD	
					pc_eTDD	
7.1.4.5	Correct Handling of MAC control information [Scheduling Requests/Random Access Procedure]	Rel-8	R	UEs supporting E-UTRA	pc_eFDD	
					pc_eTDD	
7.1.4.6	Correct Handling of MAC control information [Buffer Status/ UL data arrives in the UE Tx buffer / Regular BSR]	Rel-8	R	UEs supporting E-UTRA	pc_eFDD	
					pc_eTDD	
7.1.4.7	Correct Handling of MAC control information [Buffer Status/ UL resources are allocated/ Padding BSR]	Rel-8	R	UEs supporting E-UTRA	pc_eFDD	
					pc_eTDD	
7.1.4.8	Correct Handling of MAC control information [Buffer Status/ Periodic BSR Timer expires]	Rel-8	R	UEs supporting E-UTRA	pc_eFDD	
					pc_eTDD	
7.1.4.10	MAC-Padding	Rel-8	R	UEs supporting E-UTRA	pc_eFDD	
					pc_eTDD	
7.1.4.11	Correct HARQ process handling	Rel-8	R	UEs supporting E-UTRA	pc_eFDD	
					pc_eTDD	
7.1.4.12	MAC reset	Rel-8	C16	UEs supporting E-UTRA and Feature Group Indicator 7	pc_eFDD	
					pc_eTDD	
7.1.4.13	MAC PDU header handling	Rel-8	R	UEs supporting E-UTRA	pc_eFDD	
					pc_eTDD	
7.1.4.14	Correct HARQ process handling: TTI Bundling	Rel-8	C15	UEs supporting E-UTRA and Feature Group Indicator 3 and 7	pc_eFDD	
					pc_eTDD	
7.1.4.15	UE Power HeadRoom Reporting [Periodic reporting]	Rel-8	R	UEs supporting E-UTRA	pc_eFDD	
					pc_eTDD	
7.1.4.16	UE Power HeadRoom Reporting [DL_Pathloss change reporting]	Rel-8	R	UEs supporting E-UTRA	pc_eFDD	
					pc_eTDD	
7.1.6.1	DRX Operation / (short cycle not configured) /Parameters configured by RRC (radio resource configuration)	Rel-8	C08	UEs supporting E-UTRA and Feature Group 5.	pc_eFDD	
					pc_eTDD	
7.1.6.2	DRX Operation / Parameters (short cycle not configured) / DRX command MAC control element reception	Rel-8	C08	UEs supporting E-UTRA and Feature Group 5.	pc_eFDD	
					pc_eTDD	
7.1.7.1.1	DL-SCH Transport Block Size selection / DCI format 1 / RA type 0	Rel-8	R	UEs supporting E-UTRA	pc_eFDD	
					pc_eTDD	
7.1.7.1.2	DL-SCH Transport Block Size selection / DCI format 1 / RA type 1	Rel-8	R	UEs supporting E-UTRA	pc_eFDD	
					pc_eTDD	
7.1.7.1.3	DL-SCH Transport Block Size selection / DCI format 1A /	Rel-8	R	UEs supporting E-UTRA	pc_eFDD	

Clause	TC Title	Release	Applicability		Additional Information	
			Condition	Comment	Specific ICS	Specific IXIT
	RA type 2 / Localised VRB					
7.1.7.1.4	DL-SCH Transport Block Size selection / DCI format 1A / RA type 2 / Distributed VRB	Rel-8	R	UEs supporting E-UTRA	pc_eTDD pc_eFDD	
7.1.7.2.1	UL-SCH Transport Block Size selection / DCI format 0	Rel-8	R	UEs supporting E-UTRA	pc_eTDD pc_eFDD	
7.2.2.1	UM RLC / Segmentation and Reassembly / 5-bit SN / "Framing Info Field"	Rel-8	C15	UEs supporting E-UTRA and Feature Group Indicator 3 and Feature Group Indicator 7	pc_eFDD pc_eTDD	
7.2.2.2	UM RLC / Segmentation and Reassembly / 10-bit SN / "Framing Info Field"	Rel-8	C16	UEs supporting E-UTRA and Feature Group Indicator 7	pc_eFDD pc_eTDD	
7.2.2.3	UM RLC / Reassembly / 5-bit SN / LI value > PDU size	Rel-8	C15	UEs supporting E-UTRA and Feature Group Indicator 3 and Feature Group Indicator 7	pc_eFDD pc_eTDD	
7.2.2.4	UM RLC / Reassembly / 10-bit SN / LI value > PDU size	Rel-8	C16	UEs supporting E-UTRA and Feature Group Indicator 7	pc_eFDD pc_eTDD	
7.2.2.5.1	UM RLC / 5-bit SN / Correct use of Sequence Numbering	Rel-8	C15	UEs supporting E-UTRA and Feature Group Indicator 3 and Feature Group Indicator 7	pc_eFDD pc_eTDD	
7.2.2.5.2	UM RLC / 10-bit SN / Correct use of Sequence Numbering	Rel-8	C16	UEs supporting E-UTRA and Feature Group Indicator 7	pc_eFDD pc_eTDD	
7.2.2.6	UM RLC / Concatenation, Segmentation and Reassembly	Rel-8	C16	UEs supporting E-UTRA and Feature Group Indicator 7	pc_eFDD pc_eTDD	
7.2.2.7	UM RLC / In sequence delivery of upper layer PDUs without residual loss of RLC PDUs / Maximum re-ordering delay below <i>t-Reordering</i>	Rel-8	C16	UEs supporting E-UTRA and Feature Group Indicator 7	pc_eFDD pc_eTDD	
7.2.2.8	UM RLC / In sequence delivery of upper layer PDUs without residual loss of RLC PDUs / Maximum re-ordering delay exceeds <i>t-Reordering</i>	Rel-8	C16	UEs supporting E-UTRA and Feature Group Indicator 7	pc_eFDD pc_eTDD	
7.2.2.9	UM RLC / In sequence delivery of upper layer PDUs with residual loss of RLC PDUs / Maximum re-ordering delay exceeds <i>t-Reordering</i>	Rel-8	C16	UEs supporting E-UTRA and Feature Group Indicator 7	pc_eFDD pc_eTDD	
7.2.2.10	UM RLC / Duplicate detection of RLC PDUs	Rel-8	C16	UEs supporting E-UTRA and Feature Group Indicator 7	pc_eFDD pc_eTDD	
7.2.2.11	UM RLC / RLC re-establishment procedure	Rel-8	C16	UEs supporting E-UTRA and Feature Group Indicator 7	pc_eFDD pc_eTDD	
7.2.3.1	AM RLC / Concatenation and Reassembly	Rel-8	R	UEs supporting E-UTRA	pc_eFDD	

Clause	TC Title	Release	Applicability		Additional Information	
			Condition	Comment	Specific ICS	Specific IXIT
					pc_eTDD	
7.2.3.2	AM RLC / Segmentation and Reassembly / No PDU segmentation	Rel-8	R	UEs supporting E-UTRA	pc_eFDD	
					pc_eTDD	
7.2.3.3	AM RLC / Segmentation and Reassembly / "Framing Info Field"	Rel-8	R	UEs supporting E-UTRA	pc_eFDD	
					pc_eTDD	
7.2.3.4	AM RLC / Segmentation and Reassembly / Different numbers of Length Indicators	Rel-8	R	UEs supporting E-UTRA	pc_eFDD	
					pc_eTDD	
7.2.3.5	AM RLC / Reassembly / LI value > PDU size	Rel-8	R	UEs supporting E-UTRA	pc_eFDD	
					pc_eTDD	
7.2.3.6	AM RLC / Correct use of Sequence Numbering	Rel-8	R	UEs supporting E-UTRA	pc_eFDD	
					pc_eTDD	
7.2.3.7	AM RLC / Control of Transmit Window	Rel-8	R	UEs supporting E-UTRA	pc_eFDD	
					pc_eTDD	
7.2.3.8	AM RLC / Control of Receive Window	Rel-8	R	UEs supporting E-UTRA	pc_eFDD	
					pc_eTDD	
7.2.3.9	AM RLC / Polling for status	Rel-8	R	UEs supporting E-UTRA	pc_eFDD	
					pc_eTDD	
7.2.3.10	AM RLC / Receiver Status Triggers	Rel-8	R	UEs supporting E-UTRA	pc_eFDD	
					pc_eTDD	
7.2.3.12	Void					
7.2.3.13	AM RLC / Reconfiguration of RLC parameters by upper layers	Rel-8	R	UEs supporting E-UTRA	pc_eFDD	
					pc_eTDD	
7.2.3.14	AM RLC / In sequence delivery of upper layers PDUs	Rel-8	R	UEs supporting E-UTRA	pc_eFDD	
					pc_eTDD	
7.2.3.15	AM RLC / Re-ordering of RLC PDU segments	Rel-8	R	UEs supporting E-UTRA	pc_eFDD	
					pc_eTDD	
7.2.3.16	AM RLC / Re-transmission of RLC PDU without re-segmentation	Rel-8	R	UEs supporting E-UTRA	pc_eFDD	
					pc_eTDD	
7.2.3.17	AM RLC / Re-segmentation RLC PDU / SO, FI, LSF	Rel-8	R	UEs supporting E-UTRA	pc_eFDD	
					pc_eTDD	
7.2.3.18	AM RLC / Reassembly / AMD PDU reassembly from AMD PDU segments; Segmentation Offset and Last Segment Flag fields	Rel-8	R	UEs supporting E-UTRA	pc_eFDD	
					pc_eTDD	
7.2.3.19	Void					
7.2.3.20	AM RLC / Duplicate detection of RLC PDUs	Rel-8	R	UEs supporting E-UTRA	pc_eFDD	
					pc_eTDD	
7.2.3.21	AM RLC / RLC re-establishment at RRC Connection reconfiguration including <i>mobilityControlInfo</i> IE	Rel-8	R	UEs supporting E-UTRA	pc_eFDD	
					pc_eTDD	
7.3.1.1	Maintenance of PDCP sequence numbers (user plane, RLC AM)	Rel-8	R	UEs supporting E-UTRA	pc_eFDD	
					pc_eTDD	

Clause	TC Title	Release	Applicability		Additional Information	
			Condition	Comment	Specific ICS	Specific IXIT
7.3.1.2	Maintenance of PDCP sequence numbers (user plane, RLC UM, short PDCP SN (7 bits))	Rel-8	C15	UEs supporting E-UTRA and Feature Group Indicator 3 and Feature Group Indicator 7	pc_eFDD	
					pc_eTDD	
7.3.1.3	Maintenance of PDCP sequence numbers (user plane, RLC UM, long PDCP SN (12 bits))	Rel-8	C16	UEs supporting E-UTRA and Feature Group Indicator 7	pc_eFDD	
					pc_eTDD	
7.3.3.1	Ciphering and Deciphering: Correct functionality of EPS AS encryption algorithms (SNOW 3G)	Rel-8	R	UEs supporting E-UTRA	pc_eFDD	
					pc_eTDD	
7.3.3.2	Ciphering and Deciphering: Correct functionality of EPS UP encryption algorithms (SNOW 3G)	Rel-8	R	UEs supporting E-UTRA	pc_eFDD	
					pc_eTDD	
7.3.3.3	Ciphering and Deciphering: Correct functionality of EPS AS encryption algorithms (AES)	Rel-8	R	UEs supporting E-UTRA	pc_eFDD	
					pc_eTDD	
7.3.3.4	Ciphering and Deciphering: Correct functionality of EPS UP encryption algorithms (AES)	Rel-8	R	UEs supporting E-UTRA	pc_eFDD	
					pc_eTDD	
7.3.4.1	Integrity protection: Correct functionality of EPS AS integrity algorithms (SNOW3G)	Rel-8	R	UEs supporting E-UTRA	pc_eFDD	
					pc_eTDD	
7.3.4.2	Integrity protection: Correct functionality of EPS AS integrity algorithms (AES)	Rel-8	R	UEs supporting E-UTRA	pc_eFDD	
					pc_eTDD	
7.3.5.1	Void					
7.3.5.2	PDCP handover / Lossless handover / PDCP Sequence Number maintenance	Rel-8	R	UEs supporting E-UTRA	pc_eFDD	
					pc_eTDD	
7.3.5.3	PDCP handover / Non-lossless handover / PDCP Sequence Number maintenance	Rel-8	C16	UEs supporting E-UTRA and Feature Group Indicator 7	pc_eFDD	
					pc_eTDD	
7.3.5.4	PDCP handover / Lossless handover / PDCP status report to convey the information on missing or acknowledged PDCP SDUs at handover	Rel-8	R	UEs supporting E-UTRA	pc_eFDD	
					pc_eTDD	
7.3.5.5	PDCP handover / In-order delivery and duplicate elimination in the downlink	Rel-8	R	UEs supporting E-UTRA	pc_eFDD	
					pc_eTDD	
7.3.6.1	PDCP Discard	Rel-8	C16	UEs supporting E-UTRA and Feature Group Indicator 7	pc_eFDD	
					pc_eTDD	
<b>8</b>	<b>RADIO RESOURCE CONTROL</b>					
8.1.1.1	RRC / Paging for Connection in idle mode	Rel-8	R	UEs supporting E-UTRA	pc_eFDD	
					pc_eTDD	
8.1.1.2	RRC / Paging for notification of BCCH modification in idle mode	Rel-8	R	UEs supporting E-UTRA	pc_eFDD	
					pc_eTDD	
8.1.1.3	RRC / Paging for Connection in idle mode (multiple paging)	Rel-8	R	UEs supporting E-UTRA	pc_eFDD	



Clause	TC Title	Release	Applicability		Additional Information	
			Condition	Comment	Specific ICS	Specific IXIT
	records)					
8.1.1.4	RRC / Paging for Connection in idle mode (Shared Network environment)	Rel-8	R	UEs supporting E-UTRA	pc_eTDD pc_eFDD	
8.1.2.1	RRC Connection Establishment: Success	Rel-8	R	UEs supporting E-UTRA	pc_eTDD pc_eFDD	
8.1.2.2	RRC Connection Establishment in RRC Idle state: Reject with wait time	Rel-8	R	UEs supporting E-UTRA	pc_eTDD pc_eFDD	
8.1.2.3	RRC Connection Establishment in RRC Idle state: return to idle state after T300 timeout	Rel-8	R	UEs supporting E-UTRA	pc_eTDD pc_eFDD	
8.1.2.5	RRC Connection Establishment: 0% access probability for MO calls, no restriction for MO signalling	Rel-8	R	UEs supporting E-UTRA	pc_eTDD pc_eFDD	
8.1.2.7	RRC Connection Establishment: 0% access probability for AC 0..9, AC 10 is barred, AC 11..15 are not barred, access for UE with access class in the range 11..15 is allowed.	Rel-8	R	UEs supporting E-UTRA	pc_eTDD pc_eFDD	
8.1.2.8	RRC Connection Establishment: range of access barring time	Rel-8	R	UEs supporting E-UTRA	pc_eTDD pc_eFDD	
8.1.2.10	RRC Connection Establishment during Cell reselection: Failure	Rel-8	R	UEs supporting E-UTRA	pc_eTDD pc_eFDD	
8.1.3.1	RRC / RRC Connection Release: Success	Rel-8	R	UEs supporting E-UTRA	pc_eTDD pc_eFDD	
8.1.3.3	Void					
8.1.3.4	RRC Connection Release: redirection to another E-UTRA frequency	Rel-8	R	UEs supporting E-UTRA	pc_eTDD pc_eFDD	
8.1.3.5	RRC Connection Release: success (with priority information)	Rel-8	R	UEs supporting E-UTRA	pc_eTDD pc_eFDD	
8.1.3.6	RRC Connection Release: redirection from E-UTRAN to UTRAN	Rel-8	C01	UEs supporting E-UTRA and UTRA	pc_eTDD pc_eFDD	
8.1.3.7	RRC Connection Release: redirection from UTRAN to E-UTRAN	Rel-8	C01	UEs supporting E-UTRA and UTRA	pc_eTDD pc_eFDD	
8.1.3.8	RRC Connection Release: redirection from E-UTRAN to GERAN	Rel-8	C05	UEs supporting E-UTRA and GERAN	pc_eTDD pc_eFDD	
8.1.3.9	RRC Connection Release: redirection from E-UTRAN to CDMA2000-HRPD	Rel-8	C06	UEs supporting E-UTRA and HRPD	pc_eTDD pc_eFDD	

Clause	TC Title	Release	Applicability		Additional Information	
			Condition	Comment	Specific ICS	Specific IXIT
8.1.3.10	RRC Connection Release: redirection from E-UTRAN to CDMA2000-1xRTT	Rel-8	C07	UEs supporting E-UTRA and 1xRTT	pc_eFDD	
					pc_eTDD	
8.2.1.1	RRC Connection Reconfiguration / Radio Bearer Establishment for transition from RRC_IDLE to RRC_CONNECTED: Success (Default bearer, early bearer establishment)	Rel-8	R	UEs supporting E-UTRA	pc_eFDD	
					pc_eTDD	
8.2.1.3	RRC Connection Reconfiguration / Radio Bearer Establishment: Success (Dedicated bearer)	Rel-8	R	UEs supporting E-UTRA	pc_eFDD	
					pc_eTDD	
8.2.1.7	RRC Connection Reconfiguration / Radio Bearer Establishment: Success (SRB2)	Rel-8	R	UEs supporting E-UTRA	pc_eFDD	
					pc_eTDD	
8.2.2.1	RRC Connection Reconfiguration / Radio Resource Reconfiguration: Success	Rel-8	R	UEs supporting E-UTRA	pc_eFDD	
					pc_eTDD	
8.2.2.2	RRC Connection Reconfiguration / SRB/DRB Reconfiguration: Success	Rel-8	R	UEs supporting E-UTRA	pc_eFDD	
					pc_eTDD	
8.2.3.1	RRC Connection Reconfiguration / Radio Bearer Release: Success	Rel-8	R	UEs supporting E-UTRA	pc_eFDD	
					pc_eTDD	
8.2.4.1	RRC Connection Reconfiguration / Handover: Success (Dedicated preamble)	Rel-8	R	UEs supporting E-UTRA	pc_eFDD	
					pc_eTDD	
8.2.4.2	RRC Connection Reconfiguration / Handover: Success (Common preamble)	Rel-8	R	UEs supporting E-UTRA	pc_eFDD	
					pc_eTDD	
8.2.4.3	RRC Connection Reconfiguration / Handover: success (intra-cell, security reconfiguration)	Rel-8	R	UEs supporting E-UTRA	pc_eFDD	
					pc_eTDD	
8.2.4.4	RRC Connection Reconfiguration / Handover: failure (intra-cell, security reconfiguration)	Rel-8	R	UEs supporting E-UTRA	pc_eFDD	
					pc_eTDD	
8.2.4.5	RRC Connection Reconfiguration / Handover (all parameters included)	Rel-8	R	UEs supporting E-UTRA	pc_eFDD	
					pc_eTDD	
8.2.4.6	RRC Connection Reconfiguration / Handover: Success (inter-frequency)	Rel-8	C21	UEs supporting E-UTRA and Feature Group Indicator 13 and Feature Group Indicator 25	pc_eFDD	
					pc_eTDD	
8.2.4.7	RRC Connection Reconfiguration / Handover: Failure (Re-establishment successful)	Rel-8	R	UEs supporting E-UTRA	pc_eFDD	
					pc_eTDD	
8.2.4.8	RRC Connection Reconfiguration / Handover: Failure (re-establishment failure)	Rel-8	R	UEs supporting E-UTRA	pc_eFDD	
					pc_eTDD	
8.2.4.9	RRC Connection Reconfiguration / Handover (Inter-band	Rel-8	C21	UEs supporting E-UTRA and	pc_eFDD	

Clause	TC Title	Release	Applicability		Additional Information	
			Condition	Comment	Specific ICS	Specific IXIT
	blind handover): Success			Feature Group Indicator 13 and Feature Group Indicator 25		

Clause	TC Title	Release	Applicability		Additional Information	
			Condition	Comment	Specific ICS	Specific IXIT
8.3.1.1	Measurement configuration control and reporting/ intra E-UTRAN measurements: event A1	Rel-8	C09	UEs supporting E-UTRA and Feature Group Indicator 16	pc_eTDD	
					pc_eFDD	
8.3.1.2	Measurement configuration control and reporting/ intra E-UTRAN measurements: event A2	Rel-8	C09	UEs supporting E-UTRA and Feature Group Indicator 16	pc_eTDD	
					pc_eFDD	
8.3.1.3	Measurement configuration control and reporting / intra E-UTRAN measurements: 2 simultaneous events A3 (intra and inter frequency measurements)	Rel-8	C10	UEs supporting E-UTRA and Feature Group Indicator 25	pc_eTDD	
					pc_eFDD	
8.3.1.4	Measurement configuration control and reporting / intra E-UTRAN measurements: Periodic reporting (intra and inter frequency measurements)	Rel-8	C11	UEs supporting E-UTRA and Feature Group Indicator 16 and Feature Group Indicator 25	pc_eTDD	
					pc_eFDD	
8.3.1.5	Measurement configuration control and reporting / intra E-UTRAN measurements: 2 simultaneous event A3 (intra frequency measurements)	Rel-8	R	UEs supporting E-UTRA	pc_eTDD	
					pc_eFDD	
8.3.1.6	Measurement configuration control and reporting / intra E-UTRAN measurements: 2 simultaneous events A2 and A3 (Inter frequency measurements)	Rel-8	C10	UEs supporting E-UTRA and Feature Group Indicator 25	pc_eTDD	
					pc_eFDD	
8.3.1.7	Measurement configuration control and reporting/ intra E-UTRAN measurements: blacklisting	Rel-8	R	UEs supporting E-UTRA	pc_eTDD	
					pc_eFDD	
8.3.1.8	Measurement configuration control and reporting / intra E-UTRAN measurements: handover (IE measurement configuration present)	Rel-8	C09	UEs supporting E-UTRA and Feature Group Indicator 16	pc_eTDD	
					pc_eFDD	
8.3.1.9	Measurement configuration control and reporting / intra E-UTRAN measurements: intra-frequency handover (IE measurement configuration not present)	Rel-8	C11	UEs supporting E-UTRA and Feature Group Indicator 16 and Feature Group Indicator 25	pc_eTDD	
					pc_eFDD	
8.3.1.10	Measurement configuration control and reporting / intra E-UTRAN measurements: inter-frequency handover (IE measurement configuration not present)	Rel-8	C12	UEs supporting E-UTRA and Feature Group Indicator 13 and Feature Group Indicator 16 and Feature Group Indicator 25	pc_eTDD	
					pc_eFDD	
8.3.1.11	Measurement configuration control and reporting / intra E-UTRAN measurements: continuation of the measurements after RRC Connection Re-establishment	Rel-8	R	UEs supporting E-UTRA	pc_eTDD	
					pc_eFDD	
8.3.2.1	Measurement configuration control and reporting / inter RAT measurements: event B2 (measurement of GERAN	Rel-8	C20	UEs supporting E-UTRA and GERAN and Feature Group	pc_eTDD	

Clause	TC Title	Release	Applicability		Additional Information	
			Condition	Comment	Specific ICS	Specific IXIT
	cells)			Indicator 16 and Feature Group Indicator 23		
					pc_eTDD	
8.3.2.3	Measurement configuration control and reporting / inter RAT measurements: event B2 (measurement of UTRAN cells)	Rel-8	C13	UEs supporting E-UTRA and UTRA and Feature Group Indicator 16 and Feature Group Indicator 22	pc_eFDD	
					pc_eTDD	
8.3.2.4	Measurement configuration control and reporting / inter RAT measurements: Periodic reporting (measurement of UTRAN cells)	Rel-8	C13	UEs supporting E-UTRA and UTRA and Feature Group Indicator 16 and Feature Group Indicator 22	pc_eFDD	
					pc_eTDD	
8.3.2.6	Measurement configuration control and reporting / inter RAT measurements: Simultaneous A2 and two B2 (measurements of E-UTRAN, UTRAN and GERAN cells)	Rel-8	C17	UEs supporting E-UTRA, UTRAN, GERAN and Feature Group Indicators 22 and 23	pc_eFDD	
					pc_eTDD	
8.3.2.7	Measurement configuration control and reporting / inter RAT measurements: event B2 (measurement of HRPD cells)	Rel-8	C24	UEs supporting E-UTRA and HRPD and Feature Group Indicator 16 and Feature Group Indicator 26	pc_eFDD	
					pc_eFDD	
8.3.2.8	Measurement configuration control and reporting / inter RAT measurements: periodic reporting (measurement of HRPD cells)	Rel-8	C24	UEs supporting E-UTRA and HRPD and Feature Group Indicator 16 and Feature Group Indicator 26	pc_eFDD	
					pc_eFDD	
8.3.2.9	Measurement configuration control and reporting / inter RAT measurements: event B2 (measurement of 1xRTT cells)	Rel-8	C25	UEs supporting E-UTRA and 1xRTT and Feature Group Indicator 16 and Feature Group Indicator 24	pc_eFDD	
					pc_eTDD	
8.3.3.1	Measurement configuration control and reporting / SON / ANR: CGI reporting of E-UTRAN cell	Rel-8	C14	UEs supporting E-UTRA and Feature Group Indicator 5 and Feature Group Indicator 17	pc_eFDD	
					pc_eTDD	
8.3.3.2	Measurement configuration control and reporting / SON / ANR: CGI reporting of UTRAN cell	Rel-8	C39	UEs supporting E-UTRA and UTRA and Feature Group Indicator 5 and Feature Group Indicator 19 and Feature Group 22	pc_eFDD	
					pc_eTDD	
8.3.3.3	Measurement configuration control and reporting / SON / ANR: CGI reporting of GERAN cell	Rel-8	C40	UEs supporting E-UTRA and GERAN and Feature Group Indicator 5 and Feature Group Indicator 19 and Feature Group 23	pc_eFDD	
					pc_eTDD	
8.3.3.4	Measurement configuration control and reporting / SON / ANR: CGI reporting of HRPD cell	Rel-8	C44	UEs supporting E-UTRA and HRPD and Feature Group	pc_eFDD	

Clause	TC Title	Release	Applicability		Additional Information	
			Condition	Comment	Specific ICS	Specific IXIT
				Indicator 5 and Feature Group Indicator 19 and Feature Group Indicator 26	pc_eTDD	
8.3.3.5	Measurement configuration control and reporting / SON / ANR: CGI reporting of 1xRTT cell	Rel-8	C45	UEs supporting E-UTRA and 1xRTT and Feature Group Indicator 5 and Feature Group Indicator 19 and Feature Group Indicator 24	pc_eFDD	
					pc_eTDD	
8.4.1.2	Inter-RAT Handover / from E-UTRA to UTRA (PS) / Data	Rel-8	C36	UEs supporting E-UTRA and UTRA and Feature Group Indicator 8 and Feature Group Indicator 22	pc_eFDD	
					pc_eTDD	
8.4.1.4	Inter-RAT Handover / from E-UTRA to UTRA (HSPA) / Data	Rel-8	C36	UEs supporting E-UTRA and UTRA and Feature Group Indicator 8 and Feature Group Indicator 22	pc_eFDD	
					pc_eTDD	
8.4.2.2	Inter-RAT Handover / from UTRA (PS) to E-UTRA / Data	Rel-8	C37	UEs supporting E-UTRA and UTRA and inter-RAT PS handover to E-UTRA from UTRA	pc_eFDD	
					pc_eTDD	
8.4.2.4	Inter-RAT Handover / from UTRA (HSPA) to E-UTRA / Data	Rel-8	C37	UEs supporting E-UTRA and UTRA and inter-RAT PS handover to E-UTRA from UTRA	pc_eFDD	
					pc_eTDD	
8.4.3.2	Inter-RAT Cell Change Order / from E-UTRA (data) RRC_CONNECTED to GPRS without NACC	Rel-8	C38	UEs supporting E-UTRA and GSM and Feature Group Indicator 10	pc_eFDD	
					pc_eTDD	
8.4.7.3	Pre-Registration at 1xRTT and Inter-RAT Handover / CS fallback from E-UTRA RRC_IDLE to 1xRTT	Rel-8	C41	UEs supporting E-UTRA and 1xRTT and 1xCS fallback	pc_eFDD	
					pc_eTDD	
8.4.7.4	Pre-Registration at 1xRTT and Inter-RAT handover / CS fallback caused by addition of CS service / from E-UTRA (Data) to 1xRTT	Rel-8	C41	UEs supporting E-UTRA and 1xRTT and 1xCS fallback	pc_eFDD	
					pc_eTDD	
8.4.5.4	Pre-Registration at HRPD and Inter-RAT handover / from E-UTRA to HRPD Active / Data	Rel-8	C42	UEs supporting E-UTRA and HRPD and Feature Group Indicator 12	pc_eFDD	
					pc_eTDD	
8.5.1.1	RRC Connection Re-establishment: Success (after Radio Link Failure)	Rel-8	R	UEs supporting E-UTRA	pc_eFDD	
					pc_eTDD	
8.5.1.2	RRC Connection Re-establishment: End of procedure after T301 expiry (after Radio Link Failure)	Rel-8	R	UEs supporting E-UTRA	pc_eFDD	

Clause	TC Title	Release	Applicability		Additional Information	
			Condition	Comment	Specific ICS	Specific IXIT
					pc_eTDD	
8.5.1.3	RRC Connection Re-establishment: Failure: T311 Expiry (after Radio Link Failure)	Rel-8	R	UEs supporting E-UTRA	pc_eFDD	
					pc_eTDD	
8.5.1.4	RRC Connection Re-establishment: Failure: Reject (after Radio Link Failure)	Rel-8	R	UEs supporting E-UTRA	pc_eFDD	
					pc_eTDD	
8.5.1.5	Radio Link Recovery while T310 is running	Rel-8	R	UEs supporting E-UTRA	pc_eFDD	
					pc_eTDD	
<b>9</b>	<b>EPS MOBILITY MANAGEMENT PROCEDURE</b>					
9.1.1.1	Void					
9.1.1.2	Void					
9.1.2.1	Authentication accepted	Rel-8	R	UEs supporting E-UTRA	pc_eFDD	
					pc_eTDD	
9.1.2.2	Void					
9.1.2.3	Authentication not accepted by the network, GUTI used, authentication reject and re-authentication	Rel-8	R	UEs supporting E-UTRA	pc_eFDD	
					pc_eTDD	
9.1.2.4	Authentication not accepted by the UE, MAC code failure	Rel-8	R	UEs supporting E-UTRA	pc_eFDD	
					pc_eTDD	
9.1.2.5	Authentication not accepted by the UE, SQN failure	Rel-8	R	UEs supporting E-UTRA	pc_eFDD	
					pc_eTDD	
9.1.2.6	Abnormal cases / Network failing the authentication check	Rel-8	R	UEs supporting E-UTRA	pc_eFDD	
					pc_eTDD	
9.1.3.1	NAS security mode command accepted by the UE	Rel-8	R	UEs supporting E-UTRA	pc_eFDD	
					pc_eTDD	
9.1.3.2	NAS security mode command not accepted by the UE	Rel-8	R	UEs supporting E-UTRA	pc_eFDD	
					pc_eTDD	
9.1.4.2	Identification procedure, IMEI requested	Rel-8	R	UEs supporting E-UTRA	pc_eFDD	
					pc_eTDD	
9.1.5.2	EMM information procedure not supported by the UE	Rel-8	C46	UEs supporting E-UTRA and does not support the EMM information message	pc_eFDD	
					pc_eTDD	
9.2.1.1.1	Attach Procedure / Success (valid GUTI)	Rel-8	C04	UEs supporting E-UTRA and PS mode of operation	pc_eFDD	
					pc_eTDD	
9.2.1.1.1a	Attach Procedure / Success (last visited TAI, TAI list and equivalent PLMN list handling)	Rel-8	R	UEs supporting E-UTRA	pc_eFDD	
					pc_eTDD	
9.2.1.1.2	Attach Procedure / Success / With IMSI, GUTI reallocation	Rel-8	C04	UEs supporting E-UTRA and PS mode of operation	pc_eFDD	
					pc_eTDD	
9.2.1.1.5	Attach Procedure / Success / ATTACH ACCEPT message includes the PDN address assigned to the UE	Rel-8	C04	UEs supporting E-UTRA and PS mode of operation	pc_eFDD	

Clause	TC Title	Release	Applicability		Additional Information	
			Condition	Comment	Specific ICS	Specific IXIT
					pc_eTDD	
9.2.1.1.7	Attach Procedure / Success / list of equivalent PLMNs in the ATTACH ACCEPT message	Rel-8	C04	UEs supporting E-UTRA and PS mode of operation	pc_eFDD	
					pc_eTDD	
9.2.1.1.9	Attach / rejected / IMSI invalid	Rel-8	C04	UEs supporting E-UTRA and PS mode of operation	pc_eFDD	
					pc_eTDD	
9.2.1.1.10	Attach / rejected / illegal ME	Rel-8	C04	UEs supporting E-UTRA and PS mode of operation	pc_eFDD	
					pc_eTDD	
9.2.1.1.11	Attach / rejected / EPS services and non-EPS services not allowed	Rel-8	C04	UEs supporting E-UTRA and PS mode of operation	pc_eFDD	
					pc_eTDD	
9.2.1.1.12	Attach / rejected / EPS services not allowed	Rel-8	C04	UEs supporting E-UTRA and PS mode of operation	pc_eFDD	
					pc_eTDD	
9.2.1.1.13	Attach / rejected / PLMN not allowed	Rel-8	C04	UEs supporting E-UTRA and PS mode of operation	pc_eFDD	
					pc_eTDD	
9.2.1.1.14	Attach / rejected / tracking area not allowed	Rel-8	C04	UEs supporting E-UTRA and PS mode of operation	pc_eFDD	
					pc_eTDD	
9.2.1.1.15	Attach / rejected / roaming not allowed in this tracking area	Rel-8	C04	UEs supporting E-UTRA and PS mode of operation	pc_eFDD	
					pc_eTDD	
9.2.1.1.17	Attach / rejected / no suitable cells in tracking area	Rel-8	C04	UEs supporting E-UTRA and PS mode of operation	pc_eFDD	
					pc_eTDD	
9.2.1.1.18	Attach / rejected / Not authorized for this CSG	Rel-8	C47	UEs supporting E-UTRA and allowed CSG list	pc_eFDD	
					pc_eTDD	
9.2.1.1.19	Attach / Abnormal case / Failure due to non integrity protection	Rel-8	C04	UEs supporting E-UTRA and PS mode of operation	pc_eFDD	
					pc_eTDD	
9.2.1.1.20	Attach / Abnormal case / Access barred because of access class barring or NAS signalling connection establishment rejected by the network	Rei-8	C04	UEs supporting E-UTRA and not CS fallback capable	pc_eFDD	
					pc_eTDD	
9.2.1.1.21	Attach / Abnormal case / success after several attempts due to no network response	Rei-8	C04	UEs supporting E-UTRA and PS mode of operation	pc_eFDD	
					pc_eTDD	
9.2.1.1.22	Attach / Abnormal case / unsuccessful attach after 5 attempts	Rei-8	C04	UEs supporting E-UTRA and PS mode of operation	pc_eFDD	
					pc_eTDD	
9.2.1.1.24	Attach / Abnormal case / Change of cell into a new tracking area	Rei-8	C04	UEs supporting E-UTRA and PS mode of operation	pc_eFDD	
					pc_eTDD	
9.2.1.1.25	Attach / Abnormal case / Mobile originated detach required	Rel-8	C04	UEs supporting E-UTRA and PS mode of operation	pc_eFDD	



Clause	TC Title	Release	Applicability		Additional Information	
			Condition	Comment	Specific ICS	Specific IXIT
					pc_eTDD	
9.2.1.1.26	Attach / Abnormal case / Detach procedure collision	Rel-8	C04	UEs supporting E-UTRA and PS mode of operation	pc_eFDD	
					pc_eTDD	
9.2.1.2.1	Combined attach procedure / Success / EPS and non-EPS services	Rel-8	C02	UEs supporting E-UTRA and combined attach	pc_eFDD	
					pc_eTDD	
9.2.1.2.2	Combined attach procedure / Success / EPS services only / IMSI unknown in HSS	Rel-8	C02	UEs supporting E-UTRA and combined attach	pc_eFDD	
					pc_eTDD	
9.2.1.2.3	Combined attach procedure / Success / EPS services only / MSC temporarily not reachable	Rel-8	C02	UEs supporting E-UTRA and combined attach	pc_eFDD	
					pc_eTDD	
9.2.1.2.4	Combined attach procedure / Success / EPS services only / CS domain not available	Rel-8	C02	UEs supporting E-UTRA and combined attach	pc_eFDD	
					pc_eTDD	
9.2.1.2.5	Combined attach / rejected / IMSI invalid	Rel-8	C02	UEs supporting E-UTRA and combined attach	pc_eFDD	
					pc_eTDD	
9.2.1.2.6	Combined attach / rejected / Illegal ME	Rel-8	C02	UEs supporting E-UTRA and combined attach	pc_eFDD	
					pc_eTDD	
9.2.1.2.7	Combined attach / rejected / EPS services and non-EPS services not allowed	Rel-8	C02	UEs supporting E-UTRA and combined attach	pc_eFDD	
					pc_eTDD	
9.2.1.2.8	Combined attach / rejected / EPS services not allowed	Rel-8	C02	UEs supporting E-UTRA and combined attach	pc_eFDD	
					pc_eTDD	
9.2.1.2.9	Combined attach / rejected / PLMN not allowed	Rel-8	C02	UEs supporting E-UTRA and combined attach	pc_eFDD	
					pc_eTDD	
9.2.1.2.10	Combined attach / rejected / Tracking area not allowed	Rel-8	C02	UEs supporting E-UTRA and combined attach	pc_eFDD	
					pc_eTDD	
9.2.1.2.11	Combined attach / rejected / Roaming not allowed in this tracking area	Rel-8	C02	UEs supporting E-UTRA and combined attach	pc_eFDD	
					pc_eTDD	
9.2.1.2.12	Combined attach / rejected / EPS services not allowed in this PLMN	Rel-8	C02	UEs supporting E-UTRA and combined attach	pc_eFDD	
					pc_eTDD	
9.2.1.2.13	Combined attach / rejected / No suitable cells in tracking area	Rel-8	C02	UEs supporting E-UTRA and combined attach	pc_eFDD	
					pc_eTDD	
9.2.1.2.15	Combined attach / Abnormal case / handling of the EPS attach attempt counter	Rel-8	C02	UEs supporting E-UTRA and combined attach	pc_eFDD	
					pc_eTDD	
9.2.2.1.1	UE initiated detach / UE switched off	Rel-8	R	UEs supporting E-UTRA	pc_eFDD	
					pc_eTDD	

Clause	TC Title	Release	Applicability		Additional Information	
			Condition	Comment	Specific ICS	Specific IXIT
9.2.2.1.2	UE initiated detach / USIM removed from the UE	Rel-8	C03	UEs supporting E-UTRA and USIM removal without power down	pc_eFDD, pc_USIM_Removal	
					pc_eTDD, pc_USIM_Removal	
9.2.2.1.6	UE initiated detach / Abnormal case / local detach after 5 attempts due to no network response	Rel-8	R	UEs supporting E-UTRA	pc_eFDD	
					pc_eTDD	
9.2.2.2.1	NW initiated detach / re-attach required	Rel-8	R	UEs supporting E-UTRA	pc_eFDD	
					pc_eTDD	
9.2.2.2.2	NW initiated detach / IMSI detach	Rel-8	C02	UEs supporting E-UTRA and combined attach	pc_eFDD	
					pc_eTDD	
9.2.2.2.14	NW initiated detach / Abnormal case / EMM cause not included	Rel-8	R	UEs supporting E-UTRA	pc_eFDD	
					pc_eTDD	
9.2.3.1.1	Normal tracking area update / accepted	Rel-8	C04	UEs supporting E-UTRA and PS mode of operation	pc_eFDD	
					pc_eTDD	
9.2.3.1.2	Normal tracking area update / accepted / 'Active' flag set	Rel-8	R	UEs supporting E-UTRA and EPS only mode of operation	pc_eFDD	
					pc_eTDD	
9.2.3.1.4	Normal tracking area update / list of equivalent PLMNs in the TRACKING AREA UPDATE ACCEPT message	Rel-8	R	UEs supporting E-UTRA	pc_eFDD	
					pc_eTDD	
9.2.3.1.5	Periodic tracking area update / accepted	Rel-8	R	UEs supporting E-UTRA	pc_eFDD	
					pc_eTDD	
9.2.3.1.6	Normal tracking area update / UE with ISR active moves to E-UTRAN	Rel-8	C27	UEs supporting E-UTRA and UTRAN or GERAN and ISR	pc_eFDD	
					pc_eTDD	
9.2.3.1.8	UE receives an indication that the RRC connection was released with cause "load balancing TAU required"	Rel-8	R	UEs supporting E-UTRA	pc_eFDD	
					pc_eTDD	
9.2.3.1.9a	Normal tracking area update / NAS signalling connection recovery	Rel-8	R	UEs supporting E-UTRA	pc_eFDD	
					pc_eTDD	
9.2.3.1.10	Normal tracking area update / rejected / IMSI invalid	Rel-8	C04	UEs supporting E-UTRA and PS mode of operation	pc_eFDD	
					pc_eTDD	
9.2.3.1.11	Normal tracking area update / rejected / illegal ME	Rel-8	C04	UEs supporting E-UTRA and PS mode of operation	pc_eFDD	
					pc_eTDD	
9.2.3.1.12	Normal tracking area update / rejected / EPS service not allowed	Rel-8	C04	UEs supporting E-UTRA and PS mode of operation	pc_eFDD	
					pc_eTDD	
9.2.3.1.13	Normal tracking area update / rejected / UE identity cannot be derived by the network	Rel-8	C04	UEs supporting E-UTRA and PS mode of operation	pc_eFDD	
					pc_eTDD	
9.2.3.1.14	Normal tracking area update / rejected / UE implicitly	Rel-8	C04	UEs supporting E-UTRA and	pc_eFDD	

Clause	TC Title	Release	Applicability		Additional Information	
			Condition	Comment	Specific ICS	Specific IXIT
	detached			PS mode of operation		
9.2.3.1.15	Normal tracking area update / rejected / PLMN not allowed	Rel-8	C04	UEs supporting E-UTRA and PS mode of operation	pc_eTDD	
9.2.3.1.16	Normal tracking area update / rejected / tracking area not allowed	Rel-8	C04	UEs supporting E-UTRA and PS mode of operation	pc_eFDD	
9.2.3.1.17	Normal tracking area update / rejected / Roaming not allowed in this tracking area	Rel-8	C04	UEs supporting E-UTRA and PS mode of operation	pc_eTDD	
9.2.3.1.18	Normal tracking area update / rejected / EPS services not allowed in this PLMN	Rel-8	C04	UEs supporting E-UTRA and PS mode of operation	pc_eFDD	
9.2.3.1.19	Normal tracking area update / rejected / No Suitable Cells in tracking Area	Rel-8	C04	UEs supporting E-UTRA and PS mode of operation	pc_eTDD	
9.2.3.1.23	Normal tracking area update / abnormal case / Success after several attempts due to no network response / TA belongs to TAI list and status is UPDATED	Rel-8	R	UEs supporting E-UTRA	pc_eFDD	
9.2.3.1.25	Normal tracking area update / abnormal case / Failure after 5 attempts due to no network response	Rel-8	R	UEs supporting E-UTRA	pc_eTDD	
9.2.3.1.26	Normal tracking area update / abnormal case / TRACKING AREA UPDATE REJECT	Rel-8	R	UEs supporting E-UTRA	pc_eFDD	
9.2.3.1.27	Normal tracking area update / abnormal case / Change of cell into a new tracking area	Rel-8	R	UEs supporting E-UTRA	pc_eTDD	
9.2.3.1.28	Normal tracking area update / abnormal case / Tracking area updating and detach procedure collision	Rel-8	R	UEs supporting E-UTRA	pc_eFDD	
9.2.3.2.1	Combined tracking area update / successful	Rel-8	C02	UEs supporting E-UTRA and combined attach	pc_eTDD	
9.2.3.2.3	Combined tracking area update / successful for EPS services only / MSC temporarily not reachable	Rel-8	C02	UEs supporting E-UTRA and combined attach	pc_eFDD	
9.2.3.2.6	Combined tracking area update / rejected / Illegal ME	Rel-8	C02	UEs supporting E-UTRA and combined attach	pc_eTDD	
9.2.3.2.9	Combined tracking area update / rejected / UE identity cannot be derived by the network	Rel-8	C02	UEs supporting E-UTRA and combined attach	pc_eFDD	
9.2.3.2.10	Combined tracking area update / rejected / UE implicitly detached	Rel-8	C02	UEs supporting E-UTRA and combined attach	pc_eTDD	
9.2.3.2.12	Combined tracking area update / rejected / Tracking area	Rel-8	C02	UEs supporting E-UTRA and	pc_eFDD	

Clause	TC Title	Release	Applicability		Additional Information	
			Condition	Comment	Specific ICS	Specific IXIT
	not allowed			combined attach		
9.2.3.2.15	Combined tracking area update / rejected / No suitable cells in tracking area	Rel-8	C02	UEs supporting E-UTRA and combined attach	pc_eTDD pc_eFDD	
9.2.3.3.1	First lu mode to S1 mode intersystem change after attach; go to E-UTRAN RRC idle; RAU to UTRAN	Rel-8	C01	UEs supporting E-UTRA and UTRA	pc_eTDD pc_eFDD	
9.2.3.3.5	Periodic Routing Area Update	Rel-8	C27	UEs supporting E-UTRA and UTRAN or GERAN and ISR	pc_eTDD pc_eFDD	
9.2.3.4.1	TAU/RAU procedure for inter-system cell re-selection between A/Gb and S1 modes	Rel-8	C05	UEs supporting E-UTRA and GERAN	pc_eTDD pc_eFDD	
9.3.1.1	Service Request initiated by UE for user data	Rel-8	R	UEs supporting E-UTRA	pc_eTDD pc_eFDD	
9.3.1.2	Service Request initiated by UE for uplink signalling	Rel-8	R	UEs supporting E-UTRA	pc_eTDD pc_eFDD	
9.3.1.3	Service Request / Mobile originating CS fallback	Rel-8	C26	UEs supporting E-UTRA and CS fallback	pc_eTDD pc_eFDD	
9.3.1.4	Service Request / Rejected / IMSI invalid	Rel-8	C02	UEs supporting E-UTRA and combined attach	pc_eTDD pc_eFDD	
9.3.1.7	Service Request / Rejected / UE identity cannot be derived by the network	Rel-8	R	UEs supporting E-UTRA	pc_eTDD pc_eFDD	
9.3.1.7a	Service Request / Rejected / UE implicitly detached	Rel-8	R	UEs supporting E-UTRA	pc_eTDD pc_eFDD	
9.3.1.15	Service Request / abnormal case / Tracking area update procedure is triggered	Rel-8	R	UEs supporting E-UTRA	pc_eTDD pc_eFDD	
9.3.1.16	Service Request / abnormal case / Switch off	Rel-8	R	UEs supporting E-UTRA	pc_eTDD pc_eFDD	
9.3.1.17	Service Request / abnormal case / Procedure collision	Rel-8	R	UEs supporting E-UTRA	pc_eTDD pc_eFDD	
9.3.2.1	Paging procedure	Rel-8	R	UEs supporting E-UTRA	pc_eTDD pc_eFDD	
9.3.2.2	Paging for CS fallback / Idle mode	Rel-8	C26	UEs supporting E-UTRA and CS fallback	pc_eTDD pc_eFDD	
9.4.1	Integrity protection: Correct functionality of EPS NAS integrity algorithm (SNOW3G)	Rel-8	R	UEs supporting E-UTRA	pc_eTDD pc_eFDD	
9.4.2	Integrity protection: Correct functionality of EPS NAS integrity algorithm (AES)	Rel-8	R	UEs supporting E-UTRA	pc_eTDD pc_eFDD	

Clause	TC Title	Release	Applicability		Additional Information	
			Condition	Comment	Specific ICS	Specific IXIT
9.4.3	Ciphering and Deciphering: Correct functionality of EPS NAS encryption algorithm (SNOW3G)	Rel-8	R	UEs supporting E-UTRA	pc_eFDD	
					pc_eTDD	
9.4.4	Ciphering and Deciphering: Correct functionality of EPS NAS encryption algorithm (AES)	Rel-8	R	UEs supporting E-UTRA	pc_eFDD	
					pc_eTDD	
<b>10</b>	<b>EPS Session Management</b>					
10.2.1	Dedicated EPS bearer context activation / Success	Rel-8	R	UEs supporting E-UTRA	pc_eFDD	
					pc_eTDD	
10.3.1	EPS bearer context modification / Success	Rel-8	R	UEs supporting E-UTRA	pc_eFDD	
					pc_eTDD	
10.4.1	EPS bearer context deactivation / Success	Rel-8	R	UEs supporting E-UTRA	pc_eFDD	
					pc_eTDD	
10.5.1	UE requested PDN connectivity accepted by the network	Rel-8	R	UEs supporting E-UTRA	pc_eFDD	
					pc_eTDD	
10.5.2	UE requested PDN connectivity accepted by the network / No PDN address allocated	Rel-8	R	UEs supporting E-UTRA	pc_eFDD	
					pc_eTDD	
10.5.3	UE requested PDN connectivity not accepted	Rel-8	R	UEs supporting E-UTRA	pc_eFDD	
					pc_eTDD	
10.6.1	UE requested PDN disconnect procedure accepted by the network	Rel-8	R	UEs supporting E-UTRA	pc_eFDD	
					pc_eTDD	
10.6.2	UE requested PDN disconnect procedure not accepted by the network	Rel-8	R	UEs supporting E-UTRA	pc_eFDD	
					pc_eTDD	
10.7.1	UE requested bearer resource modification accepted by the network / new EPS bearer context	Rel-8	R	UEs supporting E-UTRA	pc_eFDD	
					pc_eTDD	
10.7.3	UE requested bearer resource allocation accepted by the network / no context for received PT1	Rel-8	R	UEs supporting E-UTRA	pc_eFDD	
					pc_eTDD	
10.7.4	UE requested bearer resource allocation / Expiry of timer T3480	Rel-8	R	UEs supporting E-UTRA	pc_eFDD	
					pc_eTDD	
10.7.5	UE requested bearer resource allocation / BEARER RESOURCE ALLOCATION REJECT message including cause #43, "unknown EPS bearer context"	Rel-8	R	UEs supporting E-UTRA	pc_eFDD	
					pc_eTDD	
10.8.2	UE requested bearer resource modification accepted by the network / existing EPS bearer context	Rel-8	R	UEs supporting E-UTRA	pc_eFDD	
					pc_eTDD	
10.8.3	UE requested bearer resource modification not accepted by the network	Rel-8	R	UEs supporting E-UTRA	pc_eFDD	
					pc_eTDD	
10.8.4	UE requested bearer resource modification / cause #36, "regular deactivation"	Rel-8	R	UEs supporting E-UTRA	pc_eFDD	
					pc_eTDD	
10.8.5	UE requested bearer resource modification / BEARER	Rel-8	R	UEs supporting E-UTRA	pc_eFDD	

Clause	TC Title	Release	Applicability		Additional Information	
			Condition	Comment	Specific ICS	Specific IXIT
	RESOURCE MODIFICATION REJECT message including cause #43, "unknown EPS bearer context"					
10.8.6	UE requested bearer resource modification / Collision of a UE requested bearer resource modification procedure and EPS bearer context deactivation procedure.	Rel-8	R	UEs supporting E-UTRA	pc_eTDD pc_eFDD	
10.8.7	UE requested bearer resource modification / Expiry of timer T3481	Rel-8	R	UEs supporting E-UTRA	pc_eTDD pc_eFDD	
<b>11</b>	<b>General Tests</b>					
11.1.1	MT-SMS over SGs / idle mode	Rel-8	C22	UEs supporting E-UTRA and combined attach and MT SMS over SGs	pc_eFDD pc_eTDD	px_CS_PSmodeAny px_CS_PSmodeAny
11.1.2	MT-SMS over SGs / active mode	Rel-8	C22	UEs supporting E-UTRA and combined attach and MT SMS over SGs	pc_eFDD pc_eTDD	px_CS_PSmodeAny px_CS_PSmodeAny
11.1.3	MO-SMS over SGs / idle mode	Rel-8	C23	UEs supporting E-UTRA and combined attach and MO SMS over SGs	pc_eFDD pc_eTDD	px_CS_PSmodeAny px_CS_PSmodeAny
11.1.4	MO-SMS over SGs / active mode	Rel-8	C23	UEs supporting E-UTRA and combined attach and MO SMS over SGs	pc_eFDD pc_eTDD	px_CS_PSmodeAny px_CS_PSmodeAny
					pc_eTDD	px_CS_PSmodeAny
<b>12</b>	<b>E-UTRA Radio Bearer Tests</b>					
12.2.1	Data transfer of E-UTRA radio bearer combinations 1,3,6 and 9e	Rel-8	R	UEs supporting E-UTRA	pc_eFDD	
12.2.2	Data transfer of E-UTRA radio bearer combinations 2,4,7 and 10	Rel-8	C16	UEs supporting E-UTRA and Feature Group Indicator 7	pc_eFDD	
12.2.3	Data transfer of E-UTRA radio bearer combinations 5,8,11 and 12	Rel-8	C32	UEs supporting E-UTRA and Feature Group Indicator 7 and Feature Group Indicator 20	pc_eFDD	
12.2.4	12.2a Data transfer of E-UTRA radio bearer combinations 13	Rel-8	C33	UEs supporting E-UTRA and Feature Group Indicator 20	pc_eFDD	
12.3.1	Data transfer of E-UTRA radio bearer combinations 1,3,6 and 9 / MIMO	Rel-8	C28	UEs supporting E-UTRA and Feature Group Indicator 1	pc_eFDD	
12.3.2	Data transfer of E-UTRA radio bearer combinations 2,4,7 and 10 / MIMO	Rel-8	C29	UEs supporting E-UTRA and Feature Group Indicator 1 and Feature Group Indicator 7	pc_eFDD	
12.3.3	Data transfer of E-UTRA radio bearer combinations 5,8,11 and 12 / MIMO	Rel-8	C30	UEs supporting E-UTRA and Feature Group Indicator 1 and Feature Group Indicator 7 and Feature Group Indicator 20	pc_eFDD	
12.3.4	Data transfer of E-UTRA radio bearer combination 13 / MIMO	Rel-8	C31	UEs supporting E-UTRA and Feature Group Indicator 1 and Feature Group Indicator 20	pc_eFDD	
<b>13</b>	<b>Multi-layer Procedures</b>					

Clause	TC Title	Release	Applicability		Additional Information	
			Condition	Comment	Specific ICS	Specific IXIT
13.1.1	Activation and deactivation of additional data radio bearer in E-UTRA	Rel-8	R	UEs supporting E-UTRA	pc_eFDD	
					pc_eTDD	
13.2.1	RRC Connection Reconfiguration; E-UTRA to E-UTRA	Rel-8	R	UEs supporting E-UTRA	pc_eFDD	
					pc_eTDD	
13.3.1.1	Intra System Connection Reestablishment / Radio Link Recovery while T310 is running	Rel-8	R	UEs supporting E-UTRA	pc_eFDD	
					pc_eTDD	
13.3.1.2	Intra System Connection Reestablishment / Re-establishment of a new connection when further data is to be transferred	Rel-8	R	UEs supporting E-UTRA	pc_eFDD	
					pc_eTDD	
<b>15</b>	<b>Mobility management based on DSMIPv6 (Dual-Stack Mobile IPv6)</b>					
15.1	Discovery of the Home Agent via DNS	Rel-8	C34	UEs supporting E-UTRA and Mobility management based on Dual-Stack Mobile IPv6 and being configured to discover the Home Agent address via DNS	pc_eFDD	
					pc_eTDD	
15.5	Security association establishment without Home Agent reallocation procedure	Rel-8	C35	UEs supporting E-UTRA and Mobility management based on Dual-Stack Mobile IPv6	pc_eFDD	
					pc_eTDD	

Table 4-1a: Applicability of tests Conditions

C01	IF [8]A.1/1 OR [8]A.1/3 THEN R ELSE N/A
C02	IF A.4.2.1.1-1/2 OR A.4.2.1.1-1/3 OR A.4.2.1.1-1/4 THEN R ELSE N/A
C03	IF A.4.4-1/1 THEN R ELSE N/A
C04	IF A.4.2.1.1-1/1 THEN R ELSE N/A
C05	IF [8]A.1/4 THEN R ELSE N/A
C06	IF A.4.1-1/3 THEN R ELSE N/A
C07	IF A.4.1-1/4 THEN R ELSE N/A
C08	IF A.4.5-1/5 THEN R ELSE N/A
C09	IF A.4.5-1/16 THEN R ELSE N/A
C10	IF A.4.5-1/25 THEN R ELSE N/A
C11	IF A.4.5-1/16 AND A.4.5-1/25 THEN R ELSE N/A
C12	IF A.4.5-1/13 AND A.4.5-1/16 AND A.4.5-1/25 THEN R ELSE N/A
C13	IF [8]A.1/1 AND A.4.5-1/16 AND A.4.5-1/22 THEN R ELSE N/A
C14	IF A.4.5-1/5 AND A.4.5-1/17 THEN R ELSE N/A
C15	IF A.4.5-1/3 AND A.4.5-1/7 THEN R ELSE N/A
C16	IF A.4.5-1/7 THEN R ELSE N/A
C17	IF [8]A.1/1 AND [8]A.1/4 AND A.4.5-1/22 AND A.4.5-1/23 THEN R ELSE N/A
C18	IF A.4.5-1/3 THEN R ELSE N/A
C19	IF A.4.5-1/6 THEN R ELSE N/A
C20	IF [8]A.1/4 AND A.4.5-1/16 AND A.4.5-1/23 THEN R ELSE N/A
C21	IF A.4.5-1/13 AND A.4.5-1/25 THEN R ELSE N/A
C22	IF (A.4.2.1.1-1/2 OR A.4.2.1.1-1/3 OR A.4.2.1.1-1/4) AND A.4.4-1/3 THEN R ELSE N/A
C23	IF (A.4.2.1.1-1/2 OR A.4.2.1.1-1/3 OR A.4.2.1.1-1/4) AND A.4.4-1/4 THEN R ELSE N/A
C24	IF A.4.1-1/3 AND A.4.5-1/16 AND A.4.5-1/26 THEN R ELSE N/A
C25	IF A.4.1-1/4 AND A.4.5-1/16 AND A.4.5-1/24 THEN R ELSE N/A
C26	IF A.4.2.1.1-1/2 OR A.4.2.1.1-1/3 THEN R ELSE N/A
C27	IF ([8]A.1/1 OR [8]A.1/2 OR [8]A.1/4) AND A.4.4-1/5 THEN R ELSE N/A
C28	IF A.4.5-1/1 THEN R ELSE N/A
C29	IF (A.4.5-1/1 AND A.4.5-1/7) THEN R ELSE N/A
C30	IF (A.4.5-1/1 AND A.4.5-1/20) THEN R ELSE N/A
C31	IF (A.4.5-1/1 AND A.4.5-1/7 AND A.4.5-1/20) THEN R ELSE N/A
C32	IF (A.4.5/7 AND A.4.5/20) THEN R ELSE N/A
C33	IF A.4.5/20 THEN R ELSE N/A
C34	IF A.4.4-1/6 AND A.4.4-1/7 THEN R ELSE N/A
C35	IF A.4.4-1/6 THEN R ELSE N/A
C36	IF ([8]A.1/1 OR [8]A.1/2) AND A.4.5-1/8 AND A.4.5-1/22 THEN R ELSE N/A
C37	IF ([8]A.1/1 OR [8]A.1/2) AND A.4.4-1/8 THEN R ELSE N/A
C38	IF [8]A.1/4 AND A.4.5-1/10 THEN R ELSE N/A
C39	IF A.4.5-1/5 AND A.4.5-1/19 AND A.4.5-1/22 THEN R ELSE N/A
C40	IF A.4.5-1/5 AND A.4.5-1/19 AND A.4.5-1/23 THEN R ELSE N/A
C41	IF A.4.1-1/4 AND A.4.2.1.1-1/5 THEN R ELSE N/A
C42	IF A.4.1-1/3 AND A.4.5-1/12 THEN R ELSE N/A
C44	IF A.4.1-1/3 AND A.4.5-1/5 AND A.4.5-1/19 AND A.4.5-1/26 THEN R ELSE N/A



C45	IF A.4.1-1/4 AND A.4.5-1/5 AND A.4.5-1/19 AND A.4.5-1/24 THEN R ELSE N/A
C46	IF A.4.1-1/1 OR A.4.1-1/2 AND( NOT A.4.4-1/9) THEN R ELSE N/A
C47	IF A.4.4-1/2 THEN R ELSE N/A

---

## Annex A (normative): ICS proforma for E-UTRA/EPC Generation User Equipment

Notwithstanding the provisions of the copyright clause related to the text of the present document, The Organizational Partners of 3GPP grant that users of the present document may freely reproduce the ICS proforma in this annex so that it can be used for its intended purposes and may further publish the completed ICS.

### A.1 Guidance for completing the ICS proforma

#### A.1.1 Purposes and structure

The purpose of this ICS proforma is to provide a mechanism whereby a supplier of an implementation of the requirements defined in relevant specifications may provide information about the implementation in a standardised manner.

The ICS proforma is subdivided into clauses for the following categories of information:

- instructions for completing the ICS proforma;
- identification of the implementation;
- identification of the protocol;
- ICS proforma tables (for example: UE implementation types, Teleservices, etc).

#### A.1.2 Abbreviations and conventions

The ICS proforma contained in this annex is comprised of information in tabular form in accordance with the guidelines presented in ISO/IEC 9646-7 [25].

##### Item column

The item column contains a number which identifies the item in the table.

##### Item description column

The item description column describes in free text each respective item (e.g. parameters, timers, etc.). It implicitly means "is <item description> supported by the implementation?".

##### Reference column

The reference column gives reference to the relevant 3GPP core specifications.

##### Release column

The release column indicates the earliest release from which the capability or option is relevant.

##### Mnemonic column

The Mnemonic column contains mnemonic identifiers for each item.

##### Comments column

This column is left blank for particular use by the reader of the present document.

References to items

For each possible item answer (answer in the support column) within the ICS proforma there exists a unique reference, used, for example, in the conditional expressions. It is defined as the table identifier, followed by a solidus character "/", followed by the item number in the table. If there is more than one support column in a table, the columns shall be discriminated by letters (a, b, etc.), respectively.

### A.1.3 Instructions for completing the ICS proforma

The supplier of the implementation may complete the ICS proforma in each of the spaces provided. More detailed instructions are given at the beginning of the different clauses of the ICS proforma.

## A.2 Identification of the User Equipment

Identification of the User Equipment should be filled in so as to provide as much detail as possible regarding version numbers and configuration options.

The product supplier information and client information should both be filled in if they are different.

A person who can answer queries regarding information supplied in the ICS should be named as the contact person.

### A.2.1 Date of the statement

.....

### A.2.2 User Equipment Under Test (UEUT) identification

UEUT name:

.....  
.....

Hardware configuration:

.....  
.....  
.....

Software configuration:

.....  
.....  
.....

### A.2.3 Product supplier

Name:

.....

Address:

.....  
.....  
.....

Telephone number:

.....

Facsimile number:

.....

E-mail address:

.....

Additional information:

.....

.....

.....

## A.2.4 Client

Name:

.....

Address:

.....

.....

.....

Telephone number:

.....

Facsimile number:

.....

E-mail address:

.....

Additional information:

.....

.....

.....

## A.2.5 ICS contact person

Name:

.....

Telephone number:

.....

Facsimile number:

.....

E-mail address:

.....

Additional information:

.....

.....

## A.3 Identification of the protocol

This ICS proforma applies to the 3GPP standards listed in the normative references clause of the present document.

## A.4 ICS proforma tables

### A.4.1 UE Implementation Types

**Table A.4.1-1: UE Radio Technologies**

Item	UE Radio Technologies	Ref.	Release	Mnemonic	Comments
1	E-UTRA FDD	36.101	Rel-8	pc_eFDD	
2	E-UTRA TDD	36.101	Rel-8	pc_eTDD	
3	HRPD	C.S0024-A	Rel-8	pc_HRPD	
4	1xRTT	C.S0002-A	Rel-8	pc_1xRTT	

## A.4.2 UE Service Capabilities

### A.4.2.1 3GPP Standardised UE Service Capabilities

#### A.4.2.1.1 Bearer Services

**Table A.4.2.1.1-1: Definition of Bearer Services**

Item	Definition of Bearer Services	Ref.	Release	Mnemonic	Comments
1	Support of PS mode	24.301	Rel-8	pc_PS_mode	In this mode, the UE performs EMM EPS only procedures.  pc_PS is also true
2	Support of CS/PS mode 1	24.301	Rel-8	pc_CSPS_mode_1	In this mode, the UE performs EMM combined procedures.  pc_CS and at least one of pc_FDD, pc_TDD_HCR, pc_TDD_LCR, pc_TDD_VHCR, pc_UMTS_GSM and pc_1xRTT is true
3	Support of CS/PS mode 2	24.301	Rel-8	pc_CSPS_mode_2	In this mode, the UE performs EMM combined procedures.  pc_CS and at least one of pc_FDD, pc_TDD_HCR, pc_TDD_LCR, pc_TDD_VHCR, pc_UMTS_GSM and pc_1xRTT is true
4	Support of registration to CS for SMS only	24.301	Rel-8	pc_EPS_CS_SMS	In this mode, the UE performs EMM combined procedures.
5	Support of 1xCS fallback	24.301	Rel-8	pc_1xCSfallback	

NOTE : A UE may support one or more of bearer service 1, 2, 3 or 4.

## A.4.3 Baseline Implementation Capabilities

**Table A.4.3-1: Supported protocols**

Item	Supported protocols	Ref.	Release	Mnemonic	Comments
1	EPS Mobility Management	24.301, 5	Rel-8		
2	EPS Session Management	24.301, 6	Rel-8		
3	Radio Resource Control	36.331	Rel-8		
4	Packet Data Convergence Protocol	36.323	Rel-8		
5	Radio Link Control	36.322	Rel-8		
6	Medium Access Control	36.321	Rel-8		
7	Physical Layer	36.201	Rel-8		

Table A.4.3-2: Special Conformance Testing Functions

Item	Special Conformance Testing Functions	Ref.	Release	Comments
1	UE test loop	36.509	Rel-8	
2	Max UE test loop UL RLC SDU size 65535 bits	36.509	Rel-8	

### A.4.3.1 RF Baseline Implementation Capabilities

Table A.4.3.1-1: FDD RF Baseline Implementation Capabilities

Item	FDD (DS) RF Baseline Implementation Capabilities	Ref.	Release	Mnemonic	Comments
1	Frequency band: 1920-1 980, 2110-2170 MHz	36.101, 5.1	R8	pc_eBand1_Supp	Band 1
2	Frequency band: 1850-1910, 1930-1 990 MHz	36.101, 5.1	R8	pc_eBand2_Supp	Band 2
3	Frequency band: 1710-1785, 1805-1880 MHz	36.101, 5.1	R8	pc_eBand3_Supp	Band 3
4	Frequency band: 1710-1755, 2110-2155 MHz	36.101, 5.1	R8	pc_eBand4_Supp	Band 4
5	Frequency band: 824 – 849, 869-894 MHz	36.101, 5.1	R8	pc_eBand5_Supp	Band 5
6	Frequency band: 830-840, 875-885 MHz	36.101, 5.1	R8	pc_eBand6_Supp	Band 6
7	Frequency band: 2500-2570, 2620-2690 MHz	36.101, 5.1	R8	pc_eBand7_Supp	Band 7
8	Frequency band: 880–915, 925–960 MHz	36.101, 5.1	R8	pc_eBand8_Supp	Band 8
9	Frequency band: 1749.9-1784.9, 1844.9-1879.9 MHz	36.101, 5.1	R8	pc_eBand9_Supp	Band 9
10	Frequency band: 1710-1770, 2110-2170 MHz	36.101, 5.1	R8	pc_eBand10_Supp	Band 10
11	Frequency band: 1427.9-1452.9, 1475.9-1500.9 MHz	36.101, 5.1	R8	pc_eBand11_Supp	Band 11
12	Frequency band: 698-716, 728-746 MHz	36.101, 5.1	R8	pc_eBand12_Supp	Band 12
13	Frequency band: 777–787, 746–756 MHz	36.101, 5.1	R8	pc_eBand13_Supp	Band 13
14	Frequency band: 788-798, 758-768 MHz	36.101, 5.1	R8	pc_eBand14_Supp	Band 14
15	Reserved				
16	Reserved				
17	Frequency band: 704716, 734-746 MHz	36.101, 5.1	R8	pc_eBand17_Supp	Band 17
18	Frequency band: 815-830, 860-875 MHz	36.101, 5.1	R8	pc_eBand18_Supp	Band 18
19	Frequency band: 830–845, 875–890 MHz	36.101, 5.1	R8	pc_eBand19_Supp	Band 19

## A.4.4 Additional information

**Table A.4.4-1: Additional information**

Item	Additional information	Ref.	Release	Mnemonic	Comments
1	Support of USIM removal without power down		Rel-8	pc_USIM_Removal	
2	Support of Allowed CSG list	36.331 Annex B.2	Rel-8	pc_Allowed_CSG_List	
3	Support of Short Message Service (SMS) MT over SGs	23.272, 8.2.4, 8.2.5	Rel-8	pc_SMS_SGs_MT	
4	Support of Short Message Service (SMS) MO over SGs	23.272, 8.2.2, 8.2.3	Rel-8	pc_SMS_SGs_MO	
5	Support of ISR	23.401, 4.3.5.6	Rel-8	pc_ISR	
6	Support of Mobility management based on Dual-Stack Mobile IPv6	24.303	Rel-8	pc_DSMIPv6	
7	Support for being configured to discover the Home Agent address via DNS	24.303	Rel-8	pc_HAAddress_via_DNS	
8	Support of inter-RAT PS handover to E-UTRA from UTRA	25.306, 4.7	Rel-8	pc_HO_from_UTRA	
9	Support of EMM information message	24.301, 5.4.5.3	Rel-8	pc_EMM_Information	



## A.4.5 Feature group indicators

**Table A.4.5-1: Feature group indicators**

Item	Additional information	Notes	Ref.	Release	Mnemonic	Comments
1	Support of - Intra-subframe frequency hopping for PUSCH scheduled by UL grant - Extended cyclic prefix with $\Delta f = 7.5\text{kHz}$ for DL resource block - DCI format 3a (TPC commands for PUCCH and PUSCH with single bit power adjustments) - Multi-user MIMO for PDSCH - Aperiodic CQI/PMI/RI reporting on PUSCH: Mode 2-0 – UE selected subband CQI without PMI - Aperiodic CQI/PMI/RI reporting on PUSCH: Mode 2-2 – UE selected subband CQI with multiple PMI		36.331, Annex B.1	Rel-8	pc_FeatrGrp_1	Corresponding to the Index of Indicator, the leftmost binary bit 1 Set to true if supporting all functionalities in the feature group
2	Support of - Simultaneous CQI and ACK/NACK on PUCCH, i.e. PUCCH format 2a and 2b - Absolute TPC command for PUSCH - Resource allocation type 1 for PDSCH - Periodic CQI/PMI/RI reporting on PUCCH: Mode 2-0 – UE selected subband CQI without PMI - Periodic CQI/PMI/RI reporting on PUCCH: Mode 2-1 – UE selected subband CQI with single PMI		36.331, Annex B.1	Rel-8	pc_FeatrGrp_2	Corresponding to the Index of Indicator, the leftmost binary bit 2 Set to true if supporting all functionalities in the feature group

3	Support of - Semi-persistent scheduling - TTI bundling - 5bit RLC UM SN - 7bit PDCP SN	- can only be set to 1 if the UE has set bit number 7 to 1.	36.331, Annex B.1	Rel-8	pc_FeatrGrp_3	Corresponding to the Index of Indicator, the leftmost binary bit 3 Set to true if supporting all functionalities in the feature group
4	Support of - Short DRX cycle	- can only be set to 1 if the UE has set bit number 5 to 1.	36.331, Annex B.1	Rel-8	pc_FeatrGrp_4	Corresponding to the Index of Indicator, the leftmost binary bit 4 Set to true if supporting all functionalities in the feature group
5	Support of - Long DRX cycle - DRX command MAC control element		36.331, Annex B.1	Rel-8	pc_FeatrGrp_5	Corresponding to the Index of Indicator, the leftmost binary bit 5 Set to true if supporting all functionalities in the feature group
6	Support of - Prioritized bit rate		36.331, Annex B.1	Rel-8	pc_FeatrGrp_6	Corresponding to the Index of Indicator, the leftmost binary bit 6 Set to true if supporting all functionalities in the feature group
7	Support of - RLC UM	- can only be set to 0 if the UE does not support voice	36.331, Annex B.1	Rel-8	pc_FeatrGrp_7	Corresponding to the Index of Indicator, the leftmost binary bit 7 Set to true if supporting all functionalities in the feature group
8	Support of - EUTRA RRC_CONNECTED to UTRA CELL_DCH PS handover	- can only be set to 1 if the UE has set bit number 22 to 1	36.331, Annex B.1	Rel-8	pc_FeatrGrp_8	Corresponding to the Index of Indicator, the leftmost binary bit 8 Set to true if supporting all functionalities in the feature group
9	Support of - EUTRA RRC_CONNECTED to GERAN GSM_Dedicated handover	- related to SR-VCC - can only be set to 1 if the UE has set bit number 23 to 1	36.331, Annex B.1	Rel-8	pc_FeatrGrp_9	Corresponding to the Index of Indicator, the leftmost binary bit 9 Set to true if supporting all functionalities in the feature group

10	Support of - EUTRA RRC_CONNECTED to GERAN (Packet_)Idle by Cell Change Order - EUTRA RRC_CONNECTED to GERAN (Packet_)Idle by Cell Change Order with NACC (Network Assisted Cell Change)		36.331, Annex B.1	Rel-8	pc_FeatrGrp_10	Corresponding to the Index of Indicator, the leftmost binary bit 10 Set to true if supporting all functionalities in the feature group
11	Support of - EUTRA RRC_CONNECTED to CDMA2000 1xRTT CS Active handover	- can only be set to 1 if the UE has sets bit number 24 to 1	36.331, Annex B.1	Rel-8	pc_FeatrGrp_11	Corresponding to the Index of Indicator, the leftmost binary bit 11 Set to true if supporting all functionalities in the feature group
12	Support of - EUTRA RRC_CONNECTED to CDMA2000 HRPD Active handover	- can only be set to 1 if the UE has set bit number 26 to 1	36.331, Annex B.1	Rel-8	pc_FeatrGrp_12	Corresponding to the Index of Indicator, the leftmost binary bit 12 Set to true if supporting all functionalities in the feature group
13	Support of - Inter-frequency handover -	- can only be set to 1 if the UE has set bit number 25 to 1	36.331, Annex B.1	Rel-8	pc_FeatrGrp_13	Corresponding to the Index of Indicator, the leftmost binary bit 13 Set to true if supporting all functionalities in the feature group
14	Support of - Measurement reporting event: Event A4 – Neighbour > threshold - Measurement reporting event: Event A5 – Serving < threshold1 & Neighbour > threshold2		36.331, Annex B.1	Rel-8	pc_FeatrGrp_14	Corresponding to the Index of Indicator, the leftmost binary bit 14 Set to true if supporting all functionalities in the feature group
15	Support of - Measurement reporting event: Event B1 – Neighbour > threshold	- can only be set to 1 if the UE has set at least one of the bit number 22, 23, 24 or 26 to 1.	36.331, Annex B.1	Rel-8	pc_FeatrGrp_15	Corresponding to the Index of Indicator, the leftmost binary bit 15 Set to true if supporting all functionalities in the feature group
16	Support of - Periodical measurement reporting for non-ANR related measurements		36.331, Annex B.1	Rel-8	pc_FeatrGrp_16	Corresponding to the Index of Indicator, the leftmost binary bit 16 Set to true if supporting all functionalities in the feature group

17	Support of - Periodical measurement reporting for SON / ANR - ANR related intra-frequency measurement reporting events	- can only be set to 1 if the UE has set bit number 5 to 1.	36.331, Annex B.1	Rel-8	pc_FeatrGrp_17	Corresponding to the Index of Indicator, the leftmost binary bit 17 Set to true if supporting all functionalities in the feature group
18	Support of - ANR related inter-frequency measurement reporting events	- can only be set to 1 if the UE has set bit number 5 to 1.	36.331, Annex B.1	Rel-8	pc_FeatrGrp_18	Corresponding to the Index of Indicator, the leftmost binary bit 18 Set to true if supporting all functionalities in the feature group
19	Support of - ANR related inter-RAT measurement reporting events	- can only be set to 1 if the UE has set bit number 5 to 1.	36.331, Annex B.1	Rel-8	pc_FeatrGrp_19	Corresponding to the Index of Indicator, the leftmost binary bit 19 Set to true if supporting all functionalities in the feature group
20	If bit number 7 is set to "0": - SRB1 and SRB2 for DCCH + 8x AM DRB  If bit number 7 is set to "1": - SRB1 and SRB2 for DCCH + 8x AM DRB - SRB1 and SRB2 for DCCH + 5x AM DRB + 3x UM DRB  NOTE: UE which indicate support for a DRB combination also support all subsets of the DRB combination. Therefore, release of DRB(s) never results in an unsupported DRB combination.	- Regardless of what bit number 7 and bit number 20 is set to, UE shall support at least SRB1 and SRB2 for DCCH + 4x AM DRB - Regardless of what bit number 20 is set to, if bit number 7 is set to "1", UE shall support at least SRB1 and SRB2 for DCCH + 4x AM DRB + 1x UM DRB	36.331, Annex B.1	Rel-8	pc_FeatrGrp_20	Corresponding to the Index of Indicator, the leftmost binary bit 20 Set to true if supporting all functionalities in the feature group
21	Support of - Predefined intra- and inter-subframe frequency hopping for PUSCH with $N_{sb} > 1$  - Predefined inter-subframe frequency hopping for PUSCH with $N_{sb} > 1$		36.331, Annex B.1	Rel-8	pc_FeatrGrp_21	Corresponding to the Index of Indicator, the leftmost binary bit 21 Set to true if supporting all functionalities in the feature group

22	Support of - UTRAN measurements, reporting and measurement reporting event B2 in E-UTRA connected mode		36.331, Annex B.1	Rel-8	pc_FeatrGrp_22	Corresponding to the Index of Indicator, the leftmost binary bit 22 Set to true if supporting all functionalities in the feature group
23	Support of - GERAN measurements, reporting and measurement reporting event B2 in E-UTRA connected mode		36.331, Annex B.1	Rel-8	pc_FeatrGrp_23	Corresponding to the Index of Indicator, the leftmost binary bit 23 Set to true if supporting all functionalities in the feature group
24	Support of - 1xRTT measurements, reporting and measurement reporting event B2 in E-UTRA connected mode		36.331, Annex B.1	Rel-8	pc_FeatrGrp_24	Corresponding to the Index of Indicator, the leftmost binary bit 24 Set to true if supporting all functionalities in the feature group
25	Support of - Inter-frequency measurements and reporting in E-UTRA connected mode		36.331, Annex B.1	Rel-8	pc_FeatrGrp_25	Corresponding to the Index of Indicator, the leftmost binary bit 25 Set to true if supporting all functionalities in the feature group
26	Support of - HRPD measurements, reporting and measurement reporting event B2 in E-UTRA connected mode		36.331, Annex B.1	Rel-8	pc_FeatrGrp_26	Corresponding to the Index of Indicator, the leftmost binary bit 26 Set to true if supporting all functionalities in the feature group

## Annex B (informative): Change history

Change history							
Date	TSG #	TSG Doc.	CR	R e v	Subject/Comment	Old	New
2007-11	-	-	-	-	Initial version		0.0.1
2008-02	-	-	-	-	Addition applicability 6 new LTE RRC test cases.	0.0.1	0.1.0
2008-04	-	-	-	-	Editorial corrections	0.1.0	0.1.1
2008-05	-	-	-	-	Extend the Applicability table scope with additional information for testing which may include: - relevant per TC Specific PICS statements - relevant per TC Specific PIXIT statements Updated TC applicability with contributions to RAN5#39	0.1.1	0.2.0
2008-06	-	-	-	-	- Added TCs agreed at RAN5#39bis - Updating TCs names, numbers, removed TCs deleted from the TC list - Editorial update	0.2.0	0.3.0
2008-09	RP-41	RP-080595	-	-	Submitted for information. Update in accordance with RAN5#40 (Editorial update and input from R5-083453, R5-083517, R5-083654)	0.3.0	1.0.0
2008-09	post RAN5#40	-	-	-	Update to reflect the agreed during the RAN5#40 extended e-mail agreement input: - All agreed new TCs added - One modified TCs title reflected	1.0.0	1.0.1
2008-10	post RAN5#40 bis	-	-	-	- Added new agreed at RAN5#40bis TCs - Removed TCs that are removed from the LTE/SAE WP (R5-084008) - Added TCs that exist as 80% completed in the LTE/SAE WP (R5-084008) but do not exist in 36.523-2 - Modified agreed RAN5#40bis new TC numbers - Updated TCs titles to match those in the LTE/SAE WP (R5-084008)	1.0.1	1.1.0
2008-11	Post RAN5#41	-	-	-	R5-085361: - New TCs added to applicability table - TCs titles updated - TC 9.2.2.1.2 removed from applicability table - Table for provision of test loops added - Editorial changes	1.1.0	2.0.0
2008-12	RAN#42	RP-080860			Approval of version 2.0.0 at RAN#42, then put to version 8.0.0.	2.0.0	8.0.0
2008-01					Editorial corrections.	8.0.0	8.0.1
2009-03	RAN#43	R5-090101	0001	-	Removal of reference to 11-bit Length Indicator in E-UTRA RLC test cases	8.0.1	8.1.0
2009-03	RAN#43	R5-090292	0002	1	Applicability of new E-UTRA PDCP test case - 7.3.5.4	8.0.1	8.1.0
2009-03	RAN#43	R5-090569	0003	-	Updating applicability table with input relevant to agreed at RAN5#41bis 36.523-1 CRs	8.0.1	8.1.0
2009-03	RAN#43	R5-090668	0004	-	Batch 1B - Applicability of new E-UTRA PDCP test cases	8.0.1	8.1.0
2009-03	RAN#43	R5-090737	0005	-	Update of Applicability table for EPS mobility management test cases	8.0.1	8.1.0
2009-03	RAN#43	R5-090738	0006	-	Batch 1: Applicability for new MAC test cases 7.1.3.9 & 7.1.4.12	8.0.1	8.1.0
2009-03	RAN#43	R5-090751	0007	-	Addition of Applicability new LTE test cases	8.0.1	8.1.0
2009-05	RAN#44	R5-092056	0008	-	GCF Priority 2 - Adding TC 9.1.2.5 to applicability	8.1.0	8.2.0
2009-05	RAN#44	R5-092091	0009	-	GCF Priority 2 - Addition of applicability statement for E-UTRAN test case 6.1.2.7 for Cell reselection: Equivalent PLMN	8.1.0	8.2.0
2009-05	RAN#44	R5-092116	0010	-	GCF Priority 1 - Applicability of new E-UTRA MAC test cases	8.1.0	8.2.0
2009-05	RAN#44	R5-092117	0011	-	GCF Priority 1 - Proposal to remove E-UTRA RLC test case 7.2.3.19 (Part 2)	8.1.0	8.2.0
2009-05	RAN#44	R5-092207	0012	-	GCF Priority 2 - Addition of applicability for new EMM test case	8.1.0	8.2.0
2009-05	RAN#44	R5-092215	0013	-	GCF Priority 2 - Addition of applicability for new idle mode and RRC test cases	8.1.0	8.2.0
2009-05	RAN#44	R5-092254	0014	-	Update of Applicability table for agreed EMM test cases in RAN5#42bis	8.1.0	8.2.0
2009-05	RAN#44	R5-092255	0015	-	GCF Priority 2 - Applicability for new idle mode test cases	8.1.0	8.2.0
2009-05	RAN#44	R5-092279	0016	-	Addition of Applicability New LTE Test cases	8.1.0	8.2.0
2009-05	RAN#44	R5-092404	0017	-	GCF priority 2: Applicability statements for the new MAC DRX test cases	8.1.0	8.2.0
2009-05	RAN#44	R5-092407	0018	-	GCF Priority 2 - Addition of applicability for UM RLC test case 7.2.2.11	8.1.0	8.2.0
2009-05	RAN#44	R5-092415	0019	-	GCF Priority 2: Applicability of new EMM test cases	8.1.0	8.2.0

2009-05	RAN#44	R5-092416	0020		GCF Priority 2: Applicability of new Cell Selection test cases	8.1.0	8.2.0
2009-05	RAN#44	R5-092424	0021		Addition of LTE Operating Band Capabilities for FDD Mode Test frequencies	8.1.0	8.2.0
2009-05	RAN#44	R5-092432	0022		GCF Priority 2 - Addition of Applicability statement for MAC test case 7.1.4.14	8.1.0	8.2.0
2009-05	RAN#44	R5-092433	0023		GCF Priority 2: Applicability of new Cell Reselection test cases	8.1.0	8.2.0
2009-05	RAN#44	R5-092448	0024		Update of Applicability for Feature Group Indicators	8.1.0	8.2.0
2009-05	RAN#44	R5-092450	0025		GCF Priority 1 - Update of applicability for RRC part 3 test cases based on Feature Group Indicators	8.1.0	8.2.0
2009-05	RAN#44	R5-092508	0026		Missing applicability of EMM/ESM test cases	8.1.0	8.2.0
2009-05	RAN#44	R5-092509	0027		Applicability of new EMM & ESM test cases	8.1.0	8.2.0
2009-05	RAN#44	R5-092586	0028		GCF Priority 1 - Update of applicability for RLC test cases	8.1.0	8.2.0
2009-05	RAN#44	R5-092769	0029		GCF Priority 2 - Applicability of new RRC test case 8.3.2.6	8.1.0	8.2.0
2009-05	RAN#44	R5-092770	0030		GCF Priority 2 - Update of applicability for MAC test cases based on Feature Group Indicators	8.1.0	8.2.0
2009-05	RAN#44	R5-092783	0031		Addition of applicability for new idle mode CSG test cases	8.1.0	8.2.0
2009-09	RAN#45	R5-094183	0032	-	Missing TCs applicability in 36-523-2	8.2.0	8.3.0
2009-09	RAN#45	R5-094206	0033	-	GCF Priority 3 - Remove RRC test case 8.1.3.3 applicability	8.2.0	8.3.0
2009-09	RAN#45	R5-094302	0034	1	Update of Feature Group Indicators	8.2.0	8.3.0
2009-09	RAN#45	R5-094404	0035	-	GCF Priority 2 - Applicability Statement for 8.3.2.1	8.2.0	8.3.0
2009-09	RAN#45	R5-094535	0036	-	Update of Applicability for PDPC tc based on FGI	8.2.0	8.3.0
2009-09	RAN#45	R5-094683	0037	-	GCF Priority 2 - Update of applicability for RLC test case 7.2.2.11	8.2.0	8.3.0
2009-09	RAN#45	R5-094722	0038	-	Correction of TC titles on RRC part 2 (8.2 RRC Connection Reconfiguration)	8.2.0	8.3.0
2009-09	RAN#45	R5-094727	0039	1	Update of test case applicability for feature group indicators for RRC part 2 (8.2 RRC Connection Reconfiguration)	8.2.0	8.3.0
2009-09	RAN#45	R5-095033	0040	-	GCF Priority 2 - Addition of applicability for new SMS over SGs test cases	8.2.0	8.3.0
2009-09	RAN#45	R5-095224	0041	1	GCF Priority 2 - Update of applicability for LTE-C2k interworking test cases	8.2.0	8.3.0
2009-09	RAN#45	R5-095225	0042	1	Corrections to PICS for PS and CS registration and applicability of EMM test cases	8.2.0	8.3.0
2009-09	RAN#45	R5-095226	0043	1	merge of 36.523-2 EMM CRs from RAN5#44	8.2.0	8.3.0
2009-09	RAN#45	R5-095229	0044	-	Applicability for Idle Mode test cases	8.2.0	8.3.0
2009-11	GERAN #44	GP-092406	0045	-	Addition of new Test Case 6.2.3.21	8.3.0	8.4.0
2009-12	RAN#46	R5-095479	0046	-	Applicability of new TC 6.2.3.6	8.3.0	8.4.0
2009-12	RAN#46	R5-095480	0047	-	Applicability of new/removed RRC Part 2 test cases	8.3.0	8.4.0
2009-12	RAN#46	R5-095483	0048	-	Applicability of new ESM test cases	8.3.0	8.4.0
2009-12	RAN#46	R5-095526	0049	-	GCF Priority 1 - Update of RLC test case applicability	8.3.0	8.4.0
2009-12	RAN#46	R5-095673	0050	-	Applicability for new IDLE MODE test case 6.1.2.13	8.3.0	8.4.0
2009-12	RAN#46	R5-095797	0051	-	Addition of applicability for new DSMIPv6 test cases	8.3.0	8.4.0
2009-12	RAN#46	R5-095989	0052	-	Wrong reference in TC applicability condition C01	8.3.0	8.4.0
2009-12	RAN#46	R5-096064	0053	-	GCF Priority 1 - Corrections to MAC test case applicability	8.3.0	8.4.0
2009-12	RAN#46	R5-096119	0054	2	Applicability for section 8.4 RRC Inter-RAT test cases NTT DOCOMO	8.3.0	8.4.0
2009-12	RAN#46	R5-096134	0055	-	GCF Priority 3 - Correction to E-UTRA DRB test case 12.3	8.3.0	8.4.0
2009-12	RAN#46	R5-096136	0056	-	GCF Priority 3 - Applicability of new E-UTRA DRB test case 12.3	8.3.0	8.4.0
2009-12	RAN#46	R5-096659	0057	-	GCF Priority 2 - Addition of applicability for new test case 11.1.4	8.3.0	8.4.0
2009-12	RAN#46	R5-096702	0058	-	Add applicabilities for test case 8.1.3.7 and 8.5.2.1	8.3.0	8.4.0
2009-12	RAN#46	R5-096703	0059	-	GCF Priority 3 - Add applicabilities for new test case 8.3.1.11	8.3.0	8.4.0
2009-12	RAN#46	R5-096704	0060	-	Update of Applicability table for Multi-layer Procedure test cases	8.3.0	8.4.0
2009-12	RAN#46	R5-096705	0062	-	EMM CRs from RAN5#45	8.3.0	8.4.0
2009-12	RAN#46	R5-096710	0061	-	GCF Priority 3 - Addition of applicability for new LTE-C2k interworking test cases	8.3.0	8.4.0

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# History

<b>Document history</b>		
V8.0.1	January 2009	Publication
V8.1.0	April 2009	Publication
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