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# Foreword

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# 1 Scope

The present document defines the NR UE Radio Access Capability Parameters.

# 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 TR 21.905: "Vocabulary for 3GPP Specifications".
- [2] 3GPP TS 38.101-1: "NR; User Equipment (UE) radio transmission and reception Part 1: Range 1 Standalone".
- [3] 3GPP TS 38.101-2: "NR; User Equipment (UE) radio transmission and reception Part 2: Range 2 Standalone".
- [4] 3GPP TS 38.101-3: "NR; User Equipment (UE) radio transmission and reception Part 3: Range 1 and Range 2 Interworking operation with other radios".
- [5] 3GPP TS 38.133: "NR; Requirements for support of radio resource management".
- [6] 3GPP TS 38.211: "NR; Physical channels and modulation".
- [7] 3GPP TS 37.340: "Evolved Universal Terrestrial Radio Access (E-UTRA) and NR Multiconnectivity".
- [8] 3GPP TS 38.321: "NR; Medium Access Control (MAC) protocol specification".
- [9] 3GPP TS 38.331: "NR; Radio Resource Control (RRC) protocol specification".
- [10] 3GPP TS 38.212: "NR; Multiplexing and channel coding".
- [11] 3GPP TS 38.213: "NR; Physical layer procedures for control".
- [12] 3GPP TS 38.214: "NR; Physical layer procedures for data".
- [13] 3GPP TS 38.215: "NR; Physical layer measurements".
- [14] 3GPP TS 36.101: "Evolved Universal Terrestrial Radio Access (E-UTRA) radio transmission and reception".
- [15] 3GPP TS 36.306: "Evolved Universal Terrestrial Radio Access (E-UTRA) User Equipment (UE) radio access capabilities".
- [16] 3GPP TS 38.323: "NR; 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 38.101-4: "NR; User Equipment (UE) radio transmission and reception Part 4: Performance requirements".
- [19] 3GPP TS 36.213: "Evolved Universal Terrestrial Radio Access (E-UTRA); Physical layer procedures".

[20]

3GPP TS 38.304: "User Equipment (UE) procedures in Idle mode and RRC Inactive state".

# 3 Definitions, symbols and abbreviations

### 3.1 Definitions

For the purposes of the present document, the terms and definitions given in TR 21.905 [1] and the following apply. A term defined in the present document takes precedence over the definition of the same term, if any, in TR 21.905 [1].

**Fallback band combination:** A band combination that would result from another band combination (parent band combination) by releasing at least one SCell or uplink configuration of SCell, or SCG. An intra-band non-contiguous band combination is not considered to be a fallback band combination of an intra-band contiguous band combination. A fallback band combination supports the same channel bandwidth(s) for each carrier as its parent band combination(s).

**Fallback per band feature set:** A feature set per band that has same or lower capabilities than the reported capabilities from the reported feature set per band for a given band.

Fallback per CC feature set: A feature set per CC that has lower capabilities of UE supported MIMO layers and BW while keeping the numerology and other parameters the same from the reported feature set per CC for a given carrier per band.

### 3.2 Symbols

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

MaxDLDataRate:	Maximum DL data rate
MaxDLDataRate_MN:	Maximum DL data rate in the MN
MaxDLDataRate_SN:	Maximum DL data rate in the SN
MaxULDataRate:	Maximum UL data rate

### 3.3 Abbreviations

For the purposes of the present document, the abbreviations given in TR 21.905 [1] and the following apply. An abbreviation defined in the present document takes precedence over the definition of the same abbreviation, if any, in TR 21.905 [1].

BC	Band Combination
DL	Downlink
FS	Feature Set
FSPC	Feature Set Per Component-carrier
MAC	Medium Access Control
MCG	Master Cell Group
MN	Master Node
MR-DC	Multi-RAT Dual Connectivity
PDCP	Packet Data Convergence Protocol
RLC	Radio Link Control
RTT	Round Trip Time
SCG	Secondary Cell Group
SDAP	Service Data Adaptation Protocol
SN	Secondary Node
UL	Uplink

# 4 UE radio access capability parameters

### 4.1 Supported max data rate

#### 4.1.1 General

The DL and UL max data rate supported by the UE is calculated by band or band combinations supported by the UE. A UE supporting NR (NR SA, MR-DC) shall support the calculated DL and UL max data rate defined in 4.1.2.

#### 4.1.2 Supported max data rate

For NR, the approximate data rate for a given number of aggregated carriers in a band or band combination is computed as follows.

data rate (in Mbps) = 
$$10^{-6} \cdot \sum_{j=1}^{J} \left( v_{Layers}^{(j)} \cdot Q_m^{(j)} \cdot f^{(j)} \cdot R_{max} \cdot \frac{N_{PRB}^{BW(j),\mu} \cdot 12}{T_s^{\mu}} \cdot (1 - OH^{(j)}) \right)$$

wherein

J is the number of aggregated component carriers in a band or band combination  $R_{\text{max}}=948/1024$ 

For the j-th CC,

 $v_{layers}^{(j)}$  is the maximum number of supported layers given by higher layer parameter *maxNumberMIMO*-

*LayersPDSCH* for downlink and maximum of higher layer parameters *maxNumberMIMO-LayersCB-PUSCH* and *maxNumberMIMO-LayersNonCB-PUSCH* for uplink.

 $Q_m^{(j)}$  is the maximum supported modulation order given by higher layer parameter *supportedModulationOrderDL* for downlink and higher layer parameter *supportedModulationOrderUL* for uplink.

 $f^{(j)}$  is the scaling factor given by higher layer parameter *scalingFactor* and can take the values 1, 0.8, 0.75, and 0.4.

 $\mu$  is the numerology (as defined in TS 38.211 [6])

 $T_s^{\mu}$  is the average OFDM symbol duration in a subframe for numerology  $\mu$ , i.e.  $T_s^{\mu} = \frac{10^{-3}}{14 \cdot 2^{\mu}}$ . Note that normal cyclic prefix is assumed.

 $N_{PRB}^{BW(j),\mu}$  is the maximum RB allocation in bandwidth  $BW^{(j)}$  with numerology  $\mu$ , as defined in 5.3 TS 38.101-1 [2] and 5.3 TS 38.101-2 [3], where  $BW^{(j)}$  is the UE supported maximum bandwidth in the given band or band combination.

 $OH^{(j)}$  is the overhead and takes the following values

0.14, for frequency range FR1 for DL 0.18, for frequency range FR2 for DL 0.08, for frequency range FR1 for UL 0.10, for frequency range FR2 for UL

NOTE: Only one of the UL or SUL carriers (the one with the higher data rate) is counted for a cell operating SUL.

The approximate maximum data rate can be computed as the maximum of the approximate data rates computed using the above formula for each of the supported band or band combinations.

For single carrier NR SA operation, the UE shall support a data rate for the carrier that is no smaller than the data rate computed using the above formula, with  $J = 1 \ CC$  and component  $v_{Layers}^{(j)} \cdot Q_m^{(j)} \cdot f^{(j)}$  is no smaller than 4.

NOTE: As an example, the value 4 in the component above can correspond to  $v_{Layers}^{(j)} = 1$ ,  $Q_m^{(j)} = 4$  and  $f^{(j)} = 1$ .

For EUTRA in case of MR-DC, the approximate data rate for a given number of aggregated carriers in a band or band combination is computed as follows.

Data rate (in Mbps) = 
$$10^{-3} \cdot \sum_{j=1}^{J} TBS_j$$

wherein

J is the number of aggregated EUTRA component carriers in MR-DC band combination

 $TBS_j$  is the total maximum number of DL-SCH transport block bits received or the total maximum number of UL-SCH transport block bits transmitted, within a 1ms TTI for j-th CC, as derived from TS36.213 [19] based on the UE supported maximum MIMO layers for the j-th CC, and based on the maximum modulation order for the j-th CC and number of PRBs based on the bandwidth of the j-th CC according to indicated UE capabilities.

The approximate maximum data rate can be computed as the maximum of the approximate data rates computed using the above formula for each of the supported band or band combinations.

For MR-DC, the approximate maximum data rate is computed as the sum of the approximate maximum data rates from NR and EUTRA.

### 4.1.3 Void

### 4.1.4 Total layer 2 buffer size

The total layer 2 buffer size is defined as the sum of the number of bytes that the UE is capable of storing in the RLC transmission windows and RLC reception and reassembly windows and also in PDCP reordering windows for all radio bearers.

The required total layer 2 buffer size in MR-DC and NR-DC is the maximum value of the calculated values based on the following equations:

- MaxULDataRate\_MN \* RLCRTT\_MN + MaxULDataRate\_SN \* RLCRTT\_SN + MaxDLDataRate\_SN \* RLCRTT\_SN + MaxDLDataRate\_MN \* (RLCRTT\_SN + X2/Xn delay + Queuing in SN)
- MaxULDataRate\_MN \* RLCRTT\_MN + MaxULDataRate\_SN \* RLCRTT\_SN + MaxDLDataRate\_MN \* RLCRTT\_MN + MaxDLDataRate\_SN \* (RLCRTT\_MN + X2/Xn delay + Queuing in MN)

Otherwise it is calculated by MaxDLDataRate \* RLC RTT + MaxULDataRate \* RLC RTT.

NOTE: Additional L2 buffer required for preprocessing of data is not taken into account in above formula.

The required total layer 2 buffer size is determined as the maximum total layer 2 buffer size of all the calculated ones for each band combination and the applicable Feature Set combination in the supported MR-DC or NR band combinations. The RLC RTT for NR cell group corresponds to the smallest SCS numerology supported in the band combination and the applicable Feature Set combination.

wherein

X2/Xn delay + Queuing in SN = 25ms if SCG is NR, and 55ms if SCG is EUTRA

X2/Xn delay + Queuing in MN = 25ms if MCG is NR, and 55ms if MCG is EUTRA

RLC RTT for EUTRA cell group = 75ms

RLC RTT for NR cell group is defined in Table 4.1.4-1

SCS (KHz)	RLC RTT (ms)
15KHz	50
30KHz	40
60KHz	30
120KHz	20

Table 4.1.4-1: RLC RTT for NR cell group per SCS

### 4.2 UE Capability Parameters

#### 4.2.1 Introduction

The following clauses define the UE radio access capability parameters. Only parameters for which there is the possibility for UEs to signal different values are considered as UE radio access capability parameters. Therefore, mandatory features without capability parameters that are the same for all UEs are not listed here.

The network needs to respect the signalled UE radio access capability parameters when configuring the UE and when scheduling the UE.

The UE may support different functionalities between FDD and TDD, and/or between FR1 and FR2. The UE shall indicate the UE capabilities as follows. In the table of UE capability parameter in subsequent clauses, "Yes" in the column by "FDD-TDD DIFF" and "FR1-FR2 DIFF" indicates the UE capability field can have a different value for between FDD and TDD or between FR1 and FR2 and "No" indicates if it cannot. Regarding to the per UE capabilities that are FDD/TDD differentiated (i.e. capabilities indicated as "Yes" in the column by "FDD-TDD DIFF"), the corresponding capabilities indicated by the FDD capability is applied to SUL if SUL band is supported by the UE. "FD" in the column indicates to refer the associated field description. "FR1 only" or "FR2 only" in the column indicates the associated feature is only supported in FR1 or FR2 and "TDD only" indicates it is not applicable to the feature (e.g. the signaling supports the UE to have different values between FDD and TDD or between FR1 and FR2).

- 1> set all fields of UE-NR/MRDC-Capability except fdd-Add-UE-NR/MRDC-Capabilities, tdd-Add-UE-NR/MRDC-Capabilities, fr1-Add-UE-NR/MRDC-Capabilities and fr2-Add-UE-NR/MRDC-Capabilities, to include the values applicable for all duplex mode(s) and frequency range(s) that the UE supports;
- 1> if UE supports both FDD (or SUL) and TDD and if (some of) the UE capability fields have a different value for FDD (or SUL) and TDD
  - 2> if for FDD (and, if the UE supports SUL, for SUL), the UE supports additional functionality compared to what is indicated by the previous fields of UE-NR/MRDC-Capability:
    - 3> include field fdd-Add-UE-NR/MRDC-Capabilities and set it to include fields reflecting the additional functionality applicable for FDD;
  - 2> if for TDD, the UE supports additional functionality compared to what is indicated by the previous fields of UE-NR/MRDC-Capability:
    - 3> include field tdd-Add-UE-NR/MRDC-Capabilities and set it to include fields reflecting the additional functionality applicable for TDD;
- 1> if UE supports both FR1 and FR2 and if (some of) the UE capability fields have a different value for FR1 and FR2:
  - 2> if for FR1, the UE supports additional functionality compared to what is indicated by the previous fields of UE-NR/MRDC-Capability:
    - 3> include field fr1-Add-UE-NR/MRDC-Capabilities and set it to include fields reflecting the additional functionality applicable for FR1;
  - 2> if for FR2, the UE supports additional functionality compared to what is indicated by the previous fields of UE-NR/MRDC-Capability:

- 3> include field fr2-Add-UE-NR/MRDC-Capabilities and set it to include fields reflecting the additional functionality applicable for FR2;
- NOTE 1: The fields which indicate "shall be set to 1" or "shall be set to *supported*" in the following tables means these features are purely mandatory and are assumed they are the same as mandatory without capability signaling.
- NOTE 2: For the case where the UE is allowed to support different functionality between FDD and TDD and between FR1 and FR2 according to the specification, the UE capability indication is clarified in Annex B.

For optional features, the UE radio access capability parameter indicates whether the feature has been implemented and successfully tested. For mandatory features with the UE radio access capability parameter, the parameter indicates whether the feature has been successfully tested. In the table of UE capability parameter in subsequent clauses, "Yes" in the column by "M" indicates the associated feature is mandatory and "No" indicates the associated feature is optional. "CY" in the column indicates the associated feature is conditional mandatory and the condition is described in the field description and the associated feature is considered mandatory with capability parameter, when the described condition is satisfied. "FD" in the column indicates to refer the associated field description. Some parameters in subsequent clauses are not related to UE features and in the case, "N/A" is indicated in the column.

UE capability parameters have hierarchical structure. In the table of UE capability parameter in subsequent clauses, "Per" indicates the level the associated parameter is included. "UE" in the column indicates the associated parameter is signalled per UE, "Band" indicates it is signalled per band, "BC" indicates it is signalled per band combination, "FS" indicates it is signalled per feature set (per band per band combination), "FSPC" indicates it is signalled per feature set per component carrier (per CC per band per band combination), and "FD" in the column indicates to refer the associated field description.

# 4.2.2 General parameters

Definitions for parameters	Per	М	FDD- TDD DIFF	FR1- FR2 DIFF
<i>accessStratumRelease</i> Indicates the access stratum release the UE supports as specified in TS 38.331 [9].	UE	Yes	No	No
<i>delayBudgetReporting</i> Indicates whether the UE supports delay budget reporting as specified in TS 38.331 [9].	UE	No	No	No
<i>inactiveState</i> Indicates whether the UE supports RRC_INACTIVE as specified in TS 38.331 [9].	UE	Yes	No	No
overheatingInd Indicates whether the UE supports overheating assistance information.	UE	No	No	No
<b>partialFR2-FallbackRX-Req</b> Indicates whether the UE meets only a partial set of the UE minimum receiver requirements for the eligible FR2 fallback band combinations as defined in Clause 4.2 of TS 38.101-2 [3] and Clause 4.2 of TS 38.101-3 [4]. If not indicated, the UE shall meet all the UE minimum receiver requirements for all the FR2 fallback combinations in TS 38.101-2 [3] and TS 38.101-3 [4]. The UE shall support configuration of any of the FR2 fallback band combinations regardless of the presence or the absence of this field.	UE	No	No	No
<i>reducedCP-Latency</i> Indicates whether the UE supports reduced control plane latency as defined in TS 38.331 [9]	UE	No	No	No
<i>splitSRB-WithOneUL-Path</i> Indicates whether the UE supports UL transmission via MCG path and DL reception via either MCG path or SCG path, as specified for the split SRB in TS 37.340 [7]. The UE shall not set the FDD/TDD specific fields for this capability (i.e. it shall not include this field in UE-MRDC-CapabilityAddXDD-Mode).	UE	No	No	No
<b>splitDRB-withUL-Both-MCG-SCG</b> Indicates whether the UE supports UL transmission via both MCG path and SCG path for the split DRB as specified in TS 37.340 [7]. The UE shall not set the FDD/TDD specific fields for this capability (i.e. it shall not include this field in UE-MRDC-CapabilityAddXDD-Mode).	UE	Yes	No	No
<i>srb3</i> Indicates whether the UE supports direct SRB between the SN and the UE as specified in TS 37.340 [7]. The UE shall not set the FDD/TDD specific fields for this capability (i.e. it shall not include this field in <i>UE-MRDC-CapabilityAddXDD-Mode</i> ). This field is not applied to NE-DC.	UE	Yes	No	No

### 4.2.3 SDAP Parameters

Definitions for parameters	Per	Μ	FDD- TDD DIFF
as-ReflectiveQoS	UE	No	No
Indicates whether the UE supports AS reflective QoS.			

### 4.2.4 PDCP Parameters

Definitions for parameters	Per	M	FDD- TDD DIFF
<i>continueROHC-Context</i> Defines whether the UE supports ROHC context continuation operation where the UE does not reset the current ROHC context upon PDCP re-establishment, as specified in TS 38.323 [16].	UE	No	No
<i>maxNumberROHC-ContextSessions</i> Defines the maximum number of header compression context sessions supported by the UE, excluding context sessions that leave all headers uncompressed.	UE	No	No
outOfOrderDelivery Indicates whether UE supports out of order delivery of data to upper layers by PDCP.	UE	No	No
<i>pdcp-DuplicationMCG-OrSCG-DRB</i> Indicates whether the UE supports CA-based PDCP duplication over MCG or SCG DRB as specified in TS 38.323 [16].	UE	No	No
<i>pdcp-DuplicationSplitDRB</i> Indicates whether the UE supports PDCP duplication over split DRB as specified in TS 38.323 [16].	UE	No	No
<i>pdcp-DuplicationSplitSRB</i> Indicates whether the UE supports PDCP duplication over split SRB1/2 as specified in TS 38.323 [16].	UE	No	No
<i>pdcp-DuplicationSRB</i> Indicates whether the UE supports CA-based PDCP duplication over SRB1/2 and/or, if (NG)EN-DC is supported, SRB3 as specified in TS 38.323 [16].	UE	No	No
shortSN Indicates whether the UE supports 12 bit length of PDCP sequence number.	UE	Yes	No
<ul> <li>supportedROHC-Profiles</li> <li>Defines which ROHC profiles from the list below are supported by the UE: <ul> <li>0x0000 ROHC No compression (RFC 5795)</li> <li>0x0001 ROHC RTP/UDP/IP (RFC 3095, RFC 4815)</li> <li>0x0002 ROHC UDP/IP (RFC 3095, RFC 4815)</li> <li>0x0003 ROHC ESP/IP (RFC 3095, RFC 4815)</li> <li>0x0004 ROHC IP (RFC 3843, RFC 4815)</li> <li>0x0006 ROHC TCP/IP (RFC 6846)</li> <li>0x0101 ROHC RTP/UDP/IP (RFC 5225)</li> <li>0x0102 ROHC UDP/IP (RFC 5225)</li> <li>0x0103 ROHC ESP/IP (RFC 5225)</li> <li>0x0104 ROHC IP (RFC 5225)</li> </ul> </li> <li>A UE that supports one or more of the listed ROHC profiles shall support ROHC profile 0x0000 ROHC uncompressed (RFC 5795).</li> <li>An IMS voice capable UE shall indicate support of ROHC profiles 0x0000, 0x0001, 0x0002 and be able to compress and decompress headers of PDCP SDUs at a PDCP SDU rate corresponding to supported IMS voice codecs.</li> </ul>	UE	No	No
uplinkOnlyROHC-Profiles         Indicates the ROHC profile(s) that are supported in uplink-only ROHC operation by the UE.         -       0x0006 ROHC TCP (RFC 6846)	UE	No	No
A UE that supports uplink-only ROHC profile(s) shall support ROHC profile 0x0000 ROHC uncompressed (RFC 5795).			

# 4.2.5 RLC parameters

Definitions for parameters	Per	М	FDD- TDD DIFF
am-WithShortSN	UE	Yes	No
Indicates whether the UE supports AM DRB with 12 bit length of RLC sequence number.			
um-WithLongSN	UE	Yes	No
Indicates whether the UE supports UM DRB with 12 bit length of RLC sequence number.			
um-WithShortSN	UE	Yes	No
Indicates whether the UE supports UM DRB with 6 bit length of RLC sequence number.			

# 4.2.6 MAC parameters

Definitions for parameters	Per	М	FDD- TDD DIFF	FR1- FR2 DIFF
Ich-ToSCellRestriction Indicates whether the UE supports restricting data transmission from a given LCH to a configured (sub-) set of serving cells (see <i>allowedServingCells</i> in <i>LogicalChannelConfig</i> ). A UE supporting <i>pdcp-DuplicationMCG-OrSCG-DRB</i> or <i>pdcp- DuplicationSRB</i> (see <i>PDCP-Config</i> ) shall also support <i>Ich-ToSCellRestriction</i> .	UE	No	No	No
<i>Icp-Restriction</i> Indicates whether UE supports the selection of logical channels for each UL grant based on RRC configured restriction using RRC parameters <i>allowedSCS-List</i> , <i>maxPUSCH-Duration</i> , and <i>configuredGrantType1Allowed</i> as specified in TS 38.321 [8].	UE	No	No	No
<b>logicalChannelSR-DelayTimer</b> Indicates whether the UE supports the <i>logicalChannelSR-DelayTimer</i> as specified in TS 38.321 [8].	UE	No	Yes	No
<i>longDRX-Cycle</i> Indicates whether UE supports long DRX cycle as specified in TS 38.321 [8].	UE	Yes	Yes	No
<i>multipleConfiguredGrants</i> Indicates whether UE supports more than one configured grant configurations (including both Type 1 and Type 2) in a cell group. For each cell, the UE supports at most one configured grant per BWP and the maximum number of configured grant configurations per cell group is 2. If absent, for each configured cell group, the UE only supports one configured grant configuration on one serving cell.	UE	No	Yes	No
<i>multipleSR-Configurations</i> Indicates whether the UE supports 8 SR configurations per PUCCH cell group as specified in TS 38.321 [8].	UE	No	Yes	No
<i>recommendedBitRate</i> Indicates whether the UE supports the bit rate recommendation message from the gNB to the UE as specified in TS 38.321 [8].	UE	No	No	No
<b>recommendedBitRateQuery</b> Indicates whether the UE supports the bit rate recommendation query message from the UE to the gNB as specified in TS 38.321 [8]. This field is only applicable if the UE supports <i>recommendedBitRate</i> .	UE	No	No	No
shortDRX-Cycle Indicates whether UE supports short DRX cycle as specified in TS 38.321 [8].	UE	Yes	Yes	No
<i>skipUplinkTxDynamic</i> Indicates whether the UE supports skipping of UL transmission for an uplink grant indicated on PDCCH if no data is available for transmission as specified in TS 38.321 [8].	UE	No	Yes	No

# 4.2.7 Physical layer parameters

4.2.7.1 *BandCombinationList* parameters

Definitions for parameters	Per	М	FDD- TDD DIFF	FR1- FR2 DIFF
<b>bandEUTRA</b> Defines supported EUTRA frequency band by NR frequency band number, as specified in TS 36.101 [14].	Band	Yes	N/A	N/A
<i>bandList</i> Each entry of the list should include at least one bandwidth class for UL or DL.	BC	Yes	N/A	N/A
<i>bandNR</i> Defines supported NR frequency band by NR frequency band number, as specified in TS 38.101-1 [2] and TS 38.101-2 [3].	Band	Yes	N/A	N/A
<i>ca-BandwidthClassDL-EUTRA</i> Defines for DL, the class defined by the aggregated transmission bandwidth configuration and maximum number of component carriers supported by the UE, as specified in TS 36.101 [14]. When all FeatureSetEUTRA-DownlinkId:s in the corresponding FeatureSetsPerBand are zero, this field is absent.	Band	No	N/A	N/A
<i>ca-BandwidthClassDL-NR</i> Defines for DL, the class defined by the aggregated transmission bandwidth configuration and maximum number of component carriers supported by the UE, as specified in TS 38.101-1 [2] and TS 38.101-2 [3]. When all FeatureSetDownlinkId:s in the corresponding FeatureSetsPerBand are zero, this field is absent. For FR1, the value 'F' shall not be used as it is invalidated in TS 38.101-1 [2].	Band	No	N/A	N/A
<i>ca-BandwidthClassUL-EUTRA</i> Defines for UL, the class defined by the aggregated transmission bandwidth configuration and maximum number of component carriers supported by the UE, as specified in TS 36.101 [14]. When all FeatureSetEUTRA-UplinkId:s in the corresponding FeatureSetsPerBand are zero, this field is absent.	Band	No	N/A	N/A
<i>ca-BandwidthClassUL-NR</i> Defines for UL, the class defined by the aggregated transmission bandwidth configuration and maximum number of component carriers supported by the UE, as specified in TS 38.101-1 [2] and TS 38.101-2 [3]. When all FeatureSetUplinkId:s in the corresponding FeatureSetsPerBand are zero, this field is absent. For FR1, the value 'F' shall not be used as it is invalidated in TS 38.101-1 [2].	Band	No	N/A	N/A
<i>ca-ParametersEUTRA</i> Contains the EUTRA part of band combination parameters for a given (NG)EN- DC/NE-DC band combination.	BC	No	N/A	N/A
<i>ca-ParametersNR</i> Contains the NR band combination parameters for a given (NG)EN-DC/NE-DC and/or NR CA band combination.	BC	No	N/A	N/A
<b>ca-ParametersNRDC</b> Indicates whether the UE supports NR-DC for the band combination. It contains the NR band combination parameters applicable across MCG and SCG. In this version of the standard, a UE indicating support for NR-DC supports only configuration where all serving cells of the MCG are in FR1 and all serving cells of the SCG are in FR2.	BC	No	N/A	N/A
featureSetCombination Indicates the feature set that the UE supports on the NR and/or MR-DC band combination by FeatureSetCombinationId.	BC	N/A	N/A	N/A
<i>mrdc-Parameters</i> Contains the band combination parameters for a given (NG)EN-DC/NE-DC band combination.	BC	No	N/A	N/A
<i>ne-DC-BC</i> Indicates whether the UE supports NE-DC for the band combination.	BC	No	N/A	N/A
<b>powerClass</b> Indicates power class the UE supports WE-DO for the band combination. Indicates power class the UE supports when operating according to this band combination. If the field is absent, the UE supports the default power class. If this power class is higher than the power class that the UE supports on the individual bands of this band combination ( <i>ue-PowerClass</i> in <i>BandNR</i> ), the latter determines maximum TX power available in each band. The UE sets the power class parameter only in band combinations that are applicable as specified in TS 38.101- 1 [2] and TS 38.101-3 [4].	BC	No	N/A	FR1 only

<b>SRS-SwitchingTimeNR</b> Indicates the interruption time on DL/UL reception within a NR band pair during the RF retuning for switching between a carrier on one band and another (PUSCH-less) carrier on the other band to transmit SRS. <i>switchingTimeDL/ switchingTimeUL</i> : n0us represents 0 us, n30us represents 30us, and so on. <i>switchingTimeDL/ switchingTimeUL</i> is mandatory present if switching between the NR band pair is supported, otherwise the field is absent. It is signalled per pair of bands per band combination.	FD	No	N/A	N/A
<b>SRS-SwitchingTimeEUTRA</b> Indicates the interruption time on DL/UL reception within a EUTRA band pair during the RF retuning for switching between a carrier on one band and another (PUSCH- less) carrier on the other band to transmit SRS. <i>switchingTimeDL/</i> <i>switchingTimeUL</i> : n0 represents 0 OFDM symbols, n0dot5 represents 0.5 OFDM symbols, n1 represents 1 OFDM symbol and so on. <i>switchingTimeDL/</i> <i>switchingTimeUL</i> is mandatory present if switching between the EUTRA band pair is supported, otherwise the field is absent. It is signalled per pair of bands per band combination.	FD	No	N/A	N/A
<ul> <li>srs-TxSwitch Defines whether UE supports SRS for DL CSI acquisition as defined in clause 6.2.1.2 of TS 38.214 [12]. The capability signalling comprises of the following parameters: <ul> <li>supportedSRS-TxPortSwitch indicates SRS Tx port switching pattern supported by the UE. The indicated UE antenna switching capability of 'xTyR' corresponds to a UE, capable of SRS transmission on 'x' antenna ports over total of 'y' antennas, where 'y' corresponds to all or subset of UE receive antennas, where 2T4R is two pairs of antennas;</li> <li>txSwitchImpactToRx indicates the entry number of the first-listed band with UL (see NOTE) in the band combination that affects this DL;</li> <li>txSwitchImpactToRx and txSwitchWithAnotherBand, value 1 means first entry, value 2 means second entry and so on. All DL and UL that switch together indicate the same entry number.</li> </ul> </li> <li>For txSwitchImpactToRx and txSwitchWithAnotherBand, value 1 means first entry, value 2 means second entry and so on. All DL and UL that switch together indicate the same entry number.</li> <li>The entry number is the band combinations for the purpose of indicating different SRS antenna switching capabilities.</li> </ul> NOTE: The first-listed band with UL includes a band associated with FeatureSetUplinkId set to 0 corresponding to the support of SRS-	BC	Yes	N/A	N/A
SwitchingTimeNR.           supportedBandwidthCombinationSet           Defines the supported bandwidth combination set for a band combination as           defined in TS 38.101-1 [2], TS 38.101-2 [3] and TS 38.101-3 [4]. For NR SA CA,           NR-DC, inter-band (NG)EN-DC without intra-band (NG)EN-DC component, inter- band NE-DC without intra-band NE-DC component and intra-band (NG)EN-DC/NE- DC with additional inter-band NR CA component, the field defines the bandwidth           combinations for the NR part of the band combination. For intra-band (NG)EN- DC/NE-DC without additional inter-band NR and LTE CA component, the field indicates the supported bandwidth combination set applicable to intra-band (NG)EN-DC/NE-DC band combination.           Field encoded as a bit map, where bit N is set to "1" if UE support Bandwidth Combination Set N for this band combination as defined in the TS 38.101-1 [2], TS 38.101-2 [3] and TS 38.101-3 [4]. The leading / leftmost bit (bit 0) corresponds to the Bandwidth Combination Set 0, the next bit corresponds to the Bandwidth Combination Set 1 and so on.           It is mandatory if         -           the band combination has more than one NR carrier (at least one SCell in an NR cell group);         -           or is an intra-band (NG)EN-DC/NE-DC combination without additional inter- band NR and LTE CA component;         -	BC	CY	N/A	N/A

	50	01		
supportedBandwidthCombinationSetIntraENDC	BC	CY	N/A	N/A
Defines the supported bandwidth combination set for a band combination that				
allows configuration of at least one EUTRA serving cell and at least one NR serving				
cell in the same band, as defined in the TS 38.101-3 [4], table 5.3B.1.2-1 and table				
5.3B.1.3-1.				
<ul> <li>For intra-band (NG)EN-DC with additional inter-band CA component(s) of</li> </ul>				
LTE and/or NR, the field defines the bandwidth combinations for the intra-				
band (NG)EN-DC component.				
- For intra-band NE-DC with additional inter-band CA component(s) of LTE				
and/or NR, the field defines the bandwidth combinations for the intra-band				
NE-DC component.				
Field encoded as a bit map, where bit N is set to "1" if UE support Bandwidth				
Combination Set N for this band combination as defined in the TS 38.101-3 [4]. The				
leading / leftmost bit (bit 0) corresponds to the Bandwidth Combination Set 0, the				
next bit corresponds to the Bandwidth Combination Set 1 and so on.				
- It is mandatory if the band combination is an intra-band (NG)EN-DC/NE-DC				
combination supporting both UL and DL intra-band (NG)EN-DC/NE-DC parts				
with additional inter-band NR/LTE CA component.				
- It is optional if the band combination is an intra-band (NG)EN-DC/NE-DC				
combination without supporting UL in both the bands of the intra-band				
(NG)EN-DC/NE-DC UL part. If not included, the network assumes the UE				
supports BCS0 as defined in TS 38.101-3 [4], table 5.3B.1.2-1 and table				
5.3B.1.3-1 for the intra-band (NG)EN-DC/NE-DC.				

### 4.2.7.2 BandNR parameters

Definitions for parameters	Per	М	FDD- TDD DIFF	FR1- FR2 DIFF
additionalActiveTCI-StatePDCCH Indicates whether the UE supports one additional active TCI-State for control in addition to the supported number of active TCI-States for PDSCH. The UE can include this field only if maxNumberActiveTCI-PerBWP in tci-StatePDSCH is set to n1. Otherwise, the UE does not include this field.	Band	CY	N/A	N/A
<i>aperiodicBeamReport</i> Indicates whether the UE supports aperiodic 'CRI/RSRP' or 'SSBRI/RSRP' reporting on PUSCH. The UE provides the capability for the band number for which the report is provided (where the measurement is performed).	Band	Yes	N/A	N/A
<i>aperiodicTRS</i> Indicates whether the UE supports DCI triggering aperiodic TRS associated with periodic TRS.	Band	No	N/A	N/A
<b>asymmetricBandwidthCombinationSet</b> Defines the supported asymmetric channel bandwidth combination for the band as defined in the TS 38.101-1 [2]. Field encoded as a bit map, where bit N is set to "1" if UE support asymmetric channel bandwidth combination set N for this band as defined in the TS 38.101-1 [2]. The leading / leftmost bit (bit 0) corresponds to the asymmetric channel bandwidth combination set 1, the next bit corresponds to the asymmetric channel bandwidth combination set 2 and so on. UE shall support asymmetric channel bandwidth combination set 0. If the field is absent, the UE supports asymmetric channel bandwidth combination set 0.	Band	No	No	No
<b>bandNR</b> Defines supported NR frequency band by NR frequency band number, as specified in TS 38.101-1 [2] and TS 38.101-2 [3].	Band	Yes	N/A	N/A
<b>beamCorrespondenceWithoutUL-BeamSweeping</b> Indicates how UE supports FR2 beam correspondence as specified in TS 38.101-2 [3], clause 6.6. The UE that fulfils the beam correspondence requirement without the uplink beam sweeping (as specified in TS 38.101-2 [3], clause 6.6) shall set the field to <i>supported</i> . The UE that fulfils the beam correspondence requirement with the uplink beam sweeping (as specified in TS 38.101-2 [3], clause 6.6) shall not report this field.	Band	Yes	N/A	FR2 only

beamManagementSSB-CSI-RS	Band	Yes	N/A	FD
Defines support of SS/PBCH and CSI-RS based RSRP measurements. The				
capability comprises signalling of				
<ul> <li>maxNumberSSB-CSI-RS-ResourceOneTx indicates maximum total number</li> </ul>				
of configured one port NZP CSI-RS resources and SS/PBCH blocks that are				
supported by the UE to measure L1-RSRP as specified in TS 38.215 [13]				
within a slot and across all serving cells (see NOTE). On FR2, it is				
mandatory to report >=8; On FR1, it is mandatory with capability signalling to				
report >=8.				
- maxNumberCSI-RS-Resource indicates maximum total number of				
configured NZP-CSI-RS resources that are supported by the UE to measure				
L1-RSRP as specified in TS 38.215 [13] across all serving cells (see NOTE).				
It is mandated to report at least n8 for FR1.				
<ul> <li>maxNumberCSI-RS-ResourceTwoTx indicates maximum total number of two</li> </ul>				
ports NZP CSI-RS resources that are supported by the UE to measure L1-				
RSRP as specified in TS 38.215 [13] within a slot and across all serving cells				
(see NOTE).				
- supported CSL-RS-Density indicates density of one PE par PPP for one part				
<ul> <li>supportedCSI-RS-Density indicates density of one RE per PRB for one port NZP CSI-RS resource for RSRP reporting, if supported. On FR2, it is</li> </ul>				
mandatory to report either "three" or "oneAndThree"; On FR1, it is				
mandatory with capability signalling to report either "three" or				
"oneAndThree".				
- maxNumberAperiodicCSI-RS-Resource indicates maximum number of				
configured aperiodic CSI-RS resources across all serving cells (see NOTE).				
For FR1 and FR2, the UE is mandated to report at least n4.				
NOTE: If the LIE acts a value of her then no in an ED4 hand, it shall act that some				
NOTE: If the UE sets a value other than <i>n0</i> in an FR1 band, it shall set that same value in all FR1 bands. If the UE sets a value other than <i>n0</i> in an FR2				
band, it shall set that same value in all FR2 bands. The UE supports a				
total number of resources equal to the maximum of the FR1 and FR2				
value, but no more than the FR1 value across all FR1 serving cells and				
no more than the FR2 value across all FR2 serving cells.				
beamReportTiming	Band	Yes	N/A	N/A
Indicates the number of OFDM symbols between the last symbol of SSB/CSI-RS				
and the first symbol of the transmission channel containing beam report. The UE				
provides the capability for the band number for which the report is provided (where				
the measurement is performed). The UE includes this field for each supported sub-				
carrier spacing.				
beamSwitchTiming	Band	No	N/A	FR2
Indicates the minimum number of OFDM symbols between the DCI triggering of				only
aperiodic CSI-RS and aperiodic CSI-RS transmission. The number of OFDM symbols is measured from the last symbol containing the indication to the first				
symbol of CSI-RS. The UE includes this field for each supported sub-carrier				
spacing.				
NOTE: <i>beamSwitchTiming</i> of value (sym224 or sym336) will be used to				
determine UE expectation/behaviour for aperiodic CSI-RS for tracking				
and latency requirements for L1-RSRP reporting as described in clause				
5.1.6.1.1 of TS 38.214 [12], while UE behaviour/assumption regarding				
before or after beam switch timing is unspecified for measuring AP CSI-				
RS for CSI acquisition (without trs-Info and without repetition) and for				
beam management (with repetition 'off').				
bwp-DiffNumerology	Band	No	N/A	N/A
Indicates whether the UE supports BWP adaptation up to 4 BWPs with the different				
numerologies, via DCI and timer. Except for SUL, the UE only supports the same				
numerology for the active UL and DL BWP. For the UE capable of this feature, the				
bandwidth of a UE-specific RRC configured DL BWP includes the bandwidth of the				
CORESET#0 (if CORESET#0 is present) and SSB for PCell and PSCell (if				
configured). For SCell(s), the bandwidth of the UE-specific RRC configured DL				
BWP includes SSB, if there is SSB on SCell(s).				

Indicates	neNumerology whether UE supports BWP adaptation (up to 2/4 BWPs) with the same	Band	No	N/A	N/A
	ogy, via DCI and timer. Except for SUL, the UE only supports the same				
	bgy for the active UL and DL BWP. For the UE capable of this feature, the				
	h of a UE-specific RRC configured DL BWP includes the bandwidth of the				
	T#0 (if CORESET#0 is present) and SSB for PCell and PSCell (if				
	ed). For SCell(s), the bandwidth of the UE-specific RRC configured DL				
	ludes SSB, if there is SSB on SCell(s).				
	houtRestriction	Band	No	N/A	N/A
	support of BWP operation without bandwidth restriction. The Bandwidth				
	n in terms of DL BWP for PCell and PSCell means that the bandwidth of a				
UE-speci	ific RRC configured DL BWP may not include the bandwidth of CORESET				
#0 (if cor	figured) and SSB. For SCell(s), it means that the bandwidth of DL BWP				
may not i	include SSB.				
channel	BWs-DL	Band	Yes	N/A	N/A
	for each subcarrier spacing the UE supported channel bandwidths.				
	of the <i>channelBWs-DL</i> (without suffix) for a band or absence of specific				
	Hz entry for a supported subcarrier spacing means that the UE supports the				
	pandwidths among [5, 10, 15, 20, 25, 30, 40, 50, 60, 80, 100] and [50, 100,				
	were defined in clause 5.3.5 of TS 38.101-1 version 15.7.0 [2] and TS				
	version 15.7.0 [3] for the given band or the specific SCS entry.				
	the bits in <i>channelBWs-DL</i> (without suffix) starting from the leading /				
	bit indicate 5, 10, 15, 20, 25, 30, 40, 50, 60 and 80MHz. For FR2, the bits in				
	BWs-DL (without suffix) starting from the leading / leftmost bit indicate 50,				
	200MHz. The third / rightmost bit (for 200MHz) shall be set to 1.				
	the leading/leftmost bit in channelBWs-DL-v1590 indicates 70MHz, the				
	eftmost bit indicates 45MHz, the third leftmost bit indicates 35MHz and all				
the rema	ining bits in <i>channelBWs-DL-v1590</i> shall be set to 0.				
NOTE:	To determine whether the UE supports a specific CCC for a siven hand				
NOTE.	To determine whether the UE supports a specific SCS for a given band, the network validates the <i>supportedSubCarrierSpacingDL</i> and the <i>scs</i> -				
	60kHz.				
	To determine whether the UE supports a channel bandwidth of 90 MHz,				
	the network may ignore this capability and validate instead the				
	channelBW-90mhz, the supportedBandwidthCombinationSet and the				
	supportedBandwidthCombinationSetIntraENDC. For serving cell(s) with				
	other channel bandwidths the network validates the <i>channelBWs-DL</i> , the				
	supportedBandwidthCombinationSet, the				
	supportedBandwidthCombinationSet, the supportedBandwidthCombinationSetIntraENDC, the				
	asymmetricBandwidthCombinationSet (for a band supporting asymmetric				
	channel bandwidth as defined in clause 5.3.6 of TS 38.101-1 [2]) and				
	supportedBandwidthDL.				
	supporteubandwidthDL.				

channel	BWs-UL	Band	Yes	N/A	N/A
Indicates	for each subcarrier spacing the UE supported channel bandwidths.				
Absence	of the channelBWs-UL (without suffix) for a band or absence of specific				
	Iz entry for a supported subcarrier spacing means that the UE supports the				
	pandwidths among [5, 10, 15, 20, 25, 30, 40, 50, 60, 80, 100] and [50, 100,				
	were defined in clause 5.3.5 of TS 38.101-1 version 15.7.0 [2] and TS				
	version 15.7.0 [3] for the given band or the specific SCS entry.				
	the bits in channelBWs-UL (without suffix) starting from the leading /				
	bit indicate 5, 10, 15, 20, 25, 30, 40, 50, 60 and 80MHz. For FR2, the bits in				
	<i>BWs-UL</i> (without suffix) starting from the leading / leftmost bit indicate 50,				
	200MHz. The third / rightmost bit (for 200MHz) shall be set to 1.				
	the leading/leftmost bit in <i>channelBWs-UL-v1590</i> indicates 70 MHz, the				
	eftmost bit indicates 45MHz, the third leftmost bit indicates 35MHz and all				
Ine rema	ining bits in <i>channelBWs-UL-v1590</i> shall be set to 0.				
NOTE:	To determine whether the UE supports a specific SCS for a given band,				
	the network validates the supportedSubCarrierSpacingUL and the scs-				
	60kHz.				
	To determine whether the UE supports a channel bandwidth of 90 MHz				
	the network may ignore this capability and validate instead the				
	channelBW-90mhz, the supportedBandwidthCombinationSet and the				
	supportedBandwidthCombinationSetIntraENDC. For serving cell(s) with				
	other channel bandwidths the network validates the channelBWs-UL, the				
	supportedBandwidthCombinationSet, the				
	supportedBandwidthCombinationSetIntraENDC, the				
	asymmetricBandwidthCombinationSet (for a band supporting asymmetric				
	channel bandwidth as defined in clause 5.3.6 of TS 38.101-1 [2]) and				
	supportedBandwidthUL.				

codebookParameters	Band	FD	N/A	N/A
Indicates the codebooks and the corresponding parameters supported by the UE.				
Parameters for type I single panel codebook (type1 singlePanel) supported by the				
UE, which are mandatory to report:				
- supportedCSI-RS-ResourceList,				
- a UE shall support a maxNumberTxPortsPerResource minimum value of				
4 for codebook type I single panel in FR1 in the case of a single active				
CSI-resource across all bands in a band combination, regardless of what				
it reports in supportedCSI-RS-ResourceList with				
maxNumberTxPortsPerResource;				
<ul> <li>a UE shall support a maxNumberTxPortsPerResource minimum value of</li> </ul>				
8 when configured with wideband CSI report for codebook type I single				
panel in FR1 in the case of a single active CSI-resource across all bands				
in a band combination, regardless of what it reports in <i>supportedCSI-RS</i> -				
ResourceList with maxNumberTxPortsPerResource;				
- a UE shall support a <i>maxNumberTxPortsPerResource</i> minimum value of				
2 for codebook type I single panel in FR2 in the case of a single active				
CSI-resource across all bands in a band combination, regardless of what it reports in <i>supportedCSI-RS-ResourceList</i> with				
maxNumberTxPortsPerResource.				
- modes indicates supported codebook modes (mode 1, both mode 1 and				
mode 2);				
- maxNumberCSI-RS-PerResourceSet indicates the maximum number of CSI-				
RS resource in a resource set.				
Parameters for type I multi-panel codebook (type1 multiPanel) supported by the UE,				
which are optional:				
- supportedCSI-RS-ResourceList, modes indicates supported addeback modes (mode 1, mode 2, or both				
<ul> <li>modes indicates supported codebook modes (mode 1, mode 2, or both mode 1 and mode 2);</li> </ul>				
- maxNumberCSI-RS-PerResourceSet indicates the maximum number of CSI-				
RS resource in a resource set:				
- nrofPanels indicates supported number of panels.				
Parameters for type II codebook (type2) supported by the UE, which are optional:				
- supportedCSI-RS-ResourceList;				
<ul> <li>parameterLx indicates the parameter "Lx" in codebook generation where x is an index of Tx parts indicated by maxNumberTxPartsPartsParageurer;</li> </ul>				
<ul> <li>an index of Tx ports indicated by maxNumberTxPortsPerResource;</li> <li>amplitudeScalingType indicates the amplitude scaling type supported by the</li> </ul>				
UE (wideband or both wideband and sub-band);				
- amplitude Subset Restriction indicates whether amplitude subset restriction is				
supported for the UE.				
Parameters for type II codebook with port selection (type2-PortSelection) supported				
by the UE, which are optional:				
- supportedCSI-RS-ResourceList,				
<ul> <li>parameterLx indicates the parameter "Lx" in codebook generation where x is</li> </ul>				
an index of Tx ports indicated by maxNumberTxPortsPerResource;				
- <i>amplitudeScalingType</i> indicates the amplitude scaling type supported by the				
UE (wideband or both wideband and sub-band).				
supportedCSI-RS-ResourceList includes list of the following parameters:				
- maxNumberTxPortsPerResource indicates the maximum number of Tx ports				
in a resource;				
- maxNumberResourcesPerBand indicates the maximum number of resources				
across all CCs within a band simultaneously;				
- totalNumberTxPortsPerBand indicates the total number of Tx ports across all				
CCs within a band simultaneously.				
crossCarriarScheduling-SamoSCS	Band	No	N/A	N/A
crossCarrierScheduling-SameSCS Indicates whether the UE supports cross carrier scheduling for the same	Banu	INU	IN/A	IN/A
numerology with carrier indicator field (CIF) in carrier aggregation where				
numerologies for the scheduling cell and scheduled cell are same.				
		I	1	

csi-ReportFramework	Band	Yes	N/A	N/A
Indicates whether the UE supports CSI report framework. This capability signalling				
<ul> <li>comprises the following parameters:</li> <li>maxNumberPeriodicCSI-PerBWP-ForCSI-Report indicates the maximum number of periodic CSI report setting per BWP for CSI report;</li> </ul>				
<ul> <li>maxNumberPeriodicCSI-PerBWP-ForBeamReport indicates the maximum number of periodic CSI report setting per BWP for beam report.</li> </ul>				
<ul> <li>maxNumberAperiodicCSI-PerBWP-ForCSI-Report indicates the maximum number of aperiodic CSI report setting per BWP for CSI report;</li> </ul>				
<ul> <li>maxNumberAperiodicCSI-PerBWP-ForBeamReport indicates the maximum number of aperiodic CSI report setting per BWP for beam report;</li> </ul>				
<ul> <li>maxNumberAperiodicCSI-triggeringStatePerCC indicates the maximum number of aperiodic CSI triggering states in CSI-AperiodicTriggerStateList per CC;</li> </ul>				
<ul> <li>maxNumberSemiPersistentCSI-PerBWP-ForCSI-Report indicates the maximum number of semi-persistent CSI report setting per BWP for CSI report;</li> </ul>				
<ul> <li>maxNumberSemiPersistentCSI-PerBWP-ForBeamReport indicates the maximum number of semi-persistent CSI report setting per BWP for beam report;</li> </ul>				
<ul> <li>simultaneousCSI-ReportsPerCC indicates the number of CSI report(s) for which the UE can measure and process reference signals simultaneously in a CC of the band for which this capability is provided. The CSI report comprises periodic, semi-persistent and aperiodic CSI and any latency classes and codebook types. The CSI report in simultaneousCSI- ReportsPerCC includes the beam report and CSI report.</li> </ul>				
The UE is mandated to report csi-ReportFramework.				
<ul> <li>csi-RS-ForTracking</li> <li>Indicates support of CSI-RS for tracking (i.e. TRS). This capability signalling comprises the following parameters:         <ul> <li>maxBurstLength indicates the TRS burst length. Value 1 indicates 1 slot and value 2 indicates both of 1 slot and 2 slots. In this release UE is mandated to report value 2;</li> </ul> </li> </ul>	Band	Yes	N/A	N/A
<ul> <li>maxSimultaneousResourceSetsPerCC indicates the maximum number of TRS resource sets per CC which the UE can track simultaneously;</li> </ul>				
<ul> <li>maxConfiguredResourceSetsPerCC indicates the maximum number of TRS resource sets configured to UE per CC. It is mandated to report at least 8 for FR1 and 16 for FR2;</li> </ul>				
- maxConfiguredResourceSetsAllCC indicates the maximum number of TRS resource sets configured to UE across CCs. If the UE includes the field in an FR1 band, it shall set the same value in all FR1 bands. If the UE includes the field in an FR2 band, it shall set the same value in all FR1 bands. The UE supports a total number of resources equal to the maximum of the FR1 and FR2 value, but no more than the FR1 value across all FR1 serving cells and no more than the FR2 value across all FR2 serving cells. The UE is mandated to report at least 16 for FR1 and 32 for FR2.				
The UE is mandated to report csi-RS-ForTracking.				

csi-RS-IM-ReceptionForFeedback	Band	Yes	N/A	N/A
Indicates support of CSI-RS and CSI-IM reception for CSI feedback. This capability				
signalling comprises the following parameters: - maxConfigNumberNZP-CSI-RS-PerCC indicates the maximum number of				
<ul> <li>maxConfiguration/2P-CSI-RS-PERCE indicates the maximum number of configured NZP-CSI-RS resources per CC;</li> </ul>				
<ul> <li>maxConfigNumberPortsAcrossNZP-CSI-RS-PerCC indicates the maximum number of ports across all configured NZP-CSI-RS resources per CC;</li> </ul>				
<ul> <li>maxConfigNumberCSI-IM-PerCC indicates the maximum number of configured CSI-IM resources per CC;</li> </ul>				
<ul> <li>maxNumberSimultaneousNZP-CSI-RS-PerCC indicates the maximum number of simultaneous CSI-RS-resources per CC;</li> </ul>				
<ul> <li>totalNumberPortsSimultaneousNZP-CSI-RS-PerCC indicates the total number of CSI-RS ports in simultaneous CSI-RS resources per CC.</li> </ul>				
The UE is mandated to report csi-RS-IM-ReceptionForFeedback.				
csi-RS-ProcFrameworkForSRS	Band	No	N/A	N/A
Indicates support of CSI-RS processing framework for SRS. This capability signalling comprises the following parameters:				
- maxNumberPeriodicSRS-AssocCSI-RS-PerBWP indicates the maximum				
number of periodic SRS resources associated with CSI-RS per BWP;				
<ul> <li>maxNumberAperiodicSRS-AssocCSI-RS-PerBWP indicates the maximum number of aperiodic SRS resources associated with CSI-RS per BWP;</li> </ul>				
<ul> <li>maxNumberSP-SRS-AssocCSI-RS-PerBWP indicates the maximum number of semi-persistent SRS resources associated with CSI-RS per BWP;</li> </ul>				
<ul> <li>simultaneousSRS-AssocCSI-RS-PerCC indicates the number of SRS resources that the UE can process simultaneously in a CC, including periodic, aperiodic and semi-persistent SRS.</li> </ul>				
extendedCP Indicates whether the UE supports 60 kHz subcarrier spacing with extended CP	Band	No	N/A	N/A
length for reception of PDCCH, and PDSCH, and transmission of PUCCH, PUSCH, and SRS.				
groupBeamReporting Indicates whether UE supports RSRP reporting for the group of two reference	Band	No	N/A	N/A
signals. maxNumberCSI-RS-BFD	Band	CY	N/A	N/A
Indicates maximal number of CSI-RS resources across all CCs, and across MCG	Dana		1 1/7 1	1 1/7 1
and SCG in case of NR-DC, for UE to monitor PDCCH quality. In this release, the				
maximum value that can be signalled is 16. If the UE includes the field in an FR1				
band, it shall set the same value in all FR1 bands. If the UE includes the field in an				
FR2 band, it shall set the same value in all FR2 bands. The UE supports a total number of resources equal to the maximum of the FR1 and FR2 value, but no more				
than the FR1 value across all FR1 serving cells and no more than the FR2 value				
across all FR2 serving cells. It is mandatory with capability signalling for FR2 and				
optional for FR1.				
maxNumberCSI-RS-SSB-CBD	Band	CY	N/A	N/A
Defines maximal number of different CSI-RS [and/or SSB] resources across all CCs, and across MCG and SCG in case of NR-DC, for new beam identifications. In				
this release, the maximum value that can be signalled is 128. If the UE includes the				
field in an FR1 band, it shall set the same value in all FR1 bands. If the UE includes				
the field in an FR2 band, it shall set the same value in all FR2 bands. The UE				
supports a total number of resources equal to the maximum of the FR1 and FR2				
value, but no more than the FR1 value across all FR1 serving cells and no more than the FR2 value across all FR2 serving cells. It is mandatory with capability				
signalling for FR2 and optional for FR1. The UE is mandated to report at least 32 for				
FR2.	<u> </u>			
<i>maxNumberNonGroupBeamReporting</i> Defines support of non-group based RSRP reporting using N_max RSRP values	Band	Yes	N/A	N/A
reported.				

maxNumberRxBeam	Band	CY	N/A	N/A
Defines whether UE supports receive beamforming switching using NZP CSI-RS				
resource. UE shall indicate a single value for the preferred number of NZP CSI-RS resource repetitions per CSI-RS resource set. Support of Rx beam switching is				
mandatory for FR2.				
maxNumberRxTxBeamSwitchDL	Band	No	N/A	FR2
Defines the number of Tx and Rx beam changes UE can perform on this band within a slot. UE shall report one value per each subcarrier spacing supported by				only
the UE. In this release, the number of Tx and Rx beam changes for scs-15kHz and				
scs-30kHz are not included.				
maxNumberSSB-BFD	Band	CY	N/A	N/A
Defines maximal number of different SSBs across all CCs, and across MCG and SCG in case of NR-DC, for UE to monitor PDCCH quality. In this release, the				
maximum value that can be signalled is 16. If the UE includes the field in an FR1 band, it shall set the same value in all FR1 bands. If the UE includes the field in an				
FR2 band, it shall set the same value in all FR2 bands. The UE supports a total				
number of resources equal to the maximum of the FR1 and FR2 value, but no more				
than the FR1 value across all FR1 serving cells and no more than the FR2 value				
across all FR2 serving cells. It is mandatory with capability signalling for FR2 and optional for FR1.				
maxUplinkDutyCycle-PC2-FR1	Band	No	N/A	FR1
Indicates the maximum percentage of symbols during a certain evaluation period	Danu			only
that can be scheduled for uplink transmission so as to ensure compliance with				
applicable electromagnetic energy absorption requirements provided by regulatory				
bodies. This field is only applicable for FR1 power class 2 UE as specified in clause				
6.2.1 of TS 38.101-1 [2]. If the field is absent, 50% shall be applied. Value n60				
corresponds to 60%, value n70 corresponds to 70% and so on.				
maxUplinkDutyCycle-FR2	Band	No	N/A	FR2
Indicates the maximum percentage of symbols during 1s that can be scheduled for				only
uplink transmission at the UE maximum transmission power, so as to ensure compliance with applicable electromagnetic power density exposure requirements				
provided by regulatory bodies. This field is applicable for all power classes UE in				
FR2 as specified in TS 38.101-2 [3]. Value n15 corresponds to 15%, value n20				
corresponds to 20% and so on. If the field is absent or the percentage of uplink				
symbols transmitted within any 1s evaluation period is larger than				
maxUplinkDutyCycle-FR2, the UE behaviour is specified in TS 38.101-2 [3].				
modifiedMPR-Behaviour	Band	No	N/A	N/A
Indicates whether UE supports modified MPR behaviour defined in TS 38.101-1 [2] and TS 38.101-2 [3].				
multipleTCI	Band	Yes	N/A	N/A
Indicates whether UE supports more than one TCI state configurations per				
CORESET. UE is only required to track one active TCI state per CORESET. UE is required to support minimum between 64 and number of configured TCI states				
indicated by <i>tci-StatePDSCH</i> . This field shall be set to <i>supported</i> .				
pdsch-256QAM-FR2	Band	No	N/A	FR2
Indicates whether the UE supports 256QAM modulation scheme for PDSCH for				only
FR2 as defined in 7.3.1.2 of TS 38.211 [6].				
periodicBeamReport	Band	Yes	N/A	N/A
Indicates whether UE supports periodic 'CRI/RSRP' or 'SSBRI/RSRP' reporting				
using PUCCH formats 2, 3 and 4 in one slot.				
powerBoosting-pi2BPSK	Band	No	TDD	FR1
Indicates whether UE supports power boosting for pi/2 BPSK, when applicable as			only	only
defined in 6.2 of TS 38.101-1 [2].	Band		NI/A	N1/A
<i>ptrs-DensityRecommendationSetDL</i> For each supported sub-carrier spacing, indicates preferred threshold sets for	Band	CY	N/A	N/A
determining DL PTRS density. It is mandated for FR2. For each supported sub-				
carrier spacing, this field comprises:				

<i>ptrs-DensityRecommendationSetUL</i> For each supported sub-carrier spacing, indicates preferred threshold sets for	Band	No	N/A	N/A
determining UL PTRS density. For each supported sub-carrier spacing, this field				
comprises:     - two values of <i>frequencyDensity</i> ;				
- three values of <i>timeDensity</i> ;				
- five values of sampleDensity.				
pucch-SpatialRelInfoMAC-CE	Band	CY	N/A	N/A
Indicates whether the UE supports indication of <i>PUCCH-spatialrelationinfo</i> by a MAC CE per PUCCH resource. It is mandatory for FR2 and optional for FR1.				
pusch-256QAM	Band	No	N/A	N/A
Indicates whether the UE supports 256QAM modulation scheme for PUSCH as				
defined in 6.3.1.2 of TS 38.211 [6]. pusch-TransCoherence	Band	No	N/A	N/A
Defines support of the uplink codebook subset by the UE for UL precoding for	Band		N/A	N/A
PUSCH transmission as described in clause 6.1.1.1 of TS 38.214 [12]. UE indicated				
support of partial coherent codebook subset shall also support non-coherent				
codebook subset. UE indicated support of full coherent codebook subset shall also				
support partial and non-coherent codebook subset.				
rateMatchingLTE-CRS	Band	Yes	N/A	N/A
Indicates whether the UE supports receiving PDSCH with resource mapping that				
excludes the REs determined by the higher layer configuration LTE-carrier				
configuring common RS, as specified in TS 38.214 [12].				
spatialRelations	Band	FD	N/A	FD
ndicates whether the UE supports spatial relations. The capability signalling				
comprises the following parameters.				
- maxNumberConfiguredSpatialRelations indicates the maximum number of				
configured spatial relations per CC for PUCCH and SRS. It is not applicable				
to FR1 and applicable to FR2 only. The UE is mandated to report 16 or				
higher values;				
- maxNumberActiveSpatialRelations indicates the maximum number of active				
spatial relations with regarding to PUCCH and SRS for PUSCH, per BWP				
per CC. It is not applicable to FR1 and applicable and mandatory to report				
one or higher value for FR2 only;				
- additionalActiveSpatialRelationPUCCH indicates support of one additional				
active spatial relation for PUCCH. It is mandatory with capability signalling if				
maxNumberActiveSpatialRelations is set to n1;				
- maxNumberDL-RS-QCL-TypeD indicates the maximum number of downlink				
RS resources used for QCL type D in the active TCI states and active spatial				
relation information, which is optional.				
The UE is mandated to report <i>spatialRelations</i> for FR2.				
sp-BeamReportPUCCH	Band	No	N/A	N/A
Indicates support of semi-persistent 'CRI/RSRP' or 'SSBRI/RSRP' reporting using				
PUCCH formats 2, 3 and 4 in one slot.	Band	Na	NI/A	N1/A
sp-BeamReportPUSCH Indicates support of semi-persistent 'CRI/RSRP' or 'SSBRI/RSRP' reporting on	Band	No	N/A	N/A
PUSCH.				
srs-AssocCSI-RS	Band	No	N/A	N/A
Parameters for the calculation of the precoder for SRS transmission based on				
channel measurements using associated NZP CSI-RS resource (srs-AssocCSI-RS)				
as described in clause 6.1.1.2 of TS 38.214 [12]. UE supporting this feature shall				
also indicate support of non-codebook based PUSCH transmission.				
This capability signalling includes list of the following parameters:				
- maxNumberTxPortsPerResource indicates the maximum number of Tx ports				
in a resource;				
would under Deservice Device die die staat the manimum much suit				
- maxNumberResourcesPerBand indicates the maximum number of resources				
across all CCs within a band simultaneously;				
- totalNumberTxPortsPerBand indicates the total number of Tx ports across all				
<ul> <li>totalNumberTxPortsPerBand indicates the total number of Tx ports across all CCs within a band simultaneously.</li> </ul>				

tci-StatePL			Band	Yes	N/A	N/A
•	•	CH. The capability signalling comprises the				
following pa						
		esPerCC indicates the maximum number of				
conf	figured TCI-states per CC fo	or PDSCH. For FR2, the UE is mandated to				
set t	the value at least to 64 (i.e.	value 128 is an optional value). For FR1, the				
UE i	is mandated to set these va	lues at least to the maximum number of				
	wed SSBs in the supported					
TCI-	states per BWP per CC, inc	Pindicates the maximum number of activated cluding control and data. If a UE reports X				
ลรรเ	umption(s) for any PDSCH	ected that more than X active QCL type D and any CORESETs for a given BWP of a				
serv	ring cell become active for the	he UE. The UE shall include this field.				
Note the UI	E is required to track only the	ne active TCI states.				
The UE is r <i>twoPortsP</i>	mandated to report tci-State	PDSCH.	Band	No	N/A	N/A
		with 2 optoppo porto for LIL tronomission	Бапо	INO	IN/A	
		vith 2 antenna ports for UL transmission.			N1/A	
ue-Power(			Band	Yes	N/A	N/A
		nt UE power class than the default UE power				
class as de	tined in clause 6.2 of TS 38	8.101-1 [2], the UE shall report the supported				
		JE shall report the supported UE power class				
	in clause 6 and 7 of TS 38. <sup>-</sup>	101-2 [3] in this field.				
	<i>mManagement</i>	for UL. This capability signalling comprises	Band	No	N/A	FR2
	g parameters:	Tor OE. This capability signaling comprises				
		Set-BM indicates the maximum number of				
		ce set configurable for beam management,				
	ported by the UE.	ce set configurable for beam management,				
Sup						
		indicates the maximum number of SRS beam management, supported by the UE.				
		denceWithoutUL-BeamSweeping to				
		ability. This feature is optional for the UE that				
supports be 6.6, TS 38.		ut uplink beam sweeping as defined in clause				
NOTE: 1	The network uses maxNum	berSRS-ResourceSet to determine the				
r	maximum number of SRS re	esource sets that can be configured to the UE				
f	or periodic/semi-persistent/	aperiodic configurations as below:				
	n number of SRS	Additional constraint on the maximum				
	sets across all time	number of SRS resource sets				
	behaviour	configured to the UE for each				
(periodic		supported time domain behaviour				
	nt/aperiodic) reported in	(periodic/semi-persistent/aperiodic)				
maxNum	berSRS-ResourceSet					
	1	1				
	2	1				
	3	1				
	4	2				
	5	2				
	6	2				
	0 7					
	-	4				
1	8	4	1	I		

### 4.2.7.3 CA-ParametersEUTRA

Definitions for parameters	Per	м	FDD- TDD DIFF	FR1- FR2 DIFF
additionalRx-Tx-PerformanceReq	BC	No	N/A	N/A
additionalRx-Tx-PerformanceReq defined in 4.3.5.22, TS 36.306 [15].				
<i>dl-1024QAM-TotalWeightedLayers</i> Indicates total number of weighted layers for the LTE part of the concerned (NG)EN-DC/NE-DC band combination the UE can process for 1024QAM, as described in TS 36.306 [15] equation 4.3.5.31-1. Actual value = (10 + indicated value x 2), i.e. value 0 indicates 10 layers, value 1 indicates 12 layers and so on. For an (NG)EN-DC/NE-DC band combination for which this field is not included, <i>dl-</i> <i>1024QAM-TotalWeightedLayers-r15</i> as described in TS 36.331 [17] applies, if	BC	No	N/A	N/A
included.				
multipleTimingAdvance	BC	No	N/A	N/A
multipleTimingAdvance defined in 4.3.5.3, TS 36.306 [15].				
simultaneousRx-Tx	BC	No	N/A	N/A
simultaneousRx-Tx defined in 4.3.5.4, TS 36.306 [15]. supportedBandwidthCombinationSetEUTRA	BC	CY	N/A	N/A
Indicates the set of supported bandwidth combinations for the LTE part for inter- band (NG)EN-DC without intra-band (NG)EN-DC component, inter-band NE-DC without intra-band NE-DC component and intra-band (NG)EN-DC/NE-DC with additional inter-band LTE CA component. The field is encoded as a bit map, where bit N is set to "1" if UE support Bandwidth Combination Set N for this band combination. The leading / leftmost bit (bit 0) corresponds to the Bandwidth Combination Set 0, the next bit corresponds to the Bandwidth Combination Set 1 and so on. The UE shall neither include the field for a (NG)EN-DC/NE-DC combination which has only one LTE carrier, nor for a (NG)EN-DC/NE-DC combination which has more than one LTE carrier for which the UE only supports Bandwidth Combination Set 0 for the LTE part. If the inter-band (NG)EN-DC/NE-DC has more than one LTE carrier, the UE shall support at least one bandwidth combination for the supported LTE part.				
supportedNAICS-2CRS-AP supportedNAICS-2CRS-AP defined in 4.3.5.8, TS 36.306 [15].	BC	No	N/A	N/A
<i>fd-MIMO-TotalWeightedLayers</i> Indicates total number of weighted layers for the LTE part of the concerned (NG)EN-DC/NE-DC band combination the UE can process for FD-MIMO, as described in TS 36.306 [15] equation 4.3.28.13-1 and TS 36.331 [17] clause 6.3.6, NOTE 8 in <i>UE-EUTRA-Capability</i> field descriptions. For an (NG)EN-DC/NE-DC band combination for which this field is not included, <i>totalWeightedLayers-r13</i> as described in TS 36.331 [17] applies, if included.	BC	No	N/A	N/A
ue-CA-PowerClass-N defined in 4.3.5.1.3, TS 36.306 [15].	BC	No	N/A	N/A

4.2.7.4 CA-ParametersNR

Definitions for parameters	Per	М	FDD- TDD DIFF	FR1- FR2 DIFF
<ul> <li>csi-RS-IM-ReceptionForFeedbackPerBandComb</li> <li>Indicates support of CSI-RS and CSI-IM reception for CSI feedback. This capability signalling comprises the following parameters:         <ul> <li>maxNumberSimultaneousNZP-CSI-RS-ActBWP-AllCC indicates the maximum number of simultaneous CSI-RS resources (irrespective of the associated codebook type) in active BWPs across all CCs, and across MCG and SCG in case of NR-DC. The network applies this limit in addition to the limits signalled in MIMO-ParametersPerBand-&gt;</li></ul></li></ul>	BC	Yes	N/A	N/A
total number of CSI-RS ports in simultaneous CSI-RS resources (irrespective of the associated codebook type) in active BWPs across all CCs, and across MCG and SCG in case of NR-DC. The network applies this limit in addition to the limits signalled in <i>MIMO-ParametersPerBand-&gt;</i> <i>totalNumberPortsSimultaneousNZP-CSI-RS-PerCC</i> and in <i>Phy-</i> <i>ParametersFRX-Diff-&gt; totalNumberPortsSimultaneousNZP-CSI-RS-PerCC</i> .				
The UE is mandated to report <i>csi-RS-IM-ReceptionForFeedbackPerBandComb</i> . <i>diffNumerologyAcrossPUCCH-Group</i> Indicates whether different numerology across two NR PUCCH groups for data and control channel at a given time in NR CA and (NG)EN-DC/NE-DC is supported by	BC	No	N/A	N/A
the UE. <i>diffNumerologyWithinPUCCH-GroupLargerSCS</i> Indicates whether UE supports different numerology across carriers within a PUCCH group and a same numerology between DL and UL per carrier for data/control channel at a given time in NR CA, (NG)EN-DC/NE-DC and NR-DC. In case of NR CA and (NG)EN-DC/NE-DC with one NR PUCCH group and in case of NR CA with two NR PUCCH groups, it also indicates whether the UE supports different numerologies across NR carriers within the same NR PUCCH group up to two different numerologies within the same NR PUCCH group, wherein NR PUCCH is sent on the carrier with larger SCS for data and control channel at a given time. In case of (NG)EN-DC/NE-DC with two NR PUCCH groups, it indicates whether the UE supports different numerologies across NR carriers up to two different numerologies within an NR PUCCH group in FR1, wherein NR PUCCH is sent on the carrier with larger SCS, and same numerology across NR carriers within another NR PUCCH group in FR2 for data and control channel at a given time. In case of NR-DC, it indicates whether the UE supports different numerologies across NR carriers within the same NR PUCCH group in MCG (in FR1) up to two different numerologies within the same NR PUCCH group wherein NR PUCCH is sent on the carrier with larger SCS for data/control channel at a given time. In case of NR-DC, it indicates whether the UE supports different numerologies across NR carriers within the same NR PUCCH group in MCG (in FR1) up to two different numerologies within the same NR PUCCH group wherein NR PUCCH is sent on the carrier with larger SCS for data/control channel at a given time; and same numerology across NR carriers in SCG (in FR2).	BC	No	N/A	N/A
<i>diffNumerologyWithinPUCCH-GroupSmallerSCS</i> Indicates whether UE supports different numerology across carriers within a PUCCH group and a same numerology between DL and UL per carrier for data/control channel at a given time in NR CA, (NG)EN-DC/NE-DC and NR-DC. In case of NR CA and (NG)EN-DC/NE-DC with one NR PUCCH group and in case of NR CA with two NR PUCCH groups, it also indicates whether the UE supports different numerologies across NR carriers within the same NR PUCCH group up to two different numerologies within the same NR PUCCH group, wherein NR PUCCH is sent on the carrier with smaller SCS for data and control channel at a given time. In case of (NG)EN-DC/NE-DC with two NR PUCCH groups, it indicates whether the UE supports different numerologies across NR carriers up to two different numerologies within an NR PUCCH group in FR1, wherein NR PUCCH is sent on the carrier with smaller SCS, and same numerology across NR carriers within another NR PUCCH group in FR2 for data and control channel at a given time. In case of NR-DC, it indicates whether the UE supports different numerologies across NR carriers within the same NR PUCCH group in MCG (in FR1) up to two different numerologies within the same NR PUCCH group wherein NR PUCCH is sent on the carrier with smaller SCS for data/control channel at a given time.	BC	No	N/A	N/A

dualPA-Architecture	BC	No	N/A	N/A
For band combinations with single-band with UL CA, this field indicates the support				
of dual PA. If absent in such band combinations, the UE supports single PA for all				
the ULs. For other band combinations, this field is not applicable.				
parallelTxSRS-PUCCH-PUSCH	BC	No	N/A	N/A
Indicates whether the UE supports parallel transmission of SRS and PUCCH/				
PUSCH across CCs in an inter-band CA band combination.				
paralleITxPRACH-SRS-PUCCH-PUSCH	BC	No	N/A	N/A
Indicates whether the UE supports parallel transmission of PRACH and				
SRS/PUCCH/PUSCH across CCs in an inter-band CA band combination.				
simultaneousCSI-ReportsAIICC	BC	Yes	N/A	N/A
Indicates whether the UE supports CSI report framework and the number of CSI				
report(s) which the UE can simultaneously process across all CCs, and across				
MCG and SCG in case of NR-DC. The CSI report comprises periodic, semi-				
persistent and aperiodic CSI and any latency classes and codebook types. The CSI				
report in simultaneousCSI-ReportsAllCC includes the beam report and CSI report.				
This parameter may further limit simultaneousCSI-ReportsPerCC in MIMO-				
ParametersPerBand and Phy-ParametersFRX-Diff for each band in a given band				
combination.				
simultaneousRxTxInterBandCA	BC	CY	N/A	N/A
Indicates whether the UE supports simultaneous transmission and reception in				
TDD-TDD and TDD-FDD inter-band NR CA. It is mandatory for certain TDD-FDD				
and TDD-TDD band combinations defined in TS 38.101-1 [2], TS 38.101-2 [3] and				
TS 38.101-3 [4].				
simultaneousRxTxSUL	BC	CY	N/A	N/A
Indicates whether the UE supports simultaneous reception and transmission for a		01		
NR band combination including SUL. Mandatory/Optional support depends on band				
combination and captured in TS 38.101-1 [2].				
simultaneousSRS-AssocCSI-RS-AIICC	BC	No	N/A	N/A
	BC	INO	IN/A	N/A
Indicates support of CSI-RS processing framework for SRS and the number of SRS				
resources that the UE can process simultaneously across all CCs, and across MCG				
and SCG in case of NR-DC, including periodic, aperiodic and semi-persistent SRS.				
This parameter may further limit <i>simultaneousSRS-AssocCSI-RS-PerCC</i> in <i>MIMO-</i>				
ParametersPerBand and Phy-ParametersFRX-Diff for each band in a given band				
combination.		-		
supportedNumberTAG	BC	CY	N/A	N/A
Defines the number of timing advance groups supported by the UE. It is applied to				
NR CA, NR-DC and (NG)EN-DC/NE-DC. For (NG)EN-DC/NE-DC, it indicates				
number of TAGs only for NR CG. The number of TAGs for the LTE MCG is				
signalled by existing LTE TAG capability signalling. For NR CA/NR-DC band				
combination, if the band combination comprised of more than one band entry (i.e.,				
inter-band or intra-band non-contiguous band combination), it indicates that different				
timing advances on different band entries are supported. If absent, the UE supports				
only one TAG for the NR part. It is mandatory for the UE to support more than one				
TAG for NR-DC. For the mixed inter-band and intra-band NR CA/NR-DC band				
combination, if the network configures more non-contiguous UL serving cells than				
the number of supported TAG, the UE only supports the configuration where all UL				
CCs of the same frequency band are configured with the same Timing Advance				

### 4.2.7.5 *FeatureSetDownlink* parameters

Definitions for parameters	Per	М	FDD- TDD DIFF	FR1- FR2 DIFF
additionalDMRS-DL-Alt Indicates whether the UE supports the alternative additional DMRS position for co- existence with LTE CRS. It is applied to 15kHz SCS and one additional DMRS case only.	FS	No	N/A	FR1 only
<i>csi-RS-MeasSCellWithoutSSB</i> Defines whether the UE can perform CSI-RSRP and CSI-RSRQ measurement as specified in TS 38.215 [13], where CSI-RS resource is configured for a cell that does not transmit SS/PBCH block. A UE that supports this feature shall also support scellWithoutSSB.	FS	No	N/A	N/A
<i>dl-MCS-TableAlt-DynamicIndication</i> Indicates whether the UE supports dynamic indication of MCS table for PDSCH.	FS	No	N/A	N/A
featureSetListPerDownlinkCC Indicates which features the UE supports on the individual DL carriers of the feature set (and hence of a band entry that refer to the feature set) by <i>FeatureSetDownlinkPerCC-Id</i> . The order of the elements in this list is not relevant, i.e., the network may configure any of the carriers in accordance with any of the <i>FeatureSetDownlinkPerCC-Id</i> in this list. A fallback per CC feature set resulting from the reported feature set per DL CC is not signalled but the UE shall support it.	FS	N/A	N/A	N/A
<i>intraBandFreqSeparationDL</i> Indicates DL frequency separation class the UE supports, which indicates a maximum frequency separation between lower edge of lowest CC and upper edge of highest CC in a frequency band, for intra-band non-contiguous CA. The UE sets the same value in the FeatureSetDownlink of each band entry within a band. The values c1, c2 and c3 correspond to the values defined in TS 38.101-2 [3]. It is mandatory to report for UE which supports DL intra-band non-contiguous CA in FR2.	FS	CY	N/A	FR2 only
oneFL-DMRS-ThreeAdditionalDMRS-DL Defines whether the UE supports DM-RS pattern for DL transmission with 1 symbol front-loaded DM-RS with three additional DM-RS symbols.	FS	No	N/A	N/A
oneFL-DMRS-TwoAdditionalDMRS-DL Defines support of DM-RS pattern for DL transmission with 1 symbol front-loaded DM-RS with 2 additional DM-RS symbols and more than 1 antenna ports.	FS	Yes	N/A	N/A
<b>pdcch-MonitoringAnyOccasions</b> Defines the supported PDCCH search space monitoring occasions. withoutDCI-gap indicates whether the UE supports PDCCH search space monitoring occasions in any symbol of the slot for Type 1-PDCCH common search space configured by dedicated RRC signaling, for a Type 3-PDCCH common search space, or for a UE- specific search space with the capability of supporting at least 44, 36, 22, and 20 blind decodes in a slot for 15 kHz, 30 kHz, 60kHz, and 120 kHz subcarrier spacing values respectively. withDCI-gap indicates whether the UE supports PDCCH search space monitoring occasions in any symbol of the slot with minimum time separation of two OFDM symbols for 15 kHz, four OFDM symbols for 30 kHz, seven OFDM symbols for 60 kHz with NCP, and 140FDM symbols for 120kHz between two consecutive transmissions of PDCCH scrambled with C-RNTI, MCS-C-RNTI, or CS- RNTI for Type 1-PDCCH common search space configured by dedicated RRC signaling, for a Type 3-PDCCH common search space, or for a UE-specific search space, with the capability of supporting at least 44, 36, 22, and 20 blind decodes in a slot for 15 kHz, 30 kHz, 60kHz, and 120 kHz subcarrier spacing values respectively.	FS	No	N/A	N/A
<i>pdcch-MonitoringAnyOccasionsWithSpanGap</i> Indicates whether the UE supports PDCCH search space monitoring occasions in any symbol of the slot with minimum time separation between two consecutive transmissions of PDCCH with span up to two OFDM symbols for two OFDM symbols or span up to three OFDM symbols for four and seven OFDM symbols. Value set1 indicates the supported value set (X,Y) is (7,3), value set2 indicates the supported value set (X,Y) is (4,3) and (7,3) and value set 3 indicates the supported value set (X,Y) is (2,2), (4,3) and (7,3).	FS	No	N/A	N/A
<i>pdsch-ProcessingType1-DifferentTB-PerSlot</i> Defines whether the UE capable of processing time capability 1 supports reception of up to two, four or seven unicast PDSCHs for several transport blocks with PDSCH scrambled using C-RNTI, TC-RNTI, or CS-RNTI in one serving cell within the same slot per CC that are multiplexed in time domain only. Note PDSCH(s) for Msg.4 is included.	FS	No	N/A	N/A

ndaah DraaaaaineTrina?		Na	NI/A	
pdsch-ProcessingType2	FS	No	N/A	FR1
Indicates whether the UE supports PDSCH processing capability 2. The UE				only
supports it only if all serving cells are self-scheduled and if all serving cells in one				
band on which the network configured processingType2 use the same subcarrier				
spacing. This capability signalling comprises the following parameters for each sub-				
carrier spacing supported by the UE.				
- fallback indicates whether the UE supports PDSCH processing capability 2				
when the number of configured carriers is larger than numberOfCarriers for a				
reported value of <i>differentTB-PerSlot</i> . If <i>fallback</i> = 'sc', UE supports				
capability 2 processing time on lowest cell index among the configured				
carriers in the band where the value is reported, if <i>fallback</i> = 'cap1-only', UE				
supports only capability 1, in the band where the value is reported;				
- differentTB-PerSlot indicates whether the UE supports processing type 2 for				
1, 2, 4 and/or 7 unicast PDSCHs for different transport blocks per slot per				
CC; and if so, it indicates up to which number of CA serving cells the UE				
supports that number of unicast PDSCHs for different TBs. The UE shall				
include at least one of numberOfCarriers for 1, 2, 4 or 7 transport blocks per				
slot in this field if <i>pdsch-ProcessingType2</i> is indicated.				
pdsch-ProcessingType2-Limited	FS	No	N/A	FR1
Indicates whether the UE supports PDSCH processing capability 2 with scheduling				only
limitation for SCS 30kHz. This capability signalling comprises the following				
parameter.				
<ul> <li>differentTB-PerSlot-SCS-30kHz indicates the number of different TBs per</li> </ul>				
slot.				
<ul> <li>The UE supports this limited processing capability 2 only if:</li> <li>1) One carrier is configured in the band, independent of the number of carriers configured in the other bands;</li> </ul>				
2) The maximum bandwidth of PDSCH is 136 PRBs;				
3) N1 based on Table 5.3-2 of TS 38.214 [12] for SCS 30 kHz.				
pdsch-SeparationWithGap	FS	No	N/A	N/A
Indicates whether the UE supports separation of two unicast PDSCHs with a gap,				
applicable to Sub-carrier spacings of 30 kHz and 60 kHz only. For any two				
consecutive slots n and n+1, if there are more than 1 unicast PDSCH in either slot,				
the minimum time separation between starting time of any two unicast PDSCHs				
within the duration of these slots is 4 OFDM symbols for 30kHz and 7 OFDM				
symbols for 60kHz.				
scalingFactor	FS	No	N/A	N/A
Indicates the scaling factor to be applied to the band in the max data rate				
calculation as defined in 4.1.2. Value f0p4 indicates the scaling factor 0.4, f0p75				
indicates 0.75, and so on. If absent, the scaling factor 1 is applied to the band in the				
max data rate calculation.				
scellWithoutSSB	FS	CY	N/A	N/A
Defines whether the UE supports configuration of SCell that does not transmit				
SS/PBCH block. This is conditionally mandatory with capability signalling for intra-				
band CA but not supported for inter-band CA.				
searchSpaceSharingCA-DL	FS	No	N/A	N/A
Defines whether the UE supports DL PDCCH search space sharing for carrier				
Defines whether the OL supports DL I DOCH search space sharing for camer				

supportedSRS-Resources Defines support of SRS resources for SRS carrier switching for a band without	FS	FD	N/A	N/A
<ul> <li>associated FeatureSetuplink. The capability signalling comprising indication of:</li> <li>maxNumberAperiodicSRS-PerBWP indicates supported maximum number of aperiodic SRS resources that can be configured for the UE per each BWP</li> </ul>				
<ul> <li>maxNumberAperiodicSRS-PerBWP-PerSlot indicates supported maximum number of aperiodic SRS resources per slot in the BWP</li> </ul>				
<ul> <li>maxNumberPeriodicSRS-PerBWP indicates supported maximum number of periodic SRS resources per BWP</li> </ul>				
<ul> <li>maxNumberPeriodicSRS-PerBWP-PerSlot indicates supported maximum number of periodic SRS resources per slot in the BWP</li> </ul>				
<ul> <li>maxNumberSemiPersistentSRS-PerBWP indicate supported maximum number of semi-persistent SRS resources that can be configured for the UE per each BWP</li> </ul>				
<ul> <li>maxNumberSemiPersistentSRS-PerBWP-PerSlot indicates supported maximum number of semi-persistent SRS resources per slot in the BWP</li> </ul>				
<ul> <li>maxNumberSRS-Ports-PerResource indicates supported maximum number of SRS antenna port per each SRS resource</li> </ul>				
If the UE indicates the support of srs-CarrierSwitch for this band and this field is absent, the UE suports one periodic, one aperiodic, no semi-persistent SRS resources per BWP per slot and one SRS antenna port per SRS resource.				
timeDurationForQCL	FS	Yes	N/A	FR2
Defines minimum number of OFDM symbols required by the UE to perform PDCCH reception and applying spatial QCL information received in DCI for PDSCH processing as described in TS 38.214 [12] clause 5.1.5. UE shall indicate one value of the minimum number of OFDM symbols per each subcarrier spacing of 60kHz and 120kHz.				only
<i>twoFL-DMRS-TwoAdditionalDMRS-DL</i> Defines whether the UE supports DM-RS pattern for DL transmission with 2 symbols front-loaded DM-RS with one additional 2 symbols DM-RS.	FS	No	N/A	N/A
type1-3-CSS	FS	Yes	N/A	FR2
Defines whether the UE is able to receive PDCCH in FR2 in a Type1-PDCCH common search space configured by dedicated RRC signaling, in a Type3-PDCCH common search space or a UE-specific search space if those are associated with a CORESET with a duration of 3 symbols.				only
ue-SpecificUL-DL-Assignment	FS	No	N/A	N/A
Indicates whether the UE supports dynamic determination of UL and DL link direction and slot format based on Layer 1 scheduling DCI and higher layer configured parameter <i>TDD-UL-DL-ConfigDedicated</i> as specified in TS 38.213 [11].				

#### 4.2.7.6 *FeatureSetDownlinkPerCC* parameters

Definitions for parameters	Per	М	FDD- TDD DIFF	FR1- FR2 DIFF
<i>channelBW-90mhz</i> Indicates whether the UE supports the channel bandwidth of 90 MHz.	FSPC	No	N/A	FR1 only
<i>maxNumberMIMO-LayersPDSCH</i> Defines the maximum number of spatial multiplexing layer(s) supported by the UE for DL reception. For single CC standalone NR, it is mandatory with capability signaling to support at least 4 MIMO layers in the bands where 4Rx is specified as mandatory for the given UE and at least 2 MIMO layers in FR2. If absent, the UE does not support MIMO on this carrier.	FSPC	CY	N/A	N/A
<ul> <li><i>supportedBandwidthDL</i></li> <li>Indicates maximum DL channel bandwidth supported for a given SCS that UE supports within a single CC, which is defined in Table 5.3.5-1 in TS 38.101-1 [2] for FR1 and Table 5.3.5-1 in TS 38.101-2 [3] for FR2.</li> <li>For FR1, all the bandwidths listed in TS38.101-1 Table 5.3.5-1 for each band shall be mandatory with a single CC unless indicated optional. For FR2, the set of mandatory CBW is 50, 100, 200 MHz. When this field is included in a band combination with a single band entry and a single CC entry (i.e. non-CA band combination), the UE shall indicate the maximum channel bandwidth for the band according to TS 38.101-1 [2] and TS 38.101-2 [3].</li> <li>The UE may report a <i>supportedBandwidthDL</i> wider than the <i>channelBWs-DL</i>; this <i>supportedBandwidthDL</i> may not be included in the Table 5.3.5-1 of TS 38.101-1 [2]/TS 38.101-2[3] for the case that the UE is unable to report the actual supported bandwidth according to the Table 5.3.5-1 of TS 38.101-1[2]/TS 38.101-2[3].</li> <li>NOTE: To determine whether the UE supports a channel bandwidth of 90 MHz, the network may ignore this capability and validate instead the <i>channelBW-90mhz</i>, the <i>supportedBandwidthCombinationSetIntraENDC</i>. For serving cell(s) with other channel bandwidthCombinationSetIntraENDC, the <i>supportedBandwidthCombinationSetIntraENDC</i>, the <i>supportedBandwidthCombinationSetIntraENDC</i>, the <i>asymmetricBandwidthCombinationSetIntraENDC</i>, the <i>asymmetricBandwidthCombinationSetIntraENDC</i>, the <i>asymmetricBandwidthCombinationSetIntraENDC</i>, the <i>asymmetricBandwidthDL</i>.</li> </ul>	FSPC	CY	N/A	N/A
<ul> <li>supportedModulationOrderDL</li> <li>Indicates the maximum supported modulation order to be applied for downlink in the carrier in the max data rate calculation as defined in 4.1.2. If included, the network may use a modulation order on this serving cell which is higher than the value indicated in this field as long as UE supports the modulation of higher value for downlink. If not included: <ul> <li>for FR1, the network uses the modulation order signalled in <i>pdsch-256QAM-FR1</i>.</li> <li>for FR2, the network uses the modulation order signalled per band i.e. <i>pdsch-256QAM-FR2</i> if signalled. If not signalled in a given band, the network shall use the modulation order 64QAM.</li> </ul> </li> <li>In all the cases, it shall be ensured that the data rate does not exceed the max data rate (<i>DataRate</i>) and max data rate per CC (<i>DataRateCC</i>) according to TS 38.214 [12].</li> </ul>	FSPC	No	N/A	N/A
<b>supportedSubCarrierSpacingDL</b> Defines the supported sub-carrier spacing for DL by the UE, as defined in clause 4.2-1 of TS 38.211 [6], indicating the UE supports simultaneous reception with same or different numerologies in CA. Support of simultaneous reception with same numerology for intra-band NR CA including both contiguous and non-contiguous is mandatory with capability in both FR1 and FR2. Support of simultaneous reception with two different numerologies between FR1 band(s) and FR2 band(s) in DL is mandatory with capability if UE supports inter-band NR CA including both FR1 band(s) and FR2 band(s). Optional for other cases. Support of simultaneous reception of with different numerologies in CA for other cases is optional.	FSPC	CY	N/A	N/A

## 4.2.7.7 *FeatureSetUplink* parameters

Definitions for parameters	Per	М	FDD- TDD DIFF	FR1- FR2 DIFF
scalingFactor Indicates the scaling factor to be applied to the band in the max data rate calculation as defined in 4.1.2. Value f0p4 indicates the scaling factor 0.4, f0p75 indicates 0.75, and so on. If absent, the scaling factor 1 is applied to the band in the max data rate calculation.	FS	No	N/A	N/A
<i>dynamicSwitchSUL</i> Indicates whether the UE supports supplemental uplink with dynamic switch (DCI based selection of PUSCH carrier). The UE supports this among a carrier on a band X and a band Y if it sets this capability parameter for both band X and band Y.	FS	No	N/A	N/A
featureSetListPerUplinkCC Indicates which features the UE supports on the individual UL carriers of the feature set (and hence of a band entry that refer to the feature set) by <i>FeatureSetUplinkPerCC-Id</i> . The order of the elements in this list is not relevant, i.e., the network may configure any of the carriers in accordance with any of the <i>FeatureSetUplinkPerCC-Id</i> in this list. A fallback per CC feature set resulting from the reported feature set per UL CC is not signalled but the UE shall support it.	FS	N/A	N/A	N/A
<i>intraBandFreqSeparationUL</i> Indicates UL frequency separation class the UE supports, which indicates a maximum frequency separation between lower edge of lowest CC and upper edge of highest CC in a frequency band, for intra-band non-contiguous CA. The UE sets the same value in the FeatureSetUplink of each band entry within a band. The values c1, c2 and c3 corresponds to the values defined in TS 38.101-2 [3]. It is mandatory to report for UE which supports UL non-contiguous CA in FR2.	FS	CY	N/A	FR2 only
<b>pa-PhaseDiscontinuityImpacts</b> Indicates incapability motivated by impacts of PA phase discontinuity with overlapping transmissions with non-aligned starting or ending times or hop boundaries across carriers for intra-band (NG)EN-DC/NE-DC, intra-band CA and FDM based ULSUP.	FS	No	N/A	N/A
<b>pusch-ProcessingType1-DifferentTB-PerSlot</b> Indicates whether the UE capable of processing time capability 1 supports transmission of up to two, four or seven unicast PUSCHs for several transport blocks in one serving cell within the same slot per CC that are multiplexed in time domain only.	FS	No	N/A	N/A
<ul> <li><b>Pusch-ProcessingType2</b></li> <li>Indicates whether the UE supports PUSCH processing capability 2. The UE supports it only if all serving cells are self-scheduled and if all serving cells in one band on which the network configured processingType2 use the same subcarrier spacing. This capability signalling comprises the following parameters for each subcarrier spacing supported by the UE. <ul> <li><i>fallback</i> indicates whether the UE supports PUSCH processing capability 2 when the number of configured carriers is larger than <i>numberOfCarriers</i> for a reported value of <i>differentTB-PerSlot</i>. If <i>fallback</i> = 'sc', UE supports capability 2 processing time on lowest cell index among the configured carriers in the band where the value is reported, if <i>fallback</i> = 'cap1-only', UE supports only capability 1, in the band where the value is reported;</li> </ul> </li> </ul>	FS	No	N/A	FR1 only
- <i>differentTB-PerSlot</i> indicates whether the UE supports processing type 2 for 1, 2, 4 and/or 7 unicast PUSCHs for different transport blocks per slot per CC; and if so, it indicates up to which number of CA serving cells the UE supports that number of unicast PUSCHs for different TBs. The UE shall include at least one of <i>numberOfCarriers</i> for 1, 2, 4 or 7 transport blocks per slot in this field if <i>pusch-ProcessingType2</i> is indicated.				
<i>pusch-SeparationWithGap</i> Indicates whether the UE supports separation of two unicast PUSCHs with a gap, applicable to Sub-carrier spacings of 15 kHz, 30 kHz and 60 kHz only. For any two consecutive slots n and n+1, if there are more than 1 unicast PUSCH in either slot, the minimum time separation between starting time of any two unicast PUSCHs within the duration of these slots is 2 OFDM symbols for 15kHz, 4 OFDM symbols for 30kHz and 7 OFDM symbols for 60kHz.	FS	No	N/A	N/A
searchSpaceSharingCA-UL Defines whether the UE supports UL PDCCH search space sharing for carrier aggregation operation.	FS	No	N/A	N/A

<i>simultaneousTxSUL-NonSUL</i> Indicates whether the UE supports simultaneous transmission of SRS on an SUL/non-SUL carrier and PUSCH/PUCCH/SRS on the other UL carrier in the same cell. The UE supports simultaneous transmission on an SUL band X and a Non- SUL band Y if it sets this capability parameter for both band X and band Y.	FS	No	N/A	N/A
supportedSRS-Resources Defines support of SRS resources. The capability signalling comprising indication	FS	FD	N/A	N/A
<ul> <li>of:</li> <li>maxNumberAperiodicSRS-PerBWP indicates supported maximum number of aperiodic SRS resources that can be configured for the UE per each BWP</li> </ul>				
<ul> <li>maxNumberAperiodicSRS-PerBWP-PerSlot indicates supported maximum number of aperiodic SRS resources per slot in the BWP</li> </ul>				
<ul> <li>maxNumberPeriodicSRS-PerBWP indicates supported maximum number of periodic SRS resources per BWP</li> </ul>				
<ul> <li>maxNumberPeriodicSRS-PerBWP-PerSlot indicates supported maximum number of periodic SRS resources per slot in the BWP</li> </ul>				
<ul> <li>maxNumberSemiPersistentSRS-PerBWP indicate supported maximum number of semi-persistent SRS resources that can be configured for the UE per each BWP</li> </ul>				
<ul> <li>maxNumberSemiPersistentSRS-PerBWP-PerSlot indicates supported maximum number of semi-persistent SRS resources per slot in the BWP</li> </ul>				
<ul> <li>maxNumberSRS-Ports-PerResource indicates supported maximum number of SRS antenna port per each SRS resource</li> </ul>				
If this field is not included, the UE suports one periodic, one aperiodic, no semi- persistent SRS resources per BWP and one periodic, one aperiodic, no semi- persistent SRS resources per BWP per slot and one SRS antenna port per SRS resource.				
<b>twoPUCCH-Group</b> Indicates whether two PUCCH group in CA with a same numerology across CCs for data and control channel [at a given time] is supported by the UE. For NR CA, two PUCCH group is supported with the same numerology across NR carriers for data and control channel at a given time. For (NG)EN-DC/NE-DC, two PUCCH group is supported with the same numerology across NR carriers for data and control channel at a given time. NR PUCCH group is configured in FR1 and another NR PUCCH group is configured in FR2. The UE supports two PUCCH groups with PUCCH on a band X and a band Y if it sets this capability parameter for both band X and band Y.	FS	No	N/A	N/A
<i>ul-MCS-TableAlt-DynamicIndication</i> Indicates whether the UE supports dynamic indication of MCS table using MCS-C-RNTI for PUSCH.	FS	No	N/A	N/A
zeroSlotOffsetAperiodicSRS Indicates whether the UE supports 0 slot offset between aperiodic SRS triggering and transmission, for SRS for CB PUSCH and antenna switching on FR1.	FS	No	N/A	N/A

4.2.7.8 *FeatureSetUplinkPerCC* parameters

Definitions for parameters	Per	М	FDD- TDD DIFF	FR1- FR2 DIFF
<i>channelBW-90mhz</i> Indicates whether the UE supports the channel bandwidth of 90 MHz.	FSPC	No	N/A	FR1 only
<i>maxNumberMIMO-LayersCB-PUSCH</i> Defines supported maximum number of MIMO layers at the UE for PUSCH transmission with codebook precoding. UE indicating support of this feature shall also indicate support of PUSCH codebook coherency subset. This feature is not supported for SUL.	FSPC	No	N/A	N/A
<b>maxNumberMIMO-LayersNonCB-PUSCH</b> Defines supported maximum number of MIMO layers at the UE for PUSCH transmission using non-codebook precoding. This feature is not supported for SUL. UE supporting non-codebook based PUSCH transmission shall indicate support of maxNumberMIMO-LayersNonCB-PUSCH, maxNumberSRS-ResourcePerSet and maxNumberSimultaneousSRS-ResourceTx together.	FSPC	No	N/A	N/A
<i>maxNumberSimultaneousSRS-ResourceTx</i> Defines the maximum number of simultaneous transmitted SRS resources at one symbol for non-codebook based transmission to the UE. This feature is not supported for SUL.	FSPC	No	N/A	N/A
maxNumberSRS-ResourcePerSet Defines the maximum number of SRS resources per SRS resource set configured for codebook or non-codebook based transmission to the UE. This feature is not supported for SUL.	FSPC	No	N/A	N/A
<ul> <li>supportedBandwidthUL</li> <li>Indicates maximum UL channel bandwidth supported for a given SCS that UE supports within a single CC, which is defined in Table 5.3.5-1 in TS38.101-1 [2] for FR1 and Table 5.3.5-1 in TS 38.101-2 [3] for FR2.</li> <li>For FR1, all the bandwidths listed in TS38.101-1 Table 5.3.5-1 for each band shall be mandatory with a single CC unless indicated optional. For FR2, the set of mandatory CBW is 50, 100, 200 MHz. When this field is included in a band combination with a single band entry and a single CC entry (i.e. non-CA band combination), the UE shall indicate the maximum channel bandwidth for the band according to TS 38.101-1 [2] and TS 38.101-2 [3].</li> <li>The UE may report a supportedBandwidthUL wider than the channelBWs-UL; this supportedBandwidthUL may not be included in the Table 5.3.5-1 of TS 38.101-1 [2]/TS 38.101-2[3] for the case that the UE is unable to report the actual supported bandwidth according to the Table 5.3.5-1 of TS 38.101-2[3].</li> <li>NOTE: To determine whether the UE supports a channel bandwidth of 90 MHz the network may ignore this capability and validate instead the channelBW-90mhz, the supportedBandwidthCombinationSet and the supportedBandwidthCombinationSet (for a band supportedBandwidthCombinationSet (for a band supporting asymmetric channel bandwidth as defined in clause 5.3.6 of TS 38.101-1 [2]) and supportedBandwidthUL.</li> </ul>	FSPC	CY	N/A	N/A
<ul> <li>supportedModulationOrderUL</li> <li>Indicates the maximum supported modulation order to be applied for uplink in the carrier in the max data rate calculation as defined in 4.1.2. If included, the network may use a modulation order on this serving cell which is higher than the value indicated in this field as long as UE supports the modulation of higher value for uplink. If not included, <ul> <li>for FR1 and FR2, the network uses the modulation order signalled per band i.e. <i>pusch-256QAM</i> if signalled. If not signalled in a given band, the network shall use the modulation order 64QAM.</li> </ul> </li> <li>In all the cases, it shall be ensured that the data rate does not exceed the max data rate (<i>DataRate</i>) and max data rate per CC (<i>DataRateCC</i>) according to TS 38.214 [12].</li> </ul>	FSPC	No	N/A	N/A

supportedSubCarrierSpacingUL	FSPC	CY	N/A	N/A
Defines the supported sub-carrier spacing for UL by the UE, as defined in 4.2-1 of				
TS 38.211 [6], indicating the UE supports simultaneous transmission with same or				
different numerologies in CA, or indicating the UE supports different numerologies				
on NR UL and SUL within one cell. Support of simultaneous transmissions with				
same numerology for intra-band NR CA including both contiguous and non-				
contiguous is mandatory with capability in both FR1 and FR2. Support of				
simultaneous transmission with two different numerologies between FR1 band(s)				
and FR2 band(s) in UL is mandatory with capability if UE supports inter-band NR				
CA including both FR1 band(s) and FR2 band(s). Support of simultaneous				
transmission with different numerologies in CA for other cases is optional.				

4.2.7.9 *MRDC-Parameters* 

Definitions for parameters	Per	М	FDD- TDD DIFF	FR1- FR2 DIFF
asyncIntraBandENDC Indicates whether the UE supports asynchronous FDD-FDD intra-band (NG)EN-DC with MRTD and MTTD as specified in clause 7.5 and 7.6 of TS 38.133 [5]. If asynchronous FDD-FDD intra-band (NG)EN-DC is not supported, the UE supports only synchronous FDD-FDD intra-band (NG)EN-DC.	BC	No	FDD only	FR1 only
<i>dualPA-Architecture</i> For an intra-band band combination, this field indicates the support of dual PAs. If absent in an intra-band band combination, the UE supports single PA for all the ULs in the intra-band band combination. For other band combinations, this field is not applicable.	BC	No	N/A	N/A
<i>dynamicPowerSharingENDC</i> Indicates whether the UE supports dynamic (NG)EN-DC power sharing between NR FR1 carriers and the LTE carriers. If the UE supports this capability the UE supports the dynamic power sharing behaviour as specified in clause 7 of TS 38.213 [11].	BC	Yes	N/A	FR1 only
dynamicPowerSharingNEDC Indicates whether the UE supports dynamic NE-DC power sharing between NR FR1 carriers and the LTE carriers. If the UE supports this capability, the UE supports the dynamic power sharing behavior as specified in clause 7 of TS 38.213 [11].	BC	Yes	N/A	FR1 only
IntraBandENDC-Support Indicates whether the UE supports intra-band (NG)EN-DC with only non-contiguous spectrum, or with both contiguous and non-contiguous spectrum for the (NG)EN-DC combination as specified in TS 38.101-3 [4]. If the UE does not include this field for an intra-band (NG)EN-DC combination the UE only supports the contiguous spectrum for the intra-band (NG)EN-DC combination.	BC	No	N/A	N/A
interBandContiguousMRDC Indicates for an inter-band (NG)EN-DC/NE-DC combination, where the frequency range of the E-UTRA band is a subset of the frequency range of the NR band (as specified in Table 5.5B.4.1-1 of TS 38.101-3 [4]), that the UE supports intra-band contiguous (NG)EN-DC/NE-DC requirements (see TS 38.101-3 [4]). If the field is absent for such an inter-band (NG)EN-DC/NE-DC combination, the UE supports intra-band non-contiguous (NG)EN-DC/NE-DC requirements.	BC	CY	N/A	N/A
simultaneousRxTxInterBandENDC Indicates whether the UE supports simultaneous transmission and reception in TDD-TDD and TDD-FDD inter-band (NG)EN-DC/NE-DC. It is mandatory for certain TDD-FDD and TDD-TDD band combinations defined in TS 38.101-3 [4].	BC	CY	N/A	N/A
<i>singleUL-Transmission</i> Indicates that the UE does not support simultaneous UL transmissions as defined in TS 38.101-3 [4]. The UE may only include this field for certain band combinations defined in TS 38.101-3 [4]. If included for a particular band combination, the field applies to all fallback band combinations of this band combination that are defined in TS 38.101-3 [4] as being allowed to include this field and does not apply to any other fallback band combinations defined in TS 38.101-3 [4]. The UE shall include this field for band combinations containing a band pair for which single UL transmission is the only specified operation mode in TS 38.101-3 [4] and if the UE supports UL on both bands. Otherwise, this feature is optional.	BC	FD	N/A	N/A
<b>spCellPlacement</b> Indicates whether the UE supports a SpCell on FR1-FDD, FR1-TDD and/or FR2- TDD depending on which additional SCells of other frequency range(s) / duplex mode(s) are configured. It is applicable to SCG of (NG)EN-DC and MCG of NE-DC, where UL is configured on more than one of FR1-FDD, FR1-TDD and FR2-TDD in a cell group. If not included, the UE supports SpCell on any serving cell with UL in supported band combinations.	UE	No	N/A	N/A
<i>tdm-Pattern</i> Indicates whether the UE supports the <i>tdm-PatternConfig</i> for <i>single UL-transmission</i> associated functionality, as specified in TS 36.331 [17]. Support is conditionally mandatory in (NG)EN-DC for UEs that do not support dynamicPowerSharingENDC and for UEs that indicate single UL transmission for any (NG)EN-DC BC. Support is conditionally mandatory in NE-DC for UEs that do not support dynamicPowerSharingNEDC and for UEs that indicate single UL transmission for any NE-DC BC. The feature is optional otherwise.	BC	CY	N/A	FR1 only

<i>ul-SharingEUTRA-NR</i> Indicates whether the UE supports (NG)EN-DC/NE-DC with EUTRA-NR coexistence in UL sharing via TDM only, FDM only, or both TDM and FDM from UE perspective as specified in TS 38.101-3 [4].	BC	No	N/A	FR1 only
<i>ul-SwitchingTimeEUTRA-NR</i> Indicates support of switching type between LTE UL and NR UL for (NG)EN- DC/NE-DC with LTE-NR coexistence in UL sharing from UE perspective as defined in clause 6.3B of TS 38.101-3 [4]. It is mandatory to report switching time type 1 or type 2 if UE reports <i>ul-SharingEUTRA-NR</i> is <i>tdm</i> or <i>both</i> .	BC	CY	N/A	FR1 only
<i>ul-TimingAlignmentEUTRA-NR</i> Indicates whether to apply the same UL timing between NR and LTE for dynamic power sharing capable UE operating in a synchronous intra-band contiguous (NG)EN-DC. If this field is absent, UE shall be capable of handling a timing difference up to applicable MTTD requirements when operating in a synchronous intra-band contiguous (NG)EN-DC network, as specified in TS 38.133 [5]. If this capability is included in an inter-band (NG)EN-DC BC with an intra-band (NG)EN-DC BC part, this capability is used to indicate the restriction to the intra-band (NG)EN-DC BC part.	BC	No	N/A	N/A

4.2.7.10 Phy-Parameters

Definitions for parameters	Per	М	FDD- TDD DIFF	FR1- FR2 DIFF
absoluteTPC-Command Indicates whether the UE supports absolute TPC command mode.	UE	No	No	Yes
<i>almostContiguousCP-OFDM-UL</i> Indicates whether the UE supports almost contiguous UL CP-OFDM transmissions as defined in clause 6.2 of TS 38.101-1 [2].	UE	No	No	Yes
<i>bwp-SwitchingDelay</i> Defines whether the UE supports DCI and timer based active BWP switching delay type1 or type2 specified in clause 8.6.2 of TS 38.133 [5]. It is mandatory to report type 1 or type 2.	UE	Yes	No	No
<i>cbg-FlushIndication-DL</i> Indicates whether the UE supports CBG-based (re)transmission for DL using CBG flushing out information (CBGFI) as specified in TS 38.214 [12].	UE	No	No	No
<i>cbg-TransIndication-DL</i> Indicates whether the UE supports CBG-based (re)transmission for DL using CBG transmission information (CBGTI) as specified in TS 38.214 [12].	UE	No	No	No
<i>cbg-TransIndication-UL</i> Indicates whether the UE supports CBG-based (re)transmission for UL using CBG transmission information (CBGTI) as specified in TS 38.214 [12].	UE	No	No	No
configuredUL-GrantType1 Indicates whether the UE supports Type 1 PUSCH transmissions with configured grant as specified in TS 38.214 [12] with UL-TWG-repK value of one.	UE	No	No	No
configuredUL-GrantType2 Indicates whether the UE supports Type 2 PUSCH transmissions with configured grant as specified in TS 38.214 [12] with UL-TWG-repK value of one.	UE	No	No	No
<i>cqi-TableAlt</i> Indicates whether UE supports the CQI table with target BLER of 10^-5.	UE	No	No	Yes
<i>csi-ReportFramework</i> See <i>csi-ReportFramework</i> in 4.2.7.2. For a band combination comprised of FR1 and FR2 bands, this parameter, if present, limits the corresponding parameter in <i>MIMO-ParametersPerBand</i> .	UE	Yes	No	N/A
<i>csi-ReportWithoutCQI</i> Indicates whether UE supports CSI reporting with report quantity set to 'CRI/RI/i1' as defined in clause 5.2.1.4 of TS 38.214 [12].	UE	No	No	Yes
<i>csi-ReportWithoutPMI</i> Indicates whether UE supports CSI reporting with report quantity set to 'CRI/RI/CQI' as defined in clause 5.2.1.4 of TS 38.214 [12].	UE	No	No	Yes
<i>csi-RS-CFRA-ForHO</i> Indicates whether the UE can perform reconfiguration with sync using a contention free random access on PRACH resources that are associated with CSI-RS resources of the target cell.	UE	No	No	No
<i>csi-RS-IM-ReceptionForFeedback</i> See <i>csi-RS-IM-ReceptionForFeedback</i> in 4.2.7.2. For a band combination comprised of FR1 and FR2 bands, this parameter, if present, limits the corresponding parameter in <i>MIMO-ParametersPerBand</i> .	UE	Yes	No	N/A
<i>csi-RS-ProcFrameworkForSRS</i> See <i>csi-RS-ProcFrameworkForSRS</i> in 4.2.7.2. For a band combination comprised of FR1 and FR2 bands, this parameter, if present, limits the corresponding parameter in <i>MIMO-ParametersPerBand</i> .	UE	No	No	N/A
<i>dl-64QAM-MCS-TableAlt</i> Indicates whether the UE supports the alternative 64QAM MCS table for PDSCH.	UE	No	No	Yes
<i>dl-SchedulingOffset-PDSCH-TypeA</i> Indicates whether the UE supports DL scheduling slot offset (K0) greater than 0 for PDSCH mapping type A.	UE	Yes	Yes	Yes
<i>dl-SchedulingOffset-PDSCH-TypeB</i> Indicates whether the UE supports DL scheduling slot offset (K0) greater than 0 for PDSCH mapping type B.	UE	Yes	Yes	Yes
<i>downlinkSPS</i> Indicates whether the UE supports PDSCH reception based on semi-persistent scheduling.	UE	No	No	No
dynamicBetaOffsetInd-HARQ-ACK-CSI Indicates whether the UE supports indicating beta-offset (UCI repetition factor onto PUSCH) for HARQ-ACK and/or CSI via DCI among the RRC configured beta- offsets.	UE	No	No	No

dynamicHARQ-ACK-Codebook	UE	Yes	No	No
Indicates whether the UE supports HARQ-ACK codebook dynamically constructed				
by DCI(s). This field shall be set to supported.		<b>.</b>		
dynamicHARQ-ACK-CodeB-CBG-Retx-DL	UE	No	No	No
Indicates whether the UE supports HARQ-ACK codebook size for CBG-based				
(re)transmission based on the DAI-based solution as specified in TS 38.213 [11].		- NI		
dynamicPRB-BundlingDL	UE	No	No	No
Indicates whether UE supports DCI-based indication of the PRG size for PDSCH				
reception.		NI-	N/s s	No.
dynamicSFI	UE	No	Yes	Yes
Indicates whether the UE supports monitoring for DCI format 2_0 and determination				
of slot formats via DCI format 2_0.		Nia	Na	Na
dynamicSwitchRA-Type0-1-PDSCH	UE	No	No	No
Indicates whether the UE supports dynamic switching between resource allocation				
Types 0 and 1 for PDSCH as specified in TS 38.212 [10].		Nia	Na	Na
dynamicSwitchRA-Type0-1-PUSCH	UE	No	No	No
Indicates whether the UE supports dynamic switching between resource allocation				
Types 0 and 1 for PUSCH as specified in TS 38.212 [10].		N <sub>2</sub>	NI -	No.
pucch-F0-2WithoutFH	UE	Yes	No	Yes
Indicates whether the UE supports transmission of a PUCCH format 0 or 2 without frequency hopping. When included, the UE does not support PUCCH formats 0 and				
2 without frequency hopping. When not included, the UE supports the PUCCH formats 0 and 2 without frequency hopping				
formats 0 and 2 without frequency hopping. pucch-F1-3-4WithoutFH	UE	Yes	No	Yes
Indicates whether the UE supports transmission of a PUCCH format 1, 3 or 4		162	INU	res
without frequency hopping. When included, the UE does not support PUCCH				
formats 1, 3 and 4 without frequency hopping. When not included, the UE supports				
the PUCCH formats 1, 3 and 4 without frequency hopping.				
interleavingVRB-ToPRB-PDSCH	UE	Yes	No	No
Indicates whether the UE supports receiving PDSCH with interleaved VRB-to-PRB	UE	res	INU	
mapping as specified in TS 38.211 [6].				
interSlotFreqHopping-PUSCH	UE	No	No	No
Indicates whether the UE supports inter-slot frequency hopping for PUSCH			INU	
transmissions.				
intraSlotFreqHopping-PUSCH	UE	Yes	No	Yes
Indicates whether the UE supports intra-slot frequency hopping for PUSCH		103	NO	103
transmission, except for PUSCH scheduled by PDCCH in the Type1-PDCCH				
common search space before RRC connection establishment.				
maxLayersMIMO-Indication	UE	Yes	No	No
Indicates whether the UE supports the network configuration of maxMIMO-Layers		163	INU	
as specified in TS 38.331 [9].				
maxNumberSearchSpaces	UE	No	No	No
Indicates whether the UE supports up to 10 search spaces in an SCell per BWP.			INU	
multipleCORESET	UE	CY	No	Yes
Indicates whether the UE supports configuration of up to two PDCCH CORESETs			INU	res
per BWP in addition to the CORESET with CORESET-ID 0 in the BWP. If this is not				
supported, the UE supports one PDCCH CORESET per BWP in addition to the				
CORESET with CORESET-ID 0 in the BWP. It is mandatory with capability				
signaling for FR2 and optional for FR1. mux-HARQ-ACK-PUSCH-DiffSymbol	UE	Yes	No	Yes
		162	INU	res
Indicates whether the UE supports HARQ-ACK piggyback on a PUSCH with/without aperiodic CSI once per slot when the starting OFDM symbol of the PUSCH is				
different from the starting OFDM symbols of the PUCCH resource that HARQ-ACK				
would have been transmitted on.	UE	No	No	Yes
mux-MultipleGroupCtrICH-Overlap		No	No	res
Indicates whether the UE supports more than one group of overlapping PUCCHs				
and PUSCHs per slot per PUCCH cell group for control multiplexing.		NI-	NI-	V
mux-SR-HARQ-ACK-CSI-PUCCH-MultiPerSlot	UE	No	No	Yes
Indicates whether the UE supports multiplexing SR, HARQ-ACK and CSI on a				
PUCCH or piggybacking on a PUSCH more than once per slot when SR, HARQ-				
ALK and USLare supposed to be sent with the same or different starting symbol in	1	1		
ACK and CSI are supposed to be sent with the same or different starting symbol in				
a slot.		1 1		

<i>mux-SR-HARQ-ACK-CSI-PUCCH-OncePerSlot</i> sameSymbol indicates the UE supports multiplexing SR, HARQ-ACK and CSI on a PUCCH or piggybacking on a PUSCH once per slot, when SR, HARQ-ACK and CSI are supposed to be sent with the same starting symbols on the PUCCH resources in a slot. <i>diffSymbol</i> indicates the UE supports multiplexing SR, HARQ-ACK and CSI on a PUCCH or piggybacking on a PUSCH once per slot, when SR, HARQ- ACK and CSI are supposed to be sent with the different starting symbols in a slot. The UE is mandated to support the multiplexing and piggybacking features indicated by <i>sameSymbol</i> while the UE is optional to support the multiplexing and piggybacking features indicated by <i>diffSymbol</i> . If the UE indicates <i>sameSymbol</i> in this field and does not support <i>mux-HARQ-ACK- PUSCH-DiffSymbol</i> , the UE supports HARQ-ACK/CSI piggyback on PUSCH once per slot, when the starting OFDM symbol of the PUSCH is the same as the starting OFDM symbols of the PUCCH resource(s) that would have been transmitted on.	UE	FD	No	Yes
If the UE indicates <i>sameSymbol</i> in this field and supports <i>mux-HARQ-ACK-PUSCH-DiffSymbol</i> , the UE supports HARQ-ACK/CSI piggyback on PUSCH once per slot for which case the starting OFDM symbol of the PUSCH is the different from the starting OFDM symbols of the PUCCH resource(s) that would have been transmitted on.				
<i>mux-SR-HARQ-ACK-PUCCH</i> Indicates whether the UE supports multiplexing SR and HARQ-ACK on a PUCCH or piggybacking on a PUSCH once per slot, when SR and HARQ-ACK are supposed to be sent with the different starting symbols in a slot.	UE	No	No	Yes
<i>nzp-CSI-RS-IntefMgmt</i> Indicates whether the UE supports interference measurements using NZP CSI-RS.	UE	No	No	No
oneFL-DMRS-ThreeAdditionalDMRS-UL Defines whether the UE supports DM-RS pattern for UL transmission with 1 symbol front-loaded DM-RS with three additional DM-RS symbols.	UE	No	No	Yes
oneFL-DMRS-TwoAdditionalDMRS-UL Defines support of DM-RS pattern for UL transmission with 1 symbol front-loaded DM-RS with 2 additional DM-RS symbols and more than 1 antenna ports.	UE	Yes	No	Yes
<b>onePortsPTRS</b> Defines whether UE supports PT-RS with 1 antenna port in DL reception and/or UL transmission. It is mandatory with UE capability signalling for FR2 and optional for FR1. The left most in the bitmap corresponds to DL reception and the right most bit in the bitmap corresponds to UL transmission.	UE	CY	No	Yes
onePUCCH-LongAndShortFormat Indicates whether the UE supports transmission of one long PUCCH format and one short PUCCH format in TDM in the same slot.	UE	No	No	Yes
<i>pCell-FR2</i> Indicates whether the UE supports PCell operation on FR2.	UE	Yes	No	FR2 only
<b>pdcch-MonitoringSingleOccasion</b> Indicates whether the UE supports receiving PDCCH in a search space configured to be monitored within a single span of any three contiguous OFDM symbols in a slot with the capability of supporting at least 44 blind decodes in a slot for 15 kHz subcarrier spacing.	UE	No	No	FR1 only
pdcch-BlindDetectionCAIndicates PDCCH blind decoding capabilities supported by the UE for CA with more than 4 CCs as specified in TS 38.213 [11]. The field value is from 4 to 16.NOTE:FR1-FR2 differentiation is not allowed in this release, although the	UE	No	No	No
<ul> <li>NOTE: FR1-FR2 differentiation is not allowed in this release, although the capability signalling is supported for FR1-FR2 differentiation.</li> <li><i>pdcch-BlindDetectionMCG-UE</i></li> <li>Indicates PDCCH blind decoding capabilities supported for MCG when in NR DC. The field value is from 1 to 15. The UE sets the value in accordance with the constraints specified in TS 38.213 [11].</li> <li>Additionally, if the UE does not report <i>pdcch-BlindDetectionCA</i>, and if X is the maximum number of CCs supported by the UE across all NR-DC band combinations then there is at least one parameter pair (X1, X2) such that X1 + X2 = X and the UE supports at least one NR-DC band combination with X1 CCs in MCG and X2 CCs in SCG and for which X1 &lt;= <i>pdcch-BlindDetectionMCG-UE</i> and X2 &lt;= <i>pdcch-BlindDetectionSCG-UE</i>.</li> </ul>	UE	No	No	Yes

pdcch-BlindDetectionSCG-UE	UE	No	No	Yes
Indicates PDCCH blind decoding capabilities supported for SCG when in NR DC.				
The field value is from 1 to 15. The UE sets the value in accordance with the				
constraints specified in TS 38.213 [11].				
Additionally, if the UE does not report <i>pdcch-BlindDetectionCA</i> , and if X is the				
maximum number of CCs supported by the UE across all NR-DC band				
combinations then there is at least one parameter pair (X1, X2) such that $X1 + X2 =$				
X and the UE supports at least one NR-DC band combination with X1 CCs in MCG				
and X2 CCs in SCG and for which X1 <= pdcch-BlindDetectionMCG-UE and X2 <=				
pdcch-BlindDetectionSCG-UE.				<b>FD</b> 4
pdsch-256QAM-FR1	UE	Yes	No	FR1
Indicates whether the UE supports 256QAM modulation scheme for PDSCH for				only
FR1 as defined in 7.3.1.2 of TS 38.211 [6].	=			
pdsch-MappingTypeA	UE	Yes	No	No
Indicates whether the UE supports receiving PDSCH using PDSCH mapping type A				
with less than seven symbols. This field shall be set to supported.	=			
pdsch-MappingTypeB	UE	Yes	No	No
Indicates whether the UE supports receiving PDSCH using PDSCH mapping type				
B.	· · -			
pdsch-RepetitionMultiSlots	UE	No	No	No
Indicates whether the UE supports receiving PDSCH scheduled by DCI format 1_1				
when configured with higher layer parameter <i>pdsch-AggregationFactor</i> > 1, as				
defined in 5.1.2.1 of TS 38.214 [12].	, .=			
pdsch-RE-MappingFR1-PerSymbol/pdsch-RE-MappingFR1-PerSlot	UE	Yes	No	FR1
Indicates the maximum number of supported PDSCH Resource Element (RE)				only
mapping patterns for FR1, each described as a resource (including NZP/ZP CSI-				
RS, CRS, CORESET and SSB) or bitmap. The number of patterns coinciding in a				
symbol in a CC and in a slot in a CC are limited by the respective capability				
parameters. Value n10 means 10 RE mapping patterns and n16 means 16 RE				
mapping patterns, and so on. The UE shall set the fields pdsch-RE-MappingFR1-				
PerSymbol and pdsch-RE-MappingFR1-PerSlot to at least n10 and n16,				
respectively. In the exceptional case that the UE does not include the fields, the				
network may anyway assume that the UE supports the required minimum values.				
pdsch-RE-MappingFR2-PerSymbol/pdsch-RE-MappingFR2-PerSlot	UE	Yes	No	FR2
Indicates the maximum number of supported PDSCH Resource Element (RE)				only
mapping patterns for FR2, each described as a resource (including NZP/ZP CSI-				
DS CODESET and SSB) or hitman. The number of patterns coinciding in a symbol				
RS, CORESET and SSB) or bitmap. The number of patterns coinciding in a symbol				
in a CC and in a slot in a CC are limited by the respective capability parameters.				
in a CC and in a slot in a CC are limited by the respective capability parameters. Value n6 means 6 RE mapping patterns and n16 means 16 RE mapping patterns,				
in a CC and in a slot in a CC are limited by the respective capability parameters. Value n6 means 6 RE mapping patterns and n16 means 16 RE mapping patterns, and so on. The UE shall set the fields <i>pdsch-RE-MappingFR2-PerSymbol</i> and				
in a CC and in a slot in a CC are limited by the respective capability parameters. Value n6 means 6 RE mapping patterns and n16 means 16 RE mapping patterns, and so on. The UE shall set the fields <i>pdsch-RE-MappingFR2-PerSymbol</i> and <i>pdsch-RE-MappingFR2-PerSlo</i> t to at least n6 and n16, respectively. In the				
in a CC and in a slot in a CC are limited by the respective capability parameters. Value n6 means 6 RE mapping patterns and n16 means 16 RE mapping patterns, and so on. The UE shall set the fields <i>pdsch-RE-MappingFR2-PerSymbol</i> and <i>pdsch-RE-MappingFR2-PerSlot</i> to at least n6 and n16, respectively. In the exceptional case that the UE does not include the fields, the network may anyway				
in a CC and in a slot in a CC are limited by the respective capability parameters. Value n6 means 6 RE mapping patterns and n16 means 16 RE mapping patterns, and so on. The UE shall set the fields <i>pdsch-RE-MappingFR2-PerSymbol</i> and <i>pdsch-RE-MappingFR2-PerSlot</i> to at least n6 and n16, respectively. In the exceptional case that the UE does not include the fields, the network may anyway assume that the UE supports the required minimum values.				
in a CC and in a slot in a CC are limited by the respective capability parameters. Value n6 means 6 RE mapping patterns and n16 means 16 RE mapping patterns, and so on. The UE shall set the fields <i>pdsch-RE-MappingFR2-PerSymbol</i> and <i>pdsch-RE-MappingFR2-PerSlot</i> to at least n6 and n16, respectively. In the exceptional case that the UE does not include the fields, the network may anyway assume that the UE supports the required minimum values. <i>precoderGranularityCORESET</i>	UE	No	No	No
in a CC and in a slot in a CC are limited by the respective capability parameters. Value n6 means 6 RE mapping patterns and n16 means 16 RE mapping patterns, and so on. The UE shall set the fields <i>pdsch-RE-MappingFR2-PerSymbol</i> and <i>pdsch-RE-MappingFR2-PerSlot</i> to at least n6 and n16, respectively. In the exceptional case that the UE does not include the fields, the network may anyway assume that the UE supports the required minimum values. <i>precoderGranularityCORESET</i> Indicates whether the UE supports receiving PDCCH in CORESETs configured with	UE	No	No	No
in a CC and in a slot in a CC are limited by the respective capability parameters. Value n6 means 6 RE mapping patterns and n16 means 16 RE mapping patterns, and so on. The UE shall set the fields <i>pdsch-RE-MappingFR2-PerSymbol</i> and <i>pdsch-RE-MappingFR2-PerSlot</i> to at least n6 and n16, respectively. In the exceptional case that the UE does not include the fields, the network may anyway assume that the UE supports the required minimum values. <i>precoderGranularityCORESET</i> Indicates whether the UE supports receiving PDCCH in CORESETs configured with CORESET-precoder-granularity equal to the size of the CORESET in the frequency	UE	No	No	No
in a CC and in a slot in a CC are limited by the respective capability parameters. Value n6 means 6 RE mapping patterns and n16 means 16 RE mapping patterns, and so on. The UE shall set the fields <i>pdsch-RE-MappingFR2-PerSymbol</i> and <i>pdsch-RE-MappingFR2-PerSlo</i> to at least n6 and n16, respectively. In the exceptional case that the UE does not include the fields, the network may anyway assume that the UE supports the required minimum values. <i>precoderGranularityCORESET</i> Indicates whether the UE supports receiving PDCCH in CORESETs configured with CORESET-precoder-granularity equal to the size of the CORESET in the frequency domain as specified in TS 38.211 [6].				
in a CC and in a slot in a CC are limited by the respective capability parameters. Value n6 means 6 RE mapping patterns and n16 means 16 RE mapping patterns, and so on. The UE shall set the fields <i>pdsch-RE-MappingFR2-PerSymbol</i> and <i>pdsch-RE-MappingFR2-PerSlot</i> to at least n6 and n16, respectively. In the exceptional case that the UE does not include the fields, the network may anyway assume that the UE supports the required minimum values. <i>precoderGranularityCORESET</i> Indicates whether the UE supports receiving PDCCH in CORESETs configured with CORESET-precoder-granularity equal to the size of the CORESET in the frequency domain as specified in TS 38.211 [6]. <i>pre-EmptIndication-DL</i>	UE	No	No	No
in a CC and in a slot in a CC are limited by the respective capability parameters. Value n6 means 6 RE mapping patterns and n16 means 16 RE mapping patterns, and so on. The UE shall set the fields <i>pdsch-RE-MappingFR2-PerSymbol</i> and <i>pdsch-RE-MappingFR2-PerSlot</i> to at least n6 and n16, respectively. In the exceptional case that the UE does not include the fields, the network may anyway assume that the UE supports the required minimum values. <i>precoderGranularityCORESET</i> Indicates whether the UE supports receiving PDCCH in CORESETs configured with CORESET-precoder-granularity equal to the size of the CORESET in the frequency domain as specified in TS 38.211 [6]. <i>pre-EmptIndication-DL</i> Indicates whether the UE supports interrupted transmission indication for PDSCH				
in a CC and in a slot in a CC are limited by the respective capability parameters. Value n6 means 6 RE mapping patterns and n16 means 16 RE mapping patterns, and so on. The UE shall set the fields <i>pdsch-RE-MappingFR2-PerSymbol</i> and <i>pdsch-RE-MappingFR2-PerSlo</i> to at least n6 and n16, respectively. In the exceptional case that the UE does not include the fields, the network may anyway assume that the UE supports the required minimum values. <i>precoderGranularityCORESET</i> Indicates whether the UE supports receiving PDCCH in CORESETs configured with CORESET-precoder-granularity equal to the size of the CORESET in the frequency domain as specified in TS 38.211 [6]. <i>pre-EmptIndication-DL</i> Indicates whether the UE supports interrupted transmission indication for PDSCH reception based on reception of DCI format 2_1 as defined in TS 38.213 [11].	UE	No	No	No
in a CC and in a slot in a CC are limited by the respective capability parameters. Value n6 means 6 RE mapping patterns and n16 means 16 RE mapping patterns, and so on. The UE shall set the fields <i>pdsch-RE-MappingFR2-PerSymbol</i> and <i>pdsch-RE-MappingFR2-PerSlot</i> to at least n6 and n16, respectively. In the exceptional case that the UE does not include the fields, the network may anyway assume that the UE supports the required minimum values. <i>precoderGranularityCORESET</i> Indicates whether the UE supports receiving PDCCH in CORESETs configured with CORESET-precoder-granularity equal to the size of the CORESET in the frequency domain as specified in TS 38.211 [6]. <i>pre-EmptIndication-DL</i> Indicates whether the UE supports interrupted transmission indication for PDSCH reception based on reception of DCI format 2_1 as defined in TS 38.213 [11]. <i>pucch-F2-WithFH</i>				No
in a CC and in a slot in a CC are limited by the respective capability parameters. Value n6 means 6 RE mapping patterns and n16 means 16 RE mapping patterns, and so on. The UE shall set the fields <i>pdsch-RE-MappingFR2-PerSymbol</i> and <i>pdsch-RE-MappingFR2-PerSlot</i> to at least n6 and n16, respectively. In the exceptional case that the UE does not include the fields, the network may anyway assume that the UE supports the required minimum values. <i>precoderGranularityCORESET</i> Indicates whether the UE supports receiving PDCCH in CORESETs configured with CORESET-precoder-granularity equal to the size of the CORESET in the frequency domain as specified in TS 38.211 [6]. <i>pre-EmptIndication-DL</i> Indicates whether the UE supports interrupted transmission indication for PDSCH reception based on reception of DCI format 2_1 as defined in TS 38.213 [11]. <i>pucch-F2-WithFH</i> Indicates whether the UE supports transmission of a PUCCH format 2 (2 OFDM	UE	No	No	No
in a CC and in a slot in a CC are limited by the respective capability parameters. Value n6 means 6 RE mapping patterns and n16 means 16 RE mapping patterns, and so on. The UE shall set the fields <i>pdsch-RE-MappingFR2-PerSymbol</i> and <i>pdsch-RE-MappingFR2-PerSlot</i> to at least n6 and n16, respectively. In the exceptional case that the UE does not include the fields, the network may anyway assume that the UE supports the required minimum values. <i>precoderGranularityCORESET</i> Indicates whether the UE supports receiving PDCCH in CORESETs configured with CORESET-precoder-granularity equal to the size of the CORESET in the frequency domain as specified in TS 38.211 [6]. <i>pre-EmptIndication-DL</i> Indicates whether the UE supports interrupted transmission indication for PDSCH reception based on reception of DCI format 2_1 as defined in TS 38.213 [11]. <i>pucch-F2-WithFH</i> Indicates whether the UE supports transmission of a PUCCH format 2 (2 OFDM	UE	No	No	No
in a CC and in a slot in a CC are limited by the respective capability parameters. Value n6 means 6 RE mapping patterns and n16 means 16 RE mapping patterns, and so on. The UE shall set the fields <i>pdsch-RE-MappingFR2-PerSymbol</i> and <i>pdsch-RE-MappingFR2-PerSlot</i> to at least n6 and n16, respectively. In the exceptional case that the UE does not include the fields, the network may anyway assume that the UE supports the required minimum values. <i>precoderGranularityCORESET</i> Indicates whether the UE supports receiving PDCCH in CORESETs configured with CORESET-precoder-granularity equal to the size of the CORESET in the frequency domain as specified in TS 38.211 [6]. <i>pre-EmptIndication-DL</i> Indicates whether the UE supports interrupted transmission indication for PDSCH reception based on reception of DCI format 2_1 as defined in TS 38.213 [11]. <i>pucch-F2-WithFH</i> Indicates whether the UE supports transmission of a PUCCH format 2 (2 OFDM symbols in total) with frequency hopping in a slot. This field shall be set to <i>supported</i> .	UE	No	No	No
in a CC and in a slot in a CC are limited by the respective capability parameters. Value n6 means 6 RE mapping patterns and n16 means 16 RE mapping patterns, and so on. The UE shall set the fields <i>pdsch-RE-MappingFR2-PerSymbol</i> and <i>pdsch-RE-MappingFR2-PerSlot</i> to at least n6 and n16, respectively. In the exceptional case that the UE does not include the fields, the network may anyway assume that the UE supports the required minimum values. <i>precoderGranularityCORESET</i> Indicates whether the UE supports receiving PDCCH in CORESETs configured with CORESET-precoder-granularity equal to the size of the CORESET in the frequency domain as specified in TS 38.211 [6]. <i>pre-EmptIndication-DL</i> Indicates whether the UE supports interrupted transmission indication for PDSCH reception based on reception of DCI format 2_1 as defined in TS 38.213 [11]. <i>pucch-F2-WithFH</i> Indicates whether the UE supports transmission of a PUCCH format 2 (2 OFDM symbols in total) with frequency hopping in a slot. This field shall be set to <i>supported</i> .	UE	No	No	No Yes
in a CC and in a slot in a CC are limited by the respective capability parameters. Value n6 means 6 RE mapping patterns and n16 means 16 RE mapping patterns, and so on. The UE shall set the fields <i>pdsch-RE-MappingFR2-PerSymbol</i> and <i>pdsch-RE-MappingFR2-PerSlot</i> to at least n6 and n16, respectively. In the exceptional case that the UE does not include the fields, the network may anyway assume that the UE supports the required minimum values. <i>precoderGranularityCORESET</i> Indicates whether the UE supports receiving PDCCH in CORESETs configured with CORESET-precoder-granularity equal to the size of the CORESET in the frequency domain as specified in TS 38.211 [6]. <i>pre-EmptIndication-DL</i> Indicates whether the UE supports interrupted transmission indication for PDSCH reception based on reception of DCI format 2_1 as defined in TS 38.213 [11]. <i>pucch-F2-WithFH</i> Indicates whether the UE supports transmission of a PUCCH format 2 (2 OFDM symbols in total) with frequency hopping in a slot. This field shall be set to <i>supported.</i> <i>pucch-F3-WithFH</i>	UE	No Yes	No	No Yes
in a CC and in a slot in a CC are limited by the respective capability parameters. Value n6 means 6 RE mapping patterns and n16 means 16 RE mapping patterns, and so on. The UE shall set the fields <i>pdsch-RE-MappingFR2-PerSymbol</i> and <i>pdsch-RE-MappingFR2-PerSlot</i> to at least n6 and n16, respectively. In the exceptional case that the UE does not include the fields, the network may anyway assume that the UE supports the required minimum values. <i>precoderGranularityCORESET</i> Indicates whether the UE supports receiving PDCCH in CORESETs configured with CORESET-precoder-granularity equal to the size of the CORESET in the frequency domain as specified in TS 38.211 [6]. <i>pre-EmptIndication-DL</i> Indicates whether the UE supports interrupted transmission indication for PDSCH reception based on reception of DCI format 2_1 as defined in TS 38.213 [11]. <i>pucch-F2-WithFH</i> Indicates whether the UE supports transmission of a PUCCH format 2 (2 OFDM symbols in total) with frequency hopping in a slot. This field shall be set to <i>supported</i> . <i>pucch-F3-WithFH</i> Indicates whether the UE supports transmission of a PUCCH format 3 (4~14 OFDM	UE	No Yes	No	No Yes
in a CC and in a slot in a CC are limited by the respective capability parameters. Value n6 means 6 RE mapping patterns and n16 means 16 RE mapping patterns, and so on. The UE shall set the fields <i>pdsch-RE-MappingFR2-PerSymbol</i> and <i>pdsch-RE-MappingFR2-PerSlot</i> to at least n6 and n16, respectively. In the exceptional case that the UE does not include the fields, the network may anyway assume that the UE supports the required minimum values. <i>precoderGranularityCORESET</i> Indicates whether the UE supports receiving PDCCH in CORESETs configured with CORESET-precoder-granularity equal to the size of the CORESET in the frequency domain as specified in TS 38.211 [6]. <i>pre-EmptIndication-DL</i> Indicates whether the UE supports interrupted transmission indication for PDSCH reception based on reception of DCI format 2_1 as defined in TS 38.213 [11]. <i>pucch-F2-WithFH</i> Indicates whether the UE supports transmission of a PUCCH format 2 (2 OFDM symbols in total) with frequency hopping in a slot. This field shall be set to <i>supported</i> . <i>pucch-F3-WithFH</i> Indicates whether the UE supports transmission of a PUCCH format 3 (4~14 OFDM symbols in total) with frequency hopping in a slot. This field shall be set to	UE	No Yes	No	No Yes
in a CC and in a slot in a CC are limited by the respective capability parameters. Value n6 means 6 RE mapping patterns and n16 means 16 RE mapping patterns, and so on. The UE shall set the fields <i>pdsch-RE-MappingFR2-PerSymbol</i> and <i>pdsch-RE-MappingFR2-PerSlot</i> to at least n6 and n16, respectively. In the exceptional case that the UE does not include the fields, the network may anyway assume that the UE supports the required minimum values. <i>precoderGranularityCORESET</i> Indicates whether the UE supports receiving PDCCH in CORESETs configured with CORESET-precoder-granularity equal to the size of the CORESET in the frequency domain as specified in TS 38.211 [6]. <i>pre-EmptIndication-DL</i> Indicates whether the UE supports interrupted transmission indication for PDSCH reception based on reception of DCI format 2_1 as defined in TS 38.213 [11]. <i>pucch-F2-WithFH</i> Indicates whether the UE supports transmission of a PUCCH format 2 (2 OFDM symbols in total) with frequency hopping in a slot. This field shall be set to <i>supported</i> . <i>pucch-F3-WithFH</i> Indicates whether the UE supports transmission of a PUCCH format 3 (4~14 OFDM symbols in total) with frequency hopping in a slot. This field shall be set to <i>supported</i> .	UE UE UE	No Yes Yes	No No No	No Yes Yes
in a CC and in a slot in a CC are limited by the respective capability parameters. Value n6 means 6 RE mapping patterns and n16 means 16 RE mapping patterns, and so on. The UE shall set the fields <i>pdsch-RE-MappingFR2-PerSymbol</i> and <i>pdsch-RE-MappingFR2-PerSlot</i> to at least n6 and n16, respectively. In the exceptional case that the UE does not include the fields, the network may anyway assume that the UE supports the required minimum values. <i>precoderGranularityCORESET</i> Indicates whether the UE supports receiving PDCCH in CORESETs configured with CORESET-precoder-granularity equal to the size of the CORESET in the frequency domain as specified in TS 38.211 [6]. <i>pre-EmptIndication-DL</i> Indicates whether the UE supports interrupted transmission indication for PDSCH reception based on reception of DCI format 2_1 as defined in TS 38.213 [11]. <i>pucch-F2-WithFH</i> Indicates whether the UE supports transmission of a PUCCH format 2 (2 OFDM symbols in total) with frequency hopping in a slot. This field shall be set to <i>supported</i> . <i>pucch-F3-WithFH</i> Indicates whether the UE supports transmission of a PUCCH format 3 (4~14 OFDM symbols in total) with frequency hopping in a slot. This field shall be set to <i>supported</i> . <i>pucch-F3-4-HalfPi-BPSK</i>	UE	No Yes	No	No Yes Yes
in a CC and in a slot in a CC are limited by the respective capability parameters. Value n6 means 6 RE mapping patterns and n16 means 16 RE mapping patterns, and so on. The UE shall set the fields <i>pdsch-RE-MappingFR2-PerSymbol</i> and <i>pdsch-RE-MappingFR2-PerSlot</i> to at least n6 and n16, respectively. In the exceptional case that the UE does not include the fields, the network may anyway assume that the UE supports the required minimum values. <i>precoderGranularityCORESET</i> Indicates whether the UE supports receiving PDCCH in CORESETs configured with CORESET-precoder-granularity equal to the size of the CORESET in the frequency domain as specified in TS 38.211 [6]. <i>pre-EmptIndication-DL</i> Indicates whether the UE supports interrupted transmission indication for PDSCH reception based on reception of DCI format 2_1 as defined in TS 38.213 [11]. <i>pucch-F2-WithFH</i> Indicates whether the UE supports transmission of a PUCCH format 2 (2 OFDM symbols in total) with frequency hopping in a slot. This field shall be set to <i>supported.</i> <i>pucch-F3-WithFH</i> Indicates whether the UE supports transmission of a PUCCH format 3 (4~14 OFDM symbols in total) with frequency hopping in a slot. This field shall be set to <i>supported.</i> <i>pucch-F3-4-HalfPi-BPSK</i> Indicates whether the UE supports pi/2-BPSK for PUCCH format 3/4 as defined in	UE UE UE	No Yes Yes	No No No	No Yes Yes
in a CC and in a slot in a CC are limited by the respective capability parameters. Value n6 means 6 RE mapping patterns and n16 means 16 RE mapping patterns, and so on. The UE shall set the fields <i>pdsch-RE-MappingFR2-PerSymbol</i> and <i>pdsch-RE-MappingFR2-PerSlo</i> t to at least n6 and n16, respectively. In the exceptional case that the UE does not include the fields, the network may anyway assume that the UE supports the required minimum values. <i>precoderGranularityCORESET</i> Indicates whether the UE supports receiving PDCCH in CORESETs configured with CORESET-precoder-granularity equal to the size of the CORESET in the frequency domain as specified in TS 38.211 [6]. <i>pre-EmptIndication-DL</i> Indicates whether the UE supports interrupted transmission indication for PDSCH reception based on reception of DCI format 2_1 as defined in TS 38.213 [11]. <i>pucch-F2-WithFH</i> Indicates whether the UE supports transmission of a PUCCH format 2 (2 OFDM symbols in total) with frequency hopping in a slot. This field shall be set to <i>supported.</i> <i>pucch-F3-WithFH</i> Indicates whether the UE supports transmission of a PUCCH format 3 (4~14 OFDM symbols in total) with frequency hopping in a slot. This field shall be set to <i>supported.</i> <i>pucch-F3-4-HalfPi-BPSK</i> Indicates whether the UE supports pi/2-BPSK for PUCCH format 3/4 as defined in 6.3.2.6 of TS 38.211 [6]. It is optional for FR1 and mandatory with capability	UE UE UE	No Yes Yes	No No No	No Yes Yes
in a CC and in a slot in a CC are limited by the respective capability parameters. Value n6 means 6 RE mapping patterns and n16 means 16 RE mapping patterns, and so on. The UE shall set the fields <i>pdsch-RE-MappingFR2-PerSymbol</i> and <i>pdsch-RE-MappingFR2-PerSlo</i> t to at least n6 and n16, respectively. In the exceptional case that the UE does not include the fields, the network may anyway assume that the UE supports the required minimum values. <i>precoderGranularityCORESET</i> Indicates whether the UE supports receiving PDCCH in CORESETs configured with CORESET-precoder-granularity equal to the size of the CORESET in the frequency domain as specified in TS 38.211 [6]. <i>pre-EmptIndication-DL</i> Indicates whether the UE supports interrupted transmission indication for PDSCH reception based on reception of DCI format 2_1 as defined in TS 38.213 [11]. <i>pucch-F2-WithFH</i> Indicates whether the UE supports transmission of a PUCCH format 2 (2 OFDM symbols in total) with frequency hopping in a slot. This field shall be set to <i>supported.</i> <i>pucch-F3-WithFH</i> Indicates whether the UE supports transmission of a PUCCH format 3 (4~14 OFDM symbols in total) with frequency hopping in a slot. This field shall be set to <i>supported.</i> <i>pucch-F3-4-HalfPi-BPSK</i> Indicates whether the UE supports pi/2-BPSK for PUCCH format 3/4 as defined in 6.3.2.6 of TS 38.211 [6]. It is optional for FR1 and mandatory with capability signalling for FR2.	UE UE UE UE	No Yes Yes CY	No No No	No Yes Yes
in a CC and in a slot in a CC are limited by the respective capability parameters. Value n6 means 6 RE mapping patterns and n16 means 16 RE mapping patterns, and so on. The UE shall set the fields <i>pdsch-RE-MappingFR2-PerSymbol</i> and <i>pdsch-RE-MappingFR2-PerSlo</i> t to at least n6 and n16, respectively. In the exceptional case that the UE does not include the fields, the network may anyway assume that the UE supports the required minimum values. <i>precoderGranularityCORESET</i> Indicates whether the UE supports receiving PDCCH in CORESETs configured with CORESET-precoder-granularity equal to the size of the CORESET in the frequency domain as specified in TS 38.211 [6]. <i>pre-EmptIndication-DL</i> Indicates whether the UE supports interrupted transmission indication for PDSCH reception based on reception of DCI format 2_1 as defined in TS 38.213 [11]. <i>pucch-F2-WithFH</i> Indicates whether the UE supports transmission of a PUCCH format 2 (2 OFDM symbols in total) with frequency hopping in a slot. This field shall be set to <i>supported.</i> <i>pucch-F3-WithFH</i> Indicates whether the UE supports transmission of a PUCCH format 3 (4~14 OFDM symbols in total) with frequency hopping in a slot. This field shall be set to <i>supported.</i> <i>pucch-F3-4-HalfPi-BPSK</i> Indicates whether the UE supports pi/2-BPSK for PUCCH format 3/4 as defined in 6.3.2.6 of TS 38.211 [6]. It is optional for FR1 and mandatory with capability	UE UE UE	No Yes Yes	No No No	No Yes Yes

<i>pusch-RepetitionMultiSlots</i> Indicates whether the UE supports transmitting PUSCH scheduled by DCI format	UE	Yes	No	No
$0_1$ when configured with higher layer parameter <i>pusch-AggregationFactor</i> > 1, as defined in clause 6.1.2.1 of TS 38.214 [12].				
pucch-Repetition-F1-3-4	UE	Yes	No	No
Indicates whether the UE supports transmission of a PUCCH format 1 or 3 or 4 over		103	NO	
multiple slots with the repetition factor 2, 4 or 8.				
pusch-HalfPi-BPSK	UE	CY	No	Yes
Indicates whether the UE supports pi/2-BPSK modulation scheme for PUSCH as				
defined in 6.3.1.2 of TS 38.211 [6]. It is optional for FR1 and mandatory with				
capability signalling for FR2.				
pusch-LBRM	UE	No	No	Yes
Indicates whether the UE supports limited buffer rate matching in UL as specified in	0			
TS 38.212 [10].				
ra-Type0-PUSCH	UE	No	No	No
Indicates whether the UE supports resource allocation Type 0 for PUSCH as	0			
specified in TS 38.214 [12].				
rateMatchingCtrlResrcSetDynamic	UE	Yes	No	No
Indicates whether the UE supports dynamic rate matching for DL control resource			110	
set.				
rateMatchingResrcSetDynamic	UE	No	No	No
Indicates whether the UE supports receiving PDSCH with resource mapping that			NU	
excludes the REs corresponding to resource sets configured with RB-symbol level				
granularity indicated by <i>bitmaps</i> (see <i>patternType</i> in <i>RateMatchPattern</i> in TS				
38.331[9]) based on dynamic indication in the scheduling DCI as specified in TS				
38.214 [12].				
rateMatchingResrcSetSemi-Static	UE	Yes	No	No
Indicates whether the UE supports receiving PDSCH with resource mapping that		163	NU	
excludes the REs corresponding to resource sets configured with RB-symbol level				
granularity indicated by <i>bitmaps</i> and <i>controlResourceSet</i> (see <i>patternType</i> in				
RateMatchPattern in TS 38.331[9]) following the semi-static configuration as				
specified in TS 38.214 [12]. scs-60kHz	UE	No	No	FR1
	UE	INO	INO	
Indicates whether the UE supports 60kHz subcarrier spacing for data channel in				only
FR1 as defined in clause 4.2-1 of TS 38.211 [6]. semiOpenLoopCSI	UE	No	No	Yes
	UE	INO	INO	res
Indicates whether UE supports CSI reporting with report quantity set to 'CRI/RI/i1/CQI ' as defined in clause 5.2.1.4 of TS 38.214 [12].				
semiStaticHARQ-ACK-Codebook	UE	Yes	No	No
		res	INO	No
Indicates whether the UE supports HARQ-ACK codebook constructed by semi-				
static configuration. spatialBundlingHARQ-ACK	UE	Yes	No	No
		res	INO	
Indicates whether the UE supports spatial bundling of HARQ-ACK bits carried on				
PUCCH or PUSCH per PUCCH group. With spatial bundling, two HARQ-ACK bits				
for a DL MIMO data is bundled into a single bit by logical "AND" operation.		Ne	Ne	N Le
<b>spCellPlacement</b> Indicates whether the UE supports a SpCell on FR1-FDD, FR1-TDD and/or FR2-	UE	No	No	No
TDD depending on which additional SCells of other frequency range(s) / duplex mode(s) are configured. It is applicable to NR SA and MCG of NR-DC, where UL is				
configured on more than one of FR1-FDD, FR1-TDD and FR2-TDD in a cell group.				
If not included, the UE supports SpCell on any serving cell with UL in supported				
band combinations.		NI-	NI -	<u> </u>
sp-CSI-IM	UE	No	No	Yes
Indicates whether the UE supports semi-persistent CSI-IM.		N1.	NI-	<b>.</b>
sp-CSI-ReportPUCCH	UE	No	No	No
Indicates whether UE supports semi-persistent CSI reporting using PUCCH formats				
2, 3 and 4.			• •	• •
sp-CSI-ReportPUSCH	UE	No	No	No
Indicates whether UE supports semi-persistent CSI reporting using PUSCH.	· · · -			
sp-CSI-RS	UE	Yes	No	Yes
Indicates whether the UE supports semi-persistent CSI-RS.				
supportedDMRS-TypeDL	UE	FD	No	Yes
Defines supported DM-RS configuration types at the UE for DL reception. Type 1 is				
	1	1 I		1
mandatory with capability signaling. Type 2 is optional. If this field is not included, Type 1 is supported.				

supportedDMRS-TypeUL	UE	FD	No	Yes
Defines supported DM-RS configuration types at the UE for UL transmission.				
Support of both type 1 and type 2 is mandatory with capability signalling. If this field				
is not included, Type 1 is supported.			-	
tdd-MultiDL-UL-SwitchPerSlot	UE	No	TDD	Yes
Indicates whether the UE supports more than one switch points in a slot for actual			only	
DL/UL transmission(s).		NIT	NI-	N
tpc-PUCCH-RNTI	UE	No	No	Yes
Indicates whether the UE supports group DCI message based on TPC-PUCCH-				
RNTI for TPC commands for PUCCH.		Na	Na	Vaa
tpc-PUSCH-RNTI	UE	No	No	Yes
Indicates whether the UE supports group DCI message based on TPC-PUSCH-				
RNTI for TPC commands for PUSCH.		Na	Na	Vaa
tpc-SRS-RNTI	UE	No	No	Yes
Indicates whether the UE supports group DCI message based on TPC-SRS-RNTI for TPC commands for SRS.				
	UE	Yes	Yes	Yes
twoDifferentTPC-Loop-PUCCH	UE	res	res	res
Indicates whether the UE supports two different TPC loops for PUCCH closed loop				
power control.	UE	Yes	Yes	Yes
twoDifferentTPC-Loop-PUSCH		res	res	res
Indicates whether the UE supports two different TPC loops for PUSCH closed loop power control.				
twoFL-DMRS	UE	Yes	No	Yes
Defines whether the UE supports DM-RS pattern for DL reception and/or UL		res	INO	165
transmission with 2 symbols front-loaded DM-RS without additional DM-RS				
symbols.				
The left most in the bitmap corresponds to DL reception and the right most bit in the				
bitmap corresponds to UL transmission.				
twoFL-DMRS-TwoAdditionalDMRS-UL	UE	Yes	No	Yes
Defines whether the UE supports DM-RS pattern for UL transmission with 2		res	INO	165
symbols front-loaded DM-RS with one additional 2 symbols DM-RS.				
twoPUCCH-AnyOthersInSlot	UE	No	No	Yes
Indicates whether the UE supports transmission of two PUCCH formats in TDM in			INU	163
the same slot, which are not covered by <i>twoPUCCH-F0-2-ConsecSymbols</i> and				
onePUCCH-LongAndShortFormat.				
twoPUCCH-F0-2-ConsecSymbols	UE	No	Yes	Yes
Indicates whether the UE supports transmission of two PUCCHs of format 0 or 2 in			100	100
consecutive symbols in a slot.				
type1-PUSCH-RepetitionMultiSlots	UE	No	No	No
Indicates whether the UE supports Type 1 PUSCH transmissions with configured			110	110
grant as specified in TS 38.214 [12] with UL-TWG-repK value equal to 2, 4, or 8				
with a single repetition of the transport block within each slot, and redundancy				
version pattern as indicated by UL-TWG-RV-rep. A UE supporting this feature shall				
also support Type 1 PUSCH transmissions with configured grant as specified in TS				
38.214 [12] with UL-TWG-repK value of one.				
type2-PUSCH-RepetitionMultiSlots	UE	No	No	No
Indicates whether the UE supports Type 2 PUSCH transmissions with configured				
grant as specified in 15 38,214 1121 with UL-1WG-repk value equal to 2, 4, of 8				
grant as specified in TS 38.214 [12] with UL-TWG-repK value equal to 2, 4, or 8 with a single repetition of the transport block within each slot, and redundancy				
with a single repetition of the transport block within each slot, and redundancy				
with a single repetition of the transport block within each slot, and redundancy version pattern as indicated by UL-TWG-RV-rep. A UE supporting this feature shall				
with a single repetition of the transport block within each slot, and redundancy version pattern as indicated by UL-TWG-RV-rep. A UE supporting this feature shall also support Type 2 PUSCH transmissions with configured grant as specified in TS				
with a single repetition of the transport block within each slot, and redundancy version pattern as indicated by UL-TWG-RV-rep. A UE supporting this feature shall	UE	No	No	No
with a single repetition of the transport block within each slot, and redundancy version pattern as indicated by UL-TWG-RV-rep. A UE supporting this feature shall also support Type 2 PUSCH transmissions with configured grant as specified in TS 38.214 [12] with UL-TWG-repK value of one.	UE	No	No	No
with a single repetition of the transport block within each slot, and redundancy version pattern as indicated by UL-TWG-RV-rep. A UE supporting this feature shall also support Type 2 PUSCH transmissions with configured grant as specified in TS 38.214 [12] with UL-TWG-repK value of one. <b>type2-SP-CSI-Feedback-LongPUCCH</b> Indicates whether UE supports Type II CSI semi-persistent CSI reporting over	UE	No	No	No
with a single repetition of the transport block within each slot, and redundancy version pattern as indicated by UL-TWG-RV-rep. A UE supporting this feature shall also support Type 2 PUSCH transmissions with configured grant as specified in TS 38.214 [12] with UL-TWG-repK value of one. <b>type2-SP-CSI-Feedback-LongPUCCH</b> Indicates whether UE supports Type II CSI semi-persistent CSI reporting over PUCCH Formats 3 and 4 as defined in clause 5.2.4 of TS 38.214 [12].			No	
with a single repetition of the transport block within each slot, and redundancy version pattern as indicated by UL-TWG-RV-rep. A UE supporting this feature shall also support Type 2 PUSCH transmissions with configured grant as specified in TS 38.214 [12] with UL-TWG-repK value of one. <b>type2-SP-CSI-Feedback-LongPUCCH</b> Indicates whether UE supports Type II CSI semi-persistent CSI reporting over PUCCH Formats 3 and 4 as defined in clause 5.2.4 of TS 38.214 [12]. <b>uci-CodeBlockSegmentation</b>	UE	No Yes		No Yes
with a single repetition of the transport block within each slot, and redundancy version pattern as indicated by UL-TWG-RV-rep. A UE supporting this feature shall also support Type 2 PUSCH transmissions with configured grant as specified in TS 38.214 [12] with UL-TWG-repK value of one. <b>type2-SP-CSI-Feedback-LongPUCCH</b> Indicates whether UE supports Type II CSI semi-persistent CSI reporting over PUCCH Formats 3 and 4 as defined in clause 5.2.4 of TS 38.214 [12]. <b>uci-CodeBlockSegmentation</b> Indicates whether the UE supports segmenting UCI into multiple code blocks				
with a single repetition of the transport block within each slot, and redundancy version pattern as indicated by UL-TWG-RV-rep. A UE supporting this feature shall also support Type 2 PUSCH transmissions with configured grant as specified in TS 38.214 [12] with UL-TWG-repK value of one. <b>type2-SP-CSI-Feedback-LongPUCCH</b> Indicates whether UE supports Type II CSI semi-persistent CSI reporting over PUCCH Formats 3 and 4 as defined in clause 5.2.4 of TS 38.214 [12]. <b>uci-CodeBlockSegmentation</b> Indicates whether the UE supports segmenting UCI into multiple code blocks depending on the payload size.	UE	Yes	No	Yes
with a single repetition of the transport block within each slot, and redundancy version pattern as indicated by UL-TWG-RV-rep. A UE supporting this feature shall also support Type 2 PUSCH transmissions with configured grant as specified in TS 38.214 [12] with UL-TWG-repK value of one. <b>type2-SP-CSI-Feedback-LongPUCCH</b> Indicates whether UE supports Type II CSI semi-persistent CSI reporting over PUCCH Formats 3 and 4 as defined in clause 5.2.4 of TS 38.214 [12]. <b>uci-CodeBlockSegmentation</b> Indicates whether the UE supports segmenting UCI into multiple code blocks depending on the payload size. <b>ul-64QAM-MCS-TableAlt</b>				
with a single repetition of the transport block within each slot, and redundancy version pattern as indicated by UL-TWG-RV-rep. A UE supporting this feature shall also support Type 2 PUSCH transmissions with configured grant as specified in TS 38.214 [12] with UL-TWG-repK value of one. <b>type2-SP-CSI-Feedback-LongPUCCH</b> Indicates whether UE supports Type II CSI semi-persistent CSI reporting over PUCCH Formats 3 and 4 as defined in clause 5.2.4 of TS 38.214 [12]. <b>uci-CodeBlockSegmentation</b> Indicates whether the UE supports segmenting UCI into multiple code blocks depending on the payload size. <b>ul-64QAM-MCS-TableAlt</b> Indicates whether the UE supports the alternative 64QAM MCS table for PUSCH	UE	Yes	No	Yes
with a single repetition of the transport block within each slot, and redundancy version pattern as indicated by UL-TWG-RV-rep. A UE supporting this feature shall also support Type 2 PUSCH transmissions with configured grant as specified in TS 38.214 [12] with UL-TWG-repK value of one. <b>type2-SP-CSI-Feedback-LongPUCCH</b> Indicates whether UE supports Type II CSI semi-persistent CSI reporting over PUCCH Formats 3 and 4 as defined in clause 5.2.4 of TS 38.214 [12]. <b>uci-CodeBlockSegmentation</b> Indicates whether the UE supports segmenting UCI into multiple code blocks depending on the payload size. <b>ul-64QAM-MCS-TableAlt</b>	UE	Yes	No	Yes

## 4.2.7.11 Other PHY parameters

Definitions for parameters	Per	M	FDD- TDD DIFF	FR1- FR2 DIFF
appliedFreqBandListFilter Mirrors the FreqBandList that the NW provided in the capability enquiry, if any. The UE filtered the band combinations in the supportedBandCombinationList in accordance with this appliedFreqBandListFilter.	UE	No	No	No
<b>downlinkSetEUTRA</b> Indicates the features that the UE supports on the DL carriers corresponding to one EUTRA band entry in a band combination by FeatureSetEUTRA-DownlinkId. The FeatureSetEUTRA-DownlinkId = 0 means that the UE does not support a EUTRA DL carrier in this band of a band combination.	Band	N/A	N/A	N/A
<b>downlinkSetNR</b> Indicates the features that the UE supports on the DL carriers corresponding to one NR band entry in a band combination by FeatureSetDownlinkId. The FeatureSetDownlinkId = 0 means that the UE does not support a DL carrier in this band of a band combination. A fallback per band feature set resulting from the reported DL feature set that has fallback per CC feature set is not signalled but the UE shall support it.	Band	N/A	N/A	N/A
<i>featureSetCombinations</i> Pools of feature sets that the UE supports on the NR or MR-DC band combinations.	UE	N/A	No	No
featureSets Pools of downlink and uplink features sets as well as a pool of FeatureSetCombination elements. A FeatureSetCombination refers to the IDs of the feature set(s) that the UE supports in that FeatureSetCombination. The BandCombination entries in the BandCombinationList then indicate the ID of the FeatureSetCombination that the UE supports for that band combination.	UE	N/A	No	No
<i>naics-Capability-List</i> Indicates that UE in MR-DC supports NAICS as defined in TS 36.331 [17].	UE	No	No	No
receivedFilters Contains all filters requested with UE-CapabilityRequestFilterNR from version 15.6.0 onwards.	UE	No	No	No
supportedBandCombinationList Defines the supported NR and/or MR-DC band combinations by the UE. For each band combination the UE identifies the associated feature set combination by featureSetCombinations index referring to featureSetCombination. A fallback band combination resulting from the reported CA and MR-DC band combination is not signalled but the UE shall support it. For intra-band non-contiguous CA band combinations, the UE only includes one band combination, and exclude the others for which the presence of uplink CA bandwidth class in the band combination entry is different. One band combination entry can also indicate support of any other possible permutations in the presence of uplink CA bandwidth class where a paired downlink CA bandwidth class is the same or where the number of UL CCs is smaller than the one of paired DL CCs expressed by the CA bandwidth class, as specified in TS 36.306 [15]. For these band combinations not included in the capability, the supported feature set is the same as the ones for the band combination included in the UE capability.	UE	Yes	No	No
<i>supportedBandCombinationListNEDC-Only</i> Defines the supported NE-DC only type of band combinations by the UE.	UE	No	No	No
supportedBandListNR Includes the supported NR bands as defined in TS 38.101-1 [2] and TS 38.101-2 [3].	UE	Yes	No	No
<b>uplinkSetEUTRA</b> Indicates the features that the UE supports on the UL carriers corresponding to one EUTRA band entry in a band combination by FeatureSetEUTRA-UplinkId. The FeatureSetUplinkId = 0 means that the UE does not support a UL carrier in this band of a band combination.	Band	N/A	N/A	N/A
<i>uplinkSetNR</i> Indicates the features that the UE supports on the UL carriers corresponding to one NR band entry in a band combination by FeatureSetUplinkId. The FeatureSetUplinkId = 0 means that the UE does not support a UL carrier in this band of a band combination. A fallback per band feature set resulting from the reported UL feature set that has fallback per CC feature set is not signalled but the UE shall support it.	Band	N/A	N/A	N/A

#### 4.2.7.12 NRDC-Parameters

Definitions for parameters	Per	М	FDD- TDD DIFF	FR1- FR2 DIFF
<i>sfn-SyncNRDC</i> Indicates the UE supports NR-DC only with SFN and frame synchronization between PCell and PSCell. If not included by the UE supporting NR-DC, the UE supports NR-DC with slot-level synchronization without condition on SFN and frame synchronization.	UE	No	No	No

#### 4.2.7.13 CarrierAggregationVariant

Definitions for parameters	Per	М	FDD- TDD DIFF	FR1- FR2 DIFF
fr1fdd-FR1TDD-CA-SpCellOnFR1FDD	UE	No	No	No
Indicates whether the UE supports an FR1 FDD SpCell (and possibly SCells) when				
configured with an FR1 TDD SCell.				
fr1fdd-FR1TDD-CA-SpCellOnFR1TDD	UE	No	No	No
Indicates whether the UE supports an FR1 TDD SpCell (and possibly SCells) when				
configured with an FR1 FDD SCell.				
fr1fdd-FR1TDD-FR2TDD-CA-SpCellOnFR1FDD	UE	No	No	No
Indicates whether the UE supports an FR1 FDD SpCell (and possibly SCells) when				
configured with an FR1 TDD SCell and an FR2 TDD SCell.				
fr1fdd-FR1TDD-FR2TDD-CA-SpCellOnFR1TDD	UE	No	No	No
Indicates whether the UE supports an FR1 TDD SpCell (and possibly SCells) when				
configured with an FR1 FDD SCell and an FR2 TDD SCell.				
fr1fdd-FR1TDD-FR2TDD-CA-SpCellOnFR2TDD	UE	No	No	No
Indicates whether the UE supports an FR2 TDD SpCell (and possibly SCells) when				
configured with an FR1 FDD SCell and an FR1 TDD SCell.				
fr1fdd-FR2TDD-CA-SpCellOnFR1FDD	UE	No	No	No
Indicates whether the UE supports an FR1 FDD SpCell (and possibly SCells) when				
configured with an FR2 TDD SCell.				
fr1fdd-FR2TDD-CA-SpCellOnFR2TDD	UE	No	No	No
Indicates whether the UE supports an FR2 TDD SpCell (and possibly SCells) when				
configured with an FR1 FDD SCell.				
fr1tdd-FR2TDD-CA-SpCellOnFR1TDD	UE	No	No	No
Indicates whether the UE supports an FR1 TDD SpCell (and possibly SCells) when				
configured with an FR2 TDD SCell.				
fr1tdd-FR2TDD-CA-SpCellOnFR2TDD	UE	No	No	No
Indicates whether the UE supports an FR2 TDD SpCell (and possibly SCells) when				
configured with an FR1 TDD SCell.				

#### 4.2.8 Void

#### 4.2.9 MeasAndMobParameters

Definitions for parameters	Per	М	FDD- TDD DIFF	FR1- FR2 DIFF
<i>csi-RS-RLM</i> Indicates whether the UE can perform radio link monitoring procedure based on measurement of CSI-RS as specified in TS 38.213 [11] and TS 38.133 [5]. This parameter needs FR1 and FR2 differentiation. If the UE supports this feature, the UE needs to report <i>maxNumberResource-CSI-RS-RLM</i> .	UE	Yes	No	Yes
<i>csi-RSRP-AndRSRQ-MeasWithSSB</i> Indicates whether the UE can perform CSI-RSRP and CSI-RSRQ measurement as specified in TS 38.215 [13], where CSI-RS resource is configured with an associated SS/PBCH. If this parameter is indicated for FR1 and FR2 differently, each indication corresponds to the frequency range of measured target cell. If the UE supports this feature, the UE needs to report <i>maxNumberCSI-RS-RRM-RS-SINR</i> .	UE	No	No	Yes
<i>csi-RSRP-AndRSRQ-MeasWithoutSSB</i> Indicates whether the UE can perform CSI-RSRP and CSI-RSRQ measurement as specified in TS 38.215 [13], where CSI-RS resource is configured for a cell that transmits SS/PBCH block and without an associated SS/PBCH block. If this parameter is indicated for FR1 and FR2 differently, each indication corresponds to the frequency range of measured target cell. If the UE supports this feature, the UE needs to report <i>maxNumberCSI-RS-RRM-RS-SINR</i> .	UE	No	No	Yes
<i>csi-SINR-Meas</i> Indicates whether the UE can perform CSI-SINR measurements based on configured CSI-RS resources as specified in TS 38.215 [13]. If this parameter is indicated for FR1 and FR2 differently, each indication corresponding to the frequency range of measured target cell. If the UE supports this feature, the UE needs to report <i>maxNumberCSI-RS-RRM-RS-SINR</i> .	UE	No	No	Yes
<i>eutra-CGI-Reporting</i> Defines whether the UE supports acquisition of relevant information from a neighbouring E-UTRA cell by reading the SI of the neighbouring cell and reporting the acquired information to the network as specified in TS 38.331 [9] when the (NG)EN-DC and NE-DC are not configured or, when consistent DRX is configured in NR-DC. The consistent DRX configuration implies that MN and SN have the same DRX cycle and on-duration configured by MN completely contains on- duration configured by SN. It is mandated if the UE supports EUTRA.	UE	CY	No	No
<i>eutra-CGI-Reporting-NEDC</i> Defines whether the UE supports acquisition of relevant information from a neighbouring E-UTRA cell by reading the SI of the neighbouring cell and reporting the acquired information to the network as specified in TS 38.331 [9] when the NE-DC is configured.	UE	No	No	No
<i>eutra-CGI-Reporting-NRDC</i> Defines whether the UE supports acquisition of relevant information from a neighbouring E-UTRA cell by reading the SI of the neighbouring cell and reporting the acquired information to the network as specified in TS 38.331 [9] when the NR- DC is configured wherein MN and SN have different DRX cycles, or on-duration configured by MN does not contain on-duration configured by SN if the DRX cycles are the same.	UE	No	No	No
eventA-MeasAndReport Indicates whether the UE supports NR measurements and events A triggered reporting as specified in TS 38.331 [9]. This field only applies to SN configured measurement when (NG)EN-DC is configured. For NR MCG, this feature is mandatory supported.	UE	Yes	Yes	No
eventB-MeasAndReport Indicates whether the UE supports EUTRA measurement and event B triggered reporting as specified in TS 38.331 [9]. It is mandated if the UE supports EUTRA.	UE	CY	No	No
handoverLTE-5GC Indicates whether the UE supports HO to EUTRA connected to 5GC. It is mandated if the UE supports EUTRA connected to 5GC.	UE	CY	Yes	Yes
handoverFDD-TDD Indicates whether the UE supports HO between FDD and TDD. It is mandated if the UE supports both FDD and TDD. This field only applies to NR SA/NR-DC/ NE- DC (e.g. PCell handover). For PSCell change when (NG)EN-DC/NR-DC is configured, this feature is mandatory supported. UEs supporting this shall indicate support of handoverInterF for both FDD and TDD.	UE	Yes	No	No

Definitions for parameters	Per	М	FDD- TDD DIFF	FR1- FR2 DIFF
<i>handoverFR1-FR2</i> Indicates whether the UE supports HO between FR1 and FR2. Support is mandatory for the UE supporting both FR1 and FR2. This field only applies to NR SA/NR-DC/NE-DC (e.g. PCell handover). For PSCell change when (NG)EN- DC/NR-DC is configured, this feature is mandatory supported. UEs supporting this shall indicate support of <i>handoverInterF</i> for both FR1 and FR2.	UE	Yes	No	No
handoverInterF Indicates whether the UE supports inter-frequency HO. It indicates the support for inter-frequency HO from the corresponding duplex mode and from frequency range indicated to be supported as described in Annex B. This field only applies to NR SA/NR-DC/NE-DC (e.g. PCell handover). For PSCell change when (NG)EN- DC/NR-DC is configured, this feature is mandatory supported.	UE	Yes	Yes	Yes
<i>handoverLTE-EPC</i> Indicates whether the UE supports HO to EUTRA connected to EPC. It is mandated if the UE supports EUTRA connected to EPC.	UE	CY	Yes	Yes
<i>independentGapConfig</i> This field indicates whether the UE supports two independent measurement gap configurations for FR1 and FR2 specified in clause 9.1.2 of TS 38.133 [5]. The field also indicates whether the UE supports the FR2 inter-RAT measurement without gaps when (NG)EN-DC is not configured.	UE	No	No	No
<i>intraAndInterF-MeasAndReport</i> Indicates whether the UE supports NR intra-frequency and inter-frequency measurements and at least periodical reporting. This field only applies to NE-DC and SN configured measurement when (NG)EN-DC is configured. For NR MCG, this feature is mandatory supported.	UE	Yes	Yes	No
<i>periodicEUTRA-MeasAndReport</i> Indicates whether the UE supports periodic EUTRA measurement and reporting. It is mandated if the UE supports EUTRA.	UE	CY	No	No
<i>maxNumberCSI-RS-RRM-RS-SINR</i> Defines the maximum number of CSI-RS resources for RRM and RS-SINR measurement across all measurement frequencies per slot. If UE supports any of <i>csi-RSRP-AndRSRQ-MeasWithSSB, csi-RSRP-AndRSRQ-MeasWithoutSSB,</i> and <i>csi-SINR-Meas,</i> UE shall report this capability.	UE	CY	No	No
<i>maxNumberResource-CSI-RS-RLM</i> Defines the maximum number of CSI-RS resources within a slot per spCell for CSI-RS based RLM. If UE supports any of <i>csi-RS-RLM</i> and <i>ssb-AndCSI-RS-RLM</i> , UE shall report this capability.	UE	CY	No	Yes
<i>nr-CGI-Reporting</i> Defines whether the UE supports acquisition of relevant information from a neighbouring intra-frequency or inter-frequency NR cell by reading the SI of the neighbouring cell and reporting the acquired information to the network as specified in TS 38.331 [9] when (NG)EN-DC and NE-DC are not configured or, when consistent DRX is configured in NR-DC. The consistent DRX configuration implies that MN and SN have the same DRX cycle and on-duration configured by MN completely contains on-duration configured by SN.	UE	Yes	No	No
<i>nr-CGI-Reporting-ENDC</i> Defines whether the UE supports acquisition of relevant information from a neighbouring intra-frequency or inter-frequency NR cell by reading the SI of the neighbouring cell and reporting the acquired information to the network as specified in TS 38.331 [9] when the (NG)EN-DC is configured.	UE	Yes	No	No
<i>nr-CGI-Reporting-NEDC</i> Defines whether the UE supports acquisition of relevant information from a neighbouring intra-frequency or inter-frequency NR cell by reading the SI of the neighbouring cell and reporting the acquired information to the network as specified in TS 38.331 [9] when the NE-DC is configured.	UE	Yes	No	No
<i>nr-CGI-Reporting-NRDC</i> Defines whether the UE supports acquisition of relevant information from a neighbouring intra-frequency or inter-frequency NR cell by reading the SI of the neighbouring cell and reporting the acquired information to the network as specified in TS 38.331 [9] when the NR-DC is configured wherein MN and SN have different DRX cycles, or on-duration configured by MN does not contain on-duration configured by SN if the DRX cycles are the same.	UE	Yes	No	No

Definitions for parameters	Per	M	FDD- TDD DIFF	FR1- FR2 DIFF
simultaneousRxDataSSB-DiffNumerology Indicates whether the UE supports concurrent intra-frequency measurement on serving cell or neighbouring cell and PDCCH or PDSCH reception from the serving cell with a different numerology as defined in clause 8 and 9 of TS 38.133 [5].	UE	No	No	Yes
<i>sftd-MeasPSCell</i> Indicates whether the UE supports SFTD measurements between the PCell and a configured PSCell. If this capability is included in UE-MRDC-Capability, it indicates that the UE supports SFTD measurement between PCell and PSCell in (NG)EN- DC. If this capability is included in UE-NR-Capability, it indicates that the UE supports SFTD measurement between PCell and PSCell in NR-DC.	UE	No	Yes	No
<i>sftd-MeasPSCell-NEDC</i> Indicates whether the UE supports SFTD measurement between the NR PCell and a configured E-UTRA PSCell in NE-DC.	UE	No	Yes	No
<i>sftd-MeasNR-Cell</i> Indicates whether the SFTD measurement with and without measurement gaps between the EUTRA PCell and the NR cells is supported by the UE which is capable of EN-DC/NGEN-DC when EN-DC/NGEN-DC is not configured. The SFTD measurement without gaps can be used when the UE supports at least one EN-DC band combination consisting of the set of the current E-UTRA serving frequencies and the NR frequency where SFTD measurement is configured. In UE-NR-Capability, this field is not used, and UE does not include the field.	UE	No	Yes	No
sftd-MeasNR-Neigh Indicates whether the inter-frequency SFTD measurement with and without measurement gaps between the NR PCell and inter-frequency NR neighbour cells is supported by the UE when MR-DC is not configured. The SFTD measurement without gaps can be used when the UE supports at least one DC or CA band combination consisting of the set of the current NR serving frequencies and the NR frequency where SFTD measurement is configured.	UE	No	Yes	No
<i>sftd-MeasNR-Neigh-DRX</i> Indicates whether the inter-frequency SFTD measurement using DRX off period between the NR PCell and the inter-frequency NR neighbour cells is supported by the UE when MR-DC is not configured.	UE	No	Yes	No
ssb-RLM Indicates whether the UE can perform radio link monitoring procedure based on measurement of SS/PBCH block as specified in TS 38.213 [11] and TS 38.133 [5]. This field shall be set to supported.	UE	Yes	No	No
ssb-AndCSI-RS-RLM Indicates whether the UE can perform radio link monitoring procedure based on measurement of SS/PBCH block and CSI-RS as specified in TS 38.213 [11] and TS 38.133 [5]. If the UE supports this feature, the UE needs to report maxNumberResource-CSI-RS-RLM.	UE	No	No	No
ss-SINR-Meas Indicates whether the UE can perform SS-SINR measurement as specified in TS 38.215 [13]. If this parameter is indicated for FR1 and FR2 differently, each indication corresponds to the frequency range of measured target cell.	UE	No	No	Yes
supportedGapPattern Indicates measurement gap pattern(s) optionally supported by the UE for NR SA, for NR-DC, for NE-DC and for independent measurement gap configuration on FR2 in (NG)EN-DC. The leading / leftmost bit (bit 0) corresponds to the gap pattern 2, the next bit corresponds to the gap pattern 3, as specified in TS 38.133 [5] and so on. The UE shall set the bits corresponding to the measurement gap pattern 13 and 14 to 1 if the UE is an NR standalone capable UE that supports a band in FR2 or if the UE is an (NG)EN-DC capable UE that supports <i>independentGapConfig</i> and supports a band in FR2.	UE	CY	No	No

#### 4.2.10 Inter-RAT parameters

Definitions for parameters	Per	М	FDD- TDD DIFF
mfbi-EUTRA	UE	Yes	No
Indicates whether the UE supports the mechanisms defined for cells broadcasting multi band information i.e. comprehending <i>multiBandInfoList</i> defined in TS 36.331 [17].			
modifiedMPR-BehaviorEUTRA	UE	No	No
modifiedMPR-Behavior in 4.3.5.10, TS 36.306 [15].			
multiNS-Pmax-EUTRA	UE	No	No
multiNS-Pmax defined in 4.3.5.16, TS 36.306 [15].			
ne-DC	UE	No	No
Indicates whether the UE supports NE-DC as specified in TS 37.340 [7].			
rs-SINR-MeasEUTRA	UE	No	No
<i>rs-SINR-Meas</i> in 4.3.6.13, TS 36.306 [15].			
rsrgMeasWidebandEUTRA	UE	No	Yes
rsrqMeasWideband in 4.3.6.2, TS 36.306 [15]. If this parameter is indicated for FDD and			
TDD differently, each indication corresponds to the duplex mode of measured target cell.			
supportedBandListEUTRA	UE	No	No
supportedBandListEUTRA defined in 4.3.5.1, TS 36.306 [15].			

- 4.2.10.1 Void
- 4.2.10.2 Void
- 4.2.11 Void
- 4.2.12 Void

#### 4.2.13 IMS Parameters

Definitions for parameters	Per	Μ	FDD- TDD DIFF	FR1- FR2 DIFF
<b>voiceOverEUTRA-5GC</b> Indicates whether the UE supports IMS voice over E-UTRA via 5GC. It is mandated to the UE if the UE is capable of IMS voice over E-UTRA via 5GC. Otherwise, the UE does not include this field. If this field is included and the UE is capable of E-UTRA with EPC, the UE shall support IMS voice over E-UTRA via EPC.	UE	No	No	No
<b>voiceOverNR</b> Indicates whether the UE supports IMS voice over NR. It is mandated to the UE if the UE is capable of IMS voice over NR. Otherwise, the UE does not include this field. If this field is included and the UE is capable of E-UTRA with EPC, the UE shall support IMS voice over E-UTRA via EPC.	UE	No	No	Yes
voiceOverSCG-BearerEUTRA-5GC Indicates whether the UE supports IMS voice over SCG bearer of NE-DC.	UE	No	No	N/A

NOTE: In this release of specification, IMS voice over split bearer is not supported for NR-DC and NE-DC.

#### 4.2.14 RRC buffer size

The RRC buffer size is defined as the maximum overall RRC configuration size that the UE is required to store. The RRC buffer size is 45Kbytes.

# 5 Optional features without UE radio access capability parameters

#### 5.1 PWS features

#### Definitions for feature

It is optional for UE to support CMAS reception as specified in TS 38.331 [9]. It is optional for a CMAS-capable UE to support Geofencing information (*warningAreaCoordinates*) as specified in TS 38.331 [9].

ETWS

CMAS

It is optional for UE to support ETWS reception as specified in TS 38.331 [9].

KPAS

It is optional for UE to support Korean Public Alert System (KPAS) reception as specified in TS 38.331 [9]. KPAS uses the same AS mechanisms as defined for CMAS. Therefore a KPAS-capable UE shall support all behaviour that is included in TS 38.331 [9] and TS 38.304 [20] for a CMAS-capable UE.

#### **EU-Alert**

It is optional for UE to support EU-Alert reception as specified in TS 38.331 [9]. EU-Alert uses the same AS mechanisms as defined for CMAS. Therefore a EU-Alert-capable UE shall support all behaviour that is included in TS 38.331 [9] and TS 38.304 [20] for a CMAS-capable UE.

### 5.2 UE receiver features

#### Definitions for feature

SU-MIMO Interference Mitigation advanced receiver

- R-ML (reduced complexity ML) receivers with enhanced inter-stream interference suppression for SU-MIMO transmissions with rank 2 with 2 RX antennas

- R-ML (reduced complexity ML) receivers with enhanced inter-stream interference suppression for SU-MIMO transmissions with rank 2, 3, and 4 with 4 RX antennas

UE supporting the feature is required to meet the Enhanced Receiver Type requirements in TS 38.101-4 [18].

## 5.3 RRC connection

#### **Definitions for feature**

RRC connection release with deprioritisation

It is optional for UE to support *RRCRelease* with *deprioritisationReq* as specified in TS 38.331 [9].

RRC connection establishment failure with temporary offset

It is optional for UE to support RRC connection establishment failure with temporary offset (*Qoffsettemp*) as specified in TS 38.331 [9].

#### 6

# Conditionally mandatory features without UE radio access capability parameters

Features	Condition
Skipping UL configured grant if no data to transmit.	Either configuredUL-GrantType1 or configuredUL-GrantType2 is supported.
Downlink SDAP header	Either NAS reflective QoS or as-ReflectiveQoS is supported.
IMS emergency call	It is mandatory to support IMS emergency call for UEs which are IMS voice capable in NR.

# 7 Void

# 8 UE Capability Constraints

The following table lists constraints indicating the UE capabilities that the UE shall support.

Parameter	Description	Value					
#DRBs	The number of DRBs that a UE shall support.	16 per UE. NOTE1 NOTE3					
#minCellperMeasObj ectNR	The minimum number of neighbour cells (excluding black list cells) that a UE shall be able to store associated with a MeasObjectNR.	32 NOTE 2					
#minBlackCellRange sperMeasObjectNR	The minimum number of blacklist cell PCI ranges that a UE shall be able to store associated with a MeasObjectNR.	8					
#minBlackCellperMe asObjectEUTRA	The minimum number of blacklist cells that a UE shall be able to store associated with a MeasObjectEUTRA.	32					
#minCellperMeasObj ectEUTRA	The minimum number of neighbour cells that a UE shall be able to store associated with a MeasObjectEUTRA.	32 NOTE 2					
#minCellTotal	The minimum number of neighbour cells (excluding black list cells) that UE shall be able to store in total from all measurement objects configured.	256 with counting CSI-RS and SSB as 2.					
#maxDeprioritisation Freq	The UE shall be able to store a depriotisation request for up to 8 frequencies (applicable when receiving another frequency specific deprioritisation request via <i>RRCRelease</i> before T325 expiry).	8					
NOTE 1: For one MAC entity, the maximum number of DRBs configured with PDCP duplication and with							
<ul> <li>RLC entity(ies) associated with this MAC entity is 8.</li> <li>NOTE 2: In case of CGI reporting, the limit regarding the cells configured includes the cell for which the UE is requested to report CGI i.e. the amount of neighbour cells that can be included is at most (# minCellperMeasObjectRAT - 1), where RAT represents NR and EUTRA.</li> <li>NOTE 3: This requirement is applicable in NR SA, NR-DC and NE-DC.</li> </ul>							

# Annex A (normative): Differentiation of capabilities

## Annex A.1: TDD/FDD differentiation of capabilities in TDD-FDD CA

Annex A.1 specifies for which TDD and FDD serving cells a UE supporting TDD/FDD CA shall support a feature/capability for which it indicates support within the capability signalling.

A UE that indicates support for TDD/FDD CA (e.g. MCG or SCG):

- For the fields for which the UE is allowed to indicate different support for FDD and TDD, the UE shall support the feature on the PCell and/or SCell(s), as specified in tables A.1-1 in accordance to the following rules:
  - PCell: the UE shall support the feature for the PCell, if the UE indicates support of the feature for the PCell duplex mode;
  - PSCell: the UE shall support the feature for the PSCell, if the UE indicates support of the feature for the PSCell duplex mode;
  - Per serving cell: the UE shall support the feature for a serving cell if the UE indicates support of the feature for the serving cell's duplex mode;
  - All serving cells: UE shall support the feature for all serving cells in a CG if the UE indicates support of the feature for both TDD and FDD duplex modes;
  - Associated serving cells: UE shall support the feature if the UE indicates support of the feature for all associated serving cells's duplex modes;
- For the fields where the UE is not allowed to indicate different support for FDD and TDD, the UE shall support the feature for PCell and SCell(s) if the UE indicates support of the feature via the common capability bit.

UE-NR-Capability or UE-MRDC-Capability	Classification					
eventA-MeasAndReport	PSCell					
dl-SchedulingOffset-PDSCH-TypeA (Note3)	Associated serving cells					
dl-SchedulingOffset-PDSCH-TypeB (Note3)	Associated serving cells					
dynamicSFI (Note3)	Associated serving cells					
handoverInterF	PCell					
handoverLTE-EPC	PCell					
handoverLTE-5GC	PCell					
intraAndInterF-MeasAndReport	PSCell					
logicalChannelSR-DelayTimer(Note2)	Associated serving cells					
longDRX-Cycle	All serving cells					
multipleConfiguredGrants(Note1)	Associated serving cells					
multipleSR-Configurations	Per serving cell					
sftd-MeasNR-Cell	PCell					
sftd-MeasNR-Neigh	PCell					
sftd-MeasNR-Neigh-DRX	PCell					
sftd-MeasPSCell	PCell					
sftd-MeasPSCell-NEDC	PCell					
shortDRX-Cycle	All serving cells					
skipUplinkTxDynamic	Per serving cell					
twoDifferentTPC-Loop-PUCCH (Note3)	Associated serving cells					
twoDifferentTPC-Loop-PUSCH (Note3)	Associated serving cells					
ul-SchedulingOffset (Note3)	Associated serving cells					
NOTE 1: The associated serving cells including the serving cell(s) configure with configured grant.						
NOTE 2: For a given logical channel, the associated serving cells includin PUCCH cell(s) associated with this logical channel (via						
schedulingRequestID). NOTE 3: The associated serving cells including both the cell sending the command and the cell applying the command.						

Table A.1-1: UE capabilities for which FDD/TDD differentiation is allowed

# Annex A.2: FR1/FR2 differentiation of capabilities in FR1-FR2 CA

Annex A.2 specifies for which FR1 and FR2 serving cells a UE supporting FR1/FR2 CA shall support a feature/capability for which it indicates support within the capability signalling.

A UE that indicates support for FR1/FR2 CA (e.g. MCG or SCG):

- For the fields for which the UE is allowed to indicate different support for FR1 and FR2, the UE shall support the feature on the PCell and/or SCell(s), as specified in tables A.2-1 in accordance to the following rules:
  - PCell: the UE shall support the feature for the PCell, if the UE indicates support of the feature for the PCell FR mode;
  - Associated serving cells: UE shall support the feature if the UE indicates support of the feature for associated serving cells's FR modes;
- For the fields where the UE is not allowed to indicate different support for FR1 and FR2, the UE shall support the feature for PCell and SCell(s) if the UE indicates support of the feature via the common capability bit.

UE-NR-Capability Classification									
absoluteTPC-Command (Note2)	Associated serving cells								
dl-SchedulingOffset-PDSCH-TypeA (Note2)	Associated serving cells								
dl-SchedulingOffset-PDSCH-TypeB (Note2)	Associated serving cells								
dynamicSFI (Note2)	Associated serving cells								
handoverInterF	PCell								
handoverLTE-EPC	PCell								
handoverLTE-5GC	PCell								
tpc-PUCCH-RNTI (Note2)	Associated serving cells								
tpc-PUSCH-RNTI (Note2)	Associated serving cells								
tpc-SRS-RNTI (Note2)	Associated serving cells								
twoDifferentTPC-Loop-PUCCH (Note2)	Associated serving cells								
twoDifferentTPC-Loop-PUSCH (Note2)	Associated serving cells								
ul-SchedulingOffset (Note2)	Associated serving cells								
voiceOverNR (Note1)	Associated serving cells.								
NOTE 1: For a UE that does not support Ich-									
associated serving cells includes all serving cells in the CG; for a UE									
that supports Ich-ToSCellRestriction capability, the associated									
serving cells includes the serving cells indicated by									
allowedServingCells for the LCH.									
NOTE 2: The associated serving cells including both the cell sending the									
command and the cell applying the command.									

Table A.2-1: Rel-15 UE capabilities for which FR1/FR2 differentiation is allowed

## Annex A.3: Void

# Annex A.4: Void

# Annex A.5: General differentiation of capabilities in Cross-Carrier operation

Annex A.5 specifies for which multiple serving cells a UE supporting cross-carrier operation shall support a feature/capability for which it indicates support within the capability signalling.

A UE that indicates support for cross-carrier operation in CA (e.g. MCG or SCG):

- For the fields for which the UE is allowed to indicate different support for different bands, the UE shall support the feature on the PCell and/or SCell(s) in cross-carrier operation, as specified in tables A.5-1 in accordance to the following rules:
  - Triggered serving cell: the UE shall support the feature if the UE indicates support of the feature for the band of the scheduled/triggered/indicated serving cell;
  - Triggering&Triggered serving cells: UE shall support the feature if the UE indicates support of the feature for the band of both the scheduling/triggering/indicating serving cell and the scheduled/triggered/indicated serving cell;

UE-NR-Capability	Classification								
aperiodicTRS	Triggered serving cell								
beamSwitchTiming	Triggered serving cell								
bwp-DiffNumerology (NOTE 1)	Triggering&Triggered serving cells								
bwp-SameNumerology (NOTE 1)	Triggering&Triggered serving cells								
crossCarrierScheduling-SameSCS	Triggering&Triggered serving cells								
pdcch-MonitoringAnyOccasionsWithSpanGap	Triggering&Triggered serving cells								
(NOTE 2)									
ue-SpecificUL-DL-Assignment	Triggering&Triggered serving cells								
NOTE 1: For <i>bwp-DiffNumerology</i> and <i>bwp-Sar</i>									
for each band is still based on the indi	cated number for this band regardless of								
whether it is a scheduling cell or sched									
NOTE 2: Applicable for cross carrier scheduling with the same SCS in the scheduling cell and									
the scheduled cell. If the reported value is different between the band of the									
	scheduled/triggered/indicated cell and the band of the scheduling/triggering/indicating								
cell, the value reported for the schedu	ing/triggering/indicating cell is applied.								

 Table A.5-1: General UE capabilities for which differentiation is allowed

## Annex B (informative): UE capability indication for UE capabilities with both FDD/TDD and FR1/FR2 differentiations

Annex B clarifies the UE capability indication for the case where the UE is allowed to support different functionality between FDD and TDD, and between FR1 and FR2. Table B-1 clarifies the setting of UE capability fields for cases where the UE supports the corresponding feature in different combinations of duplex mode and frequency range. There are two possible ways of UE capability indication in Case 3 and Case 8.

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Table B-1: UE capability indication for UE capabilities with both FDD/TDD and FR1/FR2 differentiations

Sup	port for the feature	Setting of UE capability fields									
		Common UE capability (with suffix '-XDD-Diff')	Common UE capability (with suffix '-FRX-diff')	fdd-Add-UE- NR/MRDC- Capabilities	tdd-Add- UE- NR/MRDC- Capabilities	fr1-Add-UE- NR/MRDC- Capabilities	fr2-Add-UE- NR/MRDC- Capabilities				
Case 1	FR1 FDD: 'supported' FR1 TDD: 'supported' FR2 TDD: 'supported'	Included	Included	Not included	Not included	Not included	Not included				
Case 2	FR1 FDD: 'not supported' FR1 TDD: 'not supported' FR2 TDD: 'not supported'	Not included	Not included	Not included	Not included	Not included	Not included				
Case 3	FR1 FDD: 'not supported'	Not included	Included	Not included	Included	Not included	Not included				
	FR1 TDD: 'supported' FR2 TDD: 'supported'	Not included	Not included	Not included	Included	Not included	Not included				
Case 4	FR1 FDD: 'not supported' FR1 TDD: 'not supported' FR2 TDD: 'supported'	Not included	Not included	Not included	Included	Not included	Included				
Case 5	FR1 FDD: 'not supported' FR1 TDD: 'supported' FR2 TDD: 'not supported'	Not included	Not included	Not included	Included	Included	Not included				
Case 6	FR1 FDD: 'supported' FR1 TDD: 'not supported' FR2 TDD: 'supported'	The current UI case.	E capability sigr	alling does not s	support the UE c	apability indicati	on for this				
Case 7	FR1 FDD: 'supported' FR1 TDD: 'not supported' FR2 TDD: 'not supported'	Not included	Not included	Included	Not included	Included	Not included				
Case 8	FR1 FDD: 'supported'	Included	Not included	Not included	Not included	Included	Not included				
	FR1 TDD: 'supported' FR2 TDD: 'not supported'	Not included	Not included	Not included	Not included	Included	Not included				

Annex C (informative): Change history

g         k			70				Change history	
062017         RAN2#         R2-1704910         Pirst version         0.0           062017         RAN2#         R2-1707386         Image: Comparison of the comparison of	Date		TDoc	CR	Rev	Cat	Subject/Comment	New version
08/2017         RAN2#         R2/107366         0.0           08/2017         RAN2#         R2/107366         0.0           09         RAN2#         R2/1073670         0.0           12/2017         RAN2#         R2/1174267         0.0           12/2017         RAN2#         R2/1174141         0.0           12/2017         RAN2#         R2/114271         0.0           10/0         R2/2017         RAP.78         R2/114271         0.0           12/2017         RAP.78         RP-112210         0.00         3.5         F           12/2017         RAP.78         RP-11216         0.003         3.5         F         Updates on U capabilities         15.           08/2018         RP-80         RP-11216         0.003         3.5         F         Introduce ANR In NR         15.           RP-818         RP-11216         0.013         -         B         Delay budget report and MAC CE adaptation for NR for T3 38.306         16.           RP-82         RP-182261         0.033         1         F         Introduce and Rap-Based SFID measurement 15.           RP-82         RP-182861         0.034         F         Clainfication to Interruption-based and gap-based SFID measurement 15.	06/2017	RAN2#	R2-1704810				First version	0.0.1
08/2017         RAN2#         R2-1708750         0         0           12/2017         RAX2#         R2-1712867         0         0           1000         1000         0         0         0         0           12/2017         RAX2#         R2-1714411         1         0         0         0           12/2017         RAX2#         R2-1714271         1         1         0 </td <td>06/2017</td> <td>RAN2#</td> <td>R2-1707386</td> <td></td> <td></td> <td></td> <td></td> <td>0.0.2</td>	06/2017	RAN2#	R2-1707386					0.0.2
122017         RAN2#         R2-1712567         0.0           122017         RAN2#         R2-1714441         0.0           120017         RAN2#         R2-1714421         0.1           100         1122017         RAN2#         R2-1714421         0.1           100         1122017         RR-78         RP-1712521         Submitted to RAN#78 for approval         0.1           122017         RR-78         RP-181216         0009         2         B         Upgraded to ReI-15         15.           022016         RR-80         RP-181216         0013         -         B delay budget report and MAC CE adaptation for NR for TS 38.306         15.           022018         RR-81         RP-181216         0013         -         F         2080 corrections on total layer2 buffer size         15.           022018         RR-84         RP-181216         0013         -         F         2080 corrections and clearnup         16.           122018         RR-84         RP-162825         0033         1         F         Timeroduction on total layer budget and daga-based SPTD measurement is           122018         RR-82         RP-162825         0033         1         F         Timeroduction of Icarapubility on indegenedenteso UE capability ontadis and	08/2017	RAN2#	R2-1708750					0.0.3
12/2017         RAN2#         R2-1714141         0         0           12/2017         RAN2#         R2-1714271         0         0           12/2017         RP-78         RP-172521         0         0         0           12/2017         RP-78         RP-178261         0         0         0           12/2017         RP-78         RP-160240         0009         2         1         F         Macellaneous corrections         15.           02/2018         RP-60         RP-161216         0012         1         F         Macellaneous corrections         15.           RP-60         RP-161216         0013         -         B         Delety budget report and MAC CE adaptation for NR for TS 38.306         15.           RP-81         RP-161340         00064         4         F         Correction on total layer2 buffer size         15.           RP-81         RP-161340         00034         4         F         Cardification to UE capability constraints         15.           RP-82         RP-162650         0033         1         F         Time for thermytoin-seade and gap-based SPTD messurement 5.           RP-82         RP-162661         0035         2         F         Udditot La capability or independento	12/2017	RAN2#	R2-1712587					0.0.4
12/2017         R/N2/#         R2-714271         0.1           12/2017         RP-78         RP-172521         Submitted to RAN#78 for approval         1.0           12/2017         RP-78         RP-180440         0003         3         F         Upgraded to ReI-15         15.           03/2018         RP-79         RP-181246         0009         2         Introduce ANR in NR         15.           RP-80         RP-181246         0003         1         F         Indecellayer report and MAC CE adaptation for NR for TS 38.306         15.           RP-81         RP-181940         0004         4         F         Correction on total layer2 buffer size         15.           RP-81         RP-181942         0024         1         F         Introduce for NR standatone         15.           RP-82         RP-182665         0033         1         F         Timer based BWP switching         15.           RP-82         RP-182666         0050         2         F         Additional UC capability of independenGapConfig for inter-RAT         15.           RP-82         RP-182666         0050         3         F         Introduce RC buffer size in NR         16.           RP-82         RP-182666         0051         2	12/2017	RAN2#	R2-1714141					0.0.5
12/2017         RP-78         Image: Constraint of the constr	12/2017	RAN2#	R2-1714271					0.1.0
12/2017         RP-78	12/2017		RP-172521				Submitted to RAN#78 for approval	1.0.0
08/2016         PF-800         RP-181216         0002         2         B         Infroduce ANR In NR         15.           RP-80         RP-181216         0013         -         B         Delay budget report and MAC CE adaptation for NR for TS 38.306         15.           09/2018         PF-818         RP-181942         0024         1         F         Introduction on total layer2 buffer size         15.           RP-81         RP-181942         0024         1         F         Introduction on UE capability constraints         15.           RP-82         RP-181942         0024         1         F         Introduction on UE capability constraints         15.           RP-82         RP-182650         0033         1         F         Introduction on UE capability ontromates         15.           RP-82         RP-182660         0037         1         F         Clarification to UE capability parameters         15.           RP-82         RP-182660         0047         2         F         Clarification on physical layer parameters of UE capability and the N-DC         15.           RP-82         RP-182660         0053         1         F         Clarification on physical layer parameters of UE capability and the N-DC         15.           RP-82         RP-18266	12/2017	RP-78						15.0.0
RP-80         RP-181216         0012         1         F         Biolegia budget report and MAC CE adaptation for NR for TS 38:306         15.           09/2018         RP-481         RP-181940         0008         4         F         Correction on total layer2 buffer size         15.           09/2018         RP-481         RP-181942         0020         -         F         38.306 corrections and cleanup         15.           12/2018         RP-482         RP-182651         0031         1         F         Timer based SWP switching         15.           RP-42         RP-182650         0033         1         F         Clarification to UE capability of independentGapConfig for inter-RAT         15.           RP-42         RP-182661         0032         2         F         Lipdate CI L2 capability parameters         15.           RP-42         RP-182661         0033         2         F         Lipdate CI L2 capability parameters         15.           RP-42         RP-182660         0053         2         F         Clarification on physical layer parameters of UE capability         15.           RP-42         RP-182664         0052         2         C C Rot nagability of noperdec UUD aduet on for SR B         15.           RP-42         RP-182664								15.1.0
RP-80         RP-181216         O013          B         Delay budget report and MAC CE adaptation for NR for TS 38.306         15.           09/2018         RP-81         RP-181942         0024         1         F         Introduction on total layer2 buffer size         15.           RP-81         RP-181942         0030         -         F         38.306 corrections and cleanup         15.           12/2018         RP-82         RP-182650         0033         1         F         Clarification for Interruption-based and agp-based SFTD measurement 15.           RP-82         RP-182660         0033         1         F         Additional EVP switching         15.           RP-82         RP-182661         0033         2         F         Additional Evp switching         15.           RP-82         RP-182660         0057         1         F         Clarification to UE capability parameters         UE capability and the N-DC         15.           RP-82         RP-182664         0054         2         F         Clarification on physical layer parameters of UE capability and the N-DC         15.           RP-82         RP-182664         0054         1         F         Clarification on the Iapy configured with the N-DC         15.           RP-82	06/2018	RP-80	RP-181216					15.2.0
08/2018         RP-81         RP-181940         0008         4         F         Correction on total layer2 buffer size         15.           RP-81         RP-181942         0030         -         F         B3.306 corrections and cleanup         15.           12/2018         RP-82         RP-182651         0016         4         F         Clarification of UE capability of IndependentGapConfig for inter-RAT           15.         RP-82         RP-182652         0033         1         F         Timer based BWP switching         15.           RP-82         RP-182661         0033         2         F         Additional UE capability of independentGapConfig for inter-RAT         15.           RP-82         RP-182660         0037         2         F         Update OI L2 capability parameters         15.           RP-82         RP-182660         0053         2         F         Clarification on multipleConfiguredGrants         15.           RP-82         RP-182664         0054         1         F         Clarification on multipleConfiguredGrants         15.           RP-82         RP-182664         0052         1         F         Clarification on Physical layer parameters of UE capability         15.           RP-42         RP-182664         0052					-			15.2.0
RP-81         RP-181942         0024         1         F         Introduction of UE capability constraints         15.           RP-81         RP-182651         0016         4         F         Clarification for interruption-based and gap-based SFTD measurement         15.           RP-82         RP-182652         0033         1         F         Clarification for interruption-based and gap-based SFTD measurement not vet configured with EN-DC         15.           RP-82         RP-182651         0033         2         F         Additional UE capability of independentGapConfig for inter-RAT         15.           RP-82         RP-182661         0033         2         F         Clarification on typical vet and vet configured with EN-DC         NR measurement not vet configured with EN-DC         15.           RP-82         RP-182660         0060         3         F         Introduce RRC buffer size in NR         15.           RP-82         RP-182664         0052         2         F         C Rinification on multipleConfiguredGrants         15.           RP-82         RP-182661         0052         1         F         Clarify for per CC UL/DL modulation order capabilities         16.           RP-82         RP-182661         0052         1         F         Clarinfy for per CG UL/DL modulation order capabilities								15.2.0
RP-81         RP-181942         0030         ·         F         38.306 corrections and cleanup         15.           12/2018         RP-82         RP-182653         0003         1         F         Timer based BWP switching         15.           RP-82         RP-182651         0003         1         F         Timer based BWP switching         15.           RP-82         RP-182651         0037         1         F         Clarification to UE capability of independentGapConfig for inter-RAT         15.           RP-82         RP-182661         0038         2         F         Update of L2 capability parameters         15.           RP-82         RP-182660         0050         3         F         Introduce RRC buffer size in NR         15.           RP-82         RP-182664         0051         2         F         CR to 33.06 for PDC PC A duplication for SBB         15.           RP-82         RP-182664         0055         1         F         Clarify for per CC UL/DL modulation order capability         15.           RP-82         RP-182661         0054         1         F         L6 capability on PA architecture         15.           RP-82         RP-182661         0056         1         F         Ite capability on PA architecture </td <td>09/2018</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>15.3.0</td>	09/2018							15.3.0
12/2018         RP-82         RP-182651         0016         4         F         Clarification for Interruption-based and gap-based SFTD measurement 15.           RP-82         RP-182652         0033         1         F         Time based BWP sewitching         15.           RP-82         RP-182651         0037         1         F         Clarification to UE capability of independent@Cnfig for inter-RAT         15.           RP-82         RP-182661         0038         2         F         Update of L2 capability of independent@Cnfig for inter-RAT         15.           RP-82         RP-182660         0047         2         F         Clarification on multipleConfiguredGrants         15.           RP-82         RP-182660         0051         2         F         Clarification of multipleConfiguredGrants         15.           RP-82         RP-182664         0052         2         F         Clarification of multipleConfiguredGrants         15.           RP-82         RP-182664         0056         1         F         Clarification of multipleConfiguredGrants         15.           RP-82         RP-182665         0060         3         F         Uc capability not participleConfiguredGrants         15.           RP-82         RP-182665         0066         1								15.3.0
IP-82         RP-182653         0033         1         F         Timer based BWP switching         15.           RP-82         RP-182651         0035         2         F         Additional UE capabilities for NR standalone         15.           RP-82         RP-182661         0037         1         F         Clarification to UE capability parameters         15.           RP-82         RP-182661         0038         2         F         Update of L2 capability parameters         15.           RP-82         RP-182660         0050         1         F         Introduce RRC buffer size in NR         15.           RP-82         RP-182664         0051         2         F         CR to 39.306 for PDCP CA duplication for SRB         15.           RP-82         RP-182664         0052         1         F         ICarify for per CC UL/DL modulation order capabilities         15.           RP-82         RP-182664         0056         1         F         Interfrequency handware capability         15.           RP-82         RP-182661         0062         1         F         Interduction of SR Switching capability         15.           RP-82         RP-182661         0063         1         F         Intequicution of SR Switching capability         <	12/2010							15.3.0 15.4.0
RP-82         RP-182652         0035         2         F         Additional UE capability of independentGapConfig for inter-RAT         15.           RP-82         RP-182661         0038         2         F         Linfraction to UE capability of independentGapConfig for inter-RAT         15.           RP-82         RP-182660         0047         2         F         Clarification on physical layer parameters of UE capability of the parameters of UE capability and independent with EN-DC         15.           RP-82         RP-182660         0050         3         F         Introduce RRC buffer size in NR         15.           RP-82         RP-182664         0051         2         F         Clarification of multipleConfiguredGrants         15.           RP-82         RP-182664         0057         1         F         Clarify for per CC U/DL modulation order capability         15.           RP-82         RP-182664         0057         1         F         Clarify for per CC U/DL modulation order capability         15.           RP-82         RP-182664         0057         1         F         Clarify for per CC U/DL modulation order capability         15.           RP-82         RP-182665         0060         3         F         Update ol UE capability on PA architecture         15.	12/2018							15.4.0
RP-82         RP-182651         0037         1         F         Clarification to UE capability of independent@acConfig for inter-RAT         15.           RP-82         RP-182661         0038         2         F         Update of L2 capability parameters         15.           RP-82         RP-182660         00047         2         F         Clarification on physical layer parameters of UE capability         15.           RP-82         RP-182666         0050         3         F         Introduce RRC buffer size in NR         15.           RP-82         RP-182664         0051         2         F         CR to 33.06 for DPOC CA duplication for SRB         15.           RP-82         RP-182664         0054         1         F         Lit capability on POC CA duplication for CRB         15.           RP-82         RP-182664         0053         1         F         Clarification of PDC/CA duplication for capabilities         15.           RP-82         RP-182664         0063         1         F         Clarification of PDC/CA duplication for capabilities         15.           RP-82         RP-182666         00603         4         F         UC arabability on PA architecture         15.           RP-82         RP-182666         0066         2         F<								15.4.0
RP-82         RP-162661         0038         2         F         Update of L2 capability parameters         15.           RP-82         RP-162660         0047         2         F         Clarification on physical layer parameters of UE capability         15.           RP-82         RP-182664         0050         3         F         Introduce RRC buffer size in NR         15.           RP-82         RP-182664         0052         2         F         CR to 33.306 for PDCP CA duplication for SRB         15.           RP-82         RP-182664         0053         1         F         Clarify for per CC UL/DL modulation order capabilities         15.           RP-82         RP-182665         0067         1         F         Clarify for per CC UL/DL modulation order capabilities         15.           RP-82         RP-182665         0066         1         F         Clarify for per CC UL/DL modulation order capability         15.           RP-82         RP-182661         0063         1         F         Clarify for per CC UL/DL modulation order capability         15.           RP-82         RP-182661         0066         2         F         Introduction of SRS witching capability         15.           RP-82         RP-182662         0066         2         F		-					Clarification to UE capability of independentGapConfig for inter-RAT	15.4.0
RP-82         RP-182660         0047         2         F         Clarification on physical layer parameters of UE capability         15.           RP-82         RP-182664         0051         2         F         Clarification of multiple/ConfiguredGrants         15.           RP-82         RP-182664         0051         2         F         CR to 33.06 for PDCP CA duplication for SRB         15.           RP-82         RP-182664         0053         1         F         Clarify for per CC U/DL modulation order capability         15.           RP-82         RP-182665         0060         3         F         Ite capability on PA architecture         15.           RP-82         RP-182665         0060         3         F         Ite capability on PA architecture         15.           RP-82         RP-182661         0062         1         F         CR on signaling contiguous and non-contiguous EN-DC capability         15.           RP-82         RP-182667         0065         2         F         Introduction of SRS switching capability         15.           RP-82         RP-182666         0067         1         F         Layer 1 capability ing capability         15.           RP-82         RP-182664         0073         1         F         Capab		RP-82	RP-182661	0038	2	F		15.4.0
RP-82         RP-182666         0050         3         F         Introduce RRC buffer size in NR         15.           RP-82         RP-182664         0051         2         F         Clarification of multipleConfiguredGrants         15.           RP-82         RP-182664         0052         2         F         CR to 38.306 for PDCP CA duplication for SRB         15.           RP-82         RP-182664         0053         1         F         Clarify for per CC UJ/DL modulation order capability         15.           RP-82         RP-182664         0056         1         F         Inter-frequency handover capability         15.           RP-82         RP-182666         0060         3         F         UE capability on PA architecture         15.           RP-82         RP-182666         0060         3         F         Update of UE capability         15.           RP-82         RP-182667         0068         2         F         Introduction of SRS switching capability         15.           RP-82         RP-182667         0068         2         F         Introduction of SRS switching capability         15.           RP-82         RP-182667         0068         2         F         Capability for aperiodic CSI-RS triggenring with different nume								15.4.0
RP-82         RP-182664         0051         2         F         Clarification of multipleConfiguredGrants         15.           RP-82         RP-182664         0054         1         F         CR to 38.306 for PDCP CA duplication for SRB         15.           RP-82         RP-182664         0054         1         F         UE capability for per CC UL/DL modulation order capabilities         15.           RP-82         RP-182664         0058         1         F         Inter/requency handover capability         15.           RP-82         RP-182664         0060         3         F         UE capability capability         15.           RP-82         RP-182661         0062         1         F         CR on signaling contiguous and non-contiguous EN-DC capability         15.           RP-82         RP-182667         0068         2         B         CR on introduction of SRS switching capability         15.           RP-82         RP-182667         0068         2         B         CR on introduction of SRS switching capability         15.           RP-82         RP-182667         0068         2         F         Introduction of SRS switching capability         15.           RP-82         RP-182667         0068         2         F         Capa								15.4.0
RP-82         RP-182661         0052         2         F         CR to 38.306 for PDCP CA duplication for SRB         15.           RP-82         RP-182661         0054         1         F         UE capability handling for FDD/TDD and FR1/FR2         15.           RP-82         RP-182664         0057         1         F         Clarify for per CC UL/DL modulation order capabilities         15.           RP-82         RP-182664         0062         1         F         Inter-frequency handover capability         15.           RP-82         RP-182661         0062         1         F         CR on signaling contiguous and non-contiguous EN-DC capability         15.           RP-82         RP-182662         0065         2         F         Introduction of SRS switching capability         15.           RP-82         RP-182664         0067         -         F         Introduction of SRS switching capability         15.           RP-82         RP-182664         0073         1         F         Capability for aperiodic CSI-RS triggering with different numerology         15.           03/2019         RP-83         RP-190542         0074         1         F         Layer-1 capability for aperiodic CSI-RS triggering with different numerology         15.           RP-83 <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>15.4.0</td></t<>								15.4.0
RP-82         RP-182661         0054         I         F         UE capability handling for FDD/TDD and FR1/FR2         15.           RP-82         RP-182663         0057         1         F         Clarify for per CC UL/DL modulation order capabilities         15.           RP-82         RP-182664         0058         1         F         Inter-frequency handover capability         15.           RP-82         RP-182661         0062         1         F         CR on signaling contiguous and non-contiguous EN-DC capability         15.           RP-82         RP-182662         0068         2         F         Introduction of SRS switching capability         15.           RP-82         RP-182662         00663         2         B         CR on introduction of SRS switching capability         15.           RP-82         RP-182664         0071         -         F         Introduction of SRS switching capability         15.           RP-83         RP-190543         0071         1         F         Lager-1 capability intra-NR handover capability         15.           RP-83         RP-190544         0071         2         F         CR to clarify intra-NR handover capability         15.           RP-83         RP-190545         0086         2         F						F		15.4.0
RP-82         RP-182663         0057         1         F         Clarify for per CC UU/DL modulation order capabilities         15.           RP-82         RP-182665         0060         3         F         Inter-frequency handover capability         15.           RP-82         RP-182665         0060         3         F         UE capability on PA architecture         15.           RP-82         RP-182661         0062         1         F         CR on signaling contiguous and non-contiguous EN-DC capability         15.           RP-82         RP-182667         0068         2         B         CR on introduction of SRS switching capability         15.           RP-82         RP-182664         0071         -         F         Introduction of SRS switching capability         15.           03/2019         RP-83         RP-190542         0073         1         F         Capability update         15.           RP-83         RP-190542         0074         1         F         Capability update         15.           RP-83         RP-190542         0075         2         F         CR to Carrify intra-NR handover capability         15.           RP-83         RP-190542         0086         2         F         Carrection on madatory suported		RP-82		0054		F		15.4.0
RP-82         RP-182665         0060         3         F         UE capability on PA architecture         15.           RP-82         RP-182661         0062         1         F         CR on signaling contiguous and non-contiguous EN-DC capability         15.           RP-82         RP-182662         0065         2         F         Introduction of SRS switching capability         15.           RP-82         RP-182664         0068         2         B         CR on introduction of SRS switching capability         15.           03/2019         RP-83         RP-190634         0073         1         F         Capability for aperiodic CSI-RS triggering with different numerology between PDCCH and CSI-RS           03/2019         RP-83         RP-190542         0074         1         F         Layer1 capability update         15.           RP-83         RP-190545         0075         2         F         CR to clarify intra-NR handover capability endite         15.           RP-83         RP-190545         0076         2         F         Carretion to mandatory supported capability signaling         15.           RP-83         RP-190542         0092         2         F         Correction to mandatory supported capability signaling         15.           RP-83         RP-190		RP-82	RP-182663	0057	1	F		15.4.0
RP-82         RP-182661         0062         1         F         CR on signaling contiguous and non-contiguous EN-DC capability         15.           RP-82         RP-182662         0068         2         F         Update of UE capability         15.           RP-82         RP-182662         0068         2         B         Introduction of SRS switching capability         15.           RP-82         RP-182667         0068         2         B         CR on introduction of SRS switching capability         15.           03/2019         RP-83         RP-190634         0073         1         F         Capability for a periodic CSI-RS triggering with different numerology between PDCCH and CSI-RS         15.           RP-83         RP-190545         0075         2         F         CR to clarify intra-NR handower capabilities         15.           RP-83         RP-190545         0086         2         F         CR to clarify intra-NR handower capabilities         15.           RP-83         RP-190545         0086         2         F         Crerction to mandatory supported capability signaling         15.           RP-83         RP-190542         0092         2         F         Correction to supported Gapability 1         15.           RP-83         RP-190542		RP-82	RP-182664	0058	1	F	Inter-frequency handover capability	15.4.0
RP-82         RP-18213         0063         6         F         Update of UE capabilities         15.           RP-82         RP-182662         0066         2         F         Introduction of SRS switching capability         15.           RP-82         RP-182667         0068         2         B         CR on introduction of UE overheating support in NR SA scenario         15.           03/2019         RP-83         RP-190644         0071         -         F         Introduction of SRS switching capability         15.           03/2019         RP-83         RP-190542         0074         1         F         Capability for aperiodic CS1-RS triggering with different numerology between PDCCH and CS1-RS         15.           RP-83         RP-190545         0075         2         F         CR to 38.306 on introducing nr-CG1-Reporting-ENDC         15.           RP-83         RP-190545         0086         2         F         CR to 10.         Carification for PDSCHs and PUSCHs per slot for different TBs for UE         15.           RP-83         RP-190544         0098         2         F         Correction on madatory supported capability signaling         15.           RP-83         RP-190545         0098         2         F         Correction on supaling the bandwidth Class         15.		RP-82	RP-182665	0060	3	F		15.4.0
RP-82         RP-182662         0065         2         F         Introduction of SRS switching capability         15.           RP-82         RP-182664         0071         -         F         Introduction of UE overheating support in NR SA scenario         15.           03/2019         RP-83         RP-190634         0071         1         F         Capability for aperiodic CSI-RS triggering with different numerology between PDCCH and CSI-RS         15.           03/2019         RP-83         RP-190545         0075         2         F         CR to 38.306 on introducing nr-CGI-Reporting-ENDC         15.           RP-83         RP-190545         0086         2         F         CR to clarify intra-NR handover capabilities         15.           RP-83         RP-190545         0086         2         F         CR to clarify intra-NR handover capabilities         15.           RP-83         RP-190545         0088         3         F         Clarification for PDSCHs and PUSCHs per slot for different TBs for UE         15.           RP-83         RP-190542         0097         2         F         Correction to mandatory supported capability 1         15.           RP-83         RP-190545         0098         2         F         Correction on supportedBandwidthCombinationSetEUTRA-v1530         15.								15.4.0
RP-82         RP-182667         0068         2         B         CR on introduction of UE overheating support in NR SA scenario         15.           RP-82         RP-182664         0071         -         F         Introduction of SRS witching capability         15.           03/2019         RP-83         RP-190634         0073         1         F         Capability for aperiodic CSI-RS triggering with different numerology between PDCCH and CSI-RS         15.           RP-83         RP-190545         0075         2         F         CR to 38.306 on introducing n-CGI-Reporting-ENDC         15.           RP-83         RP-190545         0076         2         F         CR to clarify intra-NR handover capabilities         15.           RP-83         RP-190545         0088         3         F         Clarification for PDSCHs and PUSCHs per slot for different TBs for UE capable of processing time capability 1         15.           RP-83         RP-190542         0092         2         F         Correction on supported capability signaling         15.           RP-83         RP-190542         0092         2         F         Correction on supported capability indictomsetEUTRA-v1530         15.           RP-83         RP-190543         0099         -         F         Clarification on Frequency Separation Class								15.4.0
RP-82         RP-182664         0071         -         F         Introduction of SRS switching capability         15.           03/2019         RP-83         RP-190634         0073         1         F         Capability for aperiodic CSI-RS triggering with different numerology between PDCCH and CSI-RS         15.           RP-83         RP-190542         0074         1         F         Layer-1 capability update         15.           RP-83         RP-190545         0075         2         F         CR to 38.306 on introducing n-CGI-Reporting-ENDC         15.           RP-83         RP-190545         0086         2         F         CR to clarify intra-NR handover capabilities         15.           RP-83         RP-190542         0092         2         F         Correction to mandatory supported capability signaling         15.           RP-83         RP-190542         0097         2         F         Correction on supported Capability signaling         15.           RP-83         RP-190545         0089         2         F         Correction on supported Bandwidth CombinationSetEUTRA-v1530         15.           RP-83         RP-190543         0099         -         F         Clarification on Frequency Separation Class         15.           RP-83         RP-190543 <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>15.4.0</td>								15.4.0
03/2019         RP-83         RP-190634         0073         1         F         Capability for aperiodic CSI-RS triggering with different numerology between PDCCH and CSI-RS         15.           RP-83         RP-190545         0075         2         F         CR to 38.306 on introducing nr-CGI-Reporting-ENDC         15.           RP-83         RP-190545         0076         2         F         CR to 38.306 on introducing nr-CGI-Reporting-ENDC         15.           RP-83         RP-190546         0086         2         F         CR to clarify intra-NR handover capabilities         15.           RP-83         RP-190542         0092         2         F         Correction to mandatory supported capability signaling         15.           RP-83         RP-190542         0092         2         F         Correction on supportedBandwidthCombinationSetEUTRA-v1530         15.           RP-83         RP-190543         0099         -         F         Clarification on Frequency Separation Class         15.           RP-83         RP-190544         0101         -         F         Clarification on requency Separation Class         15.           RP-83         RP-191375         0094         1         F         Carification on UE capability of the-ToSCellRestriction         15.								15.4.0
RP-83         RP-190542         0074         1         F         Layer-1 capability update         15.           RP-83         RP-190545         0075         2         F         CR to 38.306 on introducing nr-CGI-Reporting-ENDC         15.           RP-83         RP-190545         0086         2         F         CR to clarify intra-NR handover capabilities         15.           RP-83         RP-190546         0088         3         F         Clarification for PDSCHs and PUSCHs per slot for different TBs for UE         15.           RP-83         RP-190542         0092         2         F         Correction to mandatory supported capability signaling         15.           RP-83         RP-190542         0097         2         F         Correction on supportedBandwidthCombinationSetEUTRA-v1530         15.           RP-83         RP-190543         0098         2         F         Clarification on signaling the bandwidth class         15.           RP-83         RP-190545         0098         2         F         Clarification on Frequency Separation Class         15.           RP-83         RP-190543         0099         -         F         Clarification on Irequency Separation Class         15.           RP-83         RP-190544         0101         -	03/2019						Capability for aperiodic CSI-RS triggering with different numerology	15.4.0 15.5.0
RP-83         RP-190545         0075         2         F         CR to 38.306 on introducing nr-CGI-Reporting-ENDC         15.           RP-83         RP-190545         0086         2         F         CR to clarify intra-NR handover capabilities         15.           RP-83         RP-190546         0088         3         F         Clarification for PDSCHs and PUSCHs per slot for different TBs for UE         15.           RP-83         RP-190542         0092         2         F         Correction to mandatory supported capability signaling         15.           RP-83         RP-190542         0097         2         F         Miscellaneous corrections         15.           RP-83         RP-190545         0098         2         F         Correction on supportedBandwidthCombinationSetEUTRA-v1530         15.           RP-83         RP-190545         0099         -         F         Clarification on signaling the bandwidth class         15.           RP-83         RP-190545         0100         1         F         Clarification on requency Separation Class         15.           RP-83         RP-190544         0101         -         F         Clarification on UE capability updates         15.           RP-84         RP-191373         0108         -		DD 02	BD 100542	0074	1	E	between PDCCH and CSI-RS	15.5.0
RP-83         RP-190545         0086         2         F         CR to clarify intra-NR handover capabilities         15.           RP-83         RP-190546         0088         3         F         Clarification for PDSCHs and PUSCHs per slot for different TBs for UE for capability 1         15.           RP-83         RP-190542         0092         2         F         Correction to mandatory supported capability signaling         15.           RP-83         RP-190542         0097         2         F         Miscellaneous corrections         15.           RP-83         RP-190545         0098         2         F         Correction on supportedBandwidthCombinationSetEUTRA-v1530         15.           RP-83         RP-190545         0100         1         F         Clarification on frequency Separation Class         15.           RP-83         RP-190545         0100         1         F         CR on Processing delay requirements for RRC Resume procedures in TS 3.         15.           RP-84         RP-191373         0109         -         F         Clarification on UE capability updates         15.           RP-84         RP-191373         0109         -         F         Clarification on UE capability of Ich-ToSCellRestriction         15.           RP-84         RP-191379								15.5.0
RP-83         RP-190546         0088         3         F         Clarification for PDSCHs and PUSCHs per slot for different TBs for UE capable of processing time capability 1         15.           RP-83         RP-190542         0092         2         F         Correction to mandatory supported capability signaling         15.           RP-83         RP-190542         0097         2         F         Miscellaneous corrections         15.           RP-83         RP-190545         0098         2         F         Correction on supported BandwidthCombinationSetEUTRA-v1530         15.           RP-83         RP-190545         0100         1         F         Clarification on signaling the bandwidth class         15.           RP-83         RP-190545         0100         1         F         Clarification on Frequency Separation Class         15.           RP-83         RP-190544         0101         -         F         CR on Processing delay requirements for RRC Resume procedures in 15.         15.           RP-84         RP-191373         0108         -         F         Layer-1, RF and RRM capability updates         15.           RP-84         RP-191373         0109         -         F         Clarification on description of additionalActiveSpatiaRelationPUCCH         15.           RP-					2			15.5.0
RP-83         RP-190542         0092         2         F         Correction to mandatory supported capability signaling         15.           RP-83         RP-190542         0097         2         F         Miscellaneous corrections         15.           RP-83         RP-190545         0098         2         F         Correction on supportedBandwidthCombinationSetEUTRA-v1530         15.           RP-83         RP-190545         0100         1         F         Clarification on signaling the bandwidth class         15.           RP-83         RP-190545         0100         1         F         Clarification on requency Separation Class         15.           RP-83         RP-190544         0101         -         F         CR on Processing delay requirements for RRC Resume procedures in TS 38.306         15.           06/2019         RP-84         RP-191373         0108         -         F         Layer-1, RF and RRM capability updates         15.           RP-84         RP-191373         0109         -         F         Clarification on clares/Creation of additionalActiveSpatialRelationPUCCH         15.           RP-84         RP-191378         0111         1         F         Clarification on clares/Creation of additionalActiveSpatialRelationPUCCH         15.           RP-84<							Clarification for PDSCHs and PUSCHs per slot for different TBs for UE	15.5.0
RP-83RP-19054200972FMiscellaneous corrections15.RP-83RP-19054500982FCorrection on supportedBandwidthCombinationSetEUTRA-v153015.RP-83RP-1905430099-FClarification on signaling the bandwidth class15.RP-83RP-19054501001FClarification on Frequency Separation Class15.RP-83RP-1905440101-FClarification on Frequency Separation Class15.06/2019RP-84RP-19137500941FCR to clarify ul-TimingAlignmentEUTRA-NR15.RP-84RP-1913730108-FLayer-1, RF and RRM capability updates15.RP-84RP-1913730109-FClarification on UE capability of Ich-ToSCellRestriction15.RP-84RP-19137801111FClarification on csi-RS-CFRA-ForHO15.RP-84RP-19137801111FClarification on supported modulationalActiveSpatialRelationPUCCH15.RP-84RP-19137801111FClarification on csi-RS-CFRA-ForHO15.RP-84RP-19137801142FCR on capability of maxUplinkDutyCycle for FR215.RP-84RP-19137801161B38.306 CR for late drop15.RP-84RP-19137801161B38.306 CR for late drop15.RP-84RP-19137801123FCorrection to PDCP parameters15.			DD 400540	0000	_	_		4550
RP-83         RP-190545         0098         2         F         Correction on supportedBandwidthCombinationSetEUTRA-v1530 usage         15.           RP-83         RP-190543         0099         -         F         Clarification on signaling the bandwidth class         15.           RP-83         RP-190545         0100         1         F         Clarification on Frequency Separation Class         15.           RP-83         RP-190544         0101         -         F         Clarification on Frequency Separation Class         15.           06/2019         RP-84         RP-191375         0094         1         F         CR to clarify ul-TimingAlignmentEUTRA-NR         15.           06/2019         RP-84         RP-191373         0108         -         F         Layer-1, RF and RRM capability updates         15.           RP-84         RP-191373         0109         -         F         Clarification on ubcscription of additionalActiveSpatialRelationPUCCH         15.           RP-84         RP-191379         0110         2         F         Correction on description of additionalActiveSpatialRelationPUCCH         15.           RP-84         RP-191378         0111         1         F         Clarification on supported modulation order capability Clastor FR2         15.								15.5.0 15.5.0
RP-83         RP-190543         0099         -         F         Clarification on signaling the bandwidth class         15.           RP-83         RP-190545         0100         1         F         Clarification on Frequency Separation Class         15.           RP-83         RP-190544         0101         -         F         Clarification on Frequency Separation Class         15.           06/2019         RP-84         RP-191375         0094         1         F         CR on Processing delay requirements for RRC Resume procedures in TS 38.306           06/2019         RP-84         RP-191373         0108         -         F         Layer-1, RF and RRM capability updates         15.           RP-84         RP-191373         0109         -         F         Clarification on UE capability updates         15.           RP-84         RP-191379         0110         2         F         Correction on description of additionalActiveSpatialRelationPUCCH         15.           RP-84         RP-191378         0111         1         F         Clarification on ci-RS-CFRA-ForHO         15.           RP-84         RP-191378         0114         2         F         CR on capability of maxUplinkDutyCycle for FR2         15.           RP-84         RP-191378         0116 </td <td></td> <td></td> <td></td> <td></td> <td>2</td> <td></td> <td>Correction on supportedBandwidthCombinationSetEUTRA-v1530</td> <td>15.5.0</td>					2		Correction on supportedBandwidthCombinationSetEUTRA-v1530	15.5.0
RP-83RP-19054501001FClarification on Frequency Separation Class15.RP-83RP-1905440101-FCR on Processing delay requirements for RRC Resume procedures in TS 38.30615.06/2019RP-84RP-19137500941FCR to clarify ul-TimingAlignmentEUTRA-NR15.RP-84RP-1913730108-FLayer-1, RF and RRM capability updates15.RP-84RP-1913730109-FClarification on UE capability of Ich-ToSCellRestriction15.RP-84RP-19137901102FCorrection on description of additionalActiveSpatialRelationPUCCH15.RP-84RP-19137801111FClarification on csi-RS-CFRA-ForHO15.RP-84RP-19137901142FCR on capability of maxUplinkDutyCycle for FR215.RP-84RP-19137801152F38.306 CR for late drop15.RP-84RP-1913740119-FCorrection to PDCP parameters15.RP-84RP-19138101213FCorrections to UE Capability definitions15.RP-84RP-19137801221F38.306 Clarification on multiple TA capabilities15.RP-84RP-19137901221F38.306 Clarification on multiple TA capabilities15.RP-84RP-19137901221F38.306 Clarification on multiple TA capabilities15.RP-84RP-19137901221 </td <td></td> <td>RP-83</td> <td>RP-190543</td> <td>0099</td> <td>-</td> <td>F</td> <td></td> <td>15.5.0</td>		RP-83	RP-190543	0099	-	F		15.5.0
RP-83         RP-190544         0101         -         F         CR on Processing delay requirements for RRC Resume procedures in TS 38.306         15.           06/2019         RP-84         RP-191375         0094         1         F         CR to clarify ul-TimingAlignmentEUTRA-NR         15.           RP-84         RP-191373         0108         -         F         Layer-1, RF and RRM capability updates         15.           RP-84         RP-191373         0109         -         F         Clarification on UE capability of Ich-ToSCellRestriction         15.           RP-84         RP-191379         0110         2         F         Correction on description of additionalActiveSpatialRelationPUCCH         15.           RP-84         RP-191379         0114         2         F         CR on capability of maxUplinkDutyCycle for FR2         15.           RP-84         RP-191380         0115         2         F         38.306 miscellaneous corrections         15.           RP-84         RP-191378         0116         1         B         38.306 CR for late drop         15.           RP-84         RP-191374         0119         -         F         Correction to PDCP parameters         15.           RP-84         RP-191374         0121         3					1			15.5.0
06/2019         RP-84         RP-191375         0094         1         F         CR to clarify ul-TimingAlignmentEUTRA-NR         15.           RP-84         RP-191373         0108         -         F         Layer-1, RF and RRM capability updates         15.           RP-84         RP-191373         0109         -         F         Clarification on UE capability of Ich-ToSCellRestriction         15.           RP-84         RP-191379         0110         2         F         Correction on description of additionalActiveSpatialRelationPUCCH         15.           RP-84         RP-191378         0111         1         F         Clarification on csi-RS-CFRA-ForHO         15.           RP-84         RP-191379         0114         2         F         CR on capability of maxUplinkDutyCycle for FR2         15.           RP-84         RP-191380         0115         2         F         38.306 miscellaneous corrections         15.           RP-84         RP-191378         0116         1         B         38.306 CR for late drop         15.           RP-84         RP-191374         0119         -         F         Correction to PDCP parameters         15.           RP-84         RP-191378         0121         3         F         Corrections t					-	F	CR on Processing delay requirements for RRC Resume procedures in	15.5.0
RP-84         RP-191373         0108         -         F         Layer-1, RF and RRM capability updates         15.           RP-84         RP-191373         0109         -         F         Clarification on UE capability of Ich-ToSCellRestriction         15.           RP-84         RP-191379         0110         2         F         Correction on description of additionalActiveSpatialRelationPUCCH         15.           RP-84         RP-191378         0111         1         F         Clarification on csi-RS-CFRA-ForHO         15.           RP-84         RP-191379         0114         2         F         CR on capability of maxUplinkDutyCycle for FR2         15.           RP-84         RP-191380         0115         2         F         38.306 miscellaneous corrections         15.           RP-84         RP-191378         0116         1         B         38.306 CR for late drop         15.           RP-84         RP-191381         0118         4         F         Clarification on supported modulation order capability         15.           RP-84         RP-191374         0119         -         F         Correction to PDCP parameters         15.           RP-84         RP-191381         0121         3         F         Corrections to UE Capabi	06/2019	RP-84	RP-191375	0094	1	F	CR to clarify ul-TimingAlignmentEUTRA-NR	15.6.0
RP-84RP-1913730109-FClarification on UE capability of Ich-ToSCellRestriction15.RP-84RP-19137901102FCorrection on description of additionalActiveSpatialRelationPUCCH15.RP-84RP-19137801111FClarification on csi-RS-CFRA-ForHO15.RP-84RP-19137901142FCR on capability of maxUplinkDutyCycle for FR215.RP-84RP-19138001152F38.306 miscellaneous corrections15.RP-84RP-19137801161B38.306 CR for late drop15.RP-84RP-19138101184FClarification on supported modulation order capability15.RP-84RP-1913740119-FCorrections to UE Capability definitions15.RP-84RP-19138101213FCorrections to UE Capability definitions15.RP-84RP-19137801221F38.306 Clarification on multiple TA capabilities15.RP-84RP-19137901232FCR to clarify non-codebook based PUSCH transmission15.		RP-84			-	F	Layer-1, RF and RRM capability updates	15.6.0
RP-84         RP-191379         0110         2         F         Correction on description of additionalActiveSpatialRelationPUCCH         15.           RP-84         RP-191378         0111         1         F         Clarification on csi-RS-CFRA-ForHO         15.           RP-84         RP-191379         0114         2         F         CR on capability of maxUplinkDutyCycle for FR2         15.           RP-84         RP-191380         0115         2         F         38.306 miscellaneous corrections         15.           RP-84         RP-191378         0116         1         B         38.306 CR for late drop         15.           RP-84         RP-191381         0118         4         F         Clarification on supported modulation order capability         15.           RP-84         RP-191374         0119         -         F         Correction to PDCP parameters         15.           RP-84         RP-191381         0121         3         F         Corrections to UE Capability definitions         15.           RP-84         RP-191378         0122         1         F         38.306 Clarification on multiple TA capabilities         15.           RP-84         RP-191379         0123         2         F         CR to clarify non-codebook bas		RP-84	RP-191373		-		Clarification on UE capability of Ich-ToSCellRestriction	15.6.0
RP-84         RP-191379         0114         2         F         CR on capability of maxUplinkDutyCycle for FR2         15.           RP-84         RP-191380         0115         2         F         38.306 miscellaneous corrections         15.           RP-84         RP-191378         0116         1         B         38.306 CR for late drop         15.           RP-84         RP-191378         0116         1         B         38.306 CR for late drop         15.           RP-84         RP-191381         0118         4         F         Clarification on supported modulation order capability         15.           RP-84         RP-191374         0119         -         F         Correction to PDCP parameters         15.           RP-84         RP-191381         0121         3         F         Corrections to UE Capability definitions         15.           RP-84         RP-191378         0122         1         F         38.306 Clarification on multiple TA capabilities         15.           RP-84         RP-191379         0123         2         F         CR to clarify non-codebook based PUSCH transmission         15.								15.6.0
RP-84         RP-191380         0115         2         F         38.306 miscellaneous corrections         15.           RP-84         RP-191378         0116         1         B         38.306 CR for late drop         15.           RP-84         RP-191378         0116         1         B         38.306 CR for late drop         15.           RP-84         RP-191381         0118         4         F         Clarification on supported modulation order capability         15.           RP-84         RP-191374         0119         -         F         Correction to PDCP parameters         15.           RP-84         RP-191381         0121         3         F         Corrections to UE Capability definitions         15.           RP-84         RP-191378         0122         1         F         38.306 Clarification on multiple TA capabilities         15.           RP-84         RP-191379         0123         2         F         CR to clarify non-codebook based PUSCH transmission         15.								15.6.0
RP-84         RP-191378         0116         1         B         38.306 CR for late drop         15.           RP-84         RP-191381         0118         4         F         Clarification on supported modulation order capability         15.           RP-84         RP-191374         0119         -         F         Correction to PDCP parameters         15.           RP-84         RP-191381         0121         3         F         Corrections to UE Capability definitions         15.           RP-84         RP-191378         0122         1         F         38.306 Clarification on multiple TA capabilities         15.           RP-84         RP-191379         0123         2         F         CR to clarify non-codebook based PUSCH transmission         15.								15.6.0
RP-84         RP-191381         0118         4         F         Clarification on supported modulation order capability         15.           RP-84         RP-191374         0119         -         F         Correction to PDCP parameters         15.           RP-84         RP-191381         0121         3         F         Corrections to UE Capability definitions         15.           RP-84         RP-191378         0122         1         F         38.306 Clarification on multiple TA capabilities         15.           RP-84         RP-191379         0123         2         F         CR to clarify non-codebook based PUSCH transmission         15.					_			15.6.0
RP-84         RP-191374         0119         -         F         Correction to PDCP parameters         15.           RP-84         RP-191381         0121         3         F         Corrections to UE Capability definitions         15.           RP-84         RP-191378         0122         1         F         38.306 Clarification on multiple TA capabilities         15.           RP-84         RP-191379         0123         2         F         CR to clarify non-codebook based PUSCH transmission         15.								15.6.0
RP-84         RP-191381         0121         3         F         Corrections to UE Capability definitions         15.           RP-84         RP-191378         0122         1         F         38.306 Clarification on multiple TA capabilities         15.           RP-84         RP-191379         0123         2         F         CR to clarify non-codebook based PUSCH transmission         15.								15.6.0
RP-84         RP-191378         0122         1         F         38.306 Clarification on multiple TA capabilities         15.           RP-84         RP-191379         0123         2         F         CR to clarify non-codebook based PUSCH transmission         15.								15.6.0
RP-84 RP-191379 0123 2 F CR to clarify non-codebook based PUSCH transmission 15.								15.6.0
								15.6.0
RP-84 RP-191380 0124 3 F Clarification on pdsch-ProcessingType2 15.								15.6.0 15.6.0

RP-85         RP-192191         0142         1         B         Introduction of SFTD measurement to neighbour cells for NR SA         15.7.0           RP-85         RP-192193         0146         1         F         MR-DC measurement gap pattern capability         15.7.0           RP-85         RP-192193         0151         3         F         Clarifying UE capability freqHoppingPUCCH-F0-2 and t5.7.0           RP-85         RP-192190         0152         F         Clarification to dynamic power sharing capability         15.7.0           RP-85         RP-192190         0153         2         F         Clarification to dynamic power sharing capability         15.7.0           RP-85         RP-192190         0155         2         F         Carrection to IMS capability         15.7.0           RP-85         RP-192190         0156         3         F         UE capability on different numerologies within the 15.7.0           RP-85         RP-192190         0167         F         Clarification on UE capability on different numerologies within the 15.7.0           RP-85         RP-192193         0168         1         F         Correction on CA parameters in NR-DC         15.7.0           RP-86         RP-192930         0168         1         F         Clarification on the restriction		RP-84	RP-191378	0125	1	F	Clarification on present of tci-StatePDSCH	15.6.0
RP-84         RP-191370         0130         2         F         Correction on the number of DRB in LE Capability Constraints         15.6.0           RP-94         RP-191370         0133         F         C K to capture UE supported DLU benaviotities         15.6.0           RP-84         RP-191376         0133         F         UE capability of photon of GFment numerologies within the same         15.6.0           RP-84         RP-191564         0136         F         Modified UE capability for aperiod CSI-RS triggering with different 15.6.0           RP-84         RP-191564         0136         C         A difficinal capability isoparing for VidAdAM support         15.7.0           RP-85         RP-192193         0142         1         Introduction of SFTD measurement to neighbour cells for NR SA.         15.7.0           RP-85         RP-192193         0151         2         F         Carlifolia to dynamic power sharing capability         15.7.0           RP-85         RP-192194         0151         2         F         Carlifolia to dynamic power sharing capability         15.7.0           RP-85         RP-192193         0162         2         Carlifolia to dynamic power sharing calls         15.7.0           RP-85         RP-192194         0152         2         F         Carlifolia to dynametex								
RP-84         RP-191370         0132         1         F         CR to capture UE supported DU/LU bandwidths         15.6.0           RP-84         RP-191370         0133         F         Lice capability ingrafing for FD-MMO processing capabilities for FN- DC         15.6.0           RP-84         RP-191376         0134         F         Removal of Capability for partodic CSH R5 triggering with different PUCCH group         15.7.0           RP-85         RP-191380         0136         I         C         Additional capability for partodic CSH R5 triggering with different inforducion of STD measurement inoglipbut credits for RS A1 5.7.0           RP-85         RP-191318         0146         I         If moduling the capability of moduling the capability of moduling the capability of moduling the capability of masurement inoglipbut credits for RS A1 5.7.0           RP-85         RP-191210         0152         F         Carrelation to dynamic power having capability of moduling the capability of masurement ingo patients.         15.7.0           RP-85         RP-191210         0152         F         Carrelation to dynamic power indice capability of masurement ingo patients.         15.7.0           RP-85         RP-191210         0152         F         Correlation to MS capability of masurement inso capability of masurem		-						
RP-84         RP-191376         0133         -         F         UE capability signaling for FD-MIMO processing capabilities for EN- DC         15.6.0           RP-84         RP-191376         0134         -         F         Modified UE capability on different numerologies within the same PUCCH groups         15.6.0           RP-84         RP-191216         0135         -         F         Removal of Capability on aperiodic CSLRS triggering with different inmerology between PDCCH and CSLRS         15.7.0           RP-85         RP-191216         0146         1         E         Introduction of SFD measurement to ang/hour cells for NR SA         15.7.0           RP-85         RP-191214         0151         F         Carritocino 100 Name power sharing capability         15.7.0           RP-85         RP-191214         0152         F         Carritocino 100 Name power sharing capability         15.7.0           RP-85         RP-191219         0152         F         Carritocino 100 Ke capability of MErent numerologies within the same PUCCH group         15.7.0           RP-85         RP-191213         0158         F         Carritocino 100 Ke capability of MErent numerologies within the same PUCCH group         15.7.0           RP-85         RP-191213         0158         F         Carritocino 100 Ke capability of MErent numerologies within the same PUCCH group <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>								
RP-48         RP-191376         O134         F         Modified UE capability on different numerologies within the same PUCCH group.         15.6.0           06/2019         RP-48         RP-191554         O135         F         Removal of Capability for aperiodic CSI-RS triggering with different numerology between PDCCH and CSI-RS         15.6.0           06/2019         RP-48         RP-192156         O136         I         C. Additonal capability signalling or 1042A0AI support         15.7.0           RP-85         RP-192190         O152         F         Clarifying UE capability freqhtypingPUCCH-FO-2 and 15.7.0         15.7.0           RP-85         RP-192190         O152         F         Clarifying UE capability for hypingPUCCH-FO-2 and 15.7.0         15.7.0           RP-85         RP-192190         O152         F         Clarifying UE capability for hypingPUCCH-FO-2 and 15.7.0         15.7.0           RP-86         RP-192190         O152         F         Clarification on UE capability on different numerologies within the 15.7.0         15.7.0           RP-86         RP-192190         O167         F         Clarification on UE capability on different numerologies within the 15.7.0           RP-86         RP-192190         O168         C         Introduction of UE capability on different numerologies within the 15.7.0           RP-86         RP-19		-			1	F		
RP-86         RP-191554         OTS         F           09/2019         RP-86         RP-19216         OTS         F         Removal of Capability for apenodic CSI-RS triggering with different f           09/2019         RP-86         RP-19216         OTS         T         CA dational capability signaling for U242AM support         TS 7.0           RP-86         RP-192130         OTS         F         CAditional capability freqHopingPUCCH+OL+O2 and f5 7.0           RP-86         RP-192190         OTS         F         Clambridger CCCH+T-3-4         TS 7.0           RP-86         RP-192190         OTS         F         Clambridger CCH+T-3-4         TS 7.0           RP-86         RP-192100         OTS         F         Clambridger CCH+T-3-4         TS 7.0           RP-86         RP-192240         OTS         F         Clambridger CCH+T-3-4         TS 7.0           RP-86         RP-192240         OTS         F					-		DC	
Berling Res         RP-152191         Control of SFTD measurement to neighbour cells for NR SA.         15.7.0           RP-85         RP-152191         0142         1         B         Introduction of SFTD measurement to neighbour cells for NR SA.         15.7.0           RP-85         RP-152191         0142         1         B         Introduction of SFTD measurement to pattern capability         15.7.0           RP-86         RP-192192         0153         2         F         Clarification to dynamic power sharing capability         15.7.0           RP-86         RP-192192         0154         2         F         Clarification to dynamic power sharing capability         15.7.0           RP-86         RP-192190         0155         2         F         Clarification to dynamic power sharing cells         15.7.0           RP-86         RP-192190         0154         -         F         Capabilities covering across all serving cells         15.7.0           RP-86         RP-192193         01661         -         C         Caraction to UE capability on RHero With SFN synchronization         15.7.0           RP-86         RP-192193         01681         1         F         Clarification on CA parameters in NF-DC         15.7.0           L2/019         RP-86         RP-192334         01					-		PUCCH group	
RP-85         RP-132191         0142         1         B         Introduction of SFTD measurement gap pattern capability           RP-85         RP-132194         0151         3         F         Clarifying UE capability freqHoppingPUCCH-FD-2 and         15.7.0           RP-85         RP-132194         0152         2         F         Clarifying UE capability freqHoppingPUCCH-FD-2 and         15.7.0           RP-85         RP-132190         0152         2         F         Clarification to dynamic power sharing capability         15.7.0           RP-85         RP-132190         0155         2         F         Capabilities covering across all serving cells         15.7.0           RP-86         RP-132190         0167         -         F         Capabilities covering across all serving cells         15.7.0           RP-86         RP-132290         0168         1         F         Clarification on UE capability for NR-DC with SFN synchronization         15.7.0           RP-86         RP-132340         0168         1         F         Clarification on ne DC Capability for NR-DC with SFN synchronization         15.7.0           RP-86         RP-132340         0168         1         F         Clarification on ne-DC capability for NR-DC with SFN synchronization         15.8.0           RP-80		RP-84	RP-191554	0135	-	F	numerology between PDCCH and CSI-RS"	15.6.0
RP-85         RP-192193         0146         1         F         MR-DC measurement gap pattern capability         15.7.0           RP-85         RP-192194         0151         3         F         Clarifying Ucch+1-13-4         15.7.0           RP-85         RP-192192         0152         2         F         Miscelaneous corrections         15.7.0           RP-85         RP-192190         0154         -         F         Capability of measurement gap patterns         15.7.0           RP-85         RP-192190         0155         2         F         Capability of measurement gap patterns         15.7.0           RP-85         RP-192190         0167         -         F         Clarification on UE capability on different numerologies within the size on the same PUCCH group         isame PUCCH group         isame PUCCH group         15.7.0           RP-85         RP-192190         0169         -         C         Clarification on UE capability on different numerologies within the size on the restriction of maximum SR resource sets         15.7.0           12/2019         RP-86         RP-192330         0168         1         F         Clarification on UE capability on thifterent numerologies within the size on the restriction of maximum SR resource sets         15.8.0           12/2019         RP-86         RP-132333	09/2019					-		
RP-85         RP-192194         0151         3         F         Clarifying UE capability freqHoppingPUCCH-F1-3-4         [15.7.0]           RP-85         RP-192190         0152         -         F         Clarification to dynamic power sharing capability         [15.7.0]           RP-85         RP-192190         0154         -         F         Capability of messurement gap patterns         [15.7.0]           RP-86         RP-192190         0155         -         F         Capability of messurement gap patterns         [15.7.0]           RP-86         RP-192190         0156         -         F         Clarification on UE capability of differont numerologies within the         [15.7.0]           RP-85         RP-192190         0168         1         F         Clarification on UE capability of MR-DO with SFN synchronization         [15.7.0]           RP-86         RP-192336         0168         1         F         Clarification on the restriction of maximum SRS resource sets         [15.8.0]           12/2019         RP-86         RP-192336         0168         1         F         Clarification on ne-OC capability fields         [15.8.0]           RP-86         RP-192336         0169         1         F         Clarification on ne-OC capability fields         [15.8.0]				-				
RP-85         RP-192100         0152         F         Clarification to dynamic power sharing capability         15.7.0           RP-85         RP-192102         0153         2         F         Miscellaneous corrections         15.7.0           RP-85         RP-192103         0154         -         F         Capability of measurement gap patterns         15.7.0           RP-85         RP-192104         0156         2         F         Correction to IMS capability         15.7.0           RP-85         RP-192103         0168         1         F         Correction on LC capability on MR-DC         15.7.0           RP-85         RP-192103         0168         1         F         Correction on CA parameters in NR-DC         15.7.0           L2/2019         RP-86         RP-192346         0169         -         C         Introduction of UE capability for NR-DC with SFN synchronization         15.7.0           L2/2019         RP-86         RP-192336         0186         1         F         Corrections on PDCCH bind decoding in NR-DC         15.8.0           RP-86         RP-192336         0180         1         F         Correction on n-DC capability fields         15.8.0           RP-86         RP-192335         0201         1         F						_		
RP-85         RP-192100         0154         F         Capability of measurement gap patterns         15.7.0           RP-85         RP-192103         0155         2         F         Correction to IMS capability         15.7.0           RP-85         RP-192104         0166         3         F         Use capability condiferent numerologies within the same PUCCH group.         15.7.0           RP-85         RP-192104         0167         -         F         Clarification on UE capability on different numerologies within the same PUCCH group.         15.7.0           RP-86         RP-192304         0169         -         C         Introduction of UE capability for NR-DC with SFN synchronization for som fuguration for uplink beam management.         15.8.0           12/2019         RP-86         RP-192305         0161         1         F         Corrections on PDCCH blind decoding in NR-DC         15.8.0           RP-86         RP-192305         0202         1         F         Correction to charnel8With         15.8.0           RP-86         RP-192305         0202         1         F         Correction to charnel8With         16.8.0           RP-86         RP-192305         0202         1         F         Correction to neb/2 sepability on difficult and pusch-lis.8.0           RP-86			RP-192194	0151	3	F	freqHoppingPUCCH-F1-3-4	15.7.0
RP-85         RP-192190         0154         F         Corpetition Io IMS capability         15.7.0           RP-85         RP-192194         0166         3         F         LIE Capability of measurement gap patterns         15.7.0           RP-85         RP-192190         0167         -         F         Clarification on UE capability on different numerologies within the same PUCCH group           RP-85         RP-192190         0168         1         F         Clarification on UE capability for NR-DC         15.7.0           RP-86         RP-192346         0169         -         Clarification on the restriction of maximum SRS resource sets         15.8.0           12/2019         RP-86         RP-192340         0186         1         F         Clarification on the restriction of maximum SRS resource sets         15.8.0           RP-86         RP-192330         0186         1         F         Clarification on ne-DC capability         15.8.0           RP-86         RP-192330         0200         1         F         Clarification on ne-DC capability         15.8.0           RP-86         RP-192935         02020         1         F         Clarification on ne-DC capability         15.8.0           RP-86         RP-192935         02020         1         F					-			
RP-85         RP-192193         Of56         2         F         Correction to IMS capability         15.7.0           RP-85         RP-192190         Of67         -         F         Ult Capabilities covering across all serving cells         15.7.0           RP-85         RP-192193         Of68         1         F         Correction on CA parameters in NR-DC         15.7.0           RP-85         RP-192193         Of68         1         F         Correction on CA parameters in NR-DC         15.7.0           12/2019         RP-66         RP-19236         Of168         1         F         Corrections on PCCH bind by for NR-DC with SFN synchronization of the sense corrections on ILE capability fields         15.8.0           RP-66         RP-19236         Of168         1         F         Corrections on PDCCH bind decoding in NR-DC         15.8.0           RP-86         RP-19235         0200         1         F         Correction to channelBVs         15.8.0           RP-86         RP-19235         0202         1         F         Correction to pc/on-ReprintorMultiSlots and pusch-         15.8.0           RP-86         RP-192337         0215         1         F         Correction to pc/on-ReprintorMultiSlots and pusch-         15.8.0           RP-86         RP-192337				0153	2	F		
RP-85         RP-192194         0167         F         UE Capabilities covering across all serving cells         15.7.0           RP-85         RP-192190         0167         -         F         Clarification on UC aparameters in NR-DC         15.7.0           RP-85         RP-192346         0169         -         C         Introduction on QA parameters in NR-DC         15.7.0           12/2019         RP-86         RP-192346         0169         -         C         Introduction on QA parameters in NR-DC         15.7.0           12/2019         RP-86         RP-192336         0186         1         F         Clarification on the restriction of maximum SRS resource sets correliation for uplink beam maragement.         15.8.0           RP-86         RP-192336         0191         1         F         Clarification on PDCCH bind decoding in NR-DC         15.8.0           RP-86         RP-192336         0204         1         F         Correction to pDCAth MultiSlots and pusch-         15.8.0           RP-86         RP-192336         0204         1         F         Correction to pdSch-RepetitionMultiSlots and pusch-         15.8.0           RP-86         RP-192337         0215         1         F         Correction on ambiguity of UE PDD/DTD R1/FR2 capability         15.8.0				0154			Capability of measurement gap patterns	
RP-85         RP-192190         0167         -         F         Clarification on UE capability on different numerologies within the same PUCCH group         15.7.0           RP-85         RP-192136         0168         1         F         Correction on CA parameters in NR-DC         15.7.0           12/2019         RP-86         RP-192336         0185         1         F         Clarification of the restriction of maximum SRS resource sets configuration for uplink beam management.         15.8.0           RP-86         RP-192336         0186         1         F         Clarification on nebre restriction of maximum SRS resource sets configurations on PDCCH bind decoding INR-DC         15.8.0           RP-86         RP-192336         0201         1         F         Clarification on ne-DC capability         INR-DC         15.8.0           RP-86         RP-192337         0201         1         F         Clarification on ne-DC capability         15.8.0           RP-86         RP-192337         0215         1         F         Correction to todsch-Repetition/MultiSlots and pusch- Repetition/MultiSlots         15.8.0           RP-86         RP-192337         0216         1         F         Carrection on ambiguity of UE FDD/TDD FR1/FR2 capabilities         15.8.0           RP-86         RP-192937         0216         1 <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>								
RP-85         RP-192193         Otes         F         Correction on CA parameters in NR-DC         15.7.0           RP-85         RP-192346         0169         -         C         Introduction of UE capability for NR-DC with SFN synchronization         15.7.0           12/2019         RP-86         RP-19236         0185         1         F         Configuration for uplink beam management.         15.8.0           RP-86         RP-192380         0185         1         F         Corrections on PCCH bind decoding in NR-DC         15.8.0           RP-86         RP-192383         02201         1         F         Corrections on PCCH bind decoding in NR-DC         15.8.0           RP-86         RP-192333         02201         1         F         Correction to channelBWs         15.8.0           RP-86         RP-192333         02201         F         Correction to pdsch-RepetitionMultiSlots and pusch-         15.8.0           RP-86         RP-192937         0215         1         F         Correction on ambiguity of UE DD/DTD R1/FR2 capabilities         15.8.0           RP-86         RP-192937         0216         1         F         Correction on ambiguity of UE DD/DTD R1/FR2 capabilities         15.8.0           RP-86         RP-192937         02216         1							UE Capabilities covering across all serving cells	
RP-65         RP-192193         0168         1         F         Correction on CA parameters in NR-DC         15.7.0           12/2019         RP-66         RP-19234         0169         -         C         Introduction of UE capability for NR-DC with SFN synchronization         15.7.0           12/2019         RP-66         RP-192336         0186         1         F         Clarification on the restriction of maximum SRS resource sets         15.8.0           Configuration for uplink beam management.         Configuration for uplink beam management.         15.8.0           RP-66         RP-192335         0202         1         F         Corrections on PDCCH blind decoding in NR-DC         15.8.0           RP-66         RP-192330         0202         1         F         Correction to channelBWs         15.8.0           RP-66         RP-192337         0215         1         F         Correction to tabch-RepetitionMultiSlots and pusch-         15.8.0           RP-66         RP-192337         0215         1         F         Nc-DC dynamic gcapability         012         15.8.0           RP-66         RP-192337         0215         1         F         Correction on mitial BWP bandwidt capability         15.8.0           RP-68         RP-192033         0219         F </td <td></td> <td>RP-85</td> <td>RP-192190</td> <td>0167</td> <td>-</td> <td>F</td> <td></td> <td>15.7.0</td>		RP-85	RP-192190	0167	-	F		15.7.0
Line         Detween PCell and PSCell         Detween PCell and PSCell           12/2019         RP-86         RP-192936         0185         1         F         Clarification on the restriction of maximum SRS resource sets configuration for uplink beam management.         15.8.0           RP-86         RP-192935         0191         1         F         Corrections on PDCCH blind decoding in NR-DC         15.8.0           RP-86         RP-192935         0202         1         F         Correction to ne-DC capability         15.8.0           RP-86         RP-192935         0202         1         F         Correction to pash-Repetition/MultiSlots and pusch-         15.8.0           RP-86         RP-192937         0216         1         F         NEP-60 Repetition/MultiSlots and pusch-         15.8.0           RP-86         RP-192937         0216         1         F         NEP-60 Repetition/MultiSlots and pusch-         15.8.0           RP-86         RP-192937         0216         1         F         Correction on artisoury of UE DOTD DT R1/FR2 capabilities         15.8.0           RP-86         RP-192937         0226         F         Correction on artisoury of UE HDOTD DT R1/FR2 capabilities         15.8.0           RP-86         RP-192937         0226         F         Correction o		RP-85	RP-192193	0168	1	F		15.7.0
12/2019         RP-86         RP-192934         0185         1         F         Clarification on the restriction of maximum SRS resource sets         15.8.0           RP-86         RP-192936         0186         3         F         Miscellaneous corrections on PDCCH blind decoding in NR-DC         15.8.0           RP-86         RP-192935         0200         1         F         Clarification on ne-DC capability         15.8.0           RP-86         RP-192935         0202         1         F         Correction to channelBWs         15.8.0           RP-86         RP-192935         0202         1         F         Correction to pdsch-RepetitionMultiSlots and pusch-         15.8.0           RP-86         RP-192937         0215         1         F         Correction on crossCarrierScheduling-OtherSCS in R15         15.8.0           RP-86         RP-192937         0215         1         F         Correction on arbiguity of UE FDD/TDD FR1/FR2 capabilities         15.8.0           RP-86         RP-192937         0216         F         Correction on arbiguity of UE FDD/TDD FR1/FR2 capabilities         15.8.0           RP-87         RP-200334         0194         2         F         Correction on SR capability in NR-DC         15.9.0           RP-87         RP-200334         <		RP-85	RP-192346	0169	-	С		15.7.0
RP-86         R-P-19236         O186         3         F         Miscellaneous corrections on UE capability fields         15.0.           RP-86         RP-19233         0200         1         F         Clarification on ne-DC capability         15.8.0           RP-86         RP-19233         0200         1         F         Clarification on ne-DC capability         15.8.0           RP-86         RP-192936         0204         1         F         Use of splitSR8-WithCneUL-Path capability (38.306)         15.8.0           RP-86         RP-192937         0215         1         F         Correction to pdsch-RepetitionMultiSlots and pusch- RepetitionMultiSlots         15.8.0           RP-86         RP-192937         0216         1         F         Correction on initial BWP bandwidth capability         15.8.0           RP-86         RP-192937         0216         1         F         Clarification on crossCarterScheduing-OtherSCS in R15         15.8.0           03/2020         RP-87         RP-192937         0220         -         F         Correction on antiguity of UE FDD/TDD FNI/R2 capabilities         15.8.0           03/2020         RP-87         RP-200335         0208         5         F         CR no BWCS for inter-ENDC BC with intra-ENDC BC (38.306)         15.9.0	12/2019	RP-86	RP-192934	0185	1	F	Clarification on the restriction of maximum SRS resource sets	15.8.0
RP-86         RP-192935         O191         1         F         Corrections on PDCCH blind decoding in NR-DC         15.8.0           RP-86         RP-192936         0200         1         F         Correction to channelBWs         15.8.0           RP-86         RP-192936         0202         1         F         Correction to channelBWs         15.8.0           RP-86         RP-192936         0205         -         F         Correction to channelBWs         15.8.0           RP-86         RP-192937         0216         1         F         Correction on initial BWP bandwidth capabilities         15.8.0           RP-86         RP-192937         0216         1         F         Correction on initial BWP bandwidth capability         15.8.0           RP-86         RP-192937         0216         1         F         Correction on parameter description of beamManagementSSB-CSI-         15.9.0           RP-86         RP-192933         0220         F         Correction on aprameter description of beamManagementSSB-CSI-         15.9.0           RP-87         RP-200335         0208         3         F         C Ro n BWCS for inter-ENDC BC with intra-ENDC BC (38.306)         15.9.0           RP-87         RP-200335         0248         2         F         Data		RP-86	RP-192936	0186	3	F		15.8.0
RP-86         RP-192337         0200         1         F         Clarification on ne-DC capability         15.8.0           RP-86         RP-192336         0202         1         F         Correction to channelBWs         15.8.0           RP-86         RP-192336         0204         1         F         Correction to pdsch-RepetitionMultiSlots and pusch- repetitionMultiSlots         15.8.0           RP-86         RP-192337         0215         1         F         Correction on initial BWP bandwidth capabilities         15.8.0           RP-86         RP-192337         0216         1         F         Ne-DC dynaming capability         15.8.0           RP-86         RP-192337         0216         1         F         Correction on parameter description of beamMaagementSBe-CSI- to Correction on parameter description of beamMaagementSBe-CSI- R-S         15.8.0           RP-87         RP-200335         0208         3         F         C Ro on BWCS for inter-ENDC BC with intra-ENDC BC (38.306)         15.9.0           RP-87         RP-200335         0208         5         F         C Ro to BS.306 on support of 70MHz channel bandwidth         15.9.0           RP-87         RP-200335         0224         1         F         Carrection on Stage ability in NR-DC         15.9.0           RP-87 <td></td> <td></td> <td></td> <td></td> <td></td> <td>F</td> <td></td> <td></td>						F		
RP-86         RP-19235         0202         1         F         Correction to channelWs         15.8.0           RP-86         RP-192335         0205         -         F         Use of splitSRB-WithOneUL-Path capability (38.306)         15.8.0           RP-86         RP-192337         0215         1         F         Correction on to pdsch-RepetitionMultiSlots and pusch-RepetitionMultiSlots         15.8.0           RP-86         RP-192337         0216         1         F         Nerrection on ambiguity of UE FDD/TDD FR1/FR2 capabilities         15.8.0           RP-86         RP-192337         0220         -         F         Correction on ambiguity of UE FDD/TDD FR1/FR2 capabilities         15.8.0           03/2020         RP-87         RP-200335         0208         3         F         CR on BWCS for inter-ENDC BC with intra-ENDC BC (38.306)         15.9.0           RP-87         RP-200335         0208         5         F         CR to 18.306 on support of 70MHz channel bandwidth         15.9.0           RP-87         RP-200334         0248         2         F         Data rate for the case of single carrier stadalone operation         15.9.0           RP-87         RP-200334         0255         2         F         M to the case of single carrier stadalone operation         15.9.0					1	F	Clarification on ne-DC capability	
RP-86         RP-192936         0204         1         F         Use of splitSRB-WithOneUL-Path capability (38.306)         15.8.0           RP-86         RP-192935         0205         -         F         Correction to pdsch-RepetitionMultiSlots and pusch- RepetitionMultiSlots         15.8.0           RP-86         RP-192937         0215         1         F         Correction on initial BWP bandwidth capabilities         15.8.0           RP-86         RP-192937         0216         1         F         Correction on crossCarrierScheduling-OtherSCS in R15         15.8.0           RP-86         RP-192937         0220         -         F         Carrection on analguity of UE FD0/TDD FR1/FR2 capabilities         15.9.0           03/2020         RP-87         RP-200334         0194         2         F         Correction on parameter description of baamManagementSB-CSI- RS         15.9.0           RP-87         RP-200335         0228         3         F         CR on BWCS for inter-ENDC BC with intra-ENDC BC (38.306)         15.9.0           RP-87         RP-200335         0228         1         F         Carrection on SRB capability in NR-DC         15.9.0           RP-87         RP-200335         0228         1         F         Carrection on stored unmber of deprioritisation frequencios         15.9.0<					1	F		
RP-86         RP-192935         0205         -         F         Correction to pdsch-RepetitionMultiSlots and pusch- RepetitionMultiSlots         15.8.0           RP-86         RP-192937         0215         1         F         Correction on initial BWP bandwidth capabilities         15.8.0           RP-86         RP-192937         0216         1         F         NE-0C dynamic power sharing capability         15.8.0           RP-86         RP-192937         0220         -         F         Correction on crossCarrieSchedUling-OtherSCS in R15         15.8.0           03/2020         RP-87         RP-200334         0194         2         F         Correction on parameter description of beamManagementSSB-CSI-         15.9.0           RP-87         RP-200335         0208         5         F         CR to 83.306 on support of 70MHz channel bandwidth         15.9.0           RP-47         RP-200334         0226         -         F         Correction on SRB capability in NR-DC         15.9.0           RP-47         RP-200334         0236         -         F         Correction on SRB capability in NR-DC         15.9.0           RP-47         RP-200334         0255         2         F         Miscellaneous Corrections to UE capability parameters         15.9.0           RP-47				0204	1	F	Use of splitSRB-WithOneUL-Path capability (38.306)	
RP-86         RP-192937         0215         1         F         Correction on initial BWP bandwidth capabilities         15.8.0           RP-86         RP-192937         0219         -         F         Clarification on crossCarrierScheduling-OtherSCS in R15         15.8.0           03/2020         RP-87         RP-200334         0194         2         F         Correction on ambiguity of UE FDD/TD FR1/FR2 capabilities         15.8.0           03/2020         RP-87         RP-200334         0194         2         F         Correction on ambiguity of UE FDD/TD FR1/FR2 capabilities         15.9.0           03/2020         RP-87         RP-200335         0208         3         F         C Correction on parameter description of beamManagementSSB-CSI-         15.9.0           RP-87         RP-200335         0208         5         F         C Ro to 83.005 on support of 70MHz channel bandwidth         15.9.0           RP-87         RP-200336         0248         2         F         Data rate for the case of single carrier standalone operation         15.9.0           RP-87         RP-200335         0255         2         F         Miscellaneous Corrections to UE capability parameters         15.9.0           RP-88         RP-201160         0262         3         F         Corrections on the numbe				0205	-	F	Correction to pdsch-RepetitionMultiSlots and pusch-	
RP-86         RP-192937         0216         1         F         NE-DC dynamic power sharing capability         15.8.0           RP-86         RP-192937         0220         F         Clarification on cambiguity of UE FDD/TDD FR1/FR2 capabilities         15.8.0           03/2020         RP-87         RP-200334         0194         2         F         Correction on ambiguity of UE FDD/TDD FR1/FR2 capabilities         15.8.0           03/2020         RP-87         RP-200335         0208         3         F         Correction on parameter description of beamManagementSSB-CSI- RS         15.9.0           RP-87         RP-200335         0208         5         F         CR no BWCS for inter-ENDC BC with intra-ENDC BC (38.306)         15.9.0           RP-87         RP-200334         0236         F         Correction on SBc capability in NR-DC         15.9.0           RP-87         RP-200335         0254         1         F         Cara tarte for the case of single carrier standalone operation         15.9.0           RP-87         RP-200335         0255         1         F         UE capability in Intra-band requirements for inter-band EN-DC/NE-DC         15.9.0           07/2020         RP-88         RP-201161         017         F         Default values for UE capability remements for inter-band EN-DC/NE-DC         <		RP-86	RP-192937	0215	1	F		15.8.0
RP-86         RP-192935         0219         -         F         Clarification on cossCarrierScheduling-OtherSCS in R15         15.8.0           03/2020         RP-87         RP-200334         0194         2         F         Correction on parameter description of beamManagementSSB-CSI- RS         15.9.0           RP-87         RP-200335         0208         3         F         CR no BWCS for inter-ENDC BC with intra-ENDC BC (38.306)         15.9.0           RP-87         RP-200335         0208         5         F         CR no BWCS for inter-ENDC BC with intra-ENDC BC (38.306)         15.9.0           RP-87         RP-200335         0248         2         F         Correction on SRB capability in NR-DC         15.9.0           RP-87         RP-200334         0254         1         F         CR no the maximum stored number of deprioritisation frequencies         15.9.0           RP-87         RP-200335         0255         2         F         Miscellaneous Corrections to UE capability parameters         15.9.0           RP-87         RP-200335         0259         1         F         Default values for UE capability carameters         15.9.0           RP-87         RP-200135         0256         1         F         Carrection on supported NB-DC call prouping         15.10.0					1	F		
03/2020         RP-87         RP-200334         0194         2         F         Correction on parameter description of beamManagementSSB-CSI- RS         15.9.0           RP-87         RP-200335         0208         3         F         C R on BWCS for inter-ENDC BC with intra-ENDC BC (38.306)         15.9.0           RP-87         RP-200335         0209         5         F         C R to 38.306 on support of 70MHz channel bandwidth         15.9.0           RP-87         RP-200334         0236         -         F         Correction on SR capability in NR-DC         15.9.0           RP-87         RP-200334         0236         -         F         Correction on SR capability in NR-DC         15.9.0           RP-87         RP-200334         0254         1         F         C R on the maximum stored number of deprioritisation frequencies         15.9.0           RP-87         RP-200335         0255         2         F         Miscellaneous Corrections on the number of DRB         15.0.0           RP-88         RP-201161         0176         7         F         Default values for UE capability for inter-band requirements for inter-band EN-DC/NE-DC         15.9.0           07/2020         RP-88         RP-201163         0287         2         F         Correction on the number of DRBs         15.1		RP-86	RP-192935	0219	-	F		15.8.0
RP-87         RP-200335         0208         3         F         CR on BWCS for inter-ENDC BC with intra-ENDC BC (38.306)         15.9.0           RP-87         RP-200335         0209         5         F         CR to 38.306 on support of 70MHz channel bandwidth         15.9.0           RP-87         RP-200334         0236         -         F         Correction on SRB capability in NR-DC         15.9.0           RP-87         RP-200334         0236         2         F         Data rate for the case of single carrier standalone operation         15.9.0           RP-87         RP-200335         0254         1         F         CR on the maximum stored number of deprioritisation frequencies         15.9.0           RP-87         RP-200335         0255         2         F         Miscellaneous Corrections to UE capability parameters         15.9.0           RP-87         RP-201335         0255         1         F         Default values for UE capability         15.10.0           RP-88         RP-201161         0762         3         F         Corrections on the number of DRBs         15.10.0           RP-88         RP-201163         0262         3         F         Correction to the serving cell number for ENDC power class         15.10.0           RP-88         RP-201160		RP-86	RP-192937	0220	-	F	Correction on ambiguity of UE FDD/TDD FR1/FR2 capabilities	15.8.0
RP-87         RP-200335         0209         5         F         CR to 38.306 on support of 70MHz channel bandwidth         15.9.0           RP-87         RP-200334         0236         -         F         Correction on SRB capability in NR-DC         15.9.0           RP-87         RP-200335         0248         2         F         Data rate for the case of single carrier standalone operation         15.9.0           RP-87         RP-200335         0254         1         F         CR on the maximum stored number of deprioritisation frequencies         15.9.0           RP-87         RP-200335         0259         1         F         CR on the maximum stored number of deprioritisation frequencies         15.9.0           07/2020         RP-88         RP-201163         0259         1         F         UE capability of intra-band requirements for inter-band EN-DC/NE-DC         15.9.0           07/2020         RP-88         RP-201163         0287         2         F         Corrections on the number of DRBs         15.10.0           RP-88         RP-201163         0287         2         F         Correction on L2 and RAN4 feature of NGEN-DC and NE-DC         15.10.0           RP-88         RP-201160         0303         1         F         Clarification on L2 and RAN4 feature of NGEN-DC and NE-DC	03/2020	RP-87	RP-200334	0194	2	F		15.9.0
RP-87         RP-200335         0209         5         F         CR to 38.306 on support of 70MHz channel bandwidth         15.9.0           RP-87         RP-200334         0236         -         F         Correction on SRB capability in NR-DC         15.9.0           RP-87         RP-200335         0254         1         F         Cata rate for the case of single carrier standalone operation         15.9.0           RP-87         RP-200335         0255         2         F         Miscellaneous Corrections to UE capability parameters         15.9.0           RP-87         RP-200335         0259         1         F         Defa rate for the case of single carrier standalone operation         15.9.0           07/2020         RP-88         RP-201163         0259         1         F         Defa rate values for UE capability         15.10.0           RP-88         RP-201163         0262         3         F         Correction on the serving cell number for ENDC power class         15.10.0           RP-88         RP-201160         0287         2         F         Carification on L2 and RAN4 feature of NGEN-DC and NE-DC         15.10.0           RP-88         RP-201160         0284         1         F         Carification on UE capability report for SRS only Scell         15.10.0		RP-87	RP-200335	0208	3	F	CR on BWCS for inter-ENDC BC with intra-ENDC BC (38.306)	15.9.0
RP-87         RP-200334         0236         -         F         Correction on SRB capability in NR-DC         15.9.0           RP-87         RP-200335         0248         2         F         Data rate for the case of single carrier standalone operation         15.9.0           RP-87         RP-200335         0255         2         F         Miscellaneous Corrections to UE capability parameters         15.9.0           RP-87         RP-200335         0259         1         F         UE capability of intra-band requirements for inter-band EN-DC/NE-DC         15.9.0           07/2020         RP-88         RP-201161         0176         7         F         Default values for UE capability         patintrability         15.10.0           RP-88         RP-201159         0264         1         F         Clarification on supported NR-DC cell grouping         15.10.0           RP-88         RP-201163         0287         2         F         Corrections on the serving cell number for ENDC power class         15.10.0           RP-88         RP-201163         0284         -         F         Clarification on L1 and RAM feature of NGEN-DC and NE-DC         15.10.0           RP-88         RP-201162         0300         1         F         Icarification on U2 and RAM feature of NGEN-DC and NE-DC <td< td=""><td></td><td>RP-87</td><td></td><td>0209</td><td>5</td><td>F</td><td></td><td>15.9.0</td></td<>		RP-87		0209	5	F		15.9.0
RP-87         RP-200334         0254         1         F         CR on the maximum stored number of deprioritisation frequencies         15.9.0           RP-87         RP-200335         0255         2         F         Miscellaneous Corrections to UE capability parameters         15.9.0           07/2020         RP-88         RP-201161         0176         7         F         Default values for UE capability         15.10.0           RP-88         RP-201163         0262         3         F         Corrections on the number of DRBs         15.10.0           RP-88         RP-201163         0262         3         F         Correction to the serving cell number for ENDC power class         15.10.0           RP-88         RP-201163         0287         2         F         Correction to the serving cell number for ENDC power class         15.10.0           RP-88         RP-201163         0284         1         F         SRS Capability report for SRS only Scell         15.10.0           RP-88         RP-201162         0300         1         F         Clarification on L2 and RAN4 feature of NGEN-DC and NE-DC         15.10.0           RP-88         RP-201163         0311         1         F         Invalidating bandwidth class F for FR1         15.10.0           RP-88         <		RP-87	RP-200334	0236	-	F		15.9.0
RP-87         RP-200334         0254         1         F         CR on the maximum stored number of deprioritisation frequencies         15.9.0           RP-87         RP-200335         0255         2         F         Miscellaneous Corrections to UE capability parameters         15.9.0           07/2020         RP-88         RP-201161         0176         7         F         Default values for UE capability           07/2020         RP-88         RP-201163         0262         3         F         Corrections on the number of DRBs         15.10.0           RP-88         RP-201163         0262         3         F         Correction to the serving cell number for ENDC power class         15.10.0           RP-88         RP-201160         0294         1         F         Carrection to the serving cell number for ENDC power class         15.10.0           RP-88         RP-201160         0294         1         F         Carrection to null capability report for SRS only Scell         15.10.0           RP-88         RP-201162         0300         1         F         Clarification on L2 and RAN4 feature of NGEN-DC and NE-DC         15.10.0           RP-88         RP-201163         0311         1         F         Invalidating bandwidth class F for FR1         15.10.0           RP-88		RP-87		0248	2	F		
RP-87         RP-200335         0255         2         F         Miscellaneous Corrections to UE capability parameters         15.9.0           07/2020         RP-88         RP-201161         0176         7         F         Default values for UE capability         15.10.0           07/2020         RP-88         RP-201163         0262         3         F         Corrections on the number of DRBs         15.10.0           RP-88         RP-201163         0262         1         F         Corrections on the number of DRBs         15.10.0           RP-88         RP-201163         0287         2         F         Correction to the serving cell number for ENDC power class         15.10.0           RP-88         RP-201160         0294         1         F         SRS Capability report for SRS only Scell         15.10.0           RP-88         RP-201160         0294         1         F         Clarification on L1 feature of NGEN-DC and NE-DC         15.10.0           RP-88         RP-201163         0303         1         F         Correction on UE capability end trave of NGEN-DC and NE-DC         15.10.0           RP-88         RP-201163         0311         1         F         Invalidating bandwidth class F for FR1         15.10.0           RP-88         RP-201162<		RP-87	RP-200334	0254	1	F		
07/2020         RP-88         RP-201161         0176         7         F         Default values for UE capability         15.10.0           RP-88         RP-201163         0262         3         F         Corrections on the number of DRBs         15.10.0           RP-88         RP-201159         0264         1         F         Clarification on supported NR-DC cell grouping         15.10.0           RP-88         RP-201160         0294         1         F         Correction to the serving cell number for ENDC power class         15.10.0           RP-88         RP-201160         0294         1         F         SRS capability report for SRS only Scell         15.10.0           RP-88         RP-201160         0294         1         F         Clarification on L2 and RAN4 feature of NGEN-DC and NE-DC         15.10.0           RP-88         RP-201163         0303         1         F         Correction on UE capability with xDD and FRx differentiations         15.10.0           RP-88         RP-201163         0311         1         F         Invalidating bandwidth class F for FR1         15.10.0           RP-88         RP-201162         0317         1         F         Missing 'UE capability requirements         15.10.0           RP-88         RP-201164				0255	2	F		15.9.0
RP-88         RP-201163         0262         3         F         Corrections on the number of DRBs         15.10.0           RP-88         RP-201159         0264         1         F         Clarification on supported NR-DC cell grouping         15.10.0           RP-88         RP-201163         0287         2         F         Correction to the serving cell number for ENDC power class         15.10.0           RP-88         RP-201160         0294         1         F         SRS Capability report for SRS only Scell         15.10.0           RP-88         RP-201162         0300         1         F         Clarification on L1 feature of NGEN-DC and NE-DC         15.10.0           RP-88         RP-201163         0303         1         F         Correction on UE capabilities with xDD and FRx differentiations         15.10.0           RP-88         RP-201163         0311         1         F         Invalidating bandwidth class F for FR1         15.10.0           RP-88         RP-201163         0317         1         F         Missing "Optional features without UE radio access capability         15.10.0           RP-88         RP-201164         0325         2         F         Correction on UE capability constraints         15.10.0           RP-88         RP-201160 <td< td=""><td></td><td>RP-87</td><td>RP-200335</td><td>0259</td><td></td><td>F</td><td>UE capability of intra-band requirements for inter-band EN-DC/NE-DC</td><td>15.9.0</td></td<>		RP-87	RP-200335	0259		F	UE capability of intra-band requirements for inter-band EN-DC/NE-DC	15.9.0
RP-88         RP-201159         0264         1         F         Clarification on supported NR-DC cell grouping         15.10.0           RP-88         RP-201163         0287         2         F         Correction to the serving cell number for ENDC power class         15.10.0           RP-88         RP-201160         0294         1         F         SRS Capability report for SRS only Scell         15.10.0           RP-88         RP-201159         0298         -         F         Clarification on L1 feature of NGEN-DC and NE-DC         15.10.0           RP-88         RP-201162         0300         1         F         Clarification on L2 and RAN4 feature of NGEN-DC and NE-DC         15.10.0           RP-88         RP-201163         0311         1         F         Correction on UE capabilities with xDD and FRx differentiations         15.10.0           RP-88         RP-201162         0317         1         F         Missing "Optional features without UE radio access capability for parameters"         15.10.0           RP-88         RP-201164         0325         2         F         Correction on UE capability requirements         15.10.0           RP-88         RP-201160         0332         -         F         on the capability of Basic CSI feedback (2-32)         15.10.0	07/2020	RP-88			7	F	Default values for UE capability	
RP-88         RP-201163         0287         2         F         Correction to the serving cell number for ENDC power class         15.10.0           RP-88         RP-201160         0294         1         F         SRS Capability report for SRS only Scell         15.10.0           RP-88         RP-201159         0298         -         F         Clarification on L1 feature of NGEN-DC and NE-DC         15.10.0           RP-88         RP-201162         0300         1         F         Clarification on L2 and RAN4 feature of NGEN-DC and NE-DC         15.10.0           RP-88         RP-201163         0331         1         F         Correction on UE capabilities with xDD and FRx differentiations         15.10.0           RP-88         RP-201163         0311         1         F         Invalidating bandwidth class F for FR1         15.10.0           RP-88         RP-201163         0319         1         F         Missing "Optional features without UE radio access capability parameters"         15.10.0           RP-88         RP-201164         0325         2         F         Correction on UE capability constraints         15.10.0           RP-88         RP-201160         0332         -         F         on the capability of Basic CSI feedback (2-32)         15.10.0           RP-88		RP-88	RP-201163	0262	3	F	Corrections on the number of DRBs	15.10.0
RP-88         RP-201163         0287         2         F         Correction to the serving cell number for ENDC power class         15.10.0           RP-88         RP-201160         0294         1         F         SRS Capability report for SRS only Scell         15.10.0           RP-88         RP-201159         0298         -         F         Clarification on L1 feature of NGEN-DC and NE-DC         15.10.0           RP-88         RP-201162         0300         1         F         Clarification on L2 and RAN4 feature of NGEN-DC and NE-DC         15.10.0           RP-88         RP-201163         0331         1         F         Correction on UE capabilities with xDD and FRx differentiations         15.10.0           RP-88         RP-201163         0311         1         F         Invalidating bandwidth class F for FR1         15.10.0           RP-88         RP-201163         0319         1         F         Missing "Optional features without UE radio access capability parameters"         15.10.0           RP-88         RP-201164         0325         2         F         Correction on UE capability constraints         15.10.0           RP-88         RP-201160         0332         -         F         on the capability of Basic CSI feedback (2-32)         15.10.0           RP-88			RP-201159		1			
RP-88         RP-201159         0298         -         F         Clarification on L1 feature of NGEN-DC and NE-DC         15.10.0           RP-88         RP-201162         0300         1         F         Clarification on L2 and RAN4 feature of NGEN-DC and NE-DC         15.10.0           RP-88         RP-201163         0303         1         F         Correction on UE capabilities with xDD and FRx differentiations         15.10.0           RP-88         RP-201163         0311         1         F         Invalidating bandwidth class F for FR1         15.10.0           RP-88         RP-201162         0317         1         F         Missing 'Optional features without UE radio access capability is parameters''         15.10.0           RP-88         RP-201163         0319         1         F         Missing 'Optional features without UE radio access capability is follow         15.10.0           RP-88         RP-201164         0325         2         F         Correction on UE capability constraints         15.10.0           RP-88         RP-201160         0332         -         F         on the capability of Basic CSI feedback (2-32)         15.10.0           RP-88         RP-201161         0342         1         F         Clarification on maximum number of supported PDSCH Resource Element mapping patterns					2		Correction to the serving cell number for ENDC power class	15.10.0
RP-88         RP-201159         0298         -         F         Clarification on L1 feature of NGEN-DC and NE-DC         15.10.0           RP-88         RP-201162         0300         1         F         Clarification on L2 and RAN4 feature of NGEN-DC and NE-DC         15.10.0           RP-88         RP-201163         0303         1         F         Correction on UE capabilities with xDD and FRx differentiations         15.10.0           RP-88         RP-201163         0311         1         F         Invalidating bandwidth class F for FR1         15.10.0           RP-88         RP-201162         0317         1         F         Missing 'Optional features without UE radio access capability is parameters''         15.10.0           RP-88         RP-201163         0319         1         F         Missing 'Optional features without UE radio access capability is follow         15.10.0           RP-88         RP-201164         0325         2         F         Correction on UE capability constraints         15.10.0           RP-88         RP-201160         0332         -         F         on the capability of Basic CSI feedback (2-32)         15.10.0           RP-88         RP-201161         0342         1         F         Clarification on maximum number of supported PDSCH Resource Element mapping patterns			RP-201160	0294	1	F	SRS Capability report for SRS only Scell	
RP-88         RP-201163         0303         1         F         Correction on UE capabilities with xDD and FRx differentiations         15.10.0           RP-88         RP-201163         0311         1         F         Invalidating bandwidth class F for FR1         15.10.0           RP-88         RP-201162         0317         1         F         Invalidating bandwidth class F for FR1         15.10.0           RP-88         RP-201163         0319         1         F         Missing "Optional features without UE radio access capability 15.10.0           RP-88         RP-201164         0325         2         F         Correction on UE capability requirements         15.10.0           RP-88         RP-201160         0332         -         F         on the capability of Basic CSI feedback (2-32)         15.10.0           RP-88         RP-201161         0342         1         F         Clarification on the support of IMS voice over split bearer for NR-DC and NE-DC         15.10.0           RP-88         RP-201161         0342         1         F         Clarification on maximum number of supported PDSCH Resource Element mapping patterns         15.10.0           RP-88         RP-201161         0342         1         F         UE capability Enhancement for FR1(TDD/FDD) / FR2 CA and DC         15.10.0 <t< td=""><td></td><td></td><td></td><td></td><td>-</td><td></td><td></td><td></td></t<>					-			
RP-88RP-20116303111FInvalidating bandwidth class F for FR115.10.0RP-88RP-20116203171FMissing "Optional features without UE radio access capability parameters"15.10.0RP-88RP-20116303191FMissing UE capability requirements15.10.0RP-88RP-20116403252FCorrection on UE capability constraints15.10.0RP-88RP-2011600332-Fon the capability of Basic CSI feedback (2-32)15.10.0RP-88RP-20116203381FClarification on the support of IMS voice over split bearer for NR-DC and NE-DC15.10.0RP-88RP-20116103421FClarification on maximum number of supported PDSCH Resource Element mapping patterns15.10.0RP-88RP-20116103471FUE Capability Enhancement for FR1(TDD/FDD) / FR2 CA and DC15.10.0RP-88RP-2011610352-FCR on unnecessary XDD FRX differentiation15.10.0RP-88RP-2011620354-FClarification to maxUplinkDutyCycle-FR215.10.0RP-88RP-20116303591FClarification on UE capability signalling for simultaneous SRS antenna15.10.0								
RP-88RP-20116203171FMissing "Optional features without UE radio access capability parameters"15.10.0RP-88RP-20116303191FMissing UE capability requirements15.10.0RP-88RP-20116403252FCorrection on UE capability constraints15.10.0RP-88RP-2011600332-Fon the capability of Basic CSI feedback (2-32)15.10.0RP-88RP-20116203381FClarification on the support of IMS voice over split bearer for NR-DC and NE-DC15.10.0RP-88RP-20116103421FClarification on maximum number of supported PDSCH Resource Element mapping patterns15.10.0RP-88RP-20116103452FIntroduction of CGI reporting capabilities15.10.0RP-88RP-20116103471FUE Capability Enhancement for FR1(TDD/FDD) / FR2 CA and DC15.10.0RP-88RP-2011610352-FCR on unnecessary XDD FRX differentiation15.10.0RP-88RP-2011620354-FClarification to maxUplinkDutyCycle-FR215.10.0RP-88RP-20116303591FCorrection on UE capability signalling for simultaneous SRS antenna15.10.0		RP-88			1			
RP-88RP-20116303191FMissing UE capability requirements15.10.0RP-88RP-20116403252FCorrection on UE capability constraints15.10.0RP-88RP-2011600332-Fon the capability of Basic CSI feedback (2-32)15.10.0RP-88RP-20116203381FClarification on the support of IMS voice over split bearer for NR-DC and NE-DC15.10.0RP-88RP-20116103421FClarification on maximum number of supported PDSCH Resource Element mapping patterns15.10.0RP-88RP-20116403452FIntroduction of CGI reporting capabilities15.10.0RP-88RP-20116103471FUE Capability Enhancement for FR1(TDD/FDD) / FR2 CA and DC15.10.0RP-88RP-2011610352-FCR on unnecessary XDD FRX differentiation15.10.0RP-88RP-2011620354-FClarification to maxUplinkDutyCycle-FR215.10.0RP-88RP-20116303591FCorrection on UE capability signalling for simultaneous SRS antenna15.10.0								
RP-88RP-20116403252FCorrection on UE capability constraints15.10.0RP-88RP-2011600332-Fon the capability of Basic CSI feedback (2-32)15.10.0RP-88RP-20116203381FClarification on the support of IMS voice over split bearer for NR-DC15.10.0RP-88RP-20116103421FClarification on maximum number of supported PDSCH Resource Element mapping patterns15.10.0RP-88RP-20116403452FIntroduction of CGI reporting capabilities15.10.0RP-88RP-20116103471FUE Capability Enhancement for FR1(TDD/FDD) / FR2 CA and DC15.10.0RP-88RP-2011610352-FCR on unnecessary XDD FRX differentiation15.10.0RP-88RP-2011620354-FClarification to maxUplinkDutyCycle-FR215.10.0RP-88RP-20116303591FCorrection on UE capability signalling for simultaneous SRS antenna15.10.0		RP-88	RP-201162	0317	1	F		15.10.0
RP-88RP-20116403252FCorrection on UE capability constraints15.10.0RP-88RP-2011600332-Fon the capability of Basic CSI feedback (2-32)15.10.0RP-88RP-20116203381FClarification on the support of IMS voice over split bearer for NR-DC15.10.0RP-88RP-20116103421FClarification on maximum number of supported PDSCH Resource Element mapping patterns15.10.0RP-88RP-20116403452FIntroduction of CGI reporting capabilities15.10.0RP-88RP-20116103471FUE Capability Enhancement for FR1(TDD/FDD) / FR2 CA and DC15.10.0RP-88RP-2011610352-FCR on unnecessary XDD FRX differentiation15.10.0RP-88RP-2011620354-FClarification to maxUplinkDutyCycle-FR215.10.0RP-88RP-20116303591FCorrection on UE capability signalling for simultaneous SRS antenna15.10.0			RP-201163	0319		F	Missing UE capability requirements	15.10.0
RP-88RP-2011600332-Fon the capability of Basic CSI feedback (2-32)15.10.0RP-88RP-20116203381FClarification on the support of IMS voice over split bearer for NR-DC and NE-DC15.10.0RP-88RP-20116103421FClarification on maximum number of supported PDSCH Resource Element mapping patterns15.10.0RP-88RP-20116403452FIntroduction of CGI reporting capabilities15.10.0RP-88RP-20116103471FUE Capability Enhancement for FR1(TDD/FDD) / FR2 CA and DC15.10.0RP-88RP-2011610352-FCR on unnecessary XDD FRX differentiation15.10.0RP-88RP-2011620354-FClarification to maxUplinkDutyCycle-FR215.10.0RP-88RP-20116303591FCorrection on UE capability signalling for simultaneous SRS antenna15.10.0				0325	2	F	Correction on UE capability constraints	15.10.0
RP-88RP-20116103421FClarification on maximum number of supported PDSCH Resource Element mapping patterns15.10.0RP-88RP-20116403452FIntroduction of CGI reporting capabilities15.10.0RP-88RP-20116103471FUE Capability Enhancement for FR1(TDD/FDD) / FR2 CA and DC15.10.0RP-88RP-2011610352-FCR on unnecessary XDD FRX differentiation15.10.0RP-88RP-2011620354-FClarification to maxUplinkDutyCycle-FR215.10.0RP-88RP-20116303591FCorrection on UE capability signalling for simultaneous SRS antenna15.10.0		RP-88		0332		_		15.10.0
RP-88RP-20116103421FClarification on maximum number of supported PDSCH Resource Element mapping patterns15.10.0RP-88RP-20116403452FIntroduction of CGI reporting capabilities15.10.0RP-88RP-20116103471FUE Capability Enhancement for FR1(TDD/FDD) / FR2 CA and DC15.10.0RP-88RP-2011610352-FCR on unnecessary XDD FRX differentiation15.10.0RP-88RP-2011620354-FClarification to maxUplinkDutyCycle-FR215.10.0RP-88RP-20116303591FCorrection on UE capability signalling for simultaneous SRS antenna15.10.0		RP-88	RP-201162	0338	1	F	and NE-DC	15.10.0
RP-88         RP-201164         0345         2         F         Introduction of CGI reporting capabilities         15.10.0           RP-88         RP-201161         0347         1         F         UE Capability Enhancement for FR1(TDD/FDD) / FR2 CA and DC         15.10.0           RP-88         RP-201161         0352         -         F         CR on unnecessary XDD FRX differentiation         15.10.0           RP-88         RP-201162         0354         -         F         Clarification to maxUplinkDutyCycle-FR2         15.10.0           RP-88         RP-201163         0359         1         F         Correction on UE capability signalling for simultaneous SRS antenna         15.10.0		RP-88	RP-201161	0342	1	F	Clarification on maximum number of supported PDSCH Resource	15.10.0
RP-88         RP-201161         0347         1         F         UE Capability Enhancement for FR1(TDD/FDD) / FR2 CA and DC         15.10.0           RP-88         RP-201161         0352         -         F         CR on unnecessary XDD FRX differentiation         15.10.0           RP-88         RP-201162         0354         -         F         Clarification to maxUplinkDutyCycle-FR2         15.10.0           RP-88         RP-201163         0359         1         F         Correction on UE capability signalling for simultaneous SRS antenna         15.10.0		RP-88	RP-201164	0345	2	F	Introduction of CGI reporting capabilities	15.10.0
RP-88         RP-201161         0352         -         F         CR on unnecessary XDD FRX differentiation         15.10.0           RP-88         RP-201162         0354         -         F         Clarification to maxUplinkDutyCycle-FR2         15.10.0           RP-88         RP-201163         0359         1         F         Correction on UE capability signalling for simultaneous SRS antenna         15.10.0					1			
RP-88         RP-201162         0354         -         F         Clarification to maxUplinkDutyCycle-FR2         15.10.0           RP-88         RP-201163         0359         1         F         Correction on UE capability signalling for simultaneous SRS antenna         15.10.0					-			
RP-88 RP-201163 0359 1 F Correction on UE capability signalling for simultaneous SRS antenna 15.10.0					-			
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	RP-88	RP-201187	0361	-	В	CR on introduction of BCS to asymmetric channel bandwidths (38.306)	15.10.0
09/2020	RP-89	RP-201938	0377	1	F	Corrections on UE capability constraints	15.11.0
	RP-89	RP-201937	0386	1	F	Clarification on PDSCH rate-matching capabilities	15.11.0
	RP-89	RP-201937	0388	2	F	Corrections on the capabilities associated with multiple bands/Cells	15.11.0
	RP-89	RP-201938	0403	2	F	Clarification on the extended capability of NGEN-DC	15.11.0
12/2020	RP-90	RP-202790	0418	2	F	CR to clarify UE capability in case of Cross-Carrier operation	15.12.0
	RP-90	RP-202789	0438	1	F	Clarification on the inter-frequency handover capability	15.12.0
	RP-90	RP-202789	0440	-	F	Clarification on NE-DC for bandwidth combination set	15.12.0
	RP-90	RP-202790	0452	1	F	Removing contradiction on number of FSpUCC and FSpDCC	15.12.0
	RP-90	RP-202789	0460	-	F	Clarification on UE capabilities with FDD/TDD differentiation	15.12.0
	RP-90	RP-202790	0475	-	F	Dummify UE capability of crossCarrierScheduling-OtherSCS	15.12.0
	RP-90	RP-202789	0478	1	F	Clarification for multipleCORESET	15.12.0
	RP-90	RP-202881	0480	-	F	CR to 38.306 on handling of fallbacks for FR2 CA	15.12.0
03/2021	RP-91	RP-210697	0488	2	F	Correction on beamSwitchTiming capability	15.13.0
	RP-91	RP-210701	0499	-	F	Dummy the capability bit v2x-EUTRA	15.13.0
	RP-91	RP-210703	0504	2	F	Clarification to LCP restrictions	15.13.0
	RP-91	RP-210748	0511	2	В	Support of 35 MHz and 45 MHz channel bandwidth for FR1	15.13.0
	RP-91	RP-210703	0515	2	F	CR on the SupportedBandwidth and channelBWs(R15)	15.13.0
	RP-91	RP-210702	0519	1	F	CR to clarify the definition of fallback per CC feature set	15.13.0
	RP-91	RP-210702	0522	1	F	Clarfication on FDD-TDD differentiation for SUL band	15.13.0
	RP-91	RP-210702	0524	1	F	Clarification on single uplink operation capability report	15.13.0
	RP-91	RP-210703	0535	-	F	Clarification on the capability of supportedNumberTAG	15.13.0
	RP-91	RP-210701	0536	1	F	Clarification on the supportedBandwidthCombinationSetIntraENDC capability	15.13.0
06/2021	RP-92	RP-211483	0544	2	F	CR on UE capability in case of Cross-Carrier operation	15.14.0
	RP-92	RP-211483	0549	2	F	Correction to BWP capabilities	15.14.0
	RP-92	RP-211482	0565	2	F	CR on the supportedBandwidthCombinationSet-R15	15.14.0
	RP-92	RP-211477	0567	3	В	CR on the 35M45M supporting-R15	15.14.0
	RP-92	RP-211483	0593	-	F	Correction to the use of simultaneous CSI-RS resources	15.14.0
	RP-92	RP-211478	0595	1	F	Clarification on BCS of a fallback band combination	15.14.0
	RP-92	RP-211478	0598	1	F	Further clarification on supportedNumberTAG	15.14.0
	RP-92	RP-211478	0607	1	F	Clarification on maximum number of TCI-state for PDSCH	15.14.0

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