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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 25.306: "UE radio access capabilities".
- [21] 3GPP TS 38.304: "User Equipment (UE) procedures in Idle mode and RRC Inactive state".
- [22] 3GPP TS 37.355: " LTE Positioning Protocol (LPP)".
- [23] 3GPP TS 38.340: "NR; Backhaul Adaptation Protocol (BAP) specification".
- [24] 3GPP TR 38.822: "NR; User Equipment (UE) feature list".
- [25] 3GPP TS 37.324: "E-UTRA and NR; Service Data Adaptation Protocol (SDAP) specification"
- [26] 3GPP TS 38.314: "NR; Layer 2 Measurements".
- [27] 3GPP TS 36.133: "Evolved Universal Terrestrial Radio Access (E-UTRA); Requirements for support of radio resource management".
- [28] 3GPP TS 38.300: "NR; NR and NG-RAN Overall Description; Stage-2".

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 Uu band combination that would result from another Uu band combination (parent band combination) by releasing at least one SCell or uplink configuration of SCell, or SCG, or SUL. A PC5 band combination that would result from another PC5 band combination (parent band combination) by releasing at least one sidelink carrier. 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 same or lower capabilities than the capabilities of UE (e.g. supported MIMO layers, BW, modulation order) while keeping the numerology 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
MaxSLtxDataRate:	Maximum SL data rate in transmission
MaxSLrxDataRate:	Maximum SL data rate in reception

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].

BAP	Backhaul Adaptation Protocol
BC	Band Combination
BT	Bluetooth

DAPS	Dual Active Protocol Stack
DL	Downlink
EHC	Ethernet Header Compression
FS	Feature Set
FSPC	Feature Set Per Component-carrier
IAB-MT	Integrated Access Backhaul Mobile Termination
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
WLAN	Wireless Local Area Network

4 UE radio access capability parameters

4.1 Supported max data rate

4.1.1 General

The DL, UL and SL 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. A UE supporting NR sidelink communication shall support the calculated SL max data rate defined in 4.1.5.

4.1.2 Supported max data rate for DL/UL

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.

 μ is the numerology (as defined in TS 38.211 [6])

 T_s^{μ} is the average OFDM symbol duration in a subframe for numerology μ , 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 μ , 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 1: Only one of the UL or SUL carriers (the one with the higher data rate) is counted for a cell operating SUL.
- NOTE 2: For UL Tx switching between carriers, only the supported MIMO layer combination across carriers that results in the highest combined data rate is counted for the carriers in the supported maximum UL data rate.

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 3: 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 for DL/UL

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

4.1.5 Supported max data rate for SL

For NR sidelink, the approximate data rate is computed as follows.

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

wherein

 $R_{max} = 948/1024$,

 v_{Layers} is the the maximum number of supported layers for sidelink transmission (or reception) given by UE capability on supporting rank 2 PSSCH transmission and higher layer parameter *rankTwoReception*, Q_m is the maximum supported modulation order between 6 or 8 given by higher layer parameter *sl*-*Tx*-256QAM and *sl*-*Rx*-256QAM,

f is the scaling factor for sidelink transmission and reception given by higher layer parameter *scalingFactorTxSidelink* and *scalingFactorRxSidelink* respectively, as specified in TS 36.331 [17] and TS 38.331 [9], and can take the values 1, 0.8, 0.75, and 0.4. μ is the numerology (as defined in TS 38.211 [6])

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

normal cyclic prefix is assumed.

 $N_{PRB}^{BW,\mu}$ is the maximum possible RB allocation in bandwidth BW for PSSCH, where BW is the UE supported maximum bandwidth in the given band or band combination, *OH* is the overhead and takes the following values

0.217, for frequency range FR1 for SL 0.25, for frequency range FR2 for SL

4.1.6 Total layer 2 buffer size for NR SL

The total layer 2 buffer size for NR sidelink communication 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 for NR sidelink communication.

The required total layer 2 buffer size for NR sidelink communication is the maximum value of the calculated values based on the following equations:

MaxSLtxDataRate * RLC RTT + MaxSLrxDataRate * 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 for NR sidelink communication 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 NR sidelink band combinations. The RLC RTT for NR sidelink communication corresponds to the smallest SCS numerology supported in the band combination and the applicable Feature Set combination.

wherein

RLC RTT for NR sidelink communication is defined in Table 4.1.6-1

SCS (kHz)	RLC RTT (ms)
15KHz	200
30KHz	100
60KHz	50
120KHz	25

Table 4.1.6-1: RLC RTT for NR sidelink communication 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.

For capabilities that required to be set consistently for all FDD-FR1 bands (i.e. capabilities that are supposed to be per UE), the UE shall also set capability values for all SUL bands with same values for FDD-FR1 bands if SUL band is supported by 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/Sidelink-Capabilities, tdd-Add-UE-NR/MRDC/Sidelink-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/SidelinkParameters:
 - 3> include field fdd-Add-UE-NR/MRDC/Sidelink-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/SidelinkParameters:
 - 3> include field tdd-Add-UE-NR/MRDC/Sidelink-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	M	FDD- TDD DIFF	FR1- FR2 DIFF
accessStratumRelease	UE	Yes	No	No
Indicates the access stratum release the UE supports as specified in TS 38.331 [9]. <i>delayBudgetReporting</i> Indicates whether the UE supports delay budget reporting as specified in TS 38.331	UE	No	No	No
[9]. <i>dI-DedicatedMessageSegmentation-r16</i> Indicates whether the UE supports reception of segmented DL RRC messages.	UE	No	No	No
<i>drx-Preference-r16</i> Indicates whether the UE supports providing its preference of a cell group on DRX	UE	No	No	No
parameters for power saving in RRC_CONNECTED, as specified in TS 38.331 [9]. <i>inactiveState</i> Indicates whether the UE supports RRC_INACTIVE as specified in TS 38.331 [9].	UE	Yes	No	No
<i>inDeviceCoexInd-r16</i> Indicates whether the UE supports IDC (In-Device Coexistence) assistance information as specified in TS 38.331 [9].	UE	No	No	No
maxBW-Preference-r16 Indicates whether the UE supports providing its preference of a cell group on the maximum aggregated bandwidth for power saving in RRC_CONNECTED, as specified in TS 38.331 [9].	UE	No	No	Yes
maxCC-Preference-r16 Indicates whether the UE supports providing its preference of a cell group on the maximum number of secondary component carriers for power saving in RRC_CONNECTED, as specified in TS 38.331 [9].	UE	No	No	No
<i>maxMIMO-LayerPreference-r16</i> Indicates whether the UE supports providing its preference of a cell group on the maximum number of MIMO layers for power saving in RRC_CONNECTED, as specified in TS 38.331 [9].	UE	No	No	Yes
<i>mcgRLF-RecoveryViaSCG-r16</i> Indicates whether the UE supports recovery from MCG RLF via split SRB1 (if supported) and via SRB3 (if supported) as specified in TS 38.331[9].	UE	No	No	No
<i>minSchedulingOffsetPreference-r16</i> Indicates whether the UE supports providing its preference on the minimum scheduling offset for cross-slot scheduling of the cell group for power saving in RRC_CONNECTED, as specified in TS 38.331 [9].	UE	No	No	No
<i>mpsPriorityIndication-r16</i> Indicates whether the UE supports <i>mpsPriorityIndication</i> on RRC release with redirect as defined in TS 38.331 [9].	UE	No	No	No
onDemandSIB-Connected-r16 Indicates whether the UE supports the on-demand request procedure of SIB(s) or posSIB(s) while in RRC_CONNECTED, as specified in TS 38.331 [9].	UE	No	No	No
overheatingInd Indicates whether the UE supports overheating assistance information.	UE	No	No	No
<i>partialFR2-FallbackRX-Req</i> 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>redirectAtResumeByNAS-r16</i> Indicates whether the UE supports reception of <i>redirectedCarrierInfo</i> in an <i>RRCRelease</i> message in response to an <i>RRCResumeRequest</i> or <i>RRCResumeRequest1</i> which is triggered by the NAS layer, as specified in TS 38.331 [9].	UE	No	No	No
reducedCP-Latency Indicates whether the UE supports reduced control plane latency as defined in TS 38.331 [9]	UE	No	No	No
<i>referenceTimeProvision-r16</i> Indicates whether the UE supports provision of referenceTimeInfo in <i>DLInformationTransfer</i> message and in SIB9 and reference time information preference indication via assistance information, as specified in TS 38.331 [9].	UE	No	No	No
<i>releasePreference-r16</i> Indicates whether the UE supports providing its preference assistance information to transition out of RRC_CONNECTED for power saving, as specified in TS 38.331 [9].	UE	No	No	No

resumeWithStoredMCG-SCells-r16	UE	No	No	No
Indicates whether the UE supports not deleting the stored MCG SCell configuration				
when initiating the resume procedure.				
resumeWithStoredSCG-r16	UE	No	No	No
Indicates whether the UE supports not deleting the stored SCG configuration when				
initiating resume. The UE which indicates support for resumeWithStoredSCG-r16				
shall also indicate support for resumeWithSCG-Config-r16.				
resumeWithSCG-Config-r16	UE	No	No	No
Indicates whether the UE supports (re-)configuration of an SCG during the resume				
procedure.				
splitSRB-WithOneUL-Path	UE	No	No	No
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).				
splitDRB-withUL-Both-MCG-SCG	UE	Yes	No	No
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).				
srb3	UE	Yes	No	No
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 UE-MRDC-CapabilityAddXDD-Mode).				
This field is not applied to NE-DC.				

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>continueEHC-Context-r16</i> Indicates that the UE supports EHC context continuation operation where the UE keeps the established EHC context(s) upon PDCP re-establishment, as specified in TS 38.323 [16].	UE	No	No
<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>ehc-r16</i> Indicates that the UE supports Ethernet header compression and decompression using EHC protocol, as specified in TS 38.323 [16]. The UE indicating this capability and indicating support for at least one ROHC profile, shall support simultaneous configuration of EHC and ROHC on different DRBs.	UE	No	No
extendedDiscardTimer-r16 Indicates whether the UE supports the additional values of PDCP discard timer. The supported additional values are 0.5ms, 1ms, 2ms, 4ms, 6ms and 8ms, as specified in TS 38.331 [9].	UE	No	No
<i>jointEHC-ROHC-Config-r16</i> Indicates whether the UE supports simultaneous configuration of EHC and ROHC protocols for the same DRB.	UE	No	No
<i>maxNumberROHC-ContextSessions</i> Defines the maximum number of ROHC header compression context sessions supported by the UE, excluding context sessions that leave all headers uncompressed.	UE	No	No
maxNumberEHC-Contexts-r16 Defines the maximum number of Ethernet header compression contexts supported by the UE across all DRBs and across UE's EHC compressor and EHC decompressor. The indicated number defines the number of contexts in addition to CID = "all zeros" as specified in TS 38.323 [16].	UE	No	No
outOfOrderDelivery Indicates whether UE supports out of order delivery of data to upper layers by PDCP.	UE	No	No
pdcp-DuplicationMCG-OrSCG-DRB 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-DuplicationMoreThanTwoRLC-r16</i> Defines whether the UE supports PDCP duplication with more than two RLC entities as specified in TS 38.323 [16]. The UE supporting this feature supports secondary RLC entity(ies) activation and deactivation based on duplication RLC Activation/Deactivation MAC CE as specified in TS 38.321 [8]. A UE supporting this feature shall also support <i>pdcp-DuplicationMCG-OrSCG-DRB, pdcp-DuplicationSplitDRB, pdcp- DuplicationSplitSRB</i> and <i>pdcp-DuplicationSRB</i> .	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

supportedROHC-Profiles	UE	No	No
Defines which ROHC profiles from the list below are supported by the UE:			
 0x0000 ROHC No compression (RFC 5795) 			
 0x0001 ROHC RTP/UDP/IP (RFC 3095, RFC 4815) 			
- 0x0002 ROHC UDP/IP (RFC 3095, RFC 4815)			
- 0x0003 ROHC ESP/IP (RFC 3095, RFC 4815)			
- 0x0004 ROHC IP (RFC 3843, RFC 4815)			
- 0x0006 ROHC TCP/IP (RFC 6846)			
- 0x0101 ROHC RTP/UDP/IP (RFC 5225)			
- 0x0102 ROHC UDP/IP (RFC 5225)			
- 0x0103 ROHC ESP/IP (RFC 5225)			
- 0x0104 ROHC IP (RFC 5225)			
A UE that supports one or more of the listed ROHC profiles shall support ROHC profile			
0x0000 ROHC uncompressed (RFC 5795).			
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. uplinkOnlyROHC-Profiles	UE	No	No
		INO	INO
Indicates the ROHC profile(s) that are supported in uplink-only ROHC operation by the UE.			
- 0x0006 ROHC TCP (RFC 6846)			
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	M	FDD- TDD DIFF
am-WithShortSN	UE	Yes	No
Indicates whether the UE supports AM DRB with 12 bit length of RLC sequence number.			
extendedT-PollRetransmit-r16	UE	No	No
Indicates whether the UE supports the additional values of <i>T-PollRetransmit timer</i> . The			
supported additional values are 1ms, 2ms, 3ms and 4ms, as specified in TS 38.331 [9].			
extendedT-StatusProhibit-r16	UE	No	No
Indicates whether the UE supports the additional values of <i>T-StatusProhibit timer</i> . The			
supported additional values are 1ms, 2ms, 3ms and 4ms, as specified in TS 38.331 [9].			
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	M	FDD- TDD DIFF	FR1- FR2 DIFF
<i>autonomousTransmission-r16</i> Indicates whether the UE supports autonomous transmission of the MAC PDU generated for a deprioritized configured uplink grant as specified in TS 38.321 [8]. A UE supporting this feature shall also support <i>Ich-priorityBasedPrioritization-r16</i> .	UE	No	No	No
<i>directMCG-SCellActivation-r16</i> Indicates whether the UE supports direct NR MCG SCell activation, as specified in TS 38.321 [8], upon SCell addition, upon reconfiguration with sync of the MCG, as specified in TS 38.331 [9].	UE	No	No	Yes
<i>directMCG-SCellActivationResume-r16</i> Indicates whether the UE supports direct NR MCG SCell activation, as specified in TS 38.321 [8], upon reception of an <i>RRCResume</i> message, as specified in TS 38.331 [9].	UE	No	No	Yes
<i>directSCG-SCellActivation-r16</i> Indicates whether the UE supports direct NR SCG SCell activation, as specified in TS 38.321 [8], upon SCell addition and upon reconfiguration with sync of the SCG, both performed via an <i>RRCReconfiguration</i> message received via SRB3 or contained in an <i>RRC(Connection)Reconfiguration</i> message received via SRB1, as specified in TS 38.331 [9] and TS 36.331 [17]. A UE indicating support of <i>directSCG-SCellActivation-r16</i> shall indicate support of EN-DC or support of NGEN-DC as specified in TS 36.331 [17].	UE	No	No	Yes
 directSCG-SCellActivationResume-r16 Indicates whether the UE supports direct NR SCG SCell activation, as specified in TS 38.321 [8]: upon reception of an <i>RRCReconfiguration</i> included in an <i>RRCConnectionResume</i> message, as specified in TS 38.331 [9] and TS 36.331 [17], if the UE indicates support of EN-DC or NGEN-DC, and support of <i>resumeWithSCG-Config-r16</i> as specified in TS 38.331 [9], if the UE indicates support of NR-DC and of <i>resumeWithSCG-Config-r16</i> as specified in TS 38.331 [9], if the UE indicates support of NR-DC and of <i>resumeWithSCG-Config-r16</i> as specified in TS 38.331 [9]. A UE indicating support of <i>directSCG-SCellActivationResume-r16</i> shall indicate support of EN-DC or NGEN-DC and support of <i>resumeWithSCG-Config-r16</i> as specified in TS 36.331 [17] or indicate support of NR-DC and of <i>resumeWithSCG-Config-r16</i> as specified in TS 38.331 [9]. 	UE	No	No	Yes
 drx-Adaptation-r16 Indicates whether the UE supports DRX adaptation comprised of the following functional components: Configured <i>ps-Offset</i> for the detection of DCI format 2_6 with CRC scrambling by <i>ps</i>-RNTI and reported <i>MinTimeGap</i> before the start of <i>drx-onDurationTimer</i> of Long DRX Indication of UE whether or not to start <i>drx-onDurationTimer</i> for the next Long DRX cycle by detection of DCI format 2_6 Configured UE wakeup or not when DCI format 2_6 is not detected at all monitoring occasions outside Active Time Configured periodic CSI report apart from L1-RSRP (<i>ps-TransmitOtherPeriodicCSI</i>) when impacted by DCI format 2_6 that <i>drx-onDurationTimer</i> does not start for the next Long DRX cycle Configured periodic L1-RSRP report (<i>ps-TransmitPeriodicL1-RSRP</i>) when impacted by DCI format 2_6 that <i>drx-onDurationTimer</i> does not start for the next Long DRX cycle The capability signalling includes the minimum time gap between the end of the slot of last DCI format 2_6 monitoring occasion and the beginning of the slot where the UE would start the <i>drx-onDurationTimer</i> of Long DRX for each SCS. The value <i>sl1</i> indicates 1 slot. The value <i>sl2</i> indicates 2 slots, and so on. Support of this feature is reported for licensed and unlicensed bands, respectively. When this field is reported, either of <i>sharedSpectrumChAccess-r16</i> or <i>non-SharedSpectrumChAccess-r16</i> shall 	UE	No	No	Yes
be reported, at least. enhancedSkipUplinkTxConfigured-r16 Indicates whether the UE supports skipping UL transmission for a configured uplink grant only if no data is available for transmission and no UCI is multiplexed on the corresponding PUSCH of the uplink grant as specified in TS 38.321 [8].	UE	No	Yes	No

enhancedSkipUplinkTxDynamic-r16	UE	No	Yes	No
Indicates whether the UE supports skipping UL transmission for an uplink grant				
addressed to a C-RNTI only if no data is available for transmission and no UCI is				
multiplexed on the corresponding PUSCH of the uplink grant as specified in TS				
38.321 [8].				
Ich-PriorityBasedPrioritization-r16	UE	No	No	No
ndicates whether the UE supports prioritization between overlapping grants and				
between scheduling request and overlapping grants based on LCH priority as				
specified in TS 38.321 [8].				
lch-ToConfiguredGrantMapping-r16	UE	No	No	No
ndicates whether the UE supports restricting data transmission from a given LCH to a				
configured (sub-) set of configured grant configurations (see allowedCG-List-r16 in				
LogicalChannelConfig in TS 38.331 [9]) as specified in TS 38.321 [8].				
Ich-ToGrantPriorityRestriction-r16	UE	No	No	No
ndicates whether the UE supports restricting data transmission from a given LCH to a				
configured (sub-) set of dynamic grant priority levels (see allowedPHY-PriorityIndex-				
r16 in LogicalChannelConfig in TS 38.331 [9]) as specified in TS 38.321 [8].				
ch-ToSCellRestriction	UE	No	No	No
ndicates whether the UE supports restricting data transmission from a given LCH to a				
configured (sub-) set of serving cells (see allowedServingCells in				
LogicalChannelConfig). A UE supporting pdcp-DuplicationMCG-OrSCG-DRB or pdcp-				
DuplicationSRB (see PDCP-Config) shall also support Ich-ToSCellRestriction.				
cp-Restriction	UE	No	No	No
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> ,				
maxPUSCH-Duration, and configuredGrantType1Allowed as specified in TS 38.321				
8].				
logicalChannelSR-DelayTimer	UE	No	Yes	No
ndicates whether the UE supports the <i>logicalChannelSR-DelayTimer</i> as specified in			100	
TS 38.321 [8].				
longDRX-Cycle	UE	Yes	Yes	No
ndicates whether UE supports long DRX cycle as specified in TS 38.321 [8].		100	103	
multipleConfiguredGrants	UE	No	Yes	No
Indicates whether UE supports more than one configured grant configurations			103	
(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. multipleSR-Configurations		Na	Vaa	Na
	UE	No	Yes	No
Indicates whether the UE supports 8 SR configurations per PUCCH cell group as				
specified in TS 38.321 [8].				
recommendedBitRate	UE	No	No	No
Indicates whether the UE supports the bit rate recommendation message from the				
gNB to the UE as specified in TS 38.321 [8].				
recommendedBitRateMultiplier-r16	UE	No	No	No
Indicates whether the UE supports the bit rate multiplier for recommended bit rate				
MAC CE as specified in TS 38.321 [8], clause 6.1.3.20. This field is only applicable if				
he UE supports recommendedBitRate.				
recommendedBitRateQuery	UE	No	No	No
ndicates whether the UE supports the bit rate recommendation query message from				1
he UE to the gNB as specified in TS 38.321 [8]. This field is only applicable if the UE				1
supports recommendedBitRate.			ļ	
secondaryDRX-Group-r16	UE	No	Yes	Nc
ndicates whether UE supports secondary DRX group as specified in TS 38.321 [8].				
shortDRX-Cycle	UE	Yes	Yes	No
ndicates whether UE supports short DRX cycle as specified in TS 38.321 [8].				
singlePHR-P-r16	UE	No	No	No
ndicates whether UE supports the P bit in single PHR MAC CE as specified in TS				
		No	Yes	No
38.321 [8].	UE			
38.321 [8]. skipUplinkTxDynamic	UE			
38.321 [8]. skipUplinkTxDynamic ndicates whether the UE supports skipping of UL transmission for an uplink grant	UE			
Indicates whether UE supports the P bit in single PHR MAC CE as specified in TS 38.321 [8]. skipUplinkTxDynamic 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			
38.321 [8]. skipUplinkTxDynamic Indicates whether the UE supports skipping of UL transmission for an uplink grant ndicated on PDCCH if no data is available for transmission as specified in TS 38.321 8].			No	No
38.321 [8]. skipUplinkTxDynamic Indicates whether the UE supports skipping of UL transmission for an uplink grant	UE	No	No	No

srs-Resourceld-Ext-r16	UE	No	No	No
Indicates whether the UE supports the extended 6-bit (Positioning) SRS resource ID				
in SP Positioning SRS Activation/Deactivation MAC CE, as specified in TS 38.321 [8].				
tdd-MPE-P-MPR-Reporting-r16	UE	No	TDD	FR2
Indicates whether the UE supports P-MPR reporting for Maximum Permissible			only	only
Exposure, as specified in TS38.321 [8].			-	
ul-LBT-FailureDetectionRecovery-r16	UE	No	No	No
Indicates whether the UE supports consistent uplink LBT detection and recovery, as				
specified in TS 38.321 [8], for cells operating with shared spectrum channel access.				
This field applies to all serving cells with which the UE is configured with shared				
spectrum channel access.				

4.2.7 Physical layer parameters

4.2.7.1 *BandCombinationList* parameters

Definitions for parameters	Per	М	FDD- TDD DIFF	FR1- FR2 DIFF
<i>bandEUTRA</i> 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
ca-ParametersEUTRA Contains the EUTRA part of band combination parameters for a given (NG)EN-	BC	No	N/A	N/A
DC/NE-DC band combination. <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
<i>ca-ParametersNRDC</i> Indicates whether the UE supports NR-DC for the band combination. It contains the NR band combination parameters applicable across MCG and SCG. A UE indicating support for NR-DC shall support synchronous NR-DC 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
<i>featureSetCombination</i> 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
featureSetCombinationDAPS-r16 Indicates the feature set that the UE supports for DAPS handover on the NR band combination by FeatureSetCombinationId. A UE shall include this field if intra- frequency or inter-frequency DAPS handover is supported for this band combination. For a band entry where it indicates the support for intra-frequency DAPS handover, the UE shall include at least two CCs and shall support intra- frequency DAPS handover between any CC pair within the same band entry. If the number of CCs within a band combination is more than one and if inter-frequency DAPS handover is supported, UE shall support inter-frequency DAPS handover between every CC pair in the same or different band entries in the band combination, except for the CC pair within a band entry with bandwidth class A. A feature set including <i>intraFreqDAPS-r16</i> can only be referred to by <i>featureSetCombinationDAPS-r16</i> , not by <i>featureSetCombination</i> . A feature set without <i>intraFreqDAPS-r16</i> is only applied to inter-freq DAPS handover if it is referred to by <i>featureSetCombinationDAPS</i> . Both feature sets with and without <i>intraFreqDAPS-r16</i> can be referred to by the same <i>featureSetCombinationDAPS</i> -	BC	N/A	N/A	N/A

<i>intrabandConcurrentOperationPowerClass-r16</i> Indicates the power class, of a particular Uu band combination and the intra-band	BC	No	N/A	N/A
PC5 band combination(s) on which the UE supports simultaneous transmission (as				
indicated by supportedTxBandCombListPerBC-Sidelink-r16). The leading/leftmost				
value corresponds to the band combination of the particular Uu band combination				
and the first intra-band PC5 band combination included in				
BandCombinationListSidelinkEUTRA-NR which is indicated with value 1 by				
<i>supportedTxBandCombListPerBC-Sidelink-r16</i> , the next value corresponds to the band combination of the particular Uu band combination and the second intra-band				
PC5 band combination included in <i>BandCombinationListSidelinkEUTRA-NR</i> which				
is indicated with value 1 by supportedTxBandCombListPerBC-Sidelink-r16 and so				
on.				
mrdc-Parameters	BC	No	N/A	N/A
Contains the band combination parameters for a given (NG)EN-DC/NE-DC band				
combination.				
ne-DC-BC	BC	No	N/A	N/A
Indicates whether the UE supports NE-DC for the band combination.				
powerClass, powerClass-v1610	BC	No	N/A	FR1
Indicates power class the UE supports when operating according to this band				only
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]. This capability is not applicable to IAB-MT.				
powerClassNRPart-r16	BC	No	N/A	FR1
Indicates NR part power class the UE supports when operating according to this				only
band combination.				
This field only applies for MR-DC BCs containing only single CC or intra-band CA in				
NR side in this release.	D 0		N1/A	
scalingFactorTxSidelink-r16, scalingFactorRxSidelink-r16	BC	No	N/A	N/A
Indicates, for a particular Uu band combination, the scaling factor for the PC5 band combination(s) on which the UE supports simultaneous transmission/reception (as				
indicated by supportedTxBandCombListPerBC-Sidelink-r16/				
supportedRxBandCombListPerBC-Sidelink-r16). The leading / leftmost value				
corresponds to the first band combination included in				
BandCombinationListSidelinkEUTRA-NR which is indicated with value 1 by				
supportedTxBandCombListPerBC-Sidelink-r16 / supportedRxBandCombListPerBC-				
Sidelink-r16, the next value corresponds to the second band combination included				
in BandCombinationListSidelinkEUTRA-NR which is indicated with value 1 by				
supportedTxBandCombListPerBC-Sidelink-r16 / supportedRxBandCombListPerBC-				
<i>Sidelink-r16</i> and so on. For each value of <i>ScalingFactorSidelink-r16</i> , value f0p4 indicates the scaling factor 0.4, f0p75 indicates 0.75, and so on.				
SRS-SwitchingTimeNR	FD	No	N/A	N/A
Indicates the interruption time on DL/UL reception within a NR band pair during the				11/7
RF retuning for switching between a carrier on one band and another (PUSCH-less)				
carrier on the other band to transmit SRS. switchingTimeDL/ switchingTimeUL:				
n0us represents 0 us, n30us represents 30us, and so on. switchingTimeDL/				
switchingTimeUL 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.			N1/A	N1/A
SRS-SwitchingTimeEUTRA	FD	No	N/A	N/A
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> /				
switchingTimeUL: n0 represents 0 OFDM symbols, n0dot5 represents 0.5 OFDM				
symbols, n1 represents 1 OFDM symbol and so on. switchingTimeDL/				
		1		
<i>switchingTimeUL</i> is mandatory present if switching between the EUTRA band pair				

	BC	FD	N/A	N/A
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:				
- supportedSRS-TxPortSwitch indicates SRS Tx port switching pattern				
supported by the UE, which is mandatory with capability signaling. 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. supportedSRS-TxPortSwitch-v1610, which is				
optional to report, indicates downgrading configuration of SRS Tx port				
switching pattern. If the UE indicates the support of downgrading				
configuration of SRS Tx port switching pattern using supportedSRS-				
TxPortSwitch-v1610, the UE shall report the values for this as below, based				
on what is reported in supportedSRS-TxPortSwitch.				
supportedSRS-TxPortSwitch supportedSRS-TxPortSwitch-				
v1610				
t1r2 t1r1-t1r2				
t1r4 t1r1-t1r2-t1r4				
t2r4 t1r1-t1r2-t2r2-t2r4				
t2r2 t1r1-t2r2				
t4r4 t1r1-t2r2-t4r4				
t1r4-t2r4 t1r1-t1r2-t2r2-t1r4-t2r4				
 txSwitchImpactToRx indicates the entry number of the first-listed band with 				
UL (see NOTE) in the band combination that affects this DL, which is				
mandatory with capability signaling;				
t. Quitably it Another Danalis disates the astronomy of the first listed hand				
- <i>txSwitchWithAnotherBand</i> indicates the entry number of the first-listed band				
with UL (see NOTE) in the band combination that switches together with this				
UL, which is mandatory with capability signaling.				
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.				
The entry number is the band entry number in a band combination. The UE is				
restricted not to include fallback band combinations for the purpose of indicating				
different SRS antenna switching capabilities.				
different SRS antenna switching capabilities.				
different SRS antenna switching capabilities. NOTE: The first-listed band with UL includes a band associated with				
different SRS antenna switching capabilities. NOTE: The first-listed band with UL includes a band associated with FeatureSetUplinkId set to 0 corresponding to the support of SRS-				
different SRS antenna switching capabilities. NOTE: The first-listed band with UL includes a band associated with	BC	CY	N/A	N/A
different SRS antenna switching capabilities. NOTE: The first-listed band with UL includes a band associated with <i>FeatureSetUplinkId</i> set to 0 corresponding to the support of SRS- SwitchingTimeNR.	BC	CY	N/A	N/A
different SRS antenna switching capabilities. NOTE: The first-listed band with UL includes a band associated with <i>FeatureSetUplinkId</i> set to 0 corresponding to the support of SRS- SwitchingTimeNR. supportedBandwidthCombinationSet	BC	CY	N/A	N/A
different SRS antenna switching capabilities. NOTE: The first-listed band with UL includes a band associated with <i>FeatureSetUplinkId</i> set to 0 corresponding to the support of SRS- 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,	BC	CY	N/A	N/A
different SRS antenna switching capabilities. NOTE: The first-listed band with UL includes a band associated with FeatureSetUplinkId set to 0 corresponding to the support of SRS- 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-	BC	CY	N/A	N/A
different SRS antenna switching capabilities. NOTE: The first-listed band with UL includes a band associated with FeatureSetUplinkId set to 0 corresponding to the support of SRS- 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,	BC	CY	N/A	N/A
different SRS antenna switching capabilities. NOTE: The first-listed band with UL includes a band associated with <i>FeatureSetUplinkId</i> set to 0 corresponding to the support of SRS- 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-	BC	СҮ	N/A	N/A
 different SRS antenna switching capabilities. NOTE: The first-listed band with UL includes a band associated with <i>FeatureSetUplinkld</i> set to 0 corresponding to the support of SRS- 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 	BC	СҮ	N/A	N/A
 different SRS antenna switching capabilities. NOTE: The first-listed band with UL includes a band associated with <i>FeatureSetUplinkId</i> set to 0 corresponding to the support of SRS- 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- 	BC	СҮ	N/A	N/A
 different SRS antenna switching capabilities. NOTE: The first-listed band with UL includes a band associated with <i>FeatureSetUplinkld</i> set to 0 corresponding to the support of SRS-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, interband NE-DC without intra-band NCA component and intra-band (NG)EN-DC/NE-DC without intra-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. This field is not applicable to source and 	BC	СҮ	N/A	N/A
 different SRS antenna switching capabilities. NOTE: The first-listed band with UL includes a band associated with <i>FeatureSetUplinkld</i> set to 0 corresponding to the support of SRS-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, interband NE-DC without intra-band NCA 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. This field is not applicable to source and target cells in intra-frequency DAPS handover. 	BC	СҮ	N/A	N/A
 different SRS antenna switching capabilities. NOTE: The first-listed band with UL includes a band associated with <i>FeatureSetUplinkld</i> set to 0 corresponding to the support of SRS-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, interband NE-DC without intra-band NE-DC component and intra-band (NG)EN-DC/NE-DC without intra-band NE-DC component, the field defines the bandwidth combinations for the NR part of the band combination. For intra-band (NG)EN-DC/NE-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. This field is not applicable to source and target cells in intra-frequency DAPS handover. Field encoded as a bit map, where bit N is set to "1" if UE supports Bandwidth 	BC	СҮ	N/A	N/A
 different SRS antenna switching capabilities. NOTE: The first-listed band with UL includes a band associated with <i>FeatureSetUplinkld</i> set to 0 corresponding to the support of SRS-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, interband NE-DC without intra-band NE-DC component and intra-band (NG)EN-DC/NE-DC without intra-band NE-DC component, the field defines the bandwidth combinations for the NR part of the band combination. For intra-band (NG)EN-DC/NE-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. This field is not applicable to source and target cells in intra-frequency DAPS handover. Field encoded as a bit map, where bit N is set to "1" if UE supports Bandwidth Combination Set N for this band combination as defined in the TS 38.101-1 [2], TS 	BC	СҮ	N/A	N/A
 different SRS antenna switching capabilities. NOTE: The first-listed band with UL includes a band associated with <i>FeatureSetUplinkld</i> set to 0 corresponding to the support of SRS-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, interband NE-DC without intra-band NE-DC component and intra-band (NG)EN-DC/NE-DC without intra-band NE-DC component, the field defines the bandwidth combinations for the NR part of the band combination. For intra-band (NG)EN-DC/NE-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. This field is not applicable to source and target cells in intra-frequency DAPS handover. Field encoded as a bit map, where bit N is set to "1" if UE supports 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 	BC	СҮ	N/A	N/A
 different SRS antenna switching capabilities. NOTE: The first-listed band with UL includes a band associated with <i>FeatureSetUplinkld</i> set to 0 corresponding to the support of SRS-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, interband NE-DC without intra-band NE-DC component and intra-band (NG)EN-DC/NE-DC without intra-band NE-DC component, the field defines the bandwidth combinations for the NR part of the band combination. For intra-band (NG)EN-DC/NE-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. This field is not applicable to source and target cells in intra-frequency DAPS handover. Field encoded as a bit map, where bit N is set to "1" if UE supports 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 	BC	СҮ	N/A	N/A
 different SRS antenna switching capabilities. NOTE: The first-listed band with UL includes a band associated with <i>FeatureSetUplinkld</i> set to 0 corresponding to the support of SRS-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, interband NE-DC without intra-band NB-DC component and intra-band (NG)EN-DC/NE-DC without intra-band NE-DC component, the field defines the bandwidth combinations for the NR part of the band combination. For intra-band (NG)EN-DC/NE-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. This field is not applicable to source and target cells in intra-frequency DAPS handover. Field encoded as a bit map, where bit N is set to "1" if UE supports 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 	BC	СҮ	N/A	N/A
 different SRS antenna switching capabilities. NOTE: The first-listed band with UL includes a band associated with <i>FeatureSetUplinkld</i> set to 0 corresponding to the support of SRS-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, interband 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/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. This field is not applicable to source and target cells in intra-frequency DAPS handover. Field encoded as a bit map, where bit N is set to "1" if UE supports 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 has more than one NR carrier (at least one SCell in an 	BC	СҮ	N/A	N/A
 different SRS antenna switching capabilities. NOTE: The first-listed band with UL includes a band associated with <i>FeatureSetUplinkId</i> set to 0 corresponding to the support of SRS-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, interband NE-DC without intra-band NE-DC component and intra-band (NG)EN-DC/NE-DC without intra-band NE-DC 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. This field is not applicable to source and target cells in intra-frequency DAPS handover. Field encoded as a bit map, where bit N is set to "1" if UE supports 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	BC	СҮ	N/A	N/A
 different SRS antenna switching capabilities. NOTE: The first-listed band with UL includes a band associated with <i>FeatureSetUplinkId</i> set to 0 corresponding to the support of SRS-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, interband NE-DC without intra-band NE-DC component and intra-band (NG)EN-DC/NE-DC with additional inter-band NR CA 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. This field is not applicable to source and target cells in intra-frequency DAPS handover. Field encoded as a bit map, where bit N is set to "1" if UE supports 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- 	BC	СҮ	N/A	N/A
 different SRS antenna switching capabilities. NOTE: The first-listed band with UL includes a band associated with <i>FeatureSetUplinkId</i> set to 0 corresponding to the support of SRS-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, interband 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. This field is not applicable to source and target cells in intra-frequency DAPS handover. Field encoded as a bit map, where bit N is set to "1" if UE supports 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	BC	СҮ	N/A	N/A

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.				
- For intra-band (NG)EN-DC with additional inter-band CA component(s) of				
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				
eading / 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.	D O		N 1/A	
supportedTxBandCombListPerBC-Sidelink-r16,	BC	No	N/A	N/A
supportedRxBandCombListPerBC-Sidelink-r16				
ndicates, for a particular Uu band combination, the PC5 band combination(s) on				
which the UE supports simultaneous transmission/reception. The leading / leftmost				
it (bit 0) corresponds to the first band combination included in				
BandCombinationListSidelinkEUTRA-NR, the next bit corresponds to the second				
and combination included in BandCombinationListSidelinkEUTRA-NR and so on.				
vith value 1 indicating simultaneous transmission/reception is supported.				
ILTxSwitchingBandPair-r16	BC	FD	N/A	FR'
ndicates UE supports dynamic UL Tx switching in case of inter-band CA, SUL, and				only
NG)EN-DC as defined in TS 38.214 [12], TS 38.101-1 [2] and TS 38.101-3 [4]. The				
apability signalling comprises of the following parameters:				
bandIndexUL1-r16 and bandIndexUL2-r16 indicate the band pair on which UE				
supports dynamic UL Tx switching. bandindexUL1/bandindexUL2 xx refers to				
the xxth band entry in the band combination. UE shall indicate support for 2-				
layer UL MIMO capabilities on one of the indicated two bands in each				
FeatureSet entry supporting UL 1Tx-2Tx switching, and only the band where				
UE supports 2-layer UL MIMO capability can work as carrier2 as defined in TS				
38.101-1 [2] and TS 38.101-3 [4].				
uplinkTxSwitchingPeriod-r16 indicates the length of UL Tx switching period per				
pair of UL bands per band combination when dynamic UL Tx switching is				
configured, as specified in TS 38.101-1 [2] and TS 38.101-3 [4]. UE shall not				
report the value n210us for EN-DC band combinations. n35us represents 35				
us, n140us represents 140us, and so on, as specified in TS 38.101-1 [2] and				
TS 38.101-3 [4].				
uplinkTxSwitching-DL-Interruption-r16 indicates that DL interruption on the				
band will occur during UL Tx switching, as specified in TS 38.133 [5] and in TS				
36.133 [27]. UE is not allowed to set this field for the band combination of SUL				
band+TDD band, for which no DL interruption is allowed.				
Field encoded as a bit map, where bit N is set to "1" if DL interruption on band				
N will occur during uplink Tx switching as specified in TS 38.133 [5] and in TS				
20 422 [27] The leading / leftment hit (hit 0) companyed to the first hand of				
36.133 [27]. The leading / leftmost bit (bit 0) corresponds to the first band of				
this band combination, the next bit corresponds to the second band of this				
this band combination, the next bit corresponds to the second band of this				1
this band combination, the next bit corresponds to the second band of this band combination and so on. The capability is not applicable to the following band combinations, in which DL reception interruption is not allowed:				
this band combination, the next bit corresponds to the second band of this band combination and so on. The capability is not applicable to the following band combinations, in which DL reception interruption is not allowed: - TDD+TDD CA with the same UL-DL pattern				
this band combination, the next bit corresponds to the second band of this band combination and so on. The capability is not applicable to the following band combinations, in which DL reception interruption is not allowed:				
 this band combination, the next bit corresponds to the second band of this band combination and so on. The capability is not applicable to the following band combinations, in which DL reception interruption is not allowed: TDD+TDD CA with the same UL-DL pattern TDD+TDD EN-DC with the same UL-DL pattern 	- PC		N1/A	
 this band combination, the next bit corresponds to the second band of this band combination and so on. The capability is not applicable to the following band combinations, in which DL reception interruption is not allowed: TDD+TDD CA with the same UL-DL pattern TDD+TDD EN-DC with the same UL-DL pattern 	BC	CY	N/A	
 this band combination, the next bit corresponds to the second band of this band combination and so on. The capability is not applicable to the following band combinations, in which DL reception interruption is not allowed: TDD+TDD CA with the same UL-DL pattern TDD+TDD EN-DC with the same UL-DL pattern 	BC	CY	N/A	
 this band combination, the next bit corresponds to the second band of this band combination and so on. The capability is not applicable to the following band combinations, in which DL reception interruption is not allowed: TDD+TDD CA with the same UL-DL pattern TDD+TDD EN-DC with the same UL-DL pattern <i>uplinkTxSwitching-OptionSupport-r16</i> ndicates which option is supported for dynamic UL Tx switching for inter-band UL CA and (NG)EN-DC. switchedUL represents option 1 as specified in TS 38.214 	BC	CY	N/A	
 this band combination, the next bit corresponds to the second band of this band combination and so on. The capability is not applicable to the following band combinations, in which DL reception interruption is not allowed: TDD+TDD CA with the same UL-DL pattern TDD+TDD EN-DC with the same UL-DL pattern <i>uplinkTxSwitching-OptionSupport-r16</i> ndicates which option is supported for dynamic UL Tx switching for inter-band UL CA and (NG)EN-DC. <i>switchedUL</i> represents option 1 as specified in TS 38.214 12], <i>dualUL</i> represents option 2 as specified in TS 38.214 [12], <i>both</i> represents	BC	CY	N/A	
 this band combination, the next bit corresponds to the second band of this band combination and so on. The capability is not applicable to the following band combinations, in which DL reception interruption is not allowed: TDD+TDD CA with the same UL-DL pattern TDD+TDD EN-DC with the same UL-DL pattern 	BC	CY	N/A	
 this band combination, the next bit corresponds to the second band of this band combination and so on. The capability is not applicable to the following band combinations, in which DL reception interruption is not allowed: TDD+TDD CA with the same UL-DL pattern TDD+TDD EN-DC with the same UL-DL pattern <i>plinkTxSwitching-OptionSupport-r16</i> ndicates which option is supported for dynamic UL Tx switching for inter-band UL A and (NG)EN-DC. switchedUL represents option 1 as specified in TS 38.214 [2], dualUL represents option 2 as specified in TS 38.214 [12]. both represents oth option 1 and option2 as specified in TS 38.214 [12]. UE shall not report the	BC	CY	N/A	FR ² only

uplinkTxSwitching-PowerBoosting-r16 Indicates the support of 3dB boosting on the maximum output power for UE transmission under the operation state in which 2-port transmission can be supported on carrier2 in case of inter-band UL CA case where UE supports dynamic UL Tx switching. A UE shall only indicate this capability in case the UE supports power class 3 for inter-band UL CA for the band combination as defined in TS 38.101-1 [2].	BC	No	N/A	FR1 only
uplinkTxSwitching-PUSCH-TransCoherence-r16Indicates support of the uplink codebook subset when uplink Tx switching is triggered between last transmitted SRS and scheduled PUSCH transmission, as specified in TS 38.101-1 [2].UE indicating support of full coherent codebook subset shall also support non- coherent codebook subset.If the field is absent, the supported uplink codebook subset indicated by pusch- TransCoherence applies when the uplink switching is triggered between last transmitted SRS and scheduled transmission.	BC	No	N/A	FR1 only

4.2.7.2 BandNR parameters

Definitions for parameters	Per	М	FDD- TDD DIFF	FR1- FR2 DIFF
<i>activeConfiguredGrant-r16</i> Indicates whether the UE supports up to 12 configured/active configured grant configurations in a BWP of a serving cell. This field includes the following parameters:	Band	No	N/A	N/A
 maxNumberConfigsPerBWP-r16 indicates the maximum number of configured/active configured grant configurations in a BWP of a serving cell. 				
 maxNumberConfigsAllCC-r16 indicates the maximum number of configured/active configured grant configurations across all serving cells in a MAC entity, and across MCG and SCG in case of NR-DC. 				
The UE can include this feature only if the UE indicates supports of either configuredUL-GrantType1 or configuredUL-GrantType2.				
NOTE:				
 For all the reported bands in FR1, a same X1 value is reported for <i>maxNumberConfigsAllCC-r16</i>. For all the reported bands in FR2, a same X2 value is reported for <i>maxNumberConfigsAllCC-r16</i>. The total number of configured/active configured grant configurations across all serving cells in FR1 is no greater than X1. 				
 The total number of configured/active configured grant configurations across all serving cells in FR2 is no greater than X2. If the CA have some serving cell(s) in FR1 and some serving cell(s) in FR2, the total number of configured/active configured grant configurations across 				
all serving cells is no greater than max(X1, X2). additionalActiveTCI-StatePDCCH	Band	No	N/A	N/A
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 <i>maxNumberActiveTCI-PerBWP</i> in <i>tci-StatePDSCH</i> is set to <i>n</i> 1. Otherwise, the UE does not include this field.	Dand			N/A
aperiodicBeamReport	Band	Yes	N/A	N/A
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).				
<i>aperiodicTRS</i> Indicates whether the UE supports DCI triggering aperiodic TRS associated with periodic TRS.	Band	No	N/A	Yes
asymmetricBandwidthCombinationSet	Band	No	N/A	N/A
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.				
<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>beamCorrespondenceCSI-RS-based-r16</i> Indicates whether the UE support for beam correspondence based on CSI-RS has the ability to select its uplink beam based on measurement of CSI-RS. If a UE supports beam correspondence based on CSI-RS, then the network can expect the UE to also fulfil ReI-15 beam correspondence requirements.	Band	No	TDD only	FR2 only
If UE supports neither <i>beamCorrespondenceSSB-based-r16</i> nor <i>beamCorrespondenceCSI-RS-based-r16</i> , gNB can expect the UE to fulfill beam correspondence based on Rel-15 beam correspondence requirements.				

<i>beamCorrespondenceSSB-based-r16</i> Indicates whether the UE support for beam correspondence based on SSB has the	Band	No	TDD only	FR2 only
ability to select its uplink beam based on measurement of SSB. If a UE supports beam correspondence based on SSB, then the network can expect the UE to also fulfil Rel-15 beam correspondence requirements.			Uniy	only
If UE supports neither <i>beamCorrespondenceSSB-based-r16</i> nor <i>beamCorrespondenceCSI-RS-based-r16</i> , gNB can expect the UE to fulfil beam correspondence based on Rel-15 beam correspondence requirements.				
beamCorrespondenceWithoutUL-BeamSweeping	Band	Yes	N/A	FR2
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.				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 maxNumberSSB-CSI-RS-ResourceOneTx indicates maximum total number 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. 				
 maxNumberCSI-RS-ResourceTwoTx indicates maximum total number of two 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). 				
 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 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 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 Indicates the number of OFDM symbols between the end of the last symbol of SSB/CSI-RS and the start of 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.	Band	Yes	N/A	N/A

<i>beamSwitchTiming</i> Indicates the minimum number of OFDM symbols between the DCI triggering of	Band	No	N/A	FR2 only
aperiodic CSI-RS and aperiodic CSI-RS transmission. The number of OFDM				, only
symbols is measured from the end of the last symbol containing the indication to the	ne			
start of the first symbol of CSI-RS. The UE includes this field for each supported	-			
sub-carrier spacing.				
NOTE: beamSwitchTiming 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').				
beamSwitchTiming-r16	Band	No	N/A	FR2
Indicates the minimum number of required OFDM symbols (sym224, sym336)				only
between the DCI triggering aperiodic CSI-RS and the corresponding aperiodic CSI	-			
RS transmission in a CSI-RS resource set configured with repetition 'ON' if				
enableBeamSwitchTiming-r16 is configured.				
For CSI-RS configured with repetition "off", the UE applies beam switch time of				
sym48 if beamSwitchTiming-r16 is reported and enableBeamSwitchTiming-r16 is				
configured. For CSI-RS configured without repetition and without <i>trs-info</i> , the UE				
applies beam switch time of sym48 if <i>beamSwitchTiming-r16</i> is reported and				
enableBeamSwitchTiming-r16 is configured.				
bwp-DiffNumerology	Band	No	N/A	N/A
Indicates whether the UE supports BWP adaptation up to 4 BWPs with the differer	it			
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).				
bwp-SameNumerology	Band	No	N/A	N/A
Indicates whether UE supports BWP adaptation (up to 2/4 BWPs) with the same	Danu	INO	IN/A	IN/A
numerology, 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).				
bwp-WithoutRestriction	Band	No	N/A	N/A
Indicates support of BWP operation without bandwidth restriction. The Bandwidth				
restriction in terms of DL BWP for PCell and PSCell means that the bandwidth of a				
UE-specific RRC configured DL BWP may not include the bandwidth of CORESET				
#0 (if configured) and SSB. For SCell(s), it means that the bandwidth of DL BWP				
may not include SSB.				
cancelOverlappingPUSCH-r16	Band	No	N/A	N/A
Indicates whether UE supports the cancellation of the (repetition of the) PUSCHs				
transmission on all other intra-band serving cell(s). The cancellation of the				
(repetition of the) PUSCH transmission on a the set of intra-band serving cell(s)				
includes all symbols from the earliest symbol that is overlapping with the first				
cancelled symbol of the PUSCH on the serving cell for which the DCI format 2_4 is	;			
applicable to. If the UE supports this feature, the UE needs to report pa-				
PhaseDiscontinuityImpacts and ul-CancellationSelfCarrier-r16.				

channelBWs-DL	Band	Yes	N/A	N/A
Indicates for each subcarrier spacing the UE supported channel bandwidths.	Danu	163	IN/A	
Absence of the <i>channelBWs-DL</i> (without suffix) for a band or absence of specific				
scs-XXkHz entry for a supported subcarrier spacing means that the UE supports the				
channel bandwidths among [5, 10, 15, 20, 25, 30, 40, 50, 60, 80, 100] and [50, 100,				
200] that were defined in clause 5.3.5 of TS 38.101-1 version 15.7.0 [2] and TS				
38.101-2 version 15.7.0 [3] for the given band or the specific SCS entry. For IAB-				
MT, to determine whether the IAB-MT supports a channel bandwidth of 100 MHz,				
the network checks channel/BW-DL-I/AB-r16.				
For FR1, the bits in <i>channelBWs-DL</i> (without suffix) starting from the leading /				
leftmost bit indicate 5, 10, 15, 20, 25, 30, 40, 50, 60 and 80MHz. For FR2, the bits in				
<i>channelBWs-DL</i> (without suffix) starting from the leading / leftmost bit indicate 50,				
100 and 200MHz. The third / rightmost bit (for 200MHz) shall be set to 1. For IAB-				
MT the third / rightmost bit (for 200MHz) is ignored. To determine whether the IAB-				
MT supports a channel bandwidth of 200 MHz, the network checks channelBW-DL-				
IAB-r16.				
For FR1, the leading/leftmost bit in <i>channelBWs-DL-v1590</i> indicates 70MHz, the				
second leftmost bit indicates 45MHz, the third leftmost bit indicates 35MHz, the				
fourth leftmost bit indicates 100MHz and all the remaining bits in <i>channelBWs-DL-</i>				
v1590 shall be set to 0. The fourth leftmost bit (for 100MHz) is not applicable for				
bands n41, n48, n77, n78, n79 and n90 as defined in TS 38.101-1 [2].				
NOTE: To determine whether the UE supports a specific SCS for a given band,				
the network validates the supportedSubCarrierSpacingDL 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-DL, 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.				

channelBWs-UL	Band	Yes	N/A	N/A
Indicates for each subcarrier spacing the UE supported channel bandwidths.				
Absence of the <i>channelBWs-UL</i> (without suffix) for a band or absence of specific				
scs-XXkHz entry for a supported subcarrier spacing means that the UE supports the				
channel bandwidths among [5, 10, 15, 20, 25, 30, 40, 50, 60, 80, 100] and [50, 100,				
200] that were defined in clause 5.3.5 of TS 38.101-1 version 15.7.0 [2] and TS				
38.101-2 version 15.7.0 [3] for the given band or the specific SCS entry. For IAB-				
MT, to determine whether the IAB-MT supports a channel bandwidth of 100 MHz,				
the network checks channelBW-UL-IAB-r16.				
For FR1, the bits in <i>channelBWs-UL</i> (without suffix) starting from the leading /				
leftmost bit indicate 5, 10, 15, 20, 25, 30, 40, 50, 60 and 80MHz. For FR2, the bits in				
<i>channelBWs-UL</i> (without suffix) starting from the leading / leftmost bit indicate 50,				
100 and 200MHz. The third / rightmost bit (for 200MHz) shall be set to 1. For IAB-				
MT the third / rightmost bit (for 200MHz) is ignored. To determine whether the IAB-				
MT supports a channel bandwidth of 200 MHz, the network checks <i>channelBW-UL-</i>				
IAB-r16.				
For FR1, the leading/leftmost bit in <i>channelBWs-UL-v1590</i> indicates 70 MHz, the				
second leftmost bit indicates 45MHz, the third leftmost bit indicates 35MHz, the				
fourth leftmost bit indicates 100MHz and all the remaining bits in <i>channelBWs-UL-</i> <i>v1590</i> shall be set to 0. The fourth leftmost bit (for 100MHz) is not applicable for				
bands n41, n48, n77, n78, n79 and n90 as defined in TS 38.101-1 [2].				
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.				
channelBW-DL-IAB-r16	Band	No	N/A	N/A
Indicates whether the IAB-MT supports channel bandwidth of 100 MHz for a given				
SCS in FR1 for DL or whether the IAB-MT supports channel bandwidth of 200 MHz				
for a given SCS in FR2 for DL. channelBW-UL-IAB-r16	Band	No	N/A	N/A
Indicates whether the IAB-MT supports channel bandwidth of 100 MHz for a given	Danu		11/7	
SCS in FR1 for UL or whether the IAB-MT supports channel bandwidth of 200 MHz				
for a given SCS in FR2 for UL.				
	1	1		

codebookComboParametersAddition-r16 Indicates the UE supports of the mixed codebook combinations and the corresponding parameters supported by the UE.	Band	No	N/A	N/A
For mixed codebook types, UE reports support active CSI-RS resources and ports for up to 4 mixed codebook combinations in any slot. The following is the possible mixed codebook combinations:				
 {Type 1 Single Panel, Type 2, Null} {Type 1 Single Panel, Type 2 with port selection, Null} {Type 1 Single Panel, eType 2 with R=1, Null} {Type 1 Single Panel, eType 2 with R=2, Null} {Type 1 Single Panel, eType 2 with R=1 and port selection, Null} {Type 1 Single Panel, eType 2 with R=2 and port selection, Null} {Type 1 Single Panel, Type 2, Type 2 with port selection} {Type 1 Multi Panel, Type 2, Null} {Type 1 Multi Panel, eType 2 with R=1, Null} {Type 1 Multi Panel, eType 2 with R=1, Null} {Type 1 Multi Panel, eType 2 with R=2, Null} {Type 1 Multi Panel, eType 2 with R=2, Null} {Type 1 Multi Panel, eType 2 with R=2, Null} {Type 1 Multi Panel, eType 2 with R=1 with port selection, Null} {Type 1 Multi Panel, eType 2 with R=2 with port selection, Null} {Type 1 Multi Panel, eType 2 with R=1 with port selection, Null} {Type 1 Multi Panel, eType 2 with R=2 with port selection, Null} 				
Parameters for each mixed codebook supported by the UE: - supportedCSI-RS-ResourceListAdd-r16 indicates the list of supported CSI- RS resources in a band by referring to codebookVariantsList. The following parameters are included in codebookVariantsList.				
 For supportedCSI-RS-ResourceListAdd-r16 related to the additional codebooks: The minimum of maxNumberTxPortsPerResource is 'p4'; The minimum value of totalNumberTxPortsPerBand is 4. 				
If a UE reports one or more mixed codebook combinations, then usage of active CSI-RS resources and ports for multiple codebooks in any slot is allowed only within those combinations. For coexisting of mixed codebooks in any slot, gNB needs to consider the mixed codebook combination capability as well as per codebook capability of each codebook type in the mixed codebook combination. UE indicates support of a codebook type in the mixed codebook combination shall indicates support of the individual codebook type in the per band capability.				
codebookParameters Indicates the codebooks and the corresponding parameters supported by the UE.	Band	FD	N/A	N/A
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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 <i>maxNumberTxPortsPerResource</i> 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; a UE shall support a maxNumberTxPortsPerResource minimum value of 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 supportedCSI-RS-ResourceList 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.				
Descriptions for the allowed in an allowed by (the of an dii Describ) are a stadied by the UE				
Parameters for type I multi-panel codebook (type1 multiPanel) supported by the UE,				
which are optional:				
 supportedCSI-RS-ResourceList, modes indicates supported codebook modes (mode 1, mode 2, or both 				
modes indicates supported codebook modes (mode 1, mode 2, or both mode 1 and mode 2);				
- maxNumberCSI-RS-PerResourceSet indicates the maximum number of CSI-				
RS resource in a resource set:				
- <i>nrofPanels</i> indicates supported number of panels.				
Parameters for type II codebook (type2) supported by the UE, which are optional:				
- supportedCSI-RS-ResourceList,				
- parameterLx indicates the parameter "Lx" in codebook generation where x is				
an index of Tx ports indicated by <i>maxNumberTxPortsPerResource</i> ;				
 amplitudeScalingType indicates the amplitude scaling type supported by the UE (wideband or both wideband and sub-band); 				
- amplitudeSubsetRestriction 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,				
 parameterLx indicates the parameter "Lx" in codebook generation where x is 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 hand simultaneously; 				
across all CCs within a band simultaneously;				
 totalNumberTxPortsPerBand indicates the total number of Tx ports across all CCs within a band simultaneously. 				
For each codebook type, the UE may report another list of supported CSI-RS				
resources via supportedCSI-RS-ResourceListAlt in codebookParametersPerBand.				
For type I single panel codebook (type1 singlePanel) supportedCSI-RS-				
ResourceListAlt,				
- a UE shall report at least one triplet in supportedCSI-RS-				
ResourceListAlt with maxNumberTxPortsPerResource greater than				
or equal to 8 for FR1;				

with maxNumberTxPortsPerResource greater than or equal to 2 for FR2.				
codebookParametersAddition-r16 Indicates the UE support of additional codebooks and the corresponding parameters supported by the UE.	Band	No	N/A	N/A
Codebook etype 2 R=1 support parameter combination 1 to 6 and rank 1 to 2.				
Parameters for etype 2 R=1 ($etype2R1-r16$) supported by the UE, which are optional:				
 supportedCSI-RS-ResourceListAdd-r16 indicates the list of supported CSI- RS resources in a band by referring to codebookVariantsList. The following 				
parameters are included in codebookVariantsList.				
 maxNumberTxPortsPerResource indicates the maximum number of Tx ports in a resource of a band; 				
- maxNumberResourcesPerBand indicates the maximum number of				
 resources across all CCs in a band, simultaneously; totalNumberTxPortsPerBand indicates the total number of Tx ports 				
across all CCs in a band, simultaneously.				
 paramComb7-8-r16 indicates the support of parameter combinations 7-8 for etype 2 R=1 				
- rank3-4-r16 indicates the support of rank 3,4.				
 amplitudeSubsetRestriction-r16 indicates the support of amplitude subset restriction. 				
Parameters for etype 2 R=2 (<i>etype2R2-r16</i>) supported by the UE, which are optional:				
- supportedCSI-RS-ResourceListAdd-r16;				
UE supporting <i>etype2R2-r16</i> supports also indicates support of <i>etype2R1-r16</i> .				
Codebook etype 2 R=1 with port selection supports 6 parameter combinations and				
rank 1,2. Parameters for etype 2 R=1 with port selection ($etype2R1$ -PortSelection- $r16$) supported by the UE, which are optional:				
 supportedCSI-RS-ResourceListAdd-r16; 				
- rank3-4-r16 indicates the support of rank 3,4				
Parameters for etype 2 R=2 with port selection (<i>etype2R2-PortSelection-r16</i>) supported by the UE, which are optional:				
- supportedCSI-RS-ResourceListAdd-r16;				
UE supporting etype2R2-PortSelection-r16 also indicates support of etype2R1- PortSelection-r16.				
For supportedCSI-RS-ResourceListAdd-r16 related to the additional codebooks:				
 The minimum of maxNumberTxPortsPerResource is 'p4'; The minimum value of totalNumberTxPortsPerBand is 4. 				
condHandover-r16	Band	No	N/A	N/A
Indicates whether the UE supports conditional handover including execution condition, candidate cell configuration and maximum 8 candidate cells. UE shall set				
the capability value consistently for all FDD-FR1 bands, all TDD-FR1 bands and all				
TDD-FR2 bands respectively. condHandoverFailure-r16	Band	No	N/A	N/A
Indicates whether the UE supports conditional handover during re-establishment	Dana	NO		
procedure when the selected cell is configured as candidate cell for condition handover. UE shall set the capability value consistently for all FDD-FR1 bands, all				
TDD-FR1 bands and all TDD-FR2 bands respectively.				
condHandoverTwoTriggerEvents-r16	Band	CY	N/A	N/A
Indicates whether the UE supports 2 trigger events for same execution condition. This feature is mandatory supported if the UE supports <i>condHandover-r16</i> . UE shall				
set the capability value consistently for all FDD-FR1 bands, all TDD-FR1 bands and				
all TDD-FR2 bands respectively. condPSCellChange-r16	Band	No	N/A	N/A
	Danu		11/74	IN/A
Indicates whether the UE supports conditional PSCell change including execution condition, candidate cell configuration and maximum 8 candidate cells. UE shall set the capability value consistently for all FDD-FR1 bands, all TDD-FR1 bands and all				

aand DeCall Change Two Trigger Events #16				
condPSCellChangeTwoTriggerEvents-r16 Indicates whether the UE supports 2 trigger events for same execution condition.	Band	CY	N/A	N/A
This feature is mandatory supported if the UE supports <i>condPSCellChange-r16</i> . UE				
shall set the capability value consistently for all FDD-FR1 bands, all TDD-FR1				
bands and all TDD-FR2 bands respectively.	. .			
configuredUL-GrantType1-v1650	Band	No	N/A	N/A
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. This applies				
only to non-shared spectrum channel access. For shared spectrum channel access,				
configuredUL-GrantType1-r16 applies. UE shall set the capability value consistently				
for all FDD-FR1 bands, all TDD-FR1 bands and all TDD-FR2 bands respectively.				
The UE only includes configuredUL-GrantType1-v1650 if configuredUL-GrantType1				
is absent.				
configuredUL-GrantType2-v1650	Band	No	N/A	N/A
Indicates whether the UE supports Type 2 PUSCH transmissions with configured	Danu			
grant as specified in TS 38.214 [12] with UL-TWG-repK value of one. This applies				
only to non-shared spectrum channel access. For shared spectrum channel access,				
configuredUL-GrantType2-r16 applies. UE shall set the capability value consistently				
for all FDD-FR1 bands, all TDD-FR1 bands and all TDD-FR2 bands respectively.				
The UE only includes configuredUL-GrantType2-v1650 if configuredUL-GrantType2				
is absent.				
crossCarrierScheduling-SameSCS	Band	No	N/A	N/A
Indicates whether the UE supports cross carrier scheduling for the same				
numerology with carrier indicator field (CIF) in carrier aggregation where				
numerologies for the scheduling cell and scheduled cell are same.				
csi-ReportFramework	Band	Yes	N/A	N/A
Indicates whether the UE supports CSI report framework. This capability signalling	Bana	100	1.177	
comprises the following parameters:				
- maxNumberPeriodicCSI-PerBWP-ForCSI-Report indicates the maximum				
number of periodic CSI report setting per BWP for CSI report;				
number of periodic Correport setting per DWT for Correport,				
- maxNumberPeriodicCSI-PerBWP-ForBeamReport indicates the maximum				
number of periodic CSI report setting per BWP for beam report.				
number of periodic certeport cetting per BWT for beam toport.				
- maxNumberAperiodicCSI-PerBWP-ForCSI-Report indicates the maximum				
number of aperiodic CSI report setting per BWP for CSI report;				
- maxNumberAperiodicCSI-PerBWP-ForBeamReport indicates the maximum				
number of aperiodic CSI report setting per BWP for beam report;				
- maxNumberAperiodicCSI-triggeringStatePerCC indicates the maximum				
number of aperiodic CSI triggering states in CSI-AperiodicTriggerStateList				
per CC;				
•				
 maxNumberSemiPersistentCSI-PerBWP-ForCSI-Report indicates the 				
maximum number of semi-persistent CSI report setting per BWP for CSI				
report;				
report;				
report; - maxNumberSemiPersistentCSI-PerBWP-ForBeamReport indicates the				
 report; maxNumberSemiPersistentCSI-PerBWP-ForBeamReport indicates the maximum number of semi-persistent CSI report setting per BWP for beam 				
report; - maxNumberSemiPersistentCSI-PerBWP-ForBeamReport indicates the				
 report; maxNumberSemiPersistentCSI-PerBWP-ForBeamReport indicates the maximum number of semi-persistent CSI report setting per BWP for beam report; 				
 report; maxNumberSemiPersistentCSI-PerBWP-ForBeamReport indicates the maximum number of semi-persistent CSI report setting per BWP for beam report; simultaneousCSI-ReportsPerCC indicates the number of CSI report(s) for 				
 report; maxNumberSemiPersistentCSI-PerBWP-ForBeamReport indicates the maximum number of semi-persistent CSI report setting per BWP for beam report; simultaneousCSI-ReportsPerCC indicates the number of CSI report(s) for which the UE can measure and process reference signals simultaneously in 				
 report; maxNumberSemiPersistentCSI-PerBWP-ForBeamReport indicates the maximum number of semi-persistent CSI report setting per BWP for beam report; 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 				
 report; maxNumberSemiPersistentCSI-PerBWP-ForBeamReport indicates the maximum number of semi-persistent CSI report setting per BWP for beam report; 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 				
 report; maxNumberSemiPersistentCSI-PerBWP-ForBeamReport indicates the maximum number of semi-persistent CSI report setting per BWP for beam report; 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- 				
 report; maxNumberSemiPersistentCSI-PerBWP-ForBeamReport indicates the maximum number of semi-persistent CSI report setting per BWP for beam report; 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 				
 report; maxNumberSemiPersistentCSI-PerBWP-ForBeamReport indicates the maximum number of semi-persistent CSI report setting per BWP for beam report; 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- 				

Band	No	N/A	N/A
Dand	Vaa		
Band	res	N/A	N/A
•			
Band	Yes	N/A	N/A
Band	No	N/A	N/A
	1		
			1
	Band	Band Yes Band Yes Band Yes	Band Yes N/A Band Yes N/A Band Yes N/A

leature shall support multiDCI-MultiTRP-r16 and simultaneousReception/DilfTypeD-r16. default/CCL-TwoTCI-r16 ndicates whether the UE supports default QCL assumption with two TCI states ising single-DCI based multi-TRP. The UE can include this field only if multianeousReception/DilfTypeD-r16 is present. Otherwise, the UE does not nclude this field. manancedSkipUplinkTXConfigured-v1660 mdicates whether the UE supports skipping UL transmission for a configured uplink rate only if data is available for transmission and no UCI is multiplexed on the corresponding PUSCH of the uplink grant as specified in TS 38.321 [8]. UE shall set he capability value consistently for all FDD-FR1 bands and all TDD-FR2 bands respectively. The UE only includes enhancedSkipUplinkTXConfigured-v1660 if enhancedSkipUplinkTXConfigured-v1660 if enhancedSkipUplinkTXConfigured-v161 endicates whether the UE supports RSRP reporting for the group of two reference signals. groupSkink-reporting-v16 mclicates whether the UE supports RSRP reporting for the group of two reference signals. No N/A N/A Mick te	the capability value consistently for all FDD-FR1 bands, all TDD-FR1 bands and all TDD-FR2 bands respectively. The UE only includes <i>enhancedSkipUplinkTxConfigured-v1660</i> if <i>enhancedSkipUplinkTxConfigured-r16</i> is absent.	Band Band			FR2 only N/A
Indicates whether the UE supports default QCL assumption with two TCI states sing single-OL based multi-TRP. The UE can include this field only if simultaneousReceptionDiffypeD-r16 is present. Otherwise, the UE does not include this field. Sand No N/A Include this field. Band No N/A N/A Orresponding PUSCH of the uplink grant as specified in TS 383.221 [BJ. UE shall set the capability value consistently for all FDD-FR1 bands, all TDD-FR1 bands and all TDD-FR2 bands respectively. Band No N/A N/A DP-FR2 bands respectively. Band No N/A N/A Indicates whether the UE supports skipping UL transmission for an uplink grant as specified in TS 383.221 [BJ. UE shall set the capability value consistently for all FDD-FR1 bands, all TDD-FR1 bands, all TDD-FR1 bands, all TDD-FR1 bands, all TDD-FR1 bands and all TDD-FR2 bands respectively. Band No N/A N/A TDD-FR2 bands respectively. The UE only includes enhancedSkipUpInkTXComparic-v1660 if enhancedSkipUpInkTXDmarker16 is absent. Band No N/A N/A Indicates whether the UE supports enhanced UL performance for the transient period of 10us. Sant 11: 12: If not reported, the UE supports for 10: 12: Mand transmission of PUCCH, PUSCH, and PDSCH, and PDSCH and	Indicates whether the UE supports default QCL assumption with two TCI states using single-DCI based multi-TRP. The UE can include this field only if <i>simultaneousReceptionDiffTypeD-r16</i> is present. Otherwise, the UE does not include this field. enhancedSkipUplinkTxConfigured-v1660 Indicates whether the UE supports skipping UL transmission for a configured uplink grant only if no data is available for transmission and no UCI is multiplexed on the corresponding PUSCH of the uplink grant as specified in TS 38.321 [8]. UE shall se the capability value consistently for all FDD-FR1 bands, all TDD-FR1 bands and all TDD-FR2 bands respectively. The UE only includes <i>enhancedSkipUplinkTxConfigured-v1660</i> if <i>enhancedSkipUplinkTxConfigured-r16</i> is absent.	Band			only
using single-CCI based multi-TRP. The UE can include this field only if imultaneousReceptionDITTypeD+76 is present. Otherwise, the UE does not nelude this field. nelude this field. Band No N/A N/A nohancedSkipUplinkTxConfigured-v1660 Band No N/A N/A nota data is available for transmission and no UCI is multiplexed on the capability value consistently for all FDD-FR1 bands, and all TDD-FR2 bands respectively. Band No N/A N/A nohancedSkipUplinkTxConfigured-r166 is absent. manancedSkipUplinkTxConfigured-r166 is absent. Band No N/A N/A nohancedSkipUplinkTxConfigured-r161 is absent. Band No N/A N/A N/A nohancedSkipUplinkTxConfigured-r161 is absent. Band No N/A N/A N/A DFPR1 bands and all TDD-FR2 bands respectively. Band No N/A N/A N/A DFPR1 bands and all TDD-FR1 bands. Band No N/A N/A N/A N/A nohancedSkipUplinkTxCommercifies absent. Band No N/A N/A N/A nohancedSkipUplinkTxCommercifies absent. Band No N/A N/A N/A	using single-DCI based multi-TRP. The UE can include this field only if simultaneousReceptionDiffTypeD-r16 is present. Otherwise, the UE does not nclude this field. enhancedSkipUplinkTxConfigured-v1660 ndicates whether the UE supports skipping UL transmission for a configured uplink grant only if no data is available for transmission and no UCI is multiplexed on the corresponding PUSCH of the uplink grant as specified in TS 38.321 [8]. UE shall se he capability value consistently for all FDD-FR1 bands, all TDD-FR1 bands and all FDD-FR2 bands respectively. The UE only includes enhancedSkipUplinkTxConfigured-v1660 if enhancedSkipUplinkTxConfigured-r16 is absent.	t	No	N/A	
Include this field. Includes this field. Includes the supports skipping UL transmission for a configured uplink transmission and no UCI is multiplexed on the capability value consistently for all FDD-FR1 bands, all TDD-FR1 bands and all TDD-FR1 ba	nclude this field. enhancedSkipUplinkTxConfigured-v1660 ndicates whether the UE supports skipping UL transmission for a configured uplink grant only if no data is available for transmission and no UCI is multiplexed on the corresponding PUSCH of the uplink grant as specified in TS 38.321 [8]. UE shall se he capability value consistently for all FDD-FR1 bands, all TDD-FR1 bands and all FDD-FR2 bands respectively. The UE only includes enhancedSkipUplinkTxConfigured-v1660 if enhancedSkipUplinkTxConfigured-r16 is absent.	t	No	N/A	N/A
Indicates whether the UE supports skipping UL transmission for a configured uplink porresponding PUSCH of the uplink grant as specified in TS 38.321 (B). UE shall set the capability value consistently for all FDD-FR1 bands, all TDD-FR1 bands and all TDD-FR2 bands respectively. Band No N/A N/A InteracedSkipUplinkTxConfigured-r16 is absent. Band No N/A N/A InteracedSkipUplinkTxConfigured-r16 is absent. Band No N/A N/A S8.321 (B). UE shall set the capability value consistently for all FDD-FR1 bands, all IDD-FR1 bands and all TDD-FR2 bands respectively. Band No N/A FR2 The Class whether the UE supports shipping UL transmission for an uplink grant indicates whether the UE supports enhanced UL performance for the transmistion renicates whether the UE supports enhanced UL performance for the transmistion relicates whether the UE supports 60 kHz subcarrier spacing with extended CP engine to reception of PDCCH, and PDSCH, and transmission of PUCCH, PUSCH, and SR8. Band No N/A N/A proupBernReporting-r16 mclactes whether UE supports RSRP reporting for the group of two reference ignals. Band No N/A N/A proupSRR-reporting-r16 mclactes whether the UE supports RSRP reporting for the group of two reference ignals. Band No N/A N/A proupSRR-reporting-r16 mclactes whether the UE supports N to UTRA-FDD. CELL_DCH CS handover for the PCeIL on the add. It is	ndicates whether the UE supports skipping UL transmission for a configured uplink grant only if no data is available for transmission and no UCI is multiplexed on the corresponding PUSCH of the uplink grant as specified in TS 38.321 [8]. UE shall se he capability value consistently for all FDD-FR1 bands, all TDD-FR1 bands and all IDD-FR2 bands respectively. The UE only includes <i>enhancedSkipUplinkTxConfigured-v1660</i> if <i>enhancedSkipUplinkTxConfigured-r16</i> is absent.	t	No	N/A	N/A
prant only if no data is available for transmission and no UC1 is multiplexed on the corportagonding PUSCH of the uplink grant as specified in TS 83.821 [8]. UE shall set the capability value consistently for all PDD-FR1 bands and all TDD-FR1 bands respectively. DD-FR2 bands respectively. DD-FR2 bands respectively. DD-FR2 bands respectively. Band No N/A N/A N/A models and all TDD-FR1 bands all TDD-FR1 bands and all TDD-FR1 bands. DD-FR2 bands respectively. Band No N/A N/A DD-FR2 bands and the corresponding PUSCH of the uplink grant as specified in TS 83.21 [8]. UE shall set the capability value consistently for all FDD-FR1 bands, all TDD-FR2 bands and all TDD-FR2 bands and all TDD-FR2 bands and all TDD-FR2 bands respectively. The UE only includes onhanced/SkipUplinkTXDynamic-r16 is absent. DnahanceUL:TransinetPreviot-161 is absent. Band No N/A N/A models whether the UE supports 60 kHz subcarrier spacing with extended CP engint for resporting PDCCH, and PDSCH, and transmission of PUCCH, PUSCH, and SRS. proupBeamReporting nucleates whether UE supports RSRP reporting for the group of two reference ignals. proupBeamReporting reporting roup based L1-SINR reporting. UE indicates shall indicate support of sob-csrs-SINR-measurement.r16. Band No N/A N/A middle science of the space of the rule consistent for the group of two reference ignals. proupBeamReporting rule shall stic the capability value consistent for the space of the rule support NR to UTRA-FDD measurement and epoting if the UE supports NR to UTRA-FDD measurement and epoting if the UE supports NR to UTRA-FDD measurement and epoting if the UE supation to support MID-CI-mINTP-F16 <	grant only if no data is available for transmission and no UCI is multiplexed on the corresponding PUSCH of the uplink grant as specified in TS 38.321 [8]. UE shall se he capability value consistently for all FDD-FR1 bands, all TDD-FR1 bands and all FDD-FR2 bands respectively. The UE only includes <i>enhancedSkipUplinkTxConfigured-v1660</i> if <i>enhancedSkipUplinkTxConfigured-r16</i> is absent.	t			
IntercedSkipUplinkTxDynamic-v1660 N/A N/A N/A N/A Indicates whether the UE supports skipping UL transmission for an uplink grant addressed to a C-RNTI only if no data is available for transmission and no UCI is nultiplexed on the corresponding PUSCH of the uplink grant as specified in TS 8.321 [8]. UE shall set the capability value consistently for all FDD-FR1 bands, all TDD-FR1 bands and all TDD-FR2 bands respectively. The UE only includes enhanced-CSkipUplinkTxDynamic-v1660 if enhancedUL-transientPeriod-r16 Band No N/A FR only enhancedUL response to the corresponding PUSCH of the uplink grant as specified in Clause 6.3.3 of TS 38.101-1 [2]. If not reported, the UE upports transient period of 10us. Band No N/A N/A StatemedCP andicates whether the UE supports 60 kHz subcarrier spacing with extended CP ength for reception of PDCCH, and PDSCH, and transmission of PUCCH, PUSCH, indicates whether UE supports RSRP reporting for the group of two reference ignals. Band No N/A N/A groupBeamReporting rulectates whether UE supports NR to UTRA-FDD CELL_DCH CS handover for he PCell on the bank. It is madatory to support both UTRA-FDD measurement and event Briggered reporting. All endoid UTRA-FDD measurement and eporting if the UE supports NR to UTRA-FDD CELL_DCH CS handover for he PCell on the bank. UE shall set the capability value consistently for all PD-FR1 bands, all TDD-FR1 bands and all TDD-FR2 bands respectively. Band No N/A N/A Midetates the interpretation of maxNumberMIMO-LayersPDSCH is interpreted as the maximum num					
Indicates whether the UE supports skipping UL transmission or an uplink grant addressed to 2-RNT only if no data is available for transmission and no UC is supports skipping PUSCH of the uplink grant as specified in TS slight of the corresponding PUSCH of the uplink grant as specified in TS slight of the corresponding PUSCH of the uplink grant as specified in TS slight of the uplink and all TDD-FR1 bands and all TDD-FR2 bands respectively. Image: Constraint of the uplink grant as specified in TS slight of the uplink grant as specified in CS slight of the upports enhanced SkipUplinkTXDynamic-v1660 if enhancedSkipUplinkTXDynamic-v1660 is enhancedSkipUplinkTXDynamic-v1660 is enhancedSkipUplinkTXDynamic-v1660 is enhancedSkipUplinkTXDynamic-v1660 is enhancKII. UTRA-FDD feancement and endapoint yndue consisteme	nhancedSkinlInlinkTxDvnamic_v1660				
enhancedUL-TransientPeriod-r16 Band No N/A FR: indicates whether the UE supports enhanced UL performance for the transient sepcified in clause 6.3.3 of TS 38.101-1 [2]. If not reported, the UE Band No N/A FR: supports transient period of 10us. ExtendedCP Band No N/A N/A ength for reception of PDCCH, and PDSCH, and transmission of PUCCH, PUSCH, and SRS. Band No N/A N/A groupBeamReporting Indicates whether UE supports RSRP reporting for the group of two reference signals. Band No N/A N/A groupSINR-reporting-r16 Indicates whether UE supports group based L1-SINR reporting. UE indicates support of this feature shall indicate support of ssb-csirs-SINR-measurement-r16. Band No N/A N/A handoverURA-FDD-r16 Band No N/A N/A N/A upport IMS voice over NR. UE shall set the capability value consistently for all triggered reporting, and periodic UTRA-FDD measurement and reporting of model and and all TDD-FR2 bands respectively. Band No N/A N/A EDD-FR1 bands, all TDD-FR1 bands and all TDD-FR2 bands respectively. Band No N/A N/A N/A N/A veriatips field is not included, maxNumberMI	Indicates whether the UE supports skipping UL transmission for an uplink grant addressed to a C-RNTI only if no data is available for transmission and no UCI is multiplexed on the corresponding PUSCH of the uplink grant as specified in TS 38.321 [8]. UE shall set the capability value consistently for all FDD-FR1 bands, all TDD-FR1 bands and all TDD-FR2 bands respectively. The UE only includes <i>enhancedSkipUplinkTxDynamic-v1660</i> if	Band	No	N/A	N/A
Indicates whether the UE supports 60 kHz subcarrier spacing with extended CP Image: Comparison of PDCCH, and PDSCH, and transmission of PUCCH, PUSCH, and SRS. groupBeamReporting Band No N/A N/A groupSiNR-reporting-r16 Band No N/A N/A ndicates whether UE supports group based L1-SINR reporting. UE indicates support of this feature shall indicate support of ssb-csirs-SINR-measurement-r16. Band No N/A N/A handoverUTRA-FDD-r16 molicates whether the UE supports NR to UTRA-FDD CELL_DCH CS handover for he PCell on the band. It is mandatory to support obth UTRA-FDD measurement and event B triggered reporting, and periodic UTRA-FDD measurement and event B triggered reporting, and periodic UTRA-FDD measurement and event B triggered reporting. And periodic UTRA-FDD the stature shall walk consistently for all TDD-FR1 bands, all TDD-FR1 bands and all TDD-FR2 bands respectively. Band No N/A N/A max/MMO-LayersPorMulti-DCI-mTRP-r16 nticates the interpretation of max/NumberMIMO-LayersPDSCH for multi-DCI based mTRP. If this field is included, max/NumberMIMO-LayersPDSCH is interpreted as the maximum number of layers per PDSCH for multi-DCI multi-TRP operation. The UE that indicates support of this eature shall support overlapPDSCHsFullyFreqTime-r16. Band No N/A N/A NOTE 1: For data rate calculation in clause 4.1.2, if this feature is indicated, each multi-DCI based multi-DCI based multi-DCI based in a DCI for two or more configured part Type 2 con	enhancedUL-TransientPeriod-r16 ndicates whether the UE supports enhanced UL performance for the transient period as specified in clause 6.3.3 of TS 38.101-1 [2]. If not reported, the UE supports transient period of 10us.	Band	No	N/A	FR1 only
groupBeamReporting ndicates whether UE supports RSRP reporting for the group of two reference signals.BandNoN/AN/AgroupSINR-reporting-r16 ndicates whether UE supports group based L1-SINR reporting. UE indicates support of this feature shall indicate support of ssb-csirs-SINR-measurement-r16.BandNoN/AN/AandoverUTRA-FDD-r16 ndicates whether the UE supports NR to UTRA-FDD CELL_DCH CS handover for he PCell on the band. It is mandatory to support both UTRA-FDD measurement and event B triggered reporting, and periodic UTRA-FDD measurement and eporting if the UE supports HO to UTRA-FDD. If this field is included, then UE shall support IMS voice over NR. UE shall set the capability value consistently for all TDD-FR1 bands, and IDD-FR2 bands and all TD-FR2 bands respectively.BandNoN/AN/AmaxMIMO-LayersForMulti-DCI-mTRP-r16 ndicates the interpretation of maxNumber/MIMO-LayersPDSCH is interpreted as he maximum number of layers per PDSCH for multi-DCI multi-TRP operation. this field is included, maxNumber/MIMO-LayersPDSCH is interpreted as the maximum number of layers across two PDSCHs if having at least one RE workaped, for multi-DCI multi-TRP cC is counted two times toward J.NoN/AN/AOINTEeleaseCDFS-r16 nolicates whether the UE supports joint release in a DCI for two or more configured grant Type 2 configurations for a given BWP of a serving cell. The UE can include this feature only if the UE indicates supports of activeConfiguredGrant-r16.BandNoN/AN/AVOTE 1:For data rate calculation in clause 4.1.2, if this feature is indicated, each multi-DCI based multi-TRP CC is counted two times toward J.BandNoN/AN/AOintRelea	ndicates whether the UE supports 60 kHz subcarrier spacing with extended CP ength for reception of PDCCH, and PDSCH, and transmission of PUCCH, PUSCH,		No	N/A	N/A
groupSINR-reporting-r16 ndicates whether UE supports group based L1-SINR reporting. UE indicates support of this feature shall indicate support of ssb-csirs-SI/NR-measurement-r16.BandNoN/AN/AhandoverUTRA-FDD-r16 ndicates whether the UE supports NR to UTRA-FDD CELL_DCH CS handover for he PCell on the band. It is mandatory to support both UTRA-FDD measurement and reporting if the UE supports NO to UTRA-FDD measurement and reporting if the UE supports HO to UTRA-FDD. If this field is included, then UE shall support IMS voice over NR. UE shall set the capability value consistently for all FDD-FR1 bands, all TDD-FR1 bands and all TDD-FR2 bands respectively. maxMIMO-LayersPorMulti-DCI-mTRP-r16 ndicates the interpretation of maxNumberMIMO-LayersPDSCH for multi-DCI based mTRP. If this field is included, maxNumberMIMO-LayersPDSCH is interpreted as he maximum number of layers across two PDSCHs if having at least one RE overlapped, for multi-DCI multi-TRP operation. this field is not included, maxNumberMIMO-LayersPDSCH is interpreted as the maximum number of layers across two PDSCHs if having at least one RE overlapped, for multi-DCI multi-TRP operation. The UE that indicates support of this eature shall support overlapPDSCHsFullyFreqTime-r16.BandNoN/AN/ANOTE 1: For data rate calculation in clause 4.1.2, if this feature is indicated, each multi-DCI based multi-TRP Oper-r16BandNoN/AN/AN/AN/AN/AN/AN/AN/Andicates whether the UE supports joint release in a DCI for two or more configured grant Type 2 configuredGrant-r16.BandNoN/AN/AnointReleaseSPS-r16BandNoN/AN/AN/Andicates whether the UE supp	groupBeamReporting ndicates whether UE supports RSRP reporting for the group of two reference	Band	No	N/A	N/A
Indicates whether the UE supports NR to UTRA-FDD CELL_DCH CS handover for he PCell on the band. It is mandatory to support both UTRA-FDD measurement and event B triggered reporting, and periodic UTRA-FDD measurement and reporting if the UE supports HO to UTRA-FDD. If this field is included, then UE shall support IMS voice over NR. UE shall set the capability value consistently for all FDD-FR1 bands, all TDD-FR1 bands and all TDD-FR2 bands respectively.BandNoN/AN/AmaxMIMO-LayersForMulti-DCI-mTRP-r16BandNoN/AN/AN/Arolicates the interpretation of maxNumberMIMO-LayersPDSCH for multi-DCI based mTRP. If this field is included, maxNumberMIMO-LayersPDSCH is interpreted as the maximum number of layers per PDSCH for multi-DCI multi-TRP operation. ft his field is not included, maxNumberMIMO-LayersPDSCH is interpreted as the maximum number of layers across two PDSCHs if having at least one RE overlapped, for multi-DCI multi-TRP operation. The UE that indicates support of this eature shall support overlapPDSCHsFullyFreqTime-r16.BandNoN/AN/ANOTE 1:For data rate calculation in clause 4.1.2, if this feature is indicated, each multi-DCI based multi-TRP CC is counted two times toward J.BandNoN/AN/AiointReleaseConfiguredGrantType2-r16 ront the UE indicates supports of a serving cell. The UE can include this feature only if the UE supports joint release in a DCI for two or more configured grant Type 2 configurations for a given BWP of a serving cell. The UE can include this feature only if the UE indicates supports of serving cell. The UE can include this feature only if the UE indicates supports of serving cell. The UE can include this feature only if the UE indicates supports of serving cell. The UE can include t	groupSINR-reporting-r16 ndicates whether UE supports group based L1-SINR reporting. UE indicates	Band	No	N/A	N/A
maxMIMO-LayersForMulti-DCI-mTRP-r16 Indicates the interpretation of maxNumberMIMO-LayersPDSCH for multi-DCI based nTRP. If this field is included, maxNumberMIMO-LayersPDSCH is interpreted as he maximum number of layers per PDSCH for multi-DCI multi-TRP operation. f this field is not included, maxNumberMIMO-LayersPDSCH is interpreted as the maximum number of layers across two PDSCHs if having at least one RE poverlapped, for multi-DCI multi-TRP operation. The UE that indicates support of this eature shall support overlapPDSCHsFullyFreqTime-r16.BandNoN/AN/ANOTE 1:For data rate calculation in clause 4.1.2, if this feature is indicated, each multi-DCI based multi-TRP CC is counted two times toward J.BandNoN/AN/AiointReleaseConfiguredGrantType2-r16 ndicates whether the UE supports joint release in a DCI for two or more configured frant Type 2 configurations for a given BWP of a serving cell. The UE can include his feature only if the UE indicates supports joint release in a DCI for two or more SPS configurations for a given BWP of a serving cell. The UE can include this feature onlicates whether the UE supports joint release in a DCI for two or more SPS configurations for a given BWP of a serving cell. The UE can include this feature only if the UE indicates supports of sps-r16.NoN/AN/A	ndicates whether the UE supports NR to UTRA-FDD CELL_DCH CS handover for he PCell on the band. It is mandatory to support both UTRA-FDD measurement and event B triggered reporting, and periodic UTRA-FDD measurement and eporting if the UE supports HO to UTRA-FDD. If this field is included, then UE shal support IMS voice over NR. UE shall set the capability value consistently for all		No	N/A	N/A
nTRP. If this field is included, maxNumberMIMO-LayersPDSCH is interpreted as he maximum number of layers per PDSCH for multi-DCI multi-TRP operation. f this field is not included, maxNumberMIMO-LayersPDSCH is interpreted as the naximum number of layers across two PDSCHs if having at least one RE overlapped, for multi-DCI multi-TRP operation. The UE that indicates support of this eature shall support overlapPDSCHsFullyFreqTime-r16.BandNoN/ANOTE 1:For data rate calculation in clause 4.1.2, if this feature is indicated, each multi-DCI based multi-TRP CC is counted two times toward J.BandNoN/AN/AfointReleaseConfiguredGrantType2-r16 molactes whether the UE supports joint release in a DCI for two or more configured grant Type 2 configurations for a given BWP of a serving cell. The UE can include this feature only if the UE indicates supports joint release in a DCI for two or more SPS configurations for a given BWP of a serving cell. The UE can include this feature only if the UE supports joint release in a DCI for two or more SPS configurations for a given BWP of a serving cell. The UE can include this feature only if the UE indicates supports of sps-r16.NoN/AN/AfourtheleaseSPDCH-r16BandNoN/AN/A		Band	No	N/A	N/A
multi-DCI based multi-TRP CC is counted two times toward J.BandNoN/AiointReleaseConfiguredGrantType2-r16BandNoN/AN/Andicates whether the UE supports joint release in a DCI for two or more configured grant Type 2 configurations for a given BWP of a serving cell. The UE can include his feature only if the UE indicates supports of activeConfiguredGrant-r16.BandNoN/AN/AiointReleaseSPS-r16 ndicates whether the UE supports joint release in a DCI for two or more SPS configurations for a given BWP of a serving cell. The UE can include this feature only if the UE indicates supports of sps-r16.BandNoN/AN/AIf the UE indicates supports of sps-r16.BandNoN/AN/A	mTRP. If this field is included, <i>maxNumberMIMO-LayersPDSCH</i> is interpreted as the maximum number of layers per PDSCH for multi-DCI multi-TRP operation. If this field is not included, <i>maxNumberMIMO-LayersPDSCH</i> is interpreted as the maximum number of layers across two PDSCHs if having at least one RE poverlapped, for multi-DCI multi-TRP operation. The UE that indicates support of this feature shall support <i>overlapPDSCHsFullyFreqTime-r16</i> .				
Indicates whether the UE supports joint release in a DCI for two or more configured grant Type 2 configurations for a given BWP of a serving cell. The UE can include this feature only if the UE indicates supports of activeConfiguredGrant-r16.BandNoN/AN/AiointReleaseSPS-r16 Indicates whether the UE supports joint release in a DCI for two or more SPS configurations for a given BWP of a serving cell. The UE can include this feature only if the UE indicates supports of sps-r16.BandNoN/AN/AI/OWPAPR-DMRS-PDSCH-r16BandNoN/AN/AN/A			N 1	N1/A	
iointReleaseSPS-r16BandNoN/AN/AIndicates whether the UE supports joint release in a DCI for two or more SPS configurations for a given BWP of a serving cell. The UE can include this feature only if the UE indicates supports of <i>sps-r16</i> .BandNoN/AN/AIowPAPR-DMRS-PDSCH-r16BandNoN/AN/A	ndicates whether the UE supports joint release in a DCI for two or more configured grant Type 2 configurations for a given BWP of a serving cell. The UE can include		NO	N/A	N/A
owPAPR-DMRS-PDSCH-r16 Band No N/A N/A	<i>iointReleaseSPS-r16</i> ndicates whether the UE supports joint release in a DCI for two or more SPS configurations for a given BWP of a serving cell. The UE can include this feature	Band	No	N/A	N/A
	IowPAPR-DMRS-PDSCH-r16 Indicates whether the UE supports low PAPR DMRS for PDSCH.	Band	No	N/A	N/A

IowPAPR-DMRS-PUCCH-r16	Band	No	N/A	N/A
Indicates whether the UE supports low PAPR DMRS for PUCCH format 3 and format 4 with transform precoding and with pi/2 BPSK modulation. UE indicates				
support of this feature shall indicate support of <i>pucch-F3-4-HalfPi-BPSK</i> and any				
combination of support of <i>pucch-F3-WithFH</i> , <i>pucch-F4-WithFH</i> and <i>pucch-F1-3-</i>				
4WithoutFH.				
IowPAPR-DMRS-PUSCHwithoutPrecoding-r16	Band	No	N/A	N/A
Indicates whether the UE supports low PAPR DMRS for PUSCH without transform	Danu	INU	IN/A	
precoding.				
IowPAPR-DMRS-PUSCHwithPrecoding-r16	Band	No	N/A	N/A
Indicates whether the UE supports low PAPR DMRS for PUSCH with transform	Danu		IN/A	
precoding and with pi/2 BPSK modulation. UE indicates support of this feature shall				
indicate support of pusch-HalfPi-BPSK.				
macAue support of puscin hair r-br SK. maxNumberActivatedTCI-States-r16	Band	No	N/A	N/A
Indicates maximum number of activated TCI states. This capability signalling	Danu	INO	IN/A	IN/A
 includes the following: maxNumberPerCORESET-Pool-r16 indicates maximal number of activated 				
TCI states per CORESETPoolIndex per BWP per CC including data and				
control				
- maxTotalNumberAcrossCORESET-Pool-r16 indicates maximal total number				
of activated TCI states across CORESETPoolIndex per BWP per CC				
including data and control				
The LIE that indicates support of this facture shall support multiDOUM differences				
The UE that indicates support of this feature shall support <i>multiDCI-MultiTRP-r16</i> . <i>maxNumberCSI-RS-BFD</i>	Dend		N1/A	N1/A
	Band	CY	N/A	N/A
Indicates maximal number of CSI-RS resources 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.	Dand		N1/A	
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. maxNumberNonGroupBeamReporting	Band	Yes	N/A	N/A
Defines support of non-group based RSRP reporting using N_max RSRP values	Danu	res	IN/A	IN/A
reported.				
maxNumberRxBeam	Band	CY	N/A	N/A
	Danu		IN/A	
Defines whether UE supports receive beamforming switching using NZP CSI-RS				
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				
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				
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.	Dood	Ne	N1/A	FDA
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. <i>maxNumberRxTxBeamSwitchDL</i>	Band	No	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 Defines the number of Tx and Rx beam changes UE can perform on this band	Band	No	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 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	Band	No	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 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 the UE. In this release, the number of Tx and Rx beam changes for scs-15kHz and	Band	No	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 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 the UE. In this release, the number of Tx and Rx beam changes for scs-15kHz and scs-30kHz are not included.				only
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. <i>maxNumberRxTxBeamSwitchDL</i> 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 the UE. In this release, the number of Tx and Rx beam changes for scs-15kHz and scs-30kHz are not included. <i>maxNumberSCellBFR-r16</i>	Band Band	No	N/A N/A	only
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. <i>maxNumberRxTxBeamSwitchDL</i> 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 the UE. In this release, the number of Tx and Rx beam changes for scs-15kHz and scs-30kHz are not included. <i>maxNumberSCellBFR-r16</i> Defines the maximum number of SCells configured for SCell beam failure recovery				FR2 only 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 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 the UE. In this release, the number of Tx and Rx beam changes for scs-15kHz and scs-30kHz are not included. maxNumberSCelIBFR-r16				only

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.				
	Band	No	N/A	FR1
<i>maxUplinkDutyCycle-PC2-FR1</i> Indicates the maximum percentage of symbols during a certain evaluation period	Бапа	INO	IN/A	
that can be scheduled for uplink transmission so as to ensure compliance with				only
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. This capability is not				
applicable to IAB-MT.				
maxUplinkDutyCycle-FR2	Band	No	N/A	FR2
Indicates the maximum percentage of symbols during 1s that can be scheduled for	Dana		1 1/7 1	only
uplink transmission at the UE maximum transmission power, so as to ensure				Only
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]. This				
capability is not applicable to IAB-MT.				
maxUplinkDutyCycle-PC1dot5-MPE-FR1-r16	Band	No	N/A	FR1
Indicates the maximum percentage of symbols during a certain evaluation period				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 1.5 UE as specified in				
clause 6.2.1 of TS 38.101-1 [2]. If the field is absent, UE shall mitigate MPE				
autonomously by P-MPR or by other means and no restriction on scheduled uplink				
duty cycle is needed.				
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].				
mpr-PowerBoost-FR2-r16	Band	No	TDD	FR2
Indicates whether UE supports uplink transmission power boost by suspension of			only	only
in-band emission (IBE) requirements as specified in TS 38.101-2 [3].				
multipleRateMatchingEUTRA-CRS-r16	Band	No	N/A	FR1
Indicates whether the UE supports multiple E-UTRA CRS rate matching patterns,				only
which is supported only for FR1. The capability signalling comprises the following				
parameters:				
 maxNumberPatterns-r16 indicates the maximum number of LTE-CRS rate 				
matching patterns in total within a NR carrier using 15 kHz SCS. The UE can				
report the value larger than 2 only if UE reports the value of				
maxNumberNon-OverlapPatterns-r16 is larger than 1.				
- maxNumberNon-QuerlanDattorns r16 indicates the maximum number of				
 maxNumberNon-OverlapPatterns-r16 indicates the maximum number of LTE-CRS non-overlapping rate matching patterns within a NR carrier using 				
15 kHz SCS.				
The UE can include this feature only if the UE indicates support of				
rateMatchingLTE-CRS.				
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 tci-StatePDSCH. This field shall be set to supported.				
nonGroupSINR-reporting-r16	Band	No	N/A	N/A
Indicates N_max L1-SINR values reported when UE supports non-group based L1-				
SINR reporting. UE indicates support of this feature shall indicate support of ssb-				
csirs-SINR-measurement-r16.				
				·

Indicates whether the UE supports OLPC for SRS for positioning. The capability signaling comprises the following parameters. • olpc-SRS-PosBasedOnPRS-Serving-r16 indicates whether the UE supports OLPC for SRS for positioning based on PRS from the serving cell in the same band. The UE can include this field only if the UE supports NR-DL- PRS-ProcessingCapability-r16 difficult does not include this field; • olpc-SRS-PosBasedOnSBS-Neigh-r16 indicates whether the UE supports OLPC for SRS for positioning based on SSB from the neighbouring cell in the same band. The UE can include this field only if the UE supports OLPC for SRS for positioning based on SSB from the neighbouring cell in the same band. The UE can include this field only if the UE supports OLPC for SRS for positioning based on PRS from the neighbouring cell in the same band. The UE can include this field only if the UE supports ofte- SRS-PosBasedOnPRS-Serving-r16. Otherwise, the UE does not include this field; NOTE: A PRS from a PRS-only TP is treated as PRS from a non-serving cell. • maxNumberPathLossEstimateParServing-r16 indicates the maximum number optathloss estimates that the UE can simultaneously maintain for all the SRS resource sets for positioning pased on QRRS-SrS-PosBasedOnPRS-SerS- PosBasedOnPRS-SresPosBasedOnPRS-Sheigh-r16. Otherwise, the UE does not include this field. • maxNumberPathLossEstimateParServing-r16 indicates the maximum number optathloss estimates that the UE anipath cell if the UE supports any olgo-SRS-PosBasedOnPRS-Sheigh-r16. Otherwise, the UE does not include this field. • Otherwise, the UE does not include this field. • Destance the UE supports one-slot periodic TRS configuration only when not two consecutive slots are indicated as downlink slots by (dd-UL-UL- ConfigurationCommon or td-UL-UL-ConfigUedicate. If the UE supports this feature, the UE supports out of order operation for DL. The UE that indicates whether the UE supports out of order operation for DL. The UE that indicates support of this feature shall su	olpc-SRS-Pos-r16	Band	No	N/A	N/A																																																																																																																																																																								
• objc-SRS-PosBasedOnPRS-Serving-r16 indicates whether the UE supports OLPC for SRS for positioning based on PRS from the serving cell in the same band. The UE can include this field only if the UE supports <i>NR-OL- PRS-ProcessingCapability-r16</i> difficults whether the UE supports OLPC for SRS for positioning based on SSB from the neighbouring cell in the same band. The UE can include this field only if the UE supports OLPC for SRS for positioning based on SSB from the neighbouring cell in the same band. The UE can include this field only if the UE supports or OLPC for SRS for positioning based on SSB from the neighbouring cell in the same band. The UE can include this field only if the UE supports olgo- SRS-PosBasedOnPRS-Neigh-r16 indicates whether the UE supports OLPC for SRS for positioning per serving cell in the same band. The UE can include this field only if the UE supports olgo- SRS-PosBasedOnPRS-Serving-r16 indicates the maximum number of pathioss estimates that the UE can simultaneously maintain for all the SRF secource sets for positioning per serving cell for the PUSCHPUCCH/SRS the UE shall include this field if the UE supports any of opc-SRS-PosBasedOnPRS-Serving-r16, objc-SRS- PosBasedOnSB-Neigh-r16 and objc-SRS-PosBasedOnPRS-Neigh-r16. Otherwise, the UE does not include this field. oneSlotPeriodicTRS-r16 Indicates whether the UE supports one-slot periodic TRS configuration only when no two consecutive sitils are indicated as downlink sitils by <i>UdrUL-LL</i> . ConfigurationCommon or <i>UdrU-LD-Configuration</i> for DL. The UE that indicates swhether the UE supports on of order operation for DL. The uE that indicates whether the UE supports out of order operation for DL. The uE that indicates whether the UE supports out of order operation for DL. The UE that indicates whether the UE support out of order operation for UL. The UE that indicates support of this feature shall support multiDC/-MultTRP-r16. Band No	Indicates whether the UE supports OLPC for SRS for positioning. The capability	Dana																																																																																																																																																																											
OLPC for SRS for positioning based on PRS from the serving cell in the same band. The UE can include this field: Image: Canadian Canadia Canadian Canadian Canadian Canadian Canadian Canadian Canadi																																																																																																																																																																													
PRS-ProcessingCapability-r16 defined in TS 37:355 [22], and srs- PosResources-r16. Otherwise, the UE does not include this field; Image: Comparison of the Comparetice of the Comparison of the Comparison of the Comparison of																																																																																																																																																																													
PosResources-r16. Otherwise, the UE does not include this field; olpc-SRS-PosBasedOnSSB-Neigh-r16 inclicates whether the UE supports OLPC for SRS for positioning based on SSB from the neighbouring cell in the same band. The UE can include this field only if the UE supports olpc-SRS-PosBasedOnPRS-Neigh-r16 indicates whether the UE supports olpc-SRS-PosBasedOnPRS-Serving-r16. Otherwise, the UE does not include this field; objc-SRS-PosBasedOnPRS-Serving-r16. Otherwise, the UE does not include this field; objc-SRS-PosBasedOnPRS-Serving-r16. Otherwise, the UE does not include this field; NOTE: A PRS from a PRS-only TP is treated as PRS from a non-serving cell. maxNumberPathLossEstimatePerServing-r16 indicates the maximum number of pathloss estimates that the UE can simultaneously maintain for all the SR streaurce set for positioning per serving cell in addition to the up to four pathloss estimates that the UE maintains per serving cell for the PUECH/PUCCH/SRS transmissions. The UE shall include this field if the UE supports any of olpc-SRS-PosBasedOnPRS-Serving-r16. olpc-SRS-PosBasedOnPRS-Neigh-r16. Otherwise, the UE does not include this field. maxNumberTs the UE supports one-slot periodic TRS configuration only when not wo consecutive slots are indicated as downlink slots by td6/UL-DL-ConfigurationCommon or td6/UL-DL-ConfigDedicated. If the UE supports his feature. the UE supports out of order operation for DL. The UE that indicates support out-of-order operation for PDCCH to PDSCH. supportPDSCH+T6 indicates support out-of-order operation for PDCCH to PDSCH. supportPDSCH+T6 indicates support out-of-order operation for PDCCH to PDSCH. supportPDSCH+T6 indicates supp																																																																																																																																																																													
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indicates support of this feature shall support <i>multiDCI-MultiTRP-r16</i> . The capability signalling comprises the following parameters: - <i>supportPDCCH-ToPDSCH:</i> - <i>supportPDSCH-ToHARQ-ACK-r16</i> indicates support out-of-order operation for PDSCH to PDSCH; - <i>supportPDSCH-ToHARQ-ACK.</i> <i>outOfOrderOperationUL-r16</i> Indicates whether the UE supports out of order operation for UL. The UE that indicates support of this feature shall support <i>multiDCI-MultiTRP-r16</i> . Note: Same closed loop index for power control across PUSCHs associated with different <i>CORESETPoolIndex</i> values is not supported by a UE indicating the support of this feature when TPC accumulation is enabled. <i>overlapPDSCHsTullyFreqTime-r16</i> Indicates support of this feature shall support <i>multiDCI-MultiTRP-r16</i> . Note: A UE may assume that its maximum receive timing difference between the DL transmissions from two TRPs is within a Cyclic Prefix <i>overlapPDSCHsInTimePartiallyFreq-r16</i> Indicates support of this feature support of this feature shall support <i>multiDCI-MultiTRP-r16</i> . Note: A UE may assume that its maximum receive timing difference between the DL transmissions from two TRPs is within a Cyclic Prefix <i>overlapPDSCHsInTimePartiallyFreq-r16</i> Indicates support of this feature support of this feature shall support <i>multiDCI-MultiTRP-r16</i> . <i>overlapRateMatchingEUTRA-CRS-r16</i> Band No N/A FR1		Band	No	N/A	N/A																																																																																																																																																																								
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Indicates whether the LIE supports two LIE-CRS overlapping rate matching			No	N/A	FR1																																																																																																																																																																								
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	overlapRateMatchingEUTRA-CRS-r16 Indicates whether the UE supports two LTE-CRS overlapping rate matching	Band			only																																																																																																																																																																								
carrier. If the UE supports this feature, the UE needs to report multipleRateMatchingEUTRA-CRS-r16.	overlapRateMatchingEUTRA-CRS-r16 Indicates whether the UE supports two LTE-CRS overlapping rate matching patterns within a part of NR carrier using 15 kHz SCS overlapping with a LTE	Band																																																																																																																																																																											

pdsch-256QAM-FR2	Band	No	N/A	FR2
Indicates whether the UE supports 256QAM modulation scheme for PDSCH for FR2 as defined in 7.3.1.2 of TS 38.211 [6].				only
pdsch-MappingTypeB-Alt-r16	Band	No	N/A	FR1
ndicates whether the UE supports PDSCH Type B scheduling of length 9 and 10				only
OFDM symbols, and DMRS shift for length-10 symbols. If the UE supports this				
eature, the UE needs to report pdsch-MappingTypeB.				
periodicBeamReport	Band	Yes	N/A	N/A
ndicates 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	FR
ndicates whether UE supports power boosting for pi/2 BPSK, when applicable as	Danu		only	only
defined in 6.2 of TS 38.101-1 [2]. This capability is not applicable to IAB-MT.			only	oni
otrs-DensityRecommendationSetDL	Band	CY	N/A	N/A
For each supported sub-carrier spacing, indicates preferred threshold sets for				
letermining DL PTRS density. It is mandated for FR2. For each supported sub-				
arrier spacing, this field comprises:				
 two values of frequencyDensity; 				
- three values of <i>timeDensity</i> .				
stre-DensityPecommendationSet! !!	Band	No	N/A	N/A
otrs-DensityRecommendationSetUL For each supported sub-carrier spacing, indicates preferred threshold sets for	Danu		IN/A	IN/F
letermining UL PTRS density. For each supported sub-carrier spacing, this field				
omprises:				
- two values of frequencyDensity;				
- three values of <i>timeDensity</i> ,				
- five values of sampleDensity.				
bucch-SpatialRelInfoMAC-CE	Band	CY	N/A	N/A
ndicates whether the UE supports indication of PUCCH-spatialrelationinfo by a	Dana		1 1/7 1	1 1/7
MAC CE per PUCCH resource. It is mandatory for FR2 and optional for FR1.				
busch-256QAM	Band	No	N/A	N/A
ndicates whether the UE supports 256QAM modulation scheme for PUSCH as				
lefined in 6.3.1.2 of TS 38.211 [6].				
pusch-RepetitionMultiSlots-v1650	Band	Yes	N/A	N/A
ndicates whether the UE supports transmitting PUSCH scheduled by DCI format				
_1 when configured with higher layer parameter <i>pusch-AggregationFactor</i> > 1, as				
lefined in clause 6.1.2.1 of TS 38.214 [12]. This applies only to non-shared				
pectrum channel access. For shared spectrum channel access, <i>pusch</i> -				
RepetitionMultiSlots-r16 applies. UE shall set the capability value consistently for all				
DD-FR1 bands, all TDD-FR1 bands and all TDD-FR2 bands respectively.				
The UE only includes pusch-RepetitionMultiSlots-v1650 if pusch-				
RepetitionMultiSlots is absent.				
busch-TransCoherence	Band	No	N/A	N/A
Defines support of the uplink codebook subset by the UE for UL precoding for				
PUSCH transmission as described in clause 6.1.1.1 of TS 38.214 [12]. UE indicated				
upport of partial coherent codebook subset shall also support non-coherent				
odebook subset. UE indicated support of full coherent codebook subset shall also				
upport partial and non-coherent codebook subset.				
ateMatchingLTE-CRS	Band	Yes	N/A	N/A
ndicates whether the UE supports receiving PDSCH with resource mapping that				
xcludes the REs determined by the higher layer configuration LTE-carrier	1	No	N/A	FR
Excludes the REs determined by the higher layer configuration LTE-carrier onfiguring common RS, as specified in TS 38.214 [12].	Dand		IN/A	
excludes the REs determined by the higher layer configuration LTE-carrier configuring common RS, as specified in TS 38.214 [12].	Band			
Excludes the REs determined by the higher layer configuration LTE-carrier onfiguring common RS, as specified in TS 38.214 [12]. SeparateCRS-RateMatching-r16 Indicates whether the UE supports rate match around configured CRS patterns	Band			onl
xcludes the REs determined by the higher layer configuration LTE-carrier onfiguring common RS, as specified in TS 38.214 [12]. eparateCRS-RateMatching-r16 indicates whether the UE supports rate match around configured CRS patterns which is associated with CORESETPoolIndex (if configured) and are applied to the	Band			oni
excludes the REs determined by the higher layer configuration LTE-carrier configuring common RS, as specified in TS 38.214 [12]. ExeparateCRS-RateMatching-r16 Indicates whether the UE supports rate match around configured CRS patterns which is associated with CORESETPoolIndex (if configured) and are applied to the PDSCH scheduled with a DCI detected on a CORESET with the same value of	Band			oni
excludes the REs determined by the higher layer configuration LTE-carrier onfiguring common RS, as specified in TS 38.214 [12]. ExeparateCRS-RateMatching-r16 Indicates whether the UE supports rate match around configured CRS patterns which is associated with CORESETPoolIndex (if configured) and are applied to the	Band			oni

semi-PersistentL1-SINR-Report-PUCCH-r16	Band	No	N/A	N/A
Indicates whether the UE supports semi-persistent L1-SINR report on PUCCH. The	*			
UE indicating support of this feature shall include at least one of the following capabilities:				
 supportReportFormat1-2OFDM-syms-r16 indicates support of report on 				
PUCCH formats over 1 – 2 OFDM symbols once per slot (or piggybacked or a PUSCH)	n			
 supportReportFormat4-14OFDM-syms-r16 indicates support of report on 				
PUCCH formats over 4 – 14 OFDM symbols once per slot (or piggybacked on a PUSCH).				
The UE indicating support of this feature shall also indicate support of <i>ssb-csirs-</i> SINR-measurement-r16.				
semi-PersistentL1-SINR-Report-PUSCH-r16	Band	No	N/A	N/A
Indicates whether the UE supports semi-persistent L1-SINR report on PUSCH. The UE indicating support of this feature shall also indicate support of ssb-csirs-SINR-				
measurement-r16.				
simul-SpatialRelationUpdatePUCCHResGroup-r16	Band	No	N/A	N/A
ndicates whether the UE support PUCCH resource groups per BWP for				
simultaneous spatial relation update. The UE indicating support of this also				
ndicates the capabilities of supported SRS resources and maximum supported				
spatial relations for the supported bands using supportedSRS-Resources,				
maxNumberConfiguredSpatialRelations and pucch-SpatialRelInfoMAC-CE.				
simulTX-SRS-AntSwitchingIntraBandUL-CA-r16	Band	No	N/A	N/A
ndicates whether the UE support simultaneous transmission of SRS on different				
CCs for intra-band UL CA. The UE indicating support of this feature shall include at	:			
east one of the following capabilities:				
- supportSRS-xTyR-xLessThanY-r16 indicates support transmission of SRS				
for xTyR (x <y) and="" antenna="" based="" bm="" cb="" for="" ncb="" on<="" srs="" switching="" td=""><td></td><td></td><td></td><td></td></y)>				
different CCs in overlapped symbol(s) for intra-band UL CA.				
- supportSRS-xTyR-xEqualToY-r16 indicates support transmission of SRS for	r			
xTyR (x=y) based antenna switching and SRS for CB/NCB/BM on different				
CCs in overlapped symbol(s) for intra-band UL CA.				
- supportSRS-AntennaSwitching-r16 Indicates whether the UE support				
simultaneous transmission of SRS for antenna switching on different CCs in				
overlapped symbol(s) for intra-band UL CA.				
NOTE: For simultaneously antenna switching and antenna switching SRS in				
intra-band CAs with bands whose UL are switched together according to the reported <i>supportSRS-AntennaSwitching-r16</i> , the UE expects the)			
same configuration of xTyR across the different CCs and the SRS				
resources overlapped in time domain from UE perspective are from the				
same UE antenna ports.		N.	N1/A	N 1/A
simulSRS-MIMO-TransWithinBand-r16	Band	No	N/A	N/A
Indicates the number of SRS resources for positioning and SRS resource for MIMC				
on a symbol within a band across multiple CCs. The UE can include this field only i	r			
the UE supports <i>srs-PosResources-r16</i> . Otherwise, the UE does not include this				
simulSRS-TransWithinBand-r16	Band	No	N/A	N/A
Indicates the number of SRS resources for positioning on a symbol within a band				
across multiple CCs. The UE can include this field only if the UE supports srs-				
PosResources-r16. Otherwise, the UE does not include this field.				
simultaneousReceptionDiffTypeD-r16	Band	No	N/A	FR2
Indicates whether the UE supports simultaneous reception with different QCL Type				only
D reference signal as specified in TS38.213 [11].				

spatialRelations, spatialRelations-v1640			1	
 Indicates 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. maxNumberConfiguredSpatialRelations-v1640 indicates the maximum number of configured spatial relations per CC for PUCCH and SRS with UE supporting the configuration of maximum 64 PUCCH spatial relations per BWP per CC; 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; 	Band	FD	N/A	FD
 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. if 				
<i>maxNumberConfiguredSpatialRelations-v1640</i> is reported, UE shall report value <i>n96</i> in <i>maxNumberConfiguredSpatialRelations</i> .				
 spatialRelationsSRS-Pos-r16 Indicates whether the UE supports spatial relations for SRS for positioning. The capability signalling comprises the following parameters. spatialRelation-SRS-PosBasedOnSSB-Serving-r16 indicates whether the UE supports spatial relation for SRS for positioning based on SSB from the serving cell in the same band. The UE can include this field only if the UE supports srs-PosResources-r16. Otherwise, the UE does not include this field; spatialRelation-SRS-PosBasedOnCSI-RS-Serving-r16 indicates whether the 	Band	No	N/A	FR2 only
UE supports spatial relation for SRS for positioning based on CSI-RS from the serving cell in the same band. The UE can include this field only if the UE supports <i>spatialRelation-SRS-PosBasedOnSSB-Serving-r16</i> . Otherwise, the UE does not include this field;				
 spatialRelation-SRS-PosBasedOnPRS-Serving-r16 indicates whether the UE supports spatial relation for SRS for positioning based on PRS from the serving cell in the same band. The UE can include this field only if the UE supports any of DL PRS Resources for DL AoD, DL PRS Resources for DL- TDOA or DL PRS Resources for Multi-RTT defined in TS37.355 [22], or srs- PosResources-r16. Otherwise, the UE does not include this field; 				
 spatialRelation-SRS-PosBasedOnSRS-r16 indicates whether the UE supports spatial relation for SRS for positioning based on SRS in the same band. The UE can include this field only if the UE supports srs- PosResources-r16. Otherwise, the UE does not include this field; 				
- spatialRelation-SRS-PosBasedOnSSB-Neigh-r16 indicates whether the UE supports spatial relation for SRS for positioning based on SSB from the neighbouring cell in the same band. The UE can include this field only if the UE supports <i>spatialRelation-SRS-PosBasedOnSSB-Serving-r16</i> . Otherwise, the UE does not include this field;				
 spatialRelation-SRS-PosBasedOnPRS-Neigh-r16 indicates whether the UE supports spatial relation for SRS for positioning based on PRS from the neighbouring cell in the same band. The UE can include this field only if the 				
UE supports <i>spatialRelation-SRS-PosBasedOnPRS-Serving-r16</i> . Otherwise, the UE does not include this field;				

sp-BeamReportPUCCH Indicates support of semi-persistent 'CRI/RSRP' or 'SSBRI/RSRP' reporting using PUCCH formats 2, 3 and 4 in one slot.	Band	No	N/A	N/A
<i>sp-BeamReportPUSCH</i> Indicates support of semi-persistent 'CRI/RSRP' or 'SSBRI/RSRP' reporting on PUSCH.	Band	No	N/A	N/A
 sps-r16 Indicates whether the UE support of up to 8 configured SPS configurations in a BWP of a serving cell and up to 32 configured SPS configurations in a cell group. This field includes the following parameters: maxNumberConfigsPerBWP-r16 indicates the maximum number of active SPS configurations in a BWP of a serving cell. maxNumberConfigsAllCC-r16 indicates the maximum number of active SPS configurations across all serving cells in a MAC entity, and across MCG and SCG in case of NR-DC. The UE can include this feature only if the UE indicates supports of <i>downlinkSPS</i>. NOTE: For all the reported bands in FR1, a same X1 value is reported for maxNumberConfigsAllCC-r16. For all the reported bands in FR2, a same X2 value is reported for maxNumberConfigsAllCC-r16. The total number of active SPS configurations across all serving cells in FR1 is no greater than X1. The total number of active SPS configurations across all serving cells in FR2 is no greater than X2. If the CA have some serving cell(s) in FR1 and some serving cell(s) in FR2, the total number of active SPS configurations across all serving cells is no 	Band	No	N/A	N/A
greater than max(X1, X2). srs-AssocCSI-RS 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; - 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.	Band	No	N/A	N/A

	s-SINR-measurement-r16 the limitations of the UE support of SSB/CSI-RS for L1-SINR	Band	No	N/A	N/A
measurer					
•	ability signalling includes list of the following parameters: mitations:				
SS	axNumberSSB-CSIRS-OneTx-CMR-r16 indicates the maximum number of SB/CSI-RS (1TX) across all CCs within a band for Channel Measurement eport				
- ma	axNumberCSI-IM-NZP-IMR-res-r16 indicates the maximum number of SI-IM/NZP-IMR resources across all CCs within a band				
(2	axNumberCSIRS-2Tx-res-r16 indicates the maximum number of CSI-RS TX) resources across all CCs within a band for Channel Measurement				
	eport imitations:				
	axNumberSSB-CSIRS-res-r16 indicates the max number of SSB/CSI-RS				
- ma	sources across all CCs within a band as Channel Measurement Report axNumberCSI-IM-NZP-IMR-res-mem-r16 indicates the maximum number				
of Other limi	CSI-IM/NZP-IMR resources across all CCs within a band				
	pportedCSI-RS-Density-CMR-r16 indicates supported density of CSI-RS				
foi	r Channel Measurement Report.				
ар	axNumberAperiodicCSI-RS-Res-r16 indicates the maximum number of periodic CSI-RS resources across all CCs within a band configured to easure L1-SINR (including CMR and IMR)				
	pportedSINR-meas indicates the supported SINR measurements.				
-	supportedSINR-meas-r16 contains values {ssbWithCSI-IM, ssbWithNZP-IMR, csirsWithNZP-IMR, csi-RSWithoutIMR} representing {SSB as CMR				
	with dedicated CSI-IM, SSB as CMR with dedicated NZP IMR, CSI-RS as CMR with dedicated NZP IMR configured, CSI-RS as CMR without				
	dedicated IMR configured}.				
-	supportedSINR-meas-v1670 indicates a 4-bit bitmap {ssbWithCSI-IM, ssbWithNZP-IMR, csirsWithNZP-IMR, csi-RSWithoutIMR}, where the				
	leftmost bit corresponds to ssbWithCSI-IM, the next bit corresponds to				
	ssbWithNZP-IMR and so on. UE indicating <i>supportedSINR-meas-v1670</i> shall always indicate <i>supportedSINR-meas-r16.</i>				
UE suppo	orting this feature shall also indicate support of CSI-RS as CMR with				
	CSI-IM. UE indicating support of this feature shall also indicate support of				
	ReamReport and aperiodicBeamReport or sp-BeamReportPUCCH and sp- portPUSCH. UE indicating support of ssb-csirs-SINR-measurement-r16				
	port periodic and aperiodic L1-SINR report.				
NOTE 1:	The reference slot duration is the shortest slot duration defined for the				
	frequency range where the reported band belongs.				
NOTE 2:	For <i>maxNumberSSB-CSIRS-res-r16</i> and <i>maxNumberCSI-IM-NZP-IMR-</i> <i>res-mem-r16</i> the configured CSI-RS resources for both active and				
	inactive BWPs are counted.				
NOTE 3:					
	<i>IMR-res-r16</i> and <i>maxNumberCSIRS-2Tx-res-r16</i> , CSI-RS resources configured as CMR without dedicated IMR are counted both as CMR and				
	IMR.				
NOTE 4:	For maxNumberSSB-CSIRS-OneTx-CMR-r16, maxNumberCSI-IM-NZP-				
	<i>IMR-res-r16, maxNumberCSIRS-2Tx-res-r16, maxNumberAperiodicCSI-RS-Res-r16,</i> a SSB/CSI-RS resource is counted within the duration of a				
	reference slot in which the corresponding reference signals are				
	transmitted.				
NOTE 5:	For maxNumberSSB-CSIRS-OneTx-CMR-r16, maxNumberCSI-IM-NZP- IMR-res-r16, maxNumberCSIRS-2Tx-res-r16, maxNumberAperiodicCSI-				
	<i>RS-Res-r16</i> , if one resource used for L1-SINR measurement is referred				
	N times by one or more CSI reporting settings with reportQuantity-r16 =				
NOTE 6:	ssb-Index-SINR-r16 or cri-SINR-r16, it is counted N times. If more than one type of SINR measurement is indicated in				
NOTE 0.	supportedSINR-meas-v1670, it is left to UE implementation which SINR				
	measurement to indicate in supportedSINR-meas-r16.				
	64CandidateBeamRS-BFR-r16 UE support of configuring maximum 64 candidate beam RSs per BWP per	Band	No	N/A	N/A
	ndicating support of this feature shall also indicate support of				
maxNuml	berCSI-RS-BFD, maxNumberSSB-BFD and maxNumberCSI-RS-SSB-				
CBD.					

supportCodeWordSoftCombining-r16 Indicates whether UE supports codeword soft combining for FDMSchemeB. UE	Band	No	N/A	N/A
ndicates support of this feature depends on whether the supportFDM-SchemeB-r16				
s also supported.				
supportFDM-SchemeA-r16	Band	No	N/A	N/A
Indicates whether UE supports single DCI based FDMSchemeA.	.		N 1/A	
 supportInter-slotTDM-r16 Indicates whether UE supports single-DCI based inter-slot TDM. This capability signalling includes the following: supportRepNumPDSCH-TDRA-r16 indicates support of RepNumR16 in PDSCH-TimeDomainResourceAllocation and the maximum value of RepNumR16 maxTBS-Size-r16 indicates maximum TBS size. 	Band	No	N/A	N/A
- maxNumberTCI-states-r16 indicates the maximum number of TCI states.				
supportNewDMRS-Port-r16	Band	No	N/A	N/A
Indicates whether UE supports of new DMRS port entry {0,2,3}. UE supports this				
feature should indicate support singleDCI-SDM-scheme-r16 for the band.				
supportTDM-SchemeA-r16	Band	No	N/A	N/A
Indicates whether UE supports single DCI based TDMSchemeA. The capability				
signalling includes the maximum TBS size.	.	.		
supportTwoPortDL-PTRS-r16	Band	No	N/A	n/A
Indicates whether UE supports 2-port DL PT-RS. UE supports this feature should				
ndicate support singleDCI-SDM-scheme-r16 for the band. tci-StatePDSCH	Deret	Vez	N1/A	N1/A
	Band	Yes	N/A	N/A
Defines support of TCI-States for PDSCH. The capability signalling comprises the following parameters:				
- maxNumberConfiguredTCIstatesPerCC indicates the maximum number of				
configured TCI-states per CC for PDSCH. For FR2, the UE is mandated to				
set the value at least to 64 (i.e. value 128 is an optional value). For FR1, the				
UE is mandated to set these values at least to the maximum number of				
allowed SSBs in the supported band;				
- maxNumberActiveTCI-PerBWP indicates the maximum number of activated				
TCI-states per BWP per CC, including control and data. If a UE reports X				
active TCI state(s), it is not expected that more than X active QCL type D				
assumption(s) for any PDSCH and any CORESETs for a given BWP of a				
serving cell become active for the UE. The UE shall include this field.				
Note the UE is required to track only the active TCI states.				
The UE is mandated to report <i>tci-StatePDSCH</i> .				
trs-AdditionalBandwidth-r16	Band	No	FDD	FR1
Indicates the UE supported TRS bandwidths, in addition to 52 RBs, for a 10MHz UE			only	only
indicates the or supported the bandwidths, in addition to serves, for a TOWITZ DE	1			.
channel bandwidth. This field only applies for the BWPs configured with 52 RBs				
channel bandwidth. This field only applies for the BWPs configured with 52 RBs size and 15kHz SCS, in FDD bands.				
channel bandwidth. This field only applies for the BWPs configured with 52 RBs size and 15kHz SCS, in FDD bands. Value <i>trs-AddBW-Set1</i> indicates 28, 32, 36, 40, 44, 48 RBs. Value <i>trs-AddBW-Set2</i> indicates 32, 36, 40, 44, 48 RBs.				
channel bandwidth. This field only applies for the BWPs configured with 52 RBs size and 15kHz SCS, in FDD bands. Value <i>trs-AddBW-Set1</i> indicates 28, 32, 36, 40, 44, 48 RBs. Value <i>trs-AddBW-Set2</i> indicates 32, 36, 40, 44, 48 RBs. <i>twoPortsPTRS-UL</i>	Band	No	N/A	N/A
channel bandwidth. This field only applies for the BWPs configured with 52 RBs size and 15kHz SCS, in FDD bands. Value <i>trs-AddBW-Set1</i> indicates 28, 32, 36, 40, 44, 48 RBs. Value <i>trs-AddBW-Set2</i> indicates 32, 36, 40, 44, 48 RBs. twoPortsPTRS-UL Defines whether UE supports PT-RS with 2 antenna ports for UL transmission.				
channel bandwidth. This field only applies for the BWPs configured with 52 RBs size and 15kHz SCS, in FDD bands. Value <i>trs-AddBW-Set1</i> indicates 28, 32, 36, 40, 44, 48 RBs. Value <i>trs-AddBW-Set2</i> indicates 32, 36, 40, 44, 48 RBs. <i>twoPortsPTRS-UL</i> Defines whether UE supports PT-RS with 2 antenna ports for UL transmission. <i>type1-PUSCH-RepetitionMultiSlots-v1650</i>	Band Band	No	N/A N/A	
channel bandwidth. This field only applies for the BWPs configured with 52 RBs size and 15kHz SCS, in FDD bands. Value <i>trs-AddBW-Set1</i> indicates 28, 32, 36, 40, 44, 48 RBs. Value <i>trs-AddBW-Set2</i> indicates 32, 36, 40, 44, 48 RBs. <i>twoPortsPTRS-UL</i> Defines whether UE supports PT-RS with 2 antenna ports for UL transmission. <i>type1-PUSCH-RepetitionMultiSlots-v1650</i> ndicates whether the UE supports Type 1 PUSCH transmissions with configured				
channel bandwidth. This field only applies for the BWPs configured with 52 RBs size and 15kHz SCS, in FDD bands. Value <i>trs-AddBW-Set1</i> indicates 28, 32, 36, 40, 44, 48 RBs. Value <i>trs-AddBW-Set2</i> indicates 32, 36, 40, 44, 48 RBs. twoPortsPTRS-UL Defines whether UE supports PT-RS with 2 antenna ports for UL transmission. type1-PUSCH-RepetitionMultiSlots-v1650 Indicates whether the UE supports Type 1 PUSCH transmissions with configured grant as specified in TS 38.214 [12] with UL-TWG-repK value equal to 2, 4, or 8				
channel bandwidth. This field only applies for the BWPs configured with 52 RBs size and 15kHz SCS, in FDD bands. Value <i>trs-AddBW-Set1</i> indicates 28, 32, 36, 40, 44, 48 RBs. Value <i>trs-AddBW-Set2</i> indicates 32, 36, 40, 44, 48 RBs. twoPortsPTRS-UL Defines whether UE supports PT-RS with 2 antenna ports for UL transmission. type1-PUSCH-RepetitionMultiSlots-v1650 Indicates whether the UE supports Type 1 PUSCH transmissions with configured 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				
channel bandwidth. This field only applies for the BWPs configured with 52 RBs size and 15kHz SCS, in FDD bands. Value <i>trs-AddBW-Set1</i> indicates 28, 32, 36, 40, 44, 48 RBs. Value <i>trs-AddBW-Set2</i> indicates 32, 36, 40, 44, 48 RBs. twoPortsPTRS-UL Defines whether UE supports PT-RS with 2 antenna ports for UL transmission. type1-PUSCH-RepetitionMultiSlots-v1650 Indicates whether the UE supports Type 1 PUSCH transmissions with configured 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				
channel bandwidth. This field only applies for the BWPs configured with 52 RBs size and 15kHz SCS, in FDD bands. Value <i>trs-AddBW-Set1</i> indicates 28, 32, 36, 40, 44, 48 RBs. Value <i>trs-AddBW-Set2</i> indicates 32, 36, 40, 44, 48 RBs. <i>twoPortsPTRS-UL</i> Defines whether UE supports PT-RS with 2 antenna ports for UL transmission. <i>type1-PUSCH-RepetitionMultiSlots-v1650</i> Indicates whether the UE supports Type 1 PUSCH transmissions with configured 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				
channel bandwidth. This field only applies for the BWPs configured with 52 RBs size and 15kHz SCS, in FDD bands. Value <i>trs-AddBW-Set1</i> indicates 28, 32, 36, 40, 44, 48 RBs. Value <i>trs-AddBW-Set2</i> indicates 32, 36, 40, 44, 48 RBs. twoPortsPTRS-UL Defines whether UE supports PT-RS with 2 antenna ports for UL transmission. type1-PUSCH-RepetitionMultiSlots-v1650 Indicates whether the UE supports Type 1 PUSCH transmissions with configured 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. This applies only to non-shared				
channel bandwidth. This field only applies for the BWPs configured with 52 RBs size and 15kHz SCS, in FDD bands. Value <i>trs-AddBW-Set1</i> indicates 28, 32, 36, 40, 44, 48 RBs. Value <i>trs-AddBW-Set2</i> indicates 32, 36, 40, 44, 48 RBs. twoPortsPTRS-UL Defines whether UE supports PT-RS with 2 antenna ports for UL transmission. type1-PUSCH-RepetitionMultiSlots-v1650 ndicates whether the UE supports Type 1 PUSCH transmissions with configured 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. This applies only to non-shared spectrum channel access. For shared spectrum channel access, <i>type1-PUSCH</i> -				
channel bandwidth. This field only applies for the BWPs configured with 52 RBs size and 15kHz SCS, in FDD bands. Value <i>trs-AddBW-Set1</i> indicates 28, 32, 36, 40, 44, 48 RBs. Value <i>trs-AddBW-Set2</i> indicates 32, 36, 40, 44, 48 RBs. <i>twoPortsPTRS-UL</i> Defines whether UE supports PT-RS with 2 antenna ports for UL transmission. <i>type1-PUSCH-RepetitionMultiSlots-v1650</i> Indicates whether the UE supports Type 1 PUSCH transmissions with configured 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. This applies only to non-shared spectrum channel access. For shared spectrum channel access, <i>type1-PUSCH- RepetitionMultiSlots-r16</i> applies. UE shall set the capability value consistently for all				
Addition to 52 KBs, for a forming of a formi				N/A N/A

tuno2 DUSCH DepotitionMultiSlate utGEO		Pord	No	NI/A	N1/A
type2-PUSCH-RepetitionMultiSlots-v1650 Indicates whether the UE supports Type 2 PUSCH transmissions with config	igurad	Band	No	N/A	N/A
grant as specified in TS 38.214 [12] with UL-TWG-repK value equal to 2, 4,					
with a single repetition of the transport block within each slot, and redundan					
version pattern as indicated by UL-TWG-RV-rep. A UE supporting this featu					
also support Type 2 PUSCH transmissions with configured grant as specifie					
38.214 [12] with UL-TWG-repK value of one. This applies only to non-share					
spectrum channel access. For shared spectrum channel access, type2-PUS					
RepetitionMultiSlots-r16 applies. UE shall set the capability value consistent					
FDD-FR1 bands, all TDD-FR1 bands and all TDD-FR2 bands respectively.	,				
The UE only includes type2-PUSCH-RepetitionMultiSlots-v1650 if type2-PU	JSCH-				
RepetitionMultiSlots is absent		David	NLa	N1/A	ED4
txDiversity-r16		Band	No	N/A	FR1
Indicates whether the UE supports transparent Tx diversity requirements as	S				only
specified in the suffix G clauses of TS 38.101-1 [2] (see also clauses 4.2 an	10 4.3 01				
TS38.101-1 [2]). ue-PowerClass, ue-PowerClass-v1610		Band	Yes	N/A	N/A
<i>ue-PowerClass, ue-PowerClass-v1610</i> For FR1, if the UE supports the different UE power class than the default UI	Enowor	Band	res	IN/A	IN/A
class as defined in clause 6.2 of TS 38.101-1 [2], the UE shall report the su					
UE power class in this field. For FR2, UE shall report the supported UE pow					
as defined in clause 6 and 7 of TS 38.101-2 [3] in this field. This capability is					
applicable to IAB-MT.	STIDE				
uplinkBeamManagement		Band	No	N/A	FR2
Defines support of beam management for UL. This capability signalling com	nnrises	Danu	INU		only
the following parameters:	Inpliaca				Only
 maxNumberSRS-ResourcePerSet-BM indicates the maximum numb 	per of				
SRS resources per SRS resource set configurable for beam manage					
supported by the UE.					
 maxNumberSRS-ResourceSet indicates the maximum number of SF 	RS				
resource sets configurable for beam management, supported by the					
If the UE does not set beamCorrespondenceWithoutUL-BeamSweeping to					
supported, the UE shall report this capability. This feature is optional for the	UE that				
supports beam correspondence without uplink beam sweeping as defined ir					
6.6, TS 38.101-2 [3].					
NOTE: The network uses <i>maxNumberSRS-ResourceSet</i> to determine th					
maximum number of SRS resource sets that can be continued to					
maximum number of SRS resource sets that can be configured to					
for periodic/semi-persistent/aperiodic configurations as below:					
for periodic/semi-persistent/aperiodic configurations as below: Maximum number of SRS Additional constraint on the maxi					
for periodic/semi-persistent/aperiodic configurations as below: Maximum number of SRS resource sets across all time Additional constraint on the maxi number of SRS resource sets					
for periodic/semi-persistent/aperiodic configurations as below: Maximum number of SRS resource sets across all time domain behaviour Additional constraint on the maximum number of SRS resource sets configured to the UE for each	imum				
for periodic/semi-persistent/aperiodic configurations as below: Maximum number of SRS resource sets across all time domain behaviour (periodic/semi- Maximum number of SRS resource sets across all time domain behaviour (periodic/semi-	imum				
for periodic/semi-persistent/aperiodic configurations as below: Maximum number of SRS resource sets across all time domain behaviour (periodic/semi- persistent/aperiodic) reported in for periodic/semi- persistent/aperiodic configurations as below: Additional constraint on the maxi number of SRS resource sets configured to the UE for each supported time domain behaviou (periodic/semi-persistent/aperiodic)	imum				
for periodic/semi-persistent/aperiodic configurations as below: Maximum number of SRS resource sets across all time domain behaviour (periodic/semi-	imum				
for periodic/semi-persistent/aperiodic configurations as below:Maximum number of SRS resource sets across all time domain behaviour (periodic/semi- persistent/aperiodic) reported in maxNumberSRS-ResourceSetAdditional constraint on the maximum number of SRS resource sets configured to the UE for each supported time domain behaviou (periodic/semi-persistent/aperiodic) resourceSet	imum				
for periodic/semi-persistent/aperiodic configurations as below:Maximum number of SRS resource sets across all time domain behaviour (periodic/semi- persistent/aperiodic) reported in maxNumberSRS-ResourceSetAdditional constraint on the maximum number of SRS resource sets configured to the UE for each supported time domain behaviou (periodic/semi-persistent/aperiodic) reported in 11121	imum				
for periodic/semi-persistent/aperiodic configurations as below:Maximum number of SRS resource sets across all time domain behaviour (periodic/semi- persistent/aperiodic) reported in maxNumberSRS-ResourceSetAdditional constraint on the maxin number of SRS resource sets configured to the UE for each supported time domain behaviou (periodic/semi-persistent/aperiodic)112131	imum				
for periodic/semi-persistent/aperiodic configurations as below:Maximum number of SRS resource sets across all time domain behaviour (periodic/semi- persistent/aperiodic) reported in maxNumberSRS-ResourceSetAdditional constraint on the maximumber of SRS resource sets configured to the UE for each supported time domain behaviou (periodic/semi-persistent/aperiodic)11213142	imum				
for periodic/semi-persistent/aperiodic configurations as below:Maximum number of SRS resource sets across all time domain behaviour (periodic/semi- persistent/aperiodic) reported in maxNumberSRS-ResourceSetAdditional constraint on the maximumber of SRS resource sets configured to the UE for each supported time domain behaviou (periodic/semi-persistent/aperiodic)1121314252	imum				
for periodic/semi-persistent/aperiodic configurations as below:Maximum number of SRS resource sets across all time domain behaviour (periodic/semi- persistent/aperiodic) reported in maxNumberSRS-ResourceSetAdditional constraint on the maximumber of SRS resource sets configured to the UE for each supported time domain behaviou (periodic/semi-persistent/aperiodic)11213142	imum				

4.2.7.2a SharedSpectrumChAccessParamsPerBand

Definitions for parameters	Per	М	FDD- TDD DIFF	FR1- FR2 DIFF
<i>ul-DynamicChAccess-r16</i> Indicates whether the UE supports UL channel access for dynamic channel access mode. Support of this feature is mandatory if UE supports any of the deployment scenarios A.2, B, C, D and E in Annex B.3 of TS 38.300 [28] with dynamic channel access mode.	Band	CY	N/A	N/A
<i>ul-Semi-StaticChAccess-r16</i> Indicates whether the UE supports UL channel access for semi-static channel access mode. Support of this feature is mandatory if UE supports any of the deployment scenarios A.2, B, C, D and E in Annex B.3 of TS 38.300 [28] with semi-static channel access mode.	Band	CY	N/A	N/A
ssb-RRM-DynamicChAccess-r16 Indicates whether the UE supports SSB-based RRM for dynamic channel access mode. Support of this feature is mandatory if UE supports any of the deployment scenarios A.1, A.2, B, C, D and E in Annex B.3 of TS 38.300 [28] with dynamic channel access mode.	Band	CY	N/A	N/A
ssb-RRM-Semi-StaticChAccess-r16 Indicates whether the UE supports SSB-based RRM for semi-static channel access mode, when SMTC window is no longer than the fixed frame period. Support of this feature is mandatory if UE supports any of the deployment scenarios A.1, A.2, B, C, D and E in Annex B.3 of TS 38.300 [28] with semi-static channel access mode.	Band	CY	N/A	N/A
<i>mib-Acquisition-r16</i> Indicates whether the UE supports acquiring MIB on an unlicensed cell for SpCell. Support of this feature is mandatory if UE supports any of the deployment scenarios B, C, D and E in Annex B.3 of TS 38.300 [28].	Band	CY	N/A	N/A
ssb-RLM-DynamicChAccess-r16 Indicates whether the UE supports SSB-based RLM for dynamic channel access mode. Support of this feature is mandatory if UE supports any of the deployment scenarios B, C, D and E in Annex B.3 of TS 38.300 [28] with dynamic channel access mode.	Band	CY	N/A	N/A
ssb-RLM-Semi-StaticChAccess-r16 Indicates whether the UE supports SSB-based RLM for semi-static channel access mode, when discovery burst transmission window is no longer than the fixed frame period. Support of this feature is mandatory if UE supports any of the deployment scenarios B, C, D and E in Annex B.3 of TS 38.300 [28] with semi-static channel access	Band	CY	N/A	N/A
mode. sib1-Acquisition-r16 Indicates whether the UE supports acquiring SIB1 on an unlicensed cell for PCell. Support of this feature is mandatory if UE supports any of the deployment scenarios C and D in Annex B.3 of TS 38.300 [28].	Band	CY	N/A	N/A
extRA-ResponseWindow-r16 Indicates whether the UE supports the configuration of maximum length of RAR window with a value larger than 10ms and up to 40ms by decoding of the 2 LSBs of SFN in the DCI format 1_0 for 4-step RA type. Support of this feature is mandatory if the UE supports any of the deployment scenarios B, C, D and E in Annex B.3 of TS 38.300 [28].	Band	CY	N/A	N/A
ssb-BFD-CBD-dynamicChannelAccess-r16 Indicates whether the UE supports SSB based Beam Failure Detection and Candidate Beam Detection with N _{SSB} QCL for dynamic channel access mode.	Band	No	N/A	N/A
ssb-BFD-CBD-semi-staticChannelAccess-r16 Indicates whether the UE supports SSB based Beam Failure Detection and Candidate Beam Detection with N _{SSB} ^{QCL} for semi-static channel access mode.	Band	No	N/A	N/A
<i>csi-RS-BFD-CBD-r16</i> Indicates whether the UE supports CSI-RS based Beam Failure Detection and Candidate Beam Detection for shared spectrum operation.	Band	No	N/A	N/A
<i>ul-ChannelBW-SCell-10mhz-r16</i> Indicates whether the UE supports 10 MHz of LBT bandwidth for an SCell. A UE that supports this feature shall also support <i>ul-DynamicChAccess-r16</i> or <i>ul-Semi-StaticChAccess-r16</i> .	Band	No	N/A	N/A

<i>rssi-ChannelOccupancyReporting-r16</i> Indicates whether the UE supports RSSI measurements and channel occupancy reporting.	Band	No	N/A	N/A
srs-StartAnyOFDM-Symbol-r16 Indicates whether the UE supports transmitting SRS starting in all symbols (0 to 13) of a slot. This capability is also applicable to a frequency band that does not require shared spectrum access.	Band	No	N/A	N/A
searchSpaceFreqMonitorLocation-r16 Indicates the maximum number of frequency domain locations supported by the UE, for a search space set configuration with <i>freqMonitorLocations-r16</i> .	Band	No	N/A	N/A
coreset-RB-Offset-r16 Indicates whether the UE supports CORESET configuration with <i>rb-Offset-r16</i> . This capability is also applicable to a frequency band that does not require shared spectrum access.	Band	No	N/A	N/A
<i>cgi-Acquisition-r16</i> Indicates whether the UE supports acquisition of CGI information from a neighbouring NR unlicensed cell in an unlicensed carrier by reading SIB1 of the neighbouring unlicensed cell and reporting the acquired information to the network.	Band	No	N/A	N/A
configuredUL-Tx-r16 Indicates whether the UE supports configuration of enableConfiguredUL-r16 and enable transmission of higher-layer configured UL (SRS, PUCCH, CG-PUSCH, etc) when SFI field in DCI 2_0 is configured but DCI 2_0 is not detected.	Band	No	N/A	N/A
<i>prach-Wideband-r16</i> Indicates whether the UE supports enhanced PRACH design for operation with shared spectrum channel access by adopting a single long ZC sequence, with ZC sequence = 1151 for 15 kHz and ZC sequence = 571 for 30 kHz.	Band	No	N/A	N/A
<i>dci-AvailableRB-Set-r16</i> Indicates whether the UE supports monitoring DCI 2_0 to read available RB set indicator.	Band	No	N/A	N/A
<i>dci-ChOccupancyDuration-r16</i> Indicates whether the UE supports monitoring DCI 2_0 to read COT duration.	Band	No	N/A	N/A
<i>typeB-PDSCH-length-r16</i> Indicates whether the UE supports 1. Type B PDSCH length {3, 5, 6, 8, 9, 10, 11, 12, 13} without DMRS shift due to CRS collision. This capability is also applicable to a frequency band that does not require shared spectrum access.	Band	No	N/A	N/A
 searchSpaceSwitchWithDCI-r16 Indicates whether the UE supports switching between two groups of search space sets with DCI 2_0 monitoring that comprises of the following functional components: Monitor DCI 2_0 with a search space set switching field; Support switching the search space set group with PDCCH decoding in group 1; Support a timer to switch back to original search space set group; Monitor DCI 2_0 for channel occupancy time and use the end of channel occupancy time to switch back to the original search space set group. The UE can switch search space set groups for different cells independently, unless the UE supports <i>jointSearchSpaceSwitchAcrossCells-r16</i>. The UE supports search space set group switching capability-1: P=25/25/25 symbols for µ=0/1/2, unless the UE supports <i>searchSpaceSwitchCapability2-r16</i>. The UE supports search space 	Band	No	N/A	N/A
switching triggers to be configured for up to 4 cells or 4 cell groups. <i>extendedSearchSpaceSwitchWithDCI-r16</i> Indicates whether the UE supports search space switching triggers to be individually configured for up to 16 cells. UE indicating support of this feature shall indicate support of <i>searchSpaceSwitchWithDCI-r16</i> .	Band	No	N/A	N/A

searchSpaceSwitchWithoutDCI-r16	Band	No	N/A	N/A
Indicates whether the UE supports switching between two groups of search space sets without DCI 2_0 monitoring (i.e. implicit PDCCH decoding) that comprises of	Danu	NO	N/A	
 the following functional components: Support switching the search space set group with PDCCH decoding in 				
group 1;				
- Support a timer to switch back to original search space set group.				
The UE can switch search space set groups for different cells independently, unless the UE supports <i>jointSearchSpaceSwitchAcrossCells-r16</i> . The UE supports search				
space set group switching capability-1: $P=25/25/25$ symbols for $\mu=0/1/2$, unless the UE supports <i>searchSpaceSwitchCapability2-r16</i> .				
searchSpaceSwitchCapability2-r16	Band	No	N/A	N/A
Indicates whether the UE supports search space set group switching Capability-2: P=10/12/22 symbols for $\mu = 0/1/2$ SCS. If the UE supports this feature, the UE needs to report <i>searchSpaceSwitchWithDCI-r16</i> or <i>searchSpaceSwitchWithoutDCI-r16</i> .				
non-numericalPDSCH-HARQ-timing-r16 Indicates whether the UE supports configuration of a value for <i>dl-DataToUL-ACK-</i>	Band	No	N/A	N/A
<i>r</i> 16 indicating an inapplicable time to report HARQ ACK. <i>enhancedDynamicHARQ-codebook-r</i> 16	Band	No	N/A	N/A
Indicates whether the UE supports enhanced dynamic HARQ codebook supporting grouping of HARQ ACK and triggering the retransmission of HARQ ACK in each group. The enhanced dynamic HARQ codebook comprises of the following functional components: - Support of bit fields signalling PDSCH HARQ group index and NFI in DCI 1_1 (configuration of nfi-TotalDAI-Included);				
 Support of bit field in DCI 0_1 for other group total DAI if configured. (configuration of ul-TotalDAI-Included); 				
 Support the retransmission of HARQ ACK (pdsch-HARQ-ACK-Codebook = enhancedDynamic-r16). 				
This capability is also applicable to a frequency band that does not require shared spectrum access.				
oneShotHARQ-feedback-r16	Band	No	N/A	N/A
Indicates whether the UE supports one shot HARQ ACK feedback comprised of the following functional components:				
 Support feedback of type 3 HARQ-ACK codebook, triggered by a DCI 1_1 scheduling a PDSCH; 				
 Support feedback of type 3 HARQ-ACK codebook, triggered by a DCI 1_1 without scheduling a PDSCH using a reserved FDRA value. 				
This capability is also applicable to a frequency band that does not require shared spectrum access.				
multiPUSCH-UL-grant-r16	Band	No	N/A	N/A
Indicates whether the UE supports scheduling up to 8 PUSCH with a single DCI 0_1. This capability is also applicable to a frequency band that does not require shared spectrum access.				
csi-RS-RLM-r16	Band	No	N/A	N/A
Indicates whether the UE supports CSI-RS based RLM for NR-Unlicensed. csi-RSRP-AndRSRQ-MeasWithSSB-r16	Band	No	N/A	N/A
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 in shared spectrum channel access.	Band			
csi-RSRP-AndRSRQ-MeasWithoutSSB-r16	Band	No	N/A	N/A
CSI-RSRP-AIIURSRQ-IMEASWILIIOUISSB-I 10	1	1		

ani SIND Mana #16	Dand	No	NI/A	N/A
<i>csi-SINR-Meas-r16</i> Indicates whether the UE can perform CSI-SINR measurements based on	Band	No	N/A	IN/A
configured CSI-RS resources as specified in TS 38.215 [13] in shared spectrum				
channel access. If the UE supports this feature, the UE needs to report				
maxNumberCSI-RS-RRM-RS-SINR. UE indicating support of this feature shall				
indicate support of csi-RSRP-AndRSRQ-MeasWithSSB-r16.				
ssb-AndCSI-RS-RLM-r16	Band	No	N/A	N/A
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] in shared spectrum channel access. If the UE supports this feature, the				
UE needs to report maxNumberResource-CSI-RS-RLM.				
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UE indicating support of this feature shall indicate support of <i>csi-RS-RLM-r16</i> and sitter ash <i>RIM</i> Dynamic Charges <i>r16</i> or ash <i>RIM</i> Sami Static Charges <i>r16</i>				
either ssb-RLM-DynamicChAccess-r16 or ssb-RLM-Semi-StaticChAccess-r16. csi-RS-CFRA-ForHO-r16	Band	No	N/A	N/A
Indicates whether the UE can perform reconfiguration with sync using a contention	Danu	INU	IN/A	IN/A
free random access with 4-step RA type on PRACH resources that are associated				
with CSI-RS resources of the target cell in shared spectrum channel access.				
UE indicating support of this feature shall indicate support of either csi-RSRP-				
AndRSRQ-MeasWithSSB-r16 or csi-RSRP-AndRSRQ-MeasWithoutSSB-r16.				
periodicAndSemi-PersistentCSI-RS-r16	Band	No	N/A	N/A
indicates whether the UE supports validating P/SP-CSI-RS reception when				
receiving a DCI granting a PDSCH over the same set of symbols, and when				
receiving a DCI triggering an A-CSI-RS over the same set of symbols.				
pusch-PRB-interlace-r16	Band	No	N/A	N/A
Indicates whether the UE supports PRB interlace frequency domain resource				
allocation for PUSCH. pucch-F0-F1-PRB-Interlace-r16	Band	No	N/A	N/A
Indicates whether the UE supports PRB interlace frequency domain resource	Band	INO	N/A	IN/A
allocation for PUCCH format 0, 1, 2 and 3.				
occ-PRB-PF2-PF3-r16	Band	No	N/A	N/A
Indicates whether the UE supports OCC for PRB interface mapping for PUCCH	Danu	NO		IN/A
format 2 and 3. If the UE supports this feature, the UE needs to report <i>pucch-F0-F1-</i>				
PRB-Interlace-r16.				
extCP-rangeCG-PUSCH-r16	Band	No	N/A	N/A
Indicates whether the UE supports generating a CP extension of length longer than				
1 symbol for Configured Grant PUSCH transmission. If the UE supports this feature,				
the UE needs to report configuredUL-GrantType1 and/or configuredUL-GrantType2.				
configuredGrantWithReTx-r16	Band	No	N/A	N/A
Indicates whether the UE supports configured grant with retransmission in				
configured grant resource, comprised of retransmission timer, DFI monitoring and				
CG-UCI in CG-PUSCH. If the UE supports this feature, the UE needs to report				
configuredUL-GrantType1 and/or configuredUL-GrantType2. ed-Threshold-r16	Band	No	N/A	N/A
Indicates whether the UE supports using ED threshold given by gNB for UL to DL	Banu	INO	IN/A	IN/A
COT sharing. A UE that supports this feature shall also support <i>ul</i> -				
DynamicChAccess-r16.	1			
	Band	No	N/A	N/A
ul-DL-COT-Sharing-r16	Band	No	N/A	N/A
<i>ul-DL-COT-Sharing-r16</i> Indicates whether the UE supports UL to DL COT sharing. A UE that supports this feature shall also support <i>ul-DynamicChAccess-r16</i> .	Band	No		
<i>ul-DL-COT-Sharing-r16</i> Indicates whether the UE supports UL to DL COT sharing. A UE that supports this feature shall also support <i>ul-DynamicChAccess-r16.</i> <i>mux-CG-UCI-HARQ-ACK-r16</i>	Band Band	No No	N/A N/A	N/A N/A
<i>ul-DL-COT-Sharing-r16</i> Indicates whether the UE supports UL to DL COT sharing. A UE that supports this feature shall also support <i>ul-DynamicChAccess-r16.</i> <i>mux-CG-UCI-HARQ-ACK-r16</i> Indicates whether the UE supports multiplexing CG-UCI with HARQ ACK. If the UE				
<i>ul-DL-COT-Sharing-r16</i> Indicates whether the UE supports UL to DL COT sharing. A UE that supports this feature shall also support <i>ul-DynamicChAccess-r16</i> . <i>mux-CG-UCI-HARQ-ACK-r16</i> Indicates whether the UE supports multiplexing CG-UCI with HARQ ACK. If the UE supports this feature, the UE needs to report <i>configuredGrantWithReTx-r16</i> .	Band	No	N/A	N/A
<i>ul-DL-COT-Sharing-r16</i> Indicates whether the UE supports UL to DL COT sharing. A UE that supports this feature shall also support <i>ul-DynamicChAccess-r16</i> . <i>mux-CG-UCI-HARQ-ACK-r16</i> Indicates whether the UE supports multiplexing CG-UCI with HARQ ACK. If the UE supports this feature, the UE needs to report <i>configuredGrantWithReTx-r16</i> . <i>cg-resourceConfig-r16</i>				
<i>ul-DL-COT-Sharing-r16</i> Indicates whether the UE supports UL to DL COT sharing. A UE that supports this feature shall also support <i>ul-DynamicChAccess-r16</i> . <i>mux-CG-UCI-HARQ-ACK-r16</i> Indicates whether the UE supports multiplexing CG-UCI with HARQ ACK. If the UE supports this feature, the UE needs to report <i>configuredGrantWithReTx-r16</i> . <i>cg-resourceConfig-r16</i> Indicates whether the UE supports configuration of resources with <i>cg-nrofSlots-r16</i>	Band	No	N/A	N/A
<i>ul-DL-COT-Sharing-r16</i> Indicates whether the UE supports UL to DL COT sharing. A UE that supports this feature shall also support <i>ul-DynamicChAccess-r16</i> . <i>mux-CG-UCI-HARQ-ACK-r16</i> Indicates whether the UE supports multiplexing CG-UCI with HARQ ACK. If the UE supports this feature, the UE needs to report <i>configuredGrantWithReTx-r16</i> . <i>cg-resourceConfig-r16</i> Indicates whether the UE supports configuration of resources with <i>cg-nrofSlots-r16</i> and <i>cg-nrofPUSCH-InSlot-r16</i> . If the UE supports this feature, the UE needs to	Band	No	N/A	N/A
<i>ul-DL-COT-Sharing-r16</i> Indicates whether the UE supports UL to DL COT sharing. A UE that supports this feature shall also support <i>ul-DynamicChAccess-r16</i> . <i>mux-CG-UCI-HARQ-ACK-r16</i> Indicates whether the UE supports multiplexing CG-UCI with HARQ ACK. If the UE supports this feature, the UE needs to report <i>configuredGrantWithReTx-r16</i> . <i>cg-resourceConfig-r16</i> Indicates whether the UE supports configuration of resources with <i>cg-nrofSlots-r16</i> and <i>cg-nrofPUSCH-InSlot-r16</i> . If the UE supports this feature, the UE needs to report <i>configuredUL-GrantType1</i> and/or <i>configuredUL-GrantType2</i> .	Band Band	No	N/A N/A	N/A N/A
<i>ul-DL-COT-Sharing-r16</i> Indicates whether the UE supports UL to DL COT sharing. A UE that supports this feature shall also support <i>ul-DynamicChAccess-r16</i> . <i>mux-CG-UCI-HARQ-ACK-r16</i> Indicates whether the UE supports multiplexing CG-UCI with HARQ ACK. If the UE supports this feature, the UE needs to report <i>configuredGrantWithReTx-r16</i> . <i>cg-resourceConfig-r16</i> Indicates whether the UE supports configuration of resources with <i>cg-nrofSlots-r16</i> and <i>cg-nrofPUSCH-InSlot-r16</i> . If the UE supports this feature, the UE needs to report <i>configuredUL-GrantType1</i> and/or <i>configuredUL-GrantType2</i> . <i>dl-ReceptionLBT-subsetRB-r16</i>	Band	No	N/A	N/A
ul-DL-COT-Sharing-r16 Indicates whether the UE supports UL to DL COT sharing. A UE that supports this feature shall also support ul-DynamicChAccess-r16. mux-CG-UCI-HARQ-ACK-r16 Indicates whether the UE supports multiplexing CG-UCI with HARQ ACK. If the UE supports this feature, the UE needs to report configuredGrantWithReTx-r16. cg-resourceConfig-r16 Indicates whether the UE supports configuration of resources with cg-nrofSlots-r16 and cg-nrofPUSCH-InSlot-r16. If the UE supports this feature, the UE needs to report configuredUL-GrantType1 and/or configuredUL-GrantType2. dl-ReceptionLBT-subsetRB-r16 Indicates whether the UE supports reception in a wideband carrier when LBT is	Band Band	No	N/A N/A	N/A N/A
ul-DL-COT-Sharing-r16 Indicates whether the UE supports UL to DL COT sharing. A UE that supports this feature shall also support ul-DynamicChAccess-r16. mux-CG-UCI-HARQ-ACK-r16 Indicates whether the UE supports multiplexing CG-UCI with HARQ ACK. If the UE supports this feature, the UE needs to report configuredGrantWithReTx-r16. cg-resourceConfig-r16 Indicates whether the UE supports configuration of resources with cg-nrofSlots-r16 and cg-nrofPUSCH-InSlot-r16. If the UE supports this feature, the UE needs to report configuredUL-GrantType1 and/or configuredUL-GrantType2. dl-ReceptionLBT-subsetRB-r16 Indicates whether the UE supports reception in a wideband carrier when LBT is successful in a subset of the configured RB sets, which are either contiguous or	Band Band	No	N/A N/A	N/A N/A
ul-DL-COT-Sharing-r16 Indicates whether the UE supports UL to DL COT sharing. A UE that supports this feature shall also support ul-DynamicChAccess-r16. mux-CG-UCI-HARQ-ACK-r16 Indicates whether the UE supports multiplexing CG-UCI with HARQ ACK. If the UE supports this feature, the UE needs to report configuredGrantWithReTx-r16. cg-resourceConfig-r16 Indicates whether the UE supports configuration of resources with cg-nrofSlots-r16 and cg-nrofPUSCH-InSlot-r16. If the UE supports this feature, the UE needs to report configuredUL-GrantType1 and/or configuredUL-GrantType2. dl-ReceptionLBT-subsetRB-r16 Indicates whether the UE supports reception in a wideband carrier when LBT is successful in a subset of the configured RB sets, which are either contiguous or non-contiguous, of the carrier.	Band Band Band	No No No	N/A N/A N/A	N/A N/A N/A
ul-DL-COT-Sharing-r16 Indicates whether the UE supports UL to DL COT sharing. A UE that supports this feature shall also support ul-DynamicChAccess-r16. mux-CG-UCI-HARQ-ACK-r16 Indicates whether the UE supports multiplexing CG-UCI with HARQ ACK. If the UE supports this feature, the UE needs to report configuredGrantWithReTx-r16. cg-resourceConfig-r16 Indicates whether the UE supports configuration of resources with cg-nrofSlots-r16 and cg-nrofPUSCH-InSlot-r16. If the UE supports this feature, the UE needs to report configuredUL-GrantType1 and/or configuredUL-GrantType2. dI-ReceptionLBT-subsetRB-r16 Indicates whether the UE supports reception in a wideband carrier when LBT is successful in a subset of the configured RB sets, which are either contiguous or non-contiguous, of the carrier. dI-ReceptionIntraCellGuardband-r16	Band Band	No	N/A N/A	N/A N/A
<i>ul-DL-COT-Sharing-r16</i> Indicates whether the UE supports UL to DL COT sharing. A UE that supports this feature shall also support <i>ul-DynamicChAccess-r16</i> . <i>mux-CG-UCI-HARQ-ACK-r16</i> Indicates whether the UE supports multiplexing CG-UCI with HARQ ACK. If the UE supports this feature, the UE needs to report <i>configuredGrantWithReTx-r16</i> . <i>cg-resourceConfig-r16</i> Indicates whether the UE supports configuration of resources with <i>cg-nrofSlots-r16</i> and <i>cg-nrofPUSCH-InSlot-r16</i> . If the UE supports this feature, the UE needs to report <i>configuredUL-GrantType1</i> and/or <i>configuredUL-GrantType2</i> . <i>dI-ReceptionLBT-subsetRB-r16</i> Indicates whether the UE supports reception in a wideband carrier when LBT is successful in a subset of the configured RB sets, which are either contiguous or non-contiguous, of the carrier. <i>dI-ReceptionIntraCellGuardband-r16</i> Indicates whether the UE supports reception in the non-zero intra-cell guardband	Band Band Band	No No No	N/A N/A N/A	N/A N/A N/A
<i>ul-DL-COT-Sharing-r16</i> Indicates whether the UE supports UL to DL COT sharing. A UE that supports this feature shall also support <i>ul-DynamicChAccess-r16</i> . <i>mux-CG-UCI-HARQ-ACK-r16</i> Indicates whether the UE supports multiplexing CG-UCI with HARQ ACK. If the UE supports this feature, the UE needs to report <i>configuredGrantWithReTx-r16</i> . <i>cg-resourceConfig-r16</i> Indicates whether the UE supports configuration of resources with <i>cg-nrofSlots-r16</i> and <i>cg-nrofPUSCH-InSlot-r16</i> . If the UE supports this feature, the UE needs to report <i>configuredUL-GrantType1</i> and/or <i>configuredUL-GrantType2</i> . <i>dI-ReceptionLBT-subsetRB-r16</i> Indicates whether the UE supports reception in a wideband carrier when LBT is successful in a subset of the configured RB sets, which are either contiguous or non-contiguous, of the carrier. <i>dI-ReceptionIntraCellGuardband-r16</i>	Band Band Band	No No No	N/A N/A N/A	N/A N/A N/A

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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- 1024QAM-TotalWeightedLayers-r15</i> as described in TS 36.331 [17] applies, if	BC	No	N/A	N/A
included.		<u> </u>		
multipleTimingAdvance	BC	No	N/A	N/A
multipleTimingAdvance defined in 4.3.5.3, TS 36.306 [15].	D 0			
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 ue-CA-PowerClass-N defined in 4.3.5.1.3, TS 36.306 [15].	BC	No	N/A	N/A

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4.2.7.4 CA-ParametersNR

Definitions for parameters	Per	M	FDD- TDD DIFF	FR1- FR2 DIFF
beamManagementType-r16 Indicates the supported beam management type for inter-band CA within FR2. Beam management type can be independent beam management (IBM) or common beam management (CBM).	BC	Yes	TDD only	FR2 only
In this release of the specification, the UE shall only report value of ' <i>ibm</i> '. blindDetectFactor-r16 Defines the value of factor R for blind detection as specified in Clause 10.1 [11]. The UE that indicates support of this feature shall support <i>multiDCI-MultiTRP-r16</i> .	BC	No	N/A	N/A
 codebookComboParametersAdditionPerBC-r16 Indicates the list of supported CSI-RS resources across all bands in a band combination by referring to codebookVariantsList for the mixed codebook types. For mixed codebook types, UE reports support active CSI-RS resources and ports for up to 4 mixed codebook combinations in any slot. The following parameters are included in codebookVariantsList for each code book type: maxNumberTxPortsPerResource indicates the maximum number of Tx ports in a resource across all bands within a band combination; maxNumberResourcesPerBand indicates the maximum number of resources across all CCs within a band combination, simultaneously; totalNumberTxPortsPerBand indicates the total number of Tx ports across all CCs within a band combination, simultaneously. For each band in a band combination, supported values for these three parameters are determined in conjunction with codebookComboParametersAddition-r16 reported in MIMO-ParametersPerBand. 	BC	No	N/A	N/A
 CodebookParametersAdditionPerBC-r16 Indicates the list of supported CSI-RS resources across all bands in a band combination by referring to codebookVariantsList for the additional codebook types. The following parameters are included in codebookVariantsList for each code book type: maxNumberTxPortsPerResource indicates the maximum number of Tx ports in a resource across all bands within a band combination; maxNumberResourcesPerBand indicates the maximum number of resources across all CCs within a band combination, simultaneously; totalNumberTxPortsPerBand indicates the total number of Tx ports across all CCs within a band combination, simultaneously. For each band in a band combination, supported values for these three parameters are determined in conjunction with codebookParametersAddition-r16 reported in MIMO-ParametersPerBand. 	BC	No	N/A	N/A
<i>crossCarrierA-CSI-trigDiffSCS-r16</i> Indicates the UE support of handling cross-carrier A-CSI trigger with different SCS. Value <i>higherA-CSI-SCS</i> indicates the UE support of PDCCH cell of lower SCS and A-CSI RS cell of higher SCS and value <i>lowerA-CSI-SCS</i> indicates the UE support of PDCCH cell of higher SCS and A-CSI RS cell of lower SCS, and value <i>both</i> indicates the support of both variations. A UE supporting this feature shall also indicate support of CSI-RS and CSI-IM reception for CSI feedback using <i>csi-RS-IM-</i> <i>ReceptionForFeedback</i>	BC	No	N/A	N/A
reception on reception crossCarrierSchedulingDefaultQCL-r16 Indicates whether the UE can be configured with enabledDefaultBeamForCCS for default QCL assumption for cross-carrier scheduling for same/different numerologies. A UE supporting this feature shall either indicate support of crossCarrierScheduling-SameSCS or crossCarrierSchedulingDL-DiffSCS-r16. Value diff-only indicates UE supports this feature only for different SCS combination(s). Value both indicates UE supports this feature for same SCS and for different SCS combination(s).	BC	No	N/A	N/A

<i>crossCarrierSchedulingDL-DiffSCS-r16</i> Indicates the UE supports cross carrier scheduling for the different numerologies with carrier indicator field (CIF) in DL carrier aggregation where numerologies for the scheduling CC and scheduled CC are different.	BC	No	N/A	N/A
Value <i>low-to-high</i> indicates UE supports scheduling CC of lower SCS to scheduled CC of higher SCS;				
Value <i>high-to-low</i> indicates UE supports scheduling CC of higher SCS to scheduled CC of lower SCS; Value <i>both</i> indicates UE supports both scheduling CC of lower SCS to scheduled CC of higher SCS and scheduling CC of higher SCS to scheduled CC of lower				
SCS.				
 NOTE 1: Following components are applicable to cross carrier scheduling from lower SCS to higher SCS when the UE reports this feature: Processing one unicast DCI scheduling DL per scheduling CC slot per scheduled CC for FDD scheduling DL per scheduling CC Processing one unicast DCI scheduling DL per scheduling CC slot per scheduled CC for TDD scheduling CC NOTE 2: Following components are applicable to cross carrier scheduling from higher SCS to lower SCS when the UE reports this feature: Processing one unicast DCI scheduling DL per N consecutive scheduling CC slot per scheduled CC for FDD scheduling DL per N consecutive scheduling CC slot per scheduled CC for FDD scheduling CC Processing one unicast DCI scheduling DL per N consecutive scheduling CC slot per scheduled CC for TDD scheduling CC N is based on pair of (scheduling CC SCS, scheduled CC SCS): N=2 for (30,15), (60,30), (120,60) and N=4 for (60,5), (120,30), N = 8 for (120,15) 				
crossCarrierSchedulingUL-DiffSCS-r16	BC	No	N/A	N/A
Indicates the UE supports cross carrier scheduling for the different numerologies with carrier indicator field (CIF) in UL carrier aggregation where numerologies for the scheduling CC and scheduled CC are different.				
Value <i>low-to-high</i> indicates UE supports scheduling CC of lower SCS to scheduled CC of higher SCS;				
Value <i>high-to-low</i> indicates UE supports scheduling CC of higher SCS to scheduled CC of lower SCS;				
Value <i>both</i> indicates UE supports both scheduling CC of lower SCS to scheduled CC of higher SCS and scheduling CC of higher SCS to scheduled CC of lower SCS.				
 NOTE 1: Following components are applicable to cross carrier scheduling from lower SCS to higher SCS when the UE reports this feature: Processing one unicast DCI scheduling UL per scheduling CC slot per scheduled CC for FDD scheduling CL Processing 2 unicast DCI scheduling UL per scheduling CC slot per scheduled CC for TDD scheduling CC 				
scheduled CC for TDD scheduling CC NOTE 2: Following components are applicable to cross carrier scheduling from higher SCS to lower SCS when the UE reports this feature: - Processing one unicast DCI scheduling UL per N consecutive				
 scheduling CC slot per scheduled CC for FDD scheduling CC Processing 2 unicast DCI scheduling UL per N consecutive scheduling CC slot per scheduled CC for TDD scheduling CC 				
 N is based on pair of (scheduling CC SCS, scheduled CC SCS): N=2 for (30,15), (60,30), (120,60) and N=4 for (60,5), (120,30), N = 8 for (120,15) 				

csi-RS-IM-ReceptionForFeedbackPerBandComb Indicates support of CSI-RS and CSI-IM reception for CSI feedback. This capability	BC	Yes	N/A	N/A
signalling comprises the following parameters:				
- maxNumberSimultaneousNZP-CSI-RS-ActBWP-AIICC 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 <i>MIMO-ParametersPerBand-></i>				
maxNumberSimultaneousNZP-CSI-RS-PerCC and in Phy-ParametersFRX-				
Diff-> maxNumberSimultaneousNZP-CSI-RS-PerCC;				
- totalNumberPortsSimultaneousNZP-CSI-RS-ActBWP-AllCC indicates the				
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-></i>				
totalNumberPortsSimultaneousNZP-CSI-RS-PerCC and in Phy- ParametersFRX-Diff-> totalNumberPortsSimultaneousNZP-CSI-RS-PerCC.				
The UE is mandated to report csi-RS-IM-ReceptionForFeedbackPerBandComb.				
defaultQCL-CrossCarrierA-CSI-Trig-r16	BC	No	N/A	N/A
Indicates whether the UE can be configured with enabledDefaultBeamForCCS for				
default QCL assumption for cross-carrier A-CSI-RS triggering for same/different numerologies as specified in TS 38.213 11].				
Value <i>diffOnly</i> indicates the UE supports this feature for different SCS combination(s).				
Value both indicates the UE supports this feature for same SCS and for different				
SCS combination(s) (low-to-high, high-to-low or both) reported for <i>crossCarrierA</i> -				
CSI-trigDiffSCS-r16.				
diffNumerologyAcrossPUCCH-Group	BC	No	N/A	N/A
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				
the UE.				
diffNumerologyAcrossPUCCH-Group-CarrierTypes-r16	BC	No	N/A	N/A
Indicates whether different numerology across two NR PUCCH groups for data and				
control channel at a given time in NR CA for UE supporting two PUCCH groups with				
3 or more bands with at least two carrier types. UE indicating support of this feature shall indicate support of twoPUCCH-Grp-Configurations list-r16				
shall indicate support of twoPUCCH-Grp-ConfigurationsList-r16. diffNumerologyWithinPUCCH-GroupLargerSCS	BC	No	N/A	N/A
Indicates whether UE supports different numerology across carriers within a			IN/A	IN/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; and				
	BC	No	N/A	N/A
same numerology across NR carriers in SCG (in FR2). diffNumerologyWithinPUCCH-GroupLargerSCS-CarrierTypes-r16		1		
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). <i>diffNumerologyWithinPUCCH-GroupLargerSCS-CarrierTypes-r16</i> Indicates whether UE supports different numerology across carriers up to 2 different	BC			
same numerology across NR carriers in SCG (in FR2). <i>diffNumerologyWithinPUCCH-GroupLargerSCS-CarrierTypes-r16</i> Indicates whether UE supports different numerology across carriers up to 2 different numerologies within the same PUCCH group wherein PUCCH is sent on the carrier	BC			
same numerology across NR carriers in SCG (in FR2). <i>diffNumerologyWithinPUCCH-GroupLargerSCS-CarrierTypes-r16</i> Indicates whether UE supports different numerology across carriers up to 2 different numerologies within the same PUCCH group wherein PUCCH is sent on the carrier with larger SCS for data/control channel at a given time in NR CA for UE supporting	BC			
same numerology across NR carriers in SCG (in FR2). <i>diffNumerologyWithinPUCCH-GroupLargerSCS-CarrierTypes-r16</i> Indicates whether UE supports different numerology across carriers up to 2 different numerologies within the same PUCCH group wherein PUCCH is sent on the carrier with larger SCS for data/control channel at a given time in NR CA for UE supporting two PUCCH groups with 3 or more bands with at least two carrier types. UE	DC			
same numerology across NR carriers in SCG (in FR2). <i>diffNumerologyWithinPUCCH-GroupLargerSCS-CarrierTypes-r16</i> Indicates whether UE supports different numerology across carriers up to 2 different numerologies within the same PUCCH group wherein PUCCH is sent on the carrier with larger SCS for data/control channel at a given time in NR CA for UE supporting two PUCCH groups with 3 or more bands with at least two carrier types. UE indicating support of this feature shall indicate support of <i>twoPUCCH-Grp</i> -	ВС			
same numerology across NR carriers in SCG (in FR2). diffNumerologyWithinPUCCH-GroupLargerSCS-CarrierTypes-r16	БС			
same numerology across NR carriers in SCG (in FR2). <i>diffNumerologyWithinPUCCH-GroupLargerSCS-CarrierTypes-r16</i> Indicates whether UE supports different numerology across carriers up to 2 different numerologies within the same PUCCH group wherein PUCCH is sent on the carrier with larger SCS for data/control channel at a given time in NR CA for UE supporting two PUCCH groups with 3 or more bands with at least two carrier types. UE indicating support of this feature shall indicate support of <i>twoPUCCH-Grp-</i>	ВС			

diffNumerologyWithinPUCCH-GroupSmallerSCS	BC	No	N/A	N/A
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; and				
same numerology across NR carriers in SCG (in FR2).	-			
diffNumerologyWithinPUCCH-GroupSmallerSCS-CarrierTypes-r16	BC	No	N/A	N/A
Indicates whether UE supports different numerology across carriers up to 2 different				
numerologies within the same PUCCH group wherein PUCCH is sent on the carrier				
with smaller SCS for data/control channel at a given time in NR CA for UE				
supporting two PUCCH groups with 3 or more bands with at least two carrier types.				
UE indicating support of this feature shall indicate support of <i>twoPUCCH-Grp-</i>				
ConfigurationsList-r16.				
NOTE: NR PUCCH is sent on a carrier with SCS not larger than SCS of any DL				
carriers corresponding to the NR PUCCH group.				
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.				
half-DuplexTDD-CA-SameSCS-r16	BC	No	TDD	N/A
Indicates whether the UE supports directional collision handling between reference			only	
and other cell(s) for half-duplex operation in TDD CA with same SCS. The UE can			Only	
include this field for band combinations including only intra-band TDD CA or if				
simultaneousRxTxInterBandCA is not present for band combinations involving mix				
of intra-band TDD CA and inter-band TDD CA.				
interCA-NonAlignedFrame-r16	BC	No	N/A	N/A
Indicates whether the UE supports inter-band carrier aggregation operation where,				
within the same cell group, the frame boundaries of the SpCell and the SCell(s) are				
not aligned, the slot boundaries are aligned and the lowest subcarrier spacing of the				
subcarrier spacings given in scs-SpecificCarrierList for SpCell is smaller than or				
equal to the lowest subcarrier spacing of the subcarrier spacings given in scs-				
SpecificCarrierList for each of the non-aligned SCells.				
interCA-NonAlignedFrame-B-r16	BC	No	N/A	N/A
Indicates whether the UE supports inter-band carrier aggregation operation where,				
within the same cell group, the frame boundaries of the SpCell and the SCell(s) are				
not aligned, the slot boundaries are aligned and the lowest subcarrier spacing of the				
subcarrier spacings given in scs-SpecificCarrierList for SpCell is larger than the				
lowest subcarrier spacing of the subcarrier spacings given in scs-SpecificCarrierList				
for at least one of the non-aligned SCells.				
A UE indicating support of interCA-NonAlignedFrame-B-r16 shall also indicate	1			
support of <i>interCA-NonAlignedFrame-r16</i> .				

<i>interFreqDAPS-r16</i> Indicates whether the UE supports inter-frequency handover, e.g. support of	BC	No	N/A	N/A
simultaneous DL reception of PDCCH and PDSCH from source and target cell. A				
UE indicating this capability shall also support inter-frequency synchronous DAPS				
handover, and single UL transmission for inter-frequency DAPS handover. The				
capability signalling comprises of the following parameters:				
capability signalling comprises of the following parameters.				
- interFreqAsyncDAPS-r16 indicates whether the UE supports asynchronous				
DAPS handover.				
- interFreqDiffSCS-DAPS-r16 indicates whether the UE supports different SCSs				
in source PCell and inter-frequency target PCell in DAPS handover. The UE				
only includes this field if different SCSs can be supported in both UL and DL. If				
absent, the UE does not support either UL or DL SCS being different in DAPS				
handover.				
 interFreqMultiUL-TransmissionDAPS-r16 indicates whether the UE supports 				
simultaneous UL transmission in source PCell and target PCell during a DAPS				
handover. The UE can include this field only if any of				
semiStaticPowerSharingDAPS-Mode1-r16, semiStaticPowerSharingDAPS-				
Mode2-r16 or dynamicPowersharingDAPS-r16 are included. Otherwise, the UE				
does not include this field.				
 interFreqSemiStaticPowerSharingDAPS-Mode1-r16 indicates whether the UE 				
supports semi-static UL power sharing mode 1 during DAPS handover between				
source and target cells of same FR.				
 interFreqSemiStaticPowerSharingDAPS-Mode2-r16 indicates whether the UE 				
supports semi-static UL power sharing mode 2 during DAPS handover between				
source and target cells of same FR. It is only applicable to DAPS Handover in				
synchronous scenarios. The UE only includes this field if				
semiStaticPowerSharingDAPS-Mode1-r16 is included. Otherwise, the UE does				
not include this field.				
- interFreqDynamicPowersharingDAPS-r16 indicates the value of T offset (short				
or long) that the UE supports for dynamic UL power sharing during DAPS				
handover between source and target cells of same FR. The UE only include				
this field if semiStaticPowerSharingDAPS-Mode1-r16 is included. Otherwise,				
the UE does not include this field.				
 interFreqUL-TransCancellationDAPS-r16 indicates support of cancelling UL 				
transmission to the source PCell for inter-frequency DAPS handover.				
intraBandFreqSeparationUL-AggBW-GapBW-r16	BC	No	N/A	FR1
Indicates the UL frequency separation class between lower edge of lowest CC and				only
upper edge of highest CC of Intra-band UL non-contiguous CA, i.e. including both				
the aggregated bandwidth and the gap bandwidth. 3 frequency separation classes				
are introduced and the values are as follow:				
- class I: Non-contiguous CA separation class ≤ 100MHz				
- class II: 100MHz < Non-contiguous CA separation class≤ 200MHz				
- class III: 200MHz < Non-contiguous CA separation class <600MHz	50			
jointSearchSpaceSwitchAcrossCells-r16	BC	No	N/A	N/A
Indicates whether the UE supports being configured with a group of cells and				
switching search space set group jointly over these cells. If the UE supports this				
feature, the UE needs to report <i>searchSpaceSwitchWithDCI-r16</i> or				
searchSpaceSwitchWithoutDCI-r16.	D O	N 1.	N1/A	N1/A
maxUpTo3Diff-NumerologiesConfigSinglePUCCH-grp-r16	BC	No	N/A	N/A
Indicates the UE support of up to 3 different numerologies in the same PUCCH				
group where UE is not configured with two NR PUCCH groups by indicating one or				
multiple NR carrier types (FR1 licensed TDD (<i>fr1-NonSharedTDD-r16</i>), FR1				
unlicensed TDD (<i>fr1-SharedTDD-r16</i>), FR1 licensed FDD (<i>fr1-NonSharedFDD-r16</i>),				
FR2(<i>fr2-r16</i>)} that can transmit the PUCCH for NR part of (NG)EN-DC, NE-DC and				
NR-CA.				
NOTE: When the corrier type of NULL is indicated for DUCCU transmission				
NOTE: When the carrier type of NUL is indicated for PUCCH transmission				
location, the SUL in the same cell as in the NUL can also be configured				
for PUCCH transmission.				

<i>maxUpTo4Diff-NumerologiesConfigSinglePUCCH-grp-r16</i> Indicates the UE support of up to 4 different numerologies in the same PUCCH group where UE is not configured with two NR PUCCH groups by indicating one or multiple the NR carrier types {FR1 licensed TDD (<i>fr1-NonSharedTDD-r16</i>), FR1 unlicensed TDD (<i>fr1-SharedTDD-r16</i>), FR1 licensed FDD (<i>fr1-NonSharedFDD-r16</i>), FR2(<i>fr2-r16</i>)} that can transmit the PUCCH for NR part of (NG)EN-DC, NE-DC and NR-CA.	BC	No	N/A	N/A
NOTE: When the carrier type of NUL is indicated for PUCCH transmission location, the SUL in the same cell as in the NUL can also be configured for PUCCH transmission.				
<i>msgA-SUL-r16</i> Indicates whether the UE supports MSGA transmission in a band combination including SUL. A UE supporting this feature shall also indicate support of <i>twoStepRACH-r16</i> .	BC	No	N/A	N/A
<i>parallelTxMsgA-SRS-PUCCH-PUSCH-r16</i> Indicates whether the UE supports parallel transmission of MsgA and SRS/ PUCCH/ PUSCH across CCs in an inter-band CA band combination. A UE supporting this feature shall also indicate support of <i>parallelTxPRACH-SRS-</i> <i>PUCCH-PUSCH</i> .	BC	No	N/A	N/A
<i>parallelTxSRS-PUCCH-PUSCH</i> Indicates whether the UE supports parallel transmission of SRS and PUCCH/ PUSCH across CCs in an inter-band CA band combination.	BC	No	N/A	N/A
<i>parallelTxPRACH-SRS-PUCCH-PUSCH</i> Indicates whether the UE supports parallel transmission of PRACH and SRS/PUCCH/PUSCH across CCs in an inter-band CA band combination.	BC	No	N/A	N/A
<i>pdcch-BlindDetectionCA-Mixed-r16</i> This field indicates mixed operation of two variants of the number of blind detections in case of CA. UE indicating support of this feature shall also indicate support of <i>pdcch-MonitoringMixed-r16</i> .	BC	No	N/A	N/A
pdcch-BlindDetectionCA-Mixed-NonAlignedSpan-r16 This field indicates mixed operation of two variants of the number of blind detections in case of CA when the UE supports aligned span and non-aligned span. In the case of non-aligned span, when the configured number of CCs with Rel-16 PDCCH monitoring is larger than the UE reported value, PDCCH monitoring occasion(s) should be configured only on same symbol(s) every slot. UE indicating support of this feature shall also indicate support of <i>pdcch-MonitoringMixed-r16</i> . The minimum of the summation of capability on the number of CCs with Rel-16 PDCCH monitoring capability and the capability on the number of CCs with Rel-16 PDCCH monitoring capability is 3.	BC	No	N/A	N/A
<i>pdcch-BlindDetectionMCG-UE-r16, pdcch-BlindDetectionSCG-UE-r16</i> This field indicates the number of blind detections supported for MCG and SCG, respectively. If a UE supports <i>pdcch-MonitoringCA-r16</i> or <i>pdcch-MonitoringCA-NonAlighedSpan-r16</i> , then the capability defined by <i>pdcch-MonitoringCA-r16</i> or <i>pdcch-MonitoringCA-</i>	BC	No	N/A	N/A
NonAlighedSpan-r16 is applied to the feature. pdcch-BlindDetectionMCG-UE-Mixed-r16, pdcch-BlindDetectionSCG-UE- Mixed-r16 This field indicates mixed operation of two variants of the number of blind detections supported for MCG and SCG, respectively.	BC	No	N/A	N/A
If a UE supports pdcch-BlindDetectionCA-Mixed-r16 or pdcch-BlindDetectionCA- Mixed-NonAlignedSpan-r16, then the capability defined by pdcch- BlindDetectionCA-Mixed-r16 or pdcch-BlindDetectionCA-Mixed-NonAlignedSpan- r16 is applied to the feature.				
<i>pdcch-MonitoringCA-r16</i> Indicates the number of CCs for monitoring a maximum number of blind detections and non-overlapped CCEs per span when configured with DL CA with Rel-16 PDCCH monitoring capability on all the serving cells. This field also indicates supported span arrangement for CA. A UE that supports this feature shall also support <i>pdcch-Monitoring-r16</i> . UE indicating support of this feature shall also indicate support of <i>pdcch-Monitoring-r16</i> .	BC	No	N/A	N/A

pdcch-MonitoringCA-NonAlignedSpan-r16	BC	No	N/A	N/A
Indicates the number of CCs for monitoring a maximum number of blind detections				
and non-overlapped CCEs per span when configured with DL CA with Rel-16				
PDCCH monitoring capability on all the serving cells in the case UE supports				
aligned span and non-aligned span. In the case of non-aligned span, when the				
configured number of CCs with Rel-16 PDCCH monitoring is larger than the UE				
reported value and PDCCH monitoring occasion(s) should be configured only on				
same symbol(s) every slot. UE indicating support of this feature shall also indicate				
support of pdcch-Monitoring-r16.				
scellDormancyWithinActiveTime-r16	BC	No	N/A	N/A
Indicates whether the UE supports SCell dormancy indication received on SPCell				
with DCI format 0_1/1_1 sent within the active time as defined in clause 10.3 of TS				
38.213 [11]. If the UE indicates the support of this, the UE supports one dormant				
BWP and at least one non-dormant BWP per carrier. To support more than one				
non-dormant BWP in a carrier, the UE indicates support of upto4 in bwp-				
SameNumerology or upto4 in bwp-DiffNumerology. One dormant BWP and one				
non-dormant BWP are UE specific BWPs even for UEs not supporting bwp-				
SameNumerology.				
scellDormancyOutsideActiveTime-r16	BC	No	N/A	N/A
Indicates whether the UE supports SCell dormancy indication received on SPCell				
using DCI format 2_6 sent outside the active time as defined in clause 10.3 of TS				
38.213 [11]. A UE supporting this feature shall also indicate support of power saving				
DRX adaptation using <i>drx-Adaptation-r16</i> and shall also support one dormant BWP				
and at least one non-dormant BWP per carrier. To support more than one non-				
dormant BWP in a carrier, the UE indicates support of upto4 in bwp-				
SameNumerology or upto4 in bwp-DiffNumerology. One dormant BWP and one				
non-dormant BWP are UE specific BWPs even for UEs not supporting bwp-				
SameNumerology.				
simultaneousCSI-ReportsAllCC	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 <i>simultaneousCSI-ReportsAllCC</i> 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.		<u>.</u> .		
simul-SRS-Trans-BC-r16	BC	No	N/A	N/A
Indicates the number of SRS resources for positioning on a symbol for a given band				
combination. The UE can include this field only if the UE supports <i>srs</i> -				
PosResources-r16. Otherwise, the UE does not include this field;				
NOTE 4. For simple, band band combined are to define the second 200 (. 1.)				
NOTE 1: For single-band band combinations, it defines the capability for intra-				
band CA, and for band combinations with at least two bands, it defines				
the capability for inter-band carrier aggregation.				
NOTE 2: if the UE does not indicate this capability for a band combination, the UE				
does not support the feature in this band combination.			N 1/A	.
simul-SRS-MIMO-Trans-BC-r16	BC	No	N/A	N/A
Indicates the number of SRS resources for positioning and SRS resource for MIMO				
on a symbol for a given BC. The UE can include this field only if the UE supports				
srs-PosResources-r16. Otherwise, the UE does not include this field.				
NOTE 4. If the second offer the second data is the				
NOTE 1: If UE reports 2 for the candidate value, it means both the number of SRS				
resource for positioning and SRS resource for MIMO equals to 1.				
NOTE 2: For single-band band combinations, it defines the capability for intra-				
band carrier aggregation, and for band combinations with at least two				
bands, it defines the capability for inter-band carrier aggregation.				
NOTE 3: if the UE does not indicate this capability for a band combination, the UE				
does not support the feature in this band combination.	1	1		

simulTX-SRS-AntSwitchingInterBandUL-CA-r16 Indicates whether the UE support simultaneous transmission of SRS on different	BC	No	N/A	N/A
CCs for inter-band UL CA. The UE indicating support of this feature shall include at				
east one of the following capabilities:				
- supportSRS-xTyR-xLessThanY-r16 indicates support transmission of SRS				
for xTyR (x <y) and="" antenna="" based="" bm="" cb="" for="" ncb="" on<="" srs="" switching="" td=""><td></td><td></td><td></td><td></td></y)>				
different CCs in overlapped symbol(s) for inter-band UL CA.				
- supportSRS-xTyR-xEqualToY-r16 indicates support transmission of SRS for				
xTyR (x=y) based antenna switching and SRS for CB/NCB/BM on different				
CCs in overlapped symbol(s) for inter-band UL CA.				
- supportSRS-AntennaSwitching-r16 Indicates whether the UE support				
simultaneous transmission of SRS for antenna switching on different CCs in overlapped symbol(s) for inter-band UL CA.				
OTE: For simultaneously antenna switching and antenna switching SRS in				
inter-band CAs with bands whose UL are switched together according to				
the reported <i>supportSRS-AntennaSwitching-r16</i> , the UE expects the				
same configuration of xTyR across the different CCs and the SRS				
resources overlapped in time domain from UE perspective are from the				
same UE antenna ports.				
imultaneousRxTxInterBandCA	BC	CY	N/A	N//
dicates whether the UE supports simultaneous transmission and reception in				
DD-TDD and TDD-FDD inter-band NR CA. If this field is included in ca-				
arametersNR-ForDC, it indicates the UE supports simultaneous transmission and				
eception between any UL/DL band pair within a cell group and across MCG and				
CG in TDD-TDD and TDD-FDD inter-band NR-DC. It is mandatory for certain				
DD-FDD and TDD-TDD band combinations defined in TS 38.101-1 [2], TS 38.101-				
[3] and TS 38.101-3 [4].				
		Nia	N1/A	N1/
imultaneousRxTxInterBandCAPerBandPair	BC	No	N/A	N/.
dicates whether the UE supports simultaneous transmission and reception in				
DD-TDD and TDD-FDD inter-band NR CA for each band pair in the band				
ombination.				
Encoded as a bitmap with size $L * (L - 1) / 2$, and bit N (leftmost bit is indexed as bit				
) is set to "1" if the UE supports simultaneous transmission and reception for band				
air (x, y), where L is the number of band entries in the band combination, x and y				
re the indices of the band entry in the band combination (the first band entry is				
ndexed as 0), $x < y$, and $N = x^{*}(2^{*}L - x - 1)/2 + y - x - 1$.				
this field is included in <i>ca-ParametersNR-ForDC</i> , each bit of this field indicates				
hether the UE supports simultaneous transmission and reception between each				
and pair, within a cell group and across MCG and SCG in TDD-TDD and TDD-				
DD inter-band NR-DC.				
he UE does not include this field if the UE supports simultaneous transmission and				
eception for all band pairs in the band combination (in which case				
<i>imultaneousRxTxInterBandCA</i> is included) or does not support for any band pair in				
he band combination. The UE shall consistently set the bits which correspond to				
he same band pair.				
imultaneousRxTxSUL	BC	CY	N/A	N/.
dicates whether the UE supports simultaneous reception and transmission for a				
R band combination including SUL. Mandatory/Optional support depends on band				
ombination and captured in TS 38.101-1 [2].				
imultaneousRxTxSULPerBandPair	BC	No	N/A	N/.
dicates whether the UE supports simultaneous reception and transmission for a				
R band combination including SUL for each band pair in the band combination.				
ncoded in the same manner as simultaneousRxTxInterBandCAPerBandPair.				
he UE does not include this field if the UE supports simultaneous transmission and				
ception for all band pairs in the band combination (in which case				
multaneousRxTxSUL is included) or does not support for any band pair in the				
and combination. The UE shall consistently set the bits which correspond to the				
ame band pair.				
	BC	No	N/A	N/.
			IN/A	IN/2
		1		
dicates support of CSI-RS processing framework for SRS and the number of SRS		1		
dicates support of CSI-RS processing framework for SRS and the number of SRS asources that the UE can process simultaneously across all CCs, and across MCG				
dicates support of CSI-RS processing framework for SRS and the number of SRS asources that the UE can process simultaneously across all CCs, and across MCG nd SCG in case of NR-DC, including periodic, aperiodic and semi-persistent SRS.				
dicates support of CSI-RS processing framework for SRS and the number of SRS asources that the UE can process simultaneously across all CCs, and across MCG nd SCG in case of NR-DC, including periodic, aperiodic and semi-persistent SRS. his parameter may further limit <i>simultaneousSRS-AssocCSI-RS-PerCC</i> in <i>MIMO</i> -				
<i>imultaneousSRS-AssocCSI-RS-AIICC</i> ndicates support of CSI-RS processing framework for SRS and the number of SRS asources that the UE can process simultaneously across all CCs, and across MCG nd SCG in case of NR-DC, including periodic, aperiodic and semi-persistent SRS. his parameter may further limit <i>simultaneousSRS-AssocCSI-RS-PerCC</i> in <i>MIMO-</i> <i>ParametersPerBand</i> and <i>Phy-ParametersFRX-Diff</i> for each band in a given band ombination.				

supportedCSI-RS-ResourceListAlt-r16	BC	No	N/A	N/A
ndicates the list of supported CSI-RS resources across all bands in a band				
combination by referring to codebookVariantsList. The following parameters are				
ncluded in codebookVariantsList for each code book type:				
- maxNumberTxPortsPerResource indicates the maximum number of Tx ports	5			
in a resource across all bands within a band combination;				
- maxNumberResourcesPerBand indicates the maximum number of resource	S			
across all CCs within a band combination, simultaneously;				
 totalNumberTxPortsPerBand indicates the total number of Tx ports across a 				
CCs within a band combination, simultaneously.				
For each band in a band combination, supported values for these three parameters				
are determined in conjunction with supportedCSI-RS-ResourceListAlt reported in				
MIMO-ParametersPerBand.				
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, (NG)EN-DC/NE-DC and DAPS handover. For (NG)EN-DC/NE-DC	,			
t indicates number of TAGs only for NR CG. The number of TAGs for the LTE MCG				
s 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.,				
nter-band or intra-band non-contiguous band combination), it indicates that differen	t l			
iming 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 and it is mandatory for the UE to support 2 TAGs for inter-				
requency DAPS. 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				
he 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				
Group ID.	- 50		N1/A	
twoPUCCH-Grp-ConfigurationsList-r16	BC	No	N/A	N/A
Indicates one or multiple of supported configuration(s) of {primary PUCCH group				
config, secondary PUCCH group config} for the band combination where for each o	T			
the supported configuration the carrier type(s) (FR1-NonSharedTDD, FR1-				
SharedTDD, FR1-NonSharedFDD, FR2) that can be mapped to a PUCCH group				
and also the carrier types that can be configured with PUCCH transmission for				
primary PUCCH group and secondary PUCCH group for NR-CA band combination				
with 3 or more bands. The capability signalling of each primary or secondary				
PUCCH group configuration comprises of the following parameters:				
 pucch-GroupMapping-r16 indicates the PUCCH group(s) that a carrier type 				
can be mapped to.				
- pucch-TX-r16 indicates the PUCCH group(s) that a carrier type can be				
configured for PUCCH transmission				
NOTE 1: For a band combination with SUL, the SUL band is counted as one of the	e			
bands.				
NOTE 2: For a band combination with SDL, the SDL band is counted as one of the	e			
bands. SDL is indicated as 'FR1-NonSharedFDD' carrier type. Per UE				
capabilities that are TDD only are not applicable to SDL.				
NOTE 3: When the carrier type of NUL is indicated for PUCCH transmission				
location, the SUL in the same cell as in the NUL can also be configured				
for PUCCH transmission.				
NOTE 4: When the carrier type of NUL is indicated for one PUCCH group config,				
the SUL in the same cell as in the NUL can also be configured for the				
PUCCH group.				
NOTE 5: If UE indicating this field does not support <i>diffNumerologyAcrossPUCCH</i>				
	-			
Group-CarrierTypes-r16, the UE can only be configured with the same				
SCS across NR PUCCH groups.		- N1	N1/A	N1/A
<i>IplinkTxDC-TwoCarrierReport-r16</i>	BC	No	N/A	N/A
ndicates whether the UE supports the uplink Tx Direct Current subcarrier				
ocation(s) reporting when configured with uplink CA with two carriers.				
t is applicable only for (NG)EN-DC/NE-DC and NR CA where the NR has intra-				
band uplink CA with two uplink carriers.				

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4.2.7.5 *FeatureSetDownlink* parameters

Definitions for parameters	Per	М	FDD- TDD DIFF	FR1- FR2 DIFF
<i>additionalDMRS-DL-Alt</i> 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>cbgPDSCH-ProcessingType1-DifferentTB-PerSlot-r16</i> Defines whether the UE capable of processing time capability 1 supports CBG based reception with one or with up to two or with up to four or with up to seven unicast PDSCHs per slot per CC.	FS	No	N/A	N/A
cbgPDSCH-ProcessingType2-DifferentTB-PerSlot-r16 Defines whether the UE capable of processing time capability 2 supports CBG based reception with one or with up to two or with up to four or with up to seven unicast PDSCHs per slot per CC.	FS	No	N/A	N/A
crossCarrierSchedulingProcessing-DiffSCS-r16 Indicates the UE cross carrier scheduling processing capability for DL carrier aggregation processing up to X unicast DCI scheduling for DL per scheduled CC. X is based on pair of (scheduling CC SCS, scheduled CC SCS) where a pair of (15,120), (15,60), (30,120) kHz SCS can have X = {1,2,4} while a pair of (15,30), (30,60), (60,120) kHz SCS can have X = {2}, and X applies per slot of scheduling CC.	FS	No	N/A	N/A
<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
<i>featureSetListPerDownlinkCC</i> 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, intraBandFreqSeparationDL-v1620</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 mhzX correspond to the values XMHz defined in TS 38.101-2 [3]. It is mandatory to report for UE which supports DL intra-band non-contiguous CA in FR2. If the UE sets the field <i>intraBandFreqSeparationDL-v1620</i> it shall set <i>intraBandFreqSeparationDL</i> (without suffix) to the nearest smaller value.	FS	CY	N/A	FR2 only
 <i>intraBandFreqSeparationDL-Only-r16</i> Indicates whether the UE supports frequency separation class of DL only extension. If present, the field extends the maximum frequency separation between the lower edge of lowest CC and the upper edge of highest CC in a frequency band that the UE supports according to <i>intraBandFreqSeparationDL</i>. The frequency range extension is either above or below the frequency range indicated by <i>intraBandFreqSeparationDL</i> and extends it in contiguous manner with no frequency gap, and the network may configure contiguous or non-contiguous downlink serving cells in that extended range. The UE sets the same value in the FeatureSetDownlink of each band entry within a band. The values mhzX correspond to the values XMHz defined in TS38.101-2 [3]. The sum of <i>intraBandFreqSeparationDL</i> and <i>intraBandFreqSeparationDL-Only</i> shall not exceed 2400 MHz. If the UE sets this field, the sum of <i>intraBandFreqSeparationDL</i> and <i>intraBandFreqSeparationDL-Only</i> shall be larger than 1400 MHz. A UE supporting this feature shall also support <i>intraBandFreqSeparationDL</i>. 	FS	No	N/A	FR2 only

ntraFreqDAPS-r16	FS	No	N/A	N/A
ndicates whether UE supports intra-frequency DAPS handover, e.g. support of simultaneous DL reception of PDCCH and PDSCH from source and target cell. A				
JE indicating this capability shall also support intra-frequency synchronous DAPS				
nandover, single UL transmission and cancelling UL transmission to the source cell				
or intra-frequency DAPS handover. The capability signalling comprises of the				
ollowing parameters:				
 intraFreqAsyncDAPS-r16 indicates whether the UE supports asynchronous DAPS handover. 				
 intraFreqDiffSCS-DAPS-r16 indicates whether the UE supports different 				
SCSs in source PCell and intra-frequency target PCell in DAPS handover.				
The UE only includes this field if different SCSs can be supported in both UL				
and DL. If absent, the UE does not support either UL or DL SCS being				
different in DAPS handover.				
oneFL-DMRS-ThreeAdditionalDMRS-DL	FS	No	N/A	N/A
Defines whether the UE supports DM-RS pattern for DL transmission with 1 symbol	_			
ront-loaded DM-RS with three additional DM-RS symbols.				
oneFL-DMRS-TwoAdditionalDMRS-DL	FS	Yes	N/A	N/A
Defines support of DM-RS pattern for DL transmission with 1 symbol front-loaded	10	103	1 1/7 1	1 1/7
DM-RS with 2 additional DM-RS symbols and more than 1 antenna ports.				
odcch-Monitoring-r16	FS	No	N/A	N/A
ndicates whether the UE supports PDCCH search space monitoring occasions in			1.1/1	1 1/7
any symbol of the slot with minimum time separation between two consecutive				
ransmissions 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.				
The different value can be reported for PDSCH processing type 1 and PDSCH				
processing type 2, respectively. For each sub-carrier spacing, the leading / leftmost (X,Y) of (Z,Z) . The next his (his 4)				
it (bit 0) corresponds to the supported value set (X,Y) of $(7,3)$. The next bit (bit 1)				
corresponds to the supported value set (X,Y) of $(4,3)$. The rightmost bit (bit 2)				
corresponds to the supported value set (X,Y) of (2,2).				
odcch-MonitoringAnyOccasions	FS	No	N/A	N/A
Defines the supported PDCCH search space monitoring occasions. withoutDCI-gap				
ndicates whether the UE supports PDCCH search space monitoring occasions in				
any symbol of the slot for Type 1-PDCCH common search space configured by				
ledicated 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				
plind decodes in a slot for 15 kHz, 30 kHz, 60kHz, and 120 kHz subcarrier spacing				
values respectively. with DCI-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 14OFDM 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				
espectively.				
odcch-MonitoringAnyOccasionsWithSpanGap	FS	No	N/A	N/A
ndicates whether the UE supports PDCCH search space monitoring occasions in				
ny symbol of the slot with minimum time separation between two consecutive				
ransmissions 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.				
alue 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).				
odcch-MonitoringMixed-r16	FS	No	N/A	N/A
ndicates support of Rel-15 monitoring capability and pdcch-Monitoring-r16 on				
lifferent serving cells.				
odsch-ProcessingType1-DifferentTB-PerSlot	FS	No	N/A	N/A
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				
DSCH scrambled using C-RNTI, TC-RNTI, MCS-C-RNTI or CS-RNTI in one				
erving cell within the same slot per CC that are multiplexed in time domain only.				

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 <i>numberOfCarriers</i> 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.				
- differentTB-PerSlot-SCS-30kHz indicates the number of different TBs per				
slot.				
The UE supports this limited processing capability 2 only if:				
1) One carrier is configured in the band, independent of the number of carriers				
configured in the other bands;				
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				
may data rate calculation	FS	CY	N/A	N/A
	1 FO		IN/A	
max data rate calculation. scellWithoutSSB Defines what has the LIE supports configuration of SCall that does not transmit		1		
scellWithoutSSB Defines whether the UE supports configuration of SCell that does not transmit		1	1	
scellWithoutSSB Defines whether the UE supports configuration of SCell that does not transmit SS/PBCH block. This is conditionally mandatory with capability signalling for intra-				
scellWithoutSSB 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.	E2	No	NI/A	N1/A
scellWithoutSSB 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
scellWithoutSSB 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 Defines whether the UE supports DL PDCCH search space sharing for carrier	FS	No	N/A	N/A
scellWithoutSSB 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 Defines whether the UE supports DL PDCCH search space sharing for carrier aggregation operation.				
scellWithoutSSB 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 Defines whether the UE supports DL PDCCH search space sharing for carrier	FS	No	N/A N/A	N/A

supportedSRS-Resources Defines support of SRS resources for SRS carrier switching for a band without	FS	FD	N/A	N/A
 associated FeatureSetuplink. The capability signalling comprising indication of: maxNumberAperiodicSRS-PerBWP indicates supported maximum number of aperiodic SRS resources that can be configured for the UE per each BWP 				
 maxNumberAperiodicSRS-PerBWP-PerSlot indicates supported maximum number of aperiodic SRS resources per slot in the BWP 				
 maxNumberPeriodicSRS-PerBWP indicates supported maximum number of periodic SRS resources per BWP 				
 maxNumberPeriodicSRS-PerBWP-PerSlot indicates supported maximum number of periodic SRS resources per slot in the BWP 				
 maxNumberSemiPersistentSRS-PerBWP indicate supported maximum number of semi-persistent SRS resources that can be configured for the UE per each BWP 				
 maxNumberSemiPersistentSRS-PerBWP-PerSlot indicates supported maximum number of semi-persistent SRS resources per slot in the BWP 				
 maxNumberSRS-Ports-PerResource indicates supported maximum number of SRS antenna port per each SRS resource 				
If the UE indicates the support of srs-CarrierSwitch for this band and this field is absent, the UE supports 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				only
reception and applying spatial QCL information received in DCI for PDSCH				
processing as described in TS 38.214 [12] clause 5.1.5. The number of OFDM				
symbols is measured from the end of the last symbol of the PDCCH reception to the start of the first symbol of the PDSCH reception. UE shall indicate one value of the				
minimum number of OFDM symbols per each subcarrier spacing of 60kHz and				
120kHz.				
twoFL-DMRS-TwoAdditionalDMRS-DL	FS	No	N/A	N/A
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.		X	N1/A	
type1-3-CSS Defines whether the UE is able to receive PDCCH in FR2 in a Type1-PDCCH	FS	Yes	N/A	FR2
common search space configured by dedicated RRC signaling, in a Type3-PDCCH				only
common search space or a UE-specific search space if those are associated with a				
CORESET with a duration of 3 symbols.				
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 TDD-UL-DL-ConfigDedicated 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. For FR1, the UE shall indicate support according to TS 38.101-1 [2], Table 5.3.5-1.	FSPC	CY	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
 multiDCI-MultiTRP-r16 Indicates whether the UE supports multi-DCI based multi-TRP and support of fully/partially overlapping PDSCHs in time and non-overlapping in frequency. This capability applies only to BWPs where two values of <i>coresetPoolIndex</i> are configured. The capability signalling contains the following: maxNumberCORESET-r16 indicates maximum number of CORESETs configured per BWP per cell in addition to CORESET 0. maxNumberCORESETPerPoolIndex-r16 indicates maximum number of CORESETs configured per <i>coresetPoolIndex</i>-r16 indicates maximum number of cORESET 0. maxNumberUnicastPDSCH-PerPool-r16 indicates maximum number of unicast PDSCHs per <i>coresetPoolIndex</i> per slot. NOTE 1: A UE may assume that its maximum receive timing difference between the DL transmissions from two TRPs is within a Cyclic Prefix. NOTE 2: Processing capability 2 is not supported in any CC if at least one CC is configured with two values of <i>coresetPoolIndex</i>. NOTE 3: If UE reports value N1 for maxNumberCORESET-r16, that means UE supports up to min (N1+1, 5) CORESETs in total (including CORESET#0) if there is no CORESET#0. NOTE 4: If UE reports value N2 for maxNumberCORESETPerPoolIndex-r16, that means UE supports up to min (N2+1, 3) CORESETs in total (including CORESET#0) for a TRP if there is no CORESET#0. 	FSPC	No	N/A	N/A
 <i>supportedBandwidthDL</i> Indicates maximum DL channel bandwidth supported for a given SCS that UE supports within a single CC (and in case of DAPS handover for the source or target cell), 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. 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]. 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]. 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>supportedBandwidthCombinationSet</i> and the <i>supportedBandwidthCombinationSetIntraENDC</i>. For serving cell(s) with other channel bandwidth combinationSet (for a band supporting asymmetric channel bandwidthCombinationSet (for a band supporting asymmetric channel bandwidthDL. 	FSPC	CY	N/A	N/A

 supportedModulationOrderDL 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: for FR1, the network uses the modulation order signalled in <i>pdsch-256QAM-FR1</i>. for FR2, the network uses the modulation order signalled per band i.e. <i>pdsch-256QAM-FR1</i>. for FR2 if signalled. If not signalled in a given band, the network shall use the modulation order 64QAM. 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 	FSPC	No	N/A	N/A
[12]. supportedSubCarrierSpacingDL 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	СҮ	N/A	N/A
supportFDM-SchemeB-r16 Indicates whether UE supports single DCI based FDMSchemeB.	FSPC	No	N/A	N/A

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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
cbgPUSCH-ProcessingType1-DifferentTB-PerSlot-r16 Defines whether the UE capable of processing time capability 1 supports CBG based transmission with one or with up to two or with up to four or with up to seven unicast PUSCHs per slot per CC.	FS	No	N/A	N/A
cbgPUSCH-ProcessingType2-DifferentTB-PerSlot-r16 Defines whether the UE capable of processing time capability 2 supports CBG based transmission with one or with up to two or with up to four or with up to seven unicast PUSCHs per slot per CC.	FS	No	N/A	N/A
crossCarrierSchedulingProcessing-DiffSCS-r16 Indicates the UE cross carrier scheduling processing capability for UL carrier aggregation processing up to X unicast DCI scheduling for UL per scheduled CC. X is based on pair of (scheduling CC SCS, scheduled CC SCS) where a pair of (15,120), (15,60), (30,120) kHz SCS can have X = {1,2,4} while a pair of (15,30), (30,60), (60,120) kHz SCS can have X = {2}, and X applies per slot of scheduling CC.	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, intraBandFreqSeparationUL-v1620</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 mhzX corresponds to the values XMHz defined in TS 38.101-2 [3]. It is mandatory to report for UE which supports UL non-contiguous CA in FR2. If the UE sets the field <i>intraBandFreqSeparationUL-v1620</i> it shall set <i>intraBandFreqSeparationUL</i> (without suffix) to the nearest smaller value.	FS	CY	N/A	FR2 only
 intraFreqDAPS-UL-r16 Indicates whether UE supports enhanced uplink capabilities for intra-frequency DAPS handover. The UE only includes this capability signalling if intraFreqDAPS-r16 is included in the FeatureSetDownlink for the same FeatureSet. The capability signalling comprises of the following parameter: intraFreqTwoTAGs-DAPS-r16 indicates whether the UE supports different timing advance groups in source PCell and intra-frequency target PCell. It is 	FS	No	N/A	N/A
mandatory with capability signalling. multiPUCCH-r16 Indicates whether the UE supports more than one PUCCH for HARQ-ACK transmission within a slot. This field includes the following parameters: - sub-SlotConfig-NCP-r16 indicates the sub-slot configuration for NCP; - sub-SlotConfig-ECP-r16 indicates the sub-slot configuration for ECP. For NCP, the value set1 denotes 7-symbol*2, and set2 denotes 2-symbol*7 and 7- symbol*2	FS	No	N/A	N/A
symbol*2. For ECP, the value <i>set1</i> denotes 6-symbol*2, and <i>set</i> 2 denotes 2-symbol*6 and 6- symbol*2.	F0	N1-	N1/A	N1/A
<i>mux-SR-HARQ-ACK-r16</i> Indicates whether the UE supports SR/HARQ-ACK multiplexing once per subslot using a PUCCH (or HARQ-ACK piggybacked on a PUSCH) when SR/HARQ-ACK are supposed to be sent with different starting symbols in a subslot.	FS	No	N/A	N/A

offsetSRS-CB-PUSCH-Ant-Switch-fr1-r16 Indicates whether UE requires minimum of 19 symbols offset between aperiodic SRS triggering and transmission for SRS for codebook based PUSCH and antenna switching.	FS	No	N/A	FR1 only
UE indicating support of this shall indicate support of <i>supportedSRS-Resources</i> . offsetSRS-CB-PUSCH-PDCCH-MonitorSingleOcc-fr1-r16 Indicates whether UE requires minimum of 19 symbols offset between aperiodic SRS triggering and transmission for SRS for codebook based PUSCH and antenna switching for the case of PDCCH monitoring on any span of up to 3 consecutive OFDM symbols of a slot.	FS	No	N/A	FR1 only
UE indicating support of this shall indicate support of <i>supportedSRS-Resources</i> . offsetSRS-CB-PUSCH-PDCCH-MonitorAnyOccWithoutGap-fr1-r16 Indicates whether UE requires minimum of 19 symbols offset between aperiodic SRS triggering and transmission for the case of 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.	FS	No	N/A	FR1 only
UE indicating support of this shall indicate support of <i>supportedSRS-Resources</i> . <i>offsetSRS-CB-PUSCH-PDCCH-MonitorAnyOccWithGap-fr1-r16</i> Indicates whether UE requires minimum of 19 symbols offset between aperiodic SRS triggering and transmission for SRS for codebook based PUSCH and antenna switching for the case of 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	FR1 only
UE indicating support of this shall indicate support of <i>pdcch-</i> <i>MonitoringAnyOccasions</i> with value <i>withDCI-Gap</i> and <i>supportedSRS-Resources.</i> <i>offsetSRS-CB-PUSCH-PDCCH-MonitorAnyOccWithSpanGap-fr1-r16</i> Indicates whether UE requires minimum of 19 symbols offset between aperiodic SRS triggering and transmission for the case of 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).	FS	No	N/A	FR1 only
UE indicating support of this shall indicate support of supportedSRS-Resources.				

pa-PhaseDiscontinuityImpacts 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
 This capability applies to: Intra-band (NG)EN-DC/NE-DC combination without additional inter-band NR and LTE CA component; Intra-band (NG)EN-DC/NE-DC combination supporting both UL and DL intraband (NG)EN-DC/NE-DC parts with additional inter-band NR/LTE CA component; 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]). 				
If this capability is included in 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", this capability applies to the intra-band (NG)EN-DC/NE-DC BC part.				
 partialCancellationPUCCH-PUSCH-PRACH-TX-r16 Indicates whether UE supports the partial cancellation of the configured PUCCH or PUSCH or PRACH transmission in set of symbols of a slot due to: Detection of a DCI format 2_0 with a slot format value other than 255 that indicates a slot format with a subset of symbols from the set of symbols as downlink or flexible; DCI format 2_0 being configured but not detected, when either a subset of symbols from the set of symbols are indicated as flexible by tdd-UL-DL-ConfigurationCommon, and tdd-UL-DL-ConfigurationDedicated if provided, or tdd-UL-DL-ConfigurationCommon and tdd-UL-DL-ConfigurationDedicated are not provided to the UE; Detection of a DCI format 1_0, DCI format 1_1, DCI format 1_2 or DCI format 0_1 and DCI format 0_2 indicating to the UE to receive CSI-RS or PDSCH in a subset of symbols from the set of symbols from the set of symbols. 	FS	No	N/A	N/A
pusch-ProcessingType1-DifferentTB-PerSlot 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
 pusch-ProcessingType2 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. <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; <i>differentTB-PerSlot</i> indicates whether the UE supports processing type 2 for 	FS	No	N/A	FR1 only
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-RepetitionTypeB-r16</i> Indicates whether the UE supports PUSCH repetition type B, as specified in 6.1.2 of TS 38.214 [12].	FS	No	N/A	N/A

pusch-SeparationWithGap				
	FS	No	N/A	N/A
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.				
searchSpaceSharingCA-UL	FS	No	N/A	N/A
Defines whether the UE supports UL PDCCH search space sharing for carrier				
aggregation operation.				
simultaneousTxSUL-NonSUL	FS	No	N/A	N/A
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.				
srs-PosResources-r16	FS	No	N/A	N/A
Indicates support of SRS for positioning. UE supporting this feature should also				
support open loop power control for positioning SRS based on SSB from the				
serving cell. The capability signalling comprises the following parameters:				
- maxNumberSRS-PosResourceSetPerBWP-r16 Indicates the max number of				
SRS Resource Sets for positioning supported by UE per BWP;				
- maxNumberSRS-PosResourcesPerBWP-r16 indicates the max number of				
SRS resources for positioning supported by UE per BWP, including periodic,				
semi-persistent, and aperiodic SRS;				
- maxNumberSRS-ResourcesPerBWP-PerSlot-r16 indicates the max number				
of SRS resources configured by SRS-Resource and SRS-PosResource-r16				
supported by UE per BWP, including periodic, semi-persistent, and aperiodic SRS;				
SK3,				
- maxNumberPeriodicSRS-PosResourcesPerBWP-r16 indicates the max				
number of periodic SRS resources for positioning supported by UE per BWP;				
,				
 maxNumberPeriodicSRS-PosResourcesPerBWP-PerSlot-r16 indicates the 				
	1	1		
max number of periodic SRS resources for positioning supported by UE per				
max number of periodic SRS resources for positioning supported by UE per BWP per slot.				
BWP per slot.				
BWP per slot. srs-PosResourceAP-r16	FS	No	N/A	N/A
BWP per slot. <i>srs-PosResourceAP-r16</i> Indicates support of aperiodic SRS for positioning. The UE can include this field	FS	No	N/A	N/A
BWP per slot. srs-PosResourceAP-r16 Indicates support of aperiodic SRS for positioning. The UE can include this field only if the UE supports <i>srs-PosResources-r16</i> . Otherwise, the UE does not include	FS	No	N/A	N/A
BWP per slot. srs-PosResourceAP-r16 Indicates support of aperiodic SRS for positioning. The UE can include this field only if the UE supports <i>srs-PosResources-r16</i> . Otherwise, the UE does not include this field. The capability signalling comprises the following parameters:	FS	No	N/A	N/A
BWP per slot. srs-PosResourceAP-r16 Indicates support of aperiodic SRS for positioning. The UE can include this field only if the UE supports <i>srs-PosResources-r16</i> . Otherwise, the UE does not include this field. The capability signalling comprises the following parameters: - maxNumberAP-SRS-PosResourcesPerBWP-r16 indicates the max number	FS	No	N/A	N/A
BWP per slot. srs-PosResourceAP-r16 Indicates support of aperiodic SRS for positioning. The UE can include this field only if the UE supports <i>srs-PosResources-r16</i> . Otherwise, the UE does not include this field. The capability signalling comprises the following parameters:	FS	No	N/A	N/A
BWP per slot. srs-PosResourceAP-r16 Indicates support of aperiodic SRS for positioning. The UE can include this field only if the UE supports srs-PosResources-r16. Otherwise, the UE does not include this field. The capability signalling comprises the following parameters: maxNumberAP-SRS-PosResourcesPerBWP-r16 indicates the max number of aperiodic SRS resources for positioning supported by UE per BWP; 	FS	No	N/A	N/A
BWP per slot. srs-PosResourceAP-r16 Indicates support of aperiodic SRS for positioning. The UE can include this field only if the UE supports srs-PosResources-r16. Otherwise, the UE does not include this field. The capability signalling comprises the following parameters: maxNumberAP-SRS-PosResourcesPerBWP-r16 indicates the max number of aperiodic SRS resources for positioning supported by UE per BWP; maxNumberAP-SRS-PosResourcesPerBWP-PerSlot-r16 indicates the max 	FS	No	N/A	N/A
BWP per slot. srs-PosResourceAP-r16 Indicates support of aperiodic SRS for positioning. The UE can include this field only if the UE supports srs-PosResources-r16. Otherwise, the UE does not include this field. The capability signalling comprises the following parameters: maxNumberAP-SRS-PosResourcesPerBWP-r16 indicates the max number of aperiodic SRS resources for positioning supported by UE per BWP; maxNumberAP-SRS-PosResourcesPerBWP-PerSlot-r16 indicates the max number of aperiodic SRS resources for positioning supported by UE per 	FS	No	N/A	N/A
BWP per slot. srs-PosResourceAP-r16 Indicates support of aperiodic SRS for positioning. The UE can include this field only if the UE supports srs-PosResources-r16. Otherwise, the UE does not include this field. The capability signalling comprises the following parameters: maxNumberAP-SRS-PosResourcesPerBWP-r16 indicates the max number of aperiodic SRS resources for positioning supported by UE per BWP; maxNumberAP-SRS-PosResourcesPerBWP-PerSlot-r16 indicates the max 	FS	No	N/A	N/A
BWP per slot. srs-PosResourceAP-r16 Indicates support of aperiodic SRS for positioning. The UE can include this field only if the UE supports srs-PosResources-r16. Otherwise, the UE does not include this field. The capability signalling comprises the following parameters: maxNumberAP-SRS-PosResourcesPerBWP-r16 indicates the max number of aperiodic SRS resources for positioning supported by UE per BWP; maxNumberAP-SRS-PosResourcesPerBWP-PerSlot-r16 indicates the max number of aperiodic SRS resources for positioning supported by UE per 	FS	No	N/A N/A	
 BWP per slot. srs-PosResourceAP-r16 Indicates support of aperiodic SRS for positioning. The UE can include this field only if the UE supports srs-PosResources-r16. Otherwise, the UE does not include this field. The capability signalling comprises the following parameters: maxNumberAP-SRS-PosResourcesPerBWP-r16 indicates the max number of aperiodic SRS resources for positioning supported by UE per BWP; maxNumberAP-SRS-PosResources for positioning supported by UE per BWP; maxNumberAP-SRS-PosResources for positioning supported by UE per BWP per slot. 				
 BWP per slot. srs-PosResourceAP-r16 Indicates support of aperiodic SRS for positioning. The UE can include this field only if the UE supports srs-PosResources-r16. Otherwise, the UE does not include this field. The capability signalling comprises the following parameters: maxNumberAP-SRS-PosResourcesPerBWP-r16 indicates the max number of aperiodic SRS resources for positioning supported by UE per BWP; maxNumberAP-SRS-PosResources for positioning supported by UE per BWP; maxNumberAP-SRS-PosResources for positioning supported by UE per BWP per slot. srs-PosResourceSP-r16 Indicates support of semi-persistent SRS for positioning. The UE can include this 				
 BWP per slot. srs-PosResourceAP-r16 Indicates support of aperiodic SRS for positioning. The UE can include this field only if the UE supports srs-PosResources-r16. Otherwise, the UE does not include this field. The capability signalling comprises the following parameters: maxNumberAP-SRS-PosResourcesPerBWP-r16 indicates the max number of aperiodic SRS resources for positioning supported by UE per BWP; maxNumberAP-SRS-PosResources for positioning supported by UE per BWP; maxNumberAP-SRS-PosResources for positioning supported by UE per BWP per slot. srs-PosResourceSP-r16 Indicates support of semi-persistent SRS for positioning. The UE can include this field only if the UE supports srs-PosResources-r16. Otherwise, the UE does not 				
 BWP per slot. srs-PosResourceAP-r16 Indicates support of aperiodic SRS for positioning. The UE can include this field only if the UE supports srs-PosResources-r16. Otherwise, the UE does not include this field. The capability signalling comprises the following parameters: maxNumberAP-SRS-PosResourcesPerBWP-r16 indicates the max number of aperiodic SRS resources for positioning supported by UE per BWP; maxNumberAP-SRS-PosResources for positioning supported by UE per BWP; maxNumberAP-SRS-PosResources for positioning supported by UE per BWP per slot. srs-PosResourceSP-r16 Indicates support of semi-persistent SRS for positioning. The UE can include this field only if the UE supports srs-PosResources-r16. Otherwise, the UE does not include this field. The capability signalling comprises the following parameters: 				
 BWP per slot. srs-PosResourceAP-r16 Indicates support of aperiodic SRS for positioning. The UE can include this field only if the UE supports srs-PosResources-r16. Otherwise, the UE does not include this field. The capability signalling comprises the following parameters: maxNumberAP-SRS-PosResourcesPerBWP-r16 indicates the max number of aperiodic SRS resources for positioning supported by UE per BWP; maxNumberAP-SRS-PosResourcesPerBWP-PerSlot-r16 indicates the max number of aperiodic SRS resources for positioning supported by UE per BWP per slot. srs-PosResourceSP-r16 Indicates support of semi-persistent SRS for positioning. The UE can include this field only if the UE supports srs-PosResources-r16. Otherwise, the UE does not include this field. The capability signalling comprises the following parameters: maxNumberSP-SRS-PosResourcesPerBWP-r16 indicates the max number 				
 BWP per slot. srs-PosResourceAP-r16 Indicates support of aperiodic SRS for positioning. The UE can include this field only if the UE supports srs-PosResources-r16. Otherwise, the UE does not include this field. The capability signalling comprises the following parameters: maxNumberAP-SRS-PosResourcesPerBWP-r16 indicates the max number of aperiodic SRS resources for positioning supported by UE per BWP; maxNumberAP-SRS-PosResources for positioning supported by UE per BWP; maxNumberAP-SRS-PosResources for positioning supported by UE per BWP per slot. srs-PosResourceSP-r16 Indicates support of semi-persistent SRS for positioning. The UE can include this field only if the UE supports srs-PosResources-r16. Otherwise, the UE does not include this field. The capability signalling comprises the following parameters: 				N/A
 BWP per slot. srs-PosResourceAP-r16 Indicates support of aperiodic SRS for positioning. The UE can include this field only if the UE supports srs-PosResources-r16. Otherwise, the UE does not include this field. The capability signalling comprises the following parameters: maxNumberAP-SRS-PosResourcesPerBWP-r16 indicates the max number of aperiodic SRS resources for positioning supported by UE per BWP; maxNumberAP-SRS-PosResourcesPerBWP-PerSlot-r16 indicates the max number of aperiodic SRS resources for positioning supported by UE per BWP per slot. srs-PosResourceSP-r16 Indicates support of semi-persistent SRS for positioning. The UE can include this field only if the UE supports srs-PosResources-r16. Otherwise, the UE does not include this field. The capability signalling comprises the following parameters: maxNumberSP-SRS-PosResourcesPerBWP-r16 indicates the max number 				
 BWP per slot. srs-PosResourceAP-r16 Indicates support of aperiodic SRS for positioning. The UE can include this field only if the UE supports srs-PosResources-r16. Otherwise, the UE does not include this field. The capability signalling comprises the following parameters: maxNumberAP-SRS-PosResourcesPerBWP-r16 indicates the max number of aperiodic SRS resources for positioning supported by UE per BWP; maxNumberAP-SRS-PosResourcesPerBWP-PerSlot-r16 indicates the max number of aperiodic SRS resources for positioning supported by UE per BWP; maxNumberAP-SRS-PosResources for positioning supported by UE per BWP per slot. srs-PosResourceSP-r16 Indicates support of semi-persistent SRS for positioning. The UE can include this field only if the UE supports srs-PosResources-r16. Otherwise, the UE does not include this field. The capability signalling comprises the following parameters: maxNumberSP-SRS-PosResourcesPerBWP-r16 indicates the max number of semi-persistent SRS for positioning. The UE can include this field only if the UE supports srs-PosResources-r16. Otherwise, the UE does not include this field. The capability signalling comprises the following parameters: maxNumberSP-SRS-PosResourcesPerBWP-r16 indicates the max number of semi-persistent SRS resources for positioning supported by UE per BWP; 				

supportedSRS-Resources Defines support of SRS resources. The capability	signalling comprising indication	FS	FD	N/A	N/A
of: - maxNumberAperiodicSRS-PerBWP indica of aperiodic SRS resources that can be co					
 maxNumberAperiodicSRS-PerBWP-PerSinumber of aperiodic SRS resources per sl 					
 maxNumberPeriodicSRS-PerBWP indicate periodic SRS resources per BWP 	es supported maximum number of				
 maxNumberPeriodicSRS-PerBWP-PerSlo number of periodic SRS resources per slo 					
 maxNumberSemiPersistentSRS-PerBWP number of semi-persistent SRS resources per each BWP 					
 maxNumberSemiPersistentSRS-PerBWP maximum number of semi-persistent SRS 					
 maxNumberSRS-Ports-PerResource indic of SRS antenna port per each SRS resource 					
f this field is not included, the UE supports one p persistent SRS resources per BWP and one perio persistent SRS resources per BWP per slot and c resource.	odic, one aperiodic, no semi-				
ndicates whether the UE supports two HARQ-AC subslot based HARQ-ACK codebook (i.e. slot-bas subslot based) simultaneously constructed for su with different priorities at a UE. The capability sign parameters: - sub-SlotConfig-NCP-r16 indicates the max transmissions for HARQ-ACK within a slot configuration;	sed + slot-based, or slot-based + oporting HARQ-ACK codebooks nalling comprises the following kimum number of actual PUCCH				
 sub-SlotConfig-ECP-r16 indicates the max transmissions for HARQ-ACK within a slot configuration; 					
For the 7-symbol*2 sub-slot configuration of NCP configuration of ECP, the value of the maximum r transmissions for HARQ-ACK within a slot is {2}.					
 the capability reported by <i>twoPUC</i> whether the UE supports one PUC format 1, 3 or 4 in the same slot fo subject to the capability reported b <i>LongAndShortFormat</i>. whether the UE supports two PUC for each HARQ-ACK codebook no <i>ConsecSymbols</i> and <i>onePUCCH-I</i> 	ACK codebooks: CH of format 0 or 2 in consecutive HARQ-ACK codebook is subject to CH-F0-2-ConsecSymbols. CH format 0 or 2 and one PUCCH r each HARQ-ACK codebook is y onePUCCH- CH transmissions in the same slot t covered by twoPUCCH-F0-2- LongAndShortFormat is subject to				
the capability reported by <i>twoPUC</i> NOTE 2: If a UE reports both <i>multiPUCCH-r16</i> a <i>type1-r16</i> , it can support two slot-base slot-based and one-sub-slot-based HA reports <i>twoHARQ-ACK-Codebook-type</i> <i>multiPUCCH-r16</i> , it can only support two codebooks.	and twoHARQ-ACK-Codebook- d HARQ-ACK codebooks, and one RQ-ACK codebooks. If a UE e1-r16 but does not report				

twoHARQ-ACK-Codebook-type2-r16	FS	No	N/A	N/A
Indicates whether the UE supports two subslot based HARQ-ACK codebooks simultaneously constructed for supporting HARQ-ACK codebooks with different priorities at a UE. The capability signalling comprises the following parameters:				
 sub-SlotConfig-NCP-r16 indicates the maximum number of actual PUCCH transmissions for HARQ-ACK within a slot for NCP with 2-symbol*7 sub-slot configuration; 				
 sub-SlotConfig-ECP-r16 indicates the maximum number of actual PUCCH transmissions for HARQ-ACK within a slot for ECP with 2-symbol*6 sub-slot configuration; 				
For the 7-symbol*2 sub-slot configuration of NCP or the 6-symbol*2 sub-slot configuration of ECP, the value of the maximum number of actual PUCCH transmissions for HARQ-ACK within a slot is {2}.				
twoPUCCH-Group 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, wherein an 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
twoPUCCH-Type1-r16 Indicates whether the UE supports two PUCCH of format 0 or 2 in the same subslot for a single 7*2-symbol subslot based HARQ-ACK codebook.	FS	No	N/A	N/A
<i>twoPUCCH-Type2-r16</i> Indicates whether the UE supports two PUCCH of format 0 or 2 in consecutive symbols in the same subslot for a single 2*7-symbol subslot based HARQ-ACK codebook.	FS	No	N/A	N/A
twoPUCCH-Type3-r16 Indicates whether the UE supports one PUCCH format 0 or 2 and one PUCCH format 1, 3 or 4 in the same subslot for a single 2*7-symbol HARQ-ACK codebook.	FS	No	N/A	N/A
<i>twoPUCCH-Type4-r16</i> Indicates whether the UE supports two PUCCH transmissions in the same subslot for a single 2*7-symbol HARQ-ACK codebook which are not covered by <i>twoPUCCH-Type2-r16</i> and <i>twoPUCCH-Type3-r16</i> .	FS	No	N/A	N/A
twoPUCCH-Type5-r16 Indicates whether the UE supports two PUCCH of format 0 or 2 for two HARQ-ACK codebooks with one 7*2-symbol subslot based HARQ-ACK codebook and one slot based HARQ-ACK codebook.	FS	No	N/A	N/A
twoPUCCH-Type6-r16 Indicates whether the UE supports two PUCCH of format 0 or 2 in consecutive symbols in the same subslot for two HARQ-ACK codebooks with one 2*7-symbol subslot based HARQ-ACK codebook and one slot based HARQ-ACK codebook.	FS	No	N/A	N/A
twoPUCCH-Type7-r16 Indicates whether the UE supports two PUCCH of format 0 or 2 in consecutive symbols in the same subslot for two subslot based HARQ-ACK codebooks.	FS	No	N/A	N/A
twoPUCCH-Type8-r16 Indicates whether the UE supports one PUCCH format 0 or 2 and one PUCCH format 1, 3 or 4 in the same subslot for two HARQ-ACK codebooks with one 2*7- symbol subslot based HARQ-ACK codebook and one slot based HARQ-ACK codebook.	FS	No	N/A	N/A
twoPUCCH-Type9-r16 Indicates whether the UE supports one PUCCH format 0 or 2 and one PUCCH format 1, 3 or 4 in the same subslot for two subslot based HARQ-ACK codebooks.	FS	No	N/A	N/A
twoPUCCH-Type10-r16 ndicates whether the UE supports two PUCCH transmissions in the same subslot for two HARQ-ACK codebooks with one 2*7-symbol subslot and one slot based HARQ-ACK codebook which are not covered by <i>twoPUCCH-Type6-r16</i> and	FS	No	N/A	N/A
<i>twoPUCCH-Type8-r16.</i> <i>twoPUCCH-Type11-r16</i> Indicates whether the UE supports two PUCCH transmissions in the same subslot for two subslot based HARQ-ACK codebooks which are not covered by <i>twoPUCCH-Type7-r16</i> and <i>twoPUCCH-Type9-r16</i> .	FS	No	N/A	N/A

ul-CancellationCrossCarrier-r16 Indicates whether the UE supports UL cancellation scheme for cross-carrier	FS	No	N/A	N/A
comprised of the following functional components:				
- Supports group common DCI (i.e. DCI format 2_4) for cancellation indication				
on a different DL CC than that scheduling PUSCH or SRS;				
on a different DE OO than that schedding i OOOT of OKO,				
- UL cancellation for PUSCH. Cancellation is applied to each PUSCH				
repetition individually in case of PUSCH repetitions;				
- UL cancellation for SRS symbols that overlap with the cancelled symbols.				
ul-CancellationSelfCarrier-r16	FS	No	N/A	N/A
Indicates whether the UE supports UL cancellation scheme for self-carrier				
comprised of the following functional components:				
 Supports group common DCI (i.e. DCI format 2_4) for cancellation indication 				
on the same DL CC as that scheduling PUSCH or SRS;				
- UL cancellation for PUSCH. Cancellation is applied to each PUSCH				
repetition individually in case of PUSCH repetitions;				
- UL cancellation for SRS symbols that overlap with the cancelled symbols.				
ul-FullPwrMode-r16	FS	No	N/A	N/A
Indicates the UE support of UL full power transmission mode of fullpower as				
specified in clause 7.1 of TS 38.213 [11]. If the UE indicates this capability the UE				
also indicates the support of codebook based PUSCH MIMO transmission using				
mimo-CB-PUSCH and the support of PUSCH codebook coherency subset using				
pusch-TransCoherence.				
ul-FullPwrMode1-r16	FS	No	N/A	N/A
Indicates the UE support of UL full power transmission mode of <i>fullpowerMode1</i> . If				
the UE indicates this capability the UE also indicates the support of codebook				
based PUSCH MIMO transmission using <i>mimo-CB-PUSCH</i> and the support of				
PUSCH codebook coherency subset using pusch-TransCoherence.				
ul-FullPwrMode2-MaxSRS-ResInSet-r16	FS	No	N/A	N/A
Indicates the UE support of the maximum number of SRS resources in one SRS				
resource set with usage set to 'codebook' for uplink full power Mode 2 operation. If				
the UE indicates this capability the UE also indicates the support of codebook				
based PUSCH MIMO transmission using <i>mimo-CB-PUSCH</i> and the support of				
PUSCH codebook coherency subset using pusch-TransCoherence. A UE supports				
this feature shall support at least full power operation with single port.				
ul-FullPwrMode2-SRSConfig-diffNumSRSPorts-r16	FS	No	N/A	N/A
Indicates the UE supported SRS configuration with different number of antenna				
ports per SRS resource for uplink full power Mode 2 operation. The possible				
different number of antenna ports that can be configured for a SRS resource are as				
follow:				
- value <i>p1-2</i> means that each SRS resource can be configured with 1 port or 2				
ports				
 value p1-4 means that each SRS resource can be configured with 1 port or 4 				
ports				
 value p1-2-4 means that each SRS resource can be configured with 1 port or 				
2 ports or 4 ports				
LIE indicates support of this facture shall also indicate support of all Eul/Druct (s.d.o.				
UE indicates support of this feature shall also indicate support of <i>ul-FullPwrMode2-</i> <i>MaxSRS-ResInSet</i> .				
NOTE: The values <i>p1-2</i> , <i>p1-4</i> or <i>p1-2-4</i> can be used if <i>ul-FullPwrMode2-</i>				
MaxSRS-ResInSet is reported as n2 or n4.				

		0			N 1/A
Indicates th	<i>Node2-TPMIGroup-r16</i> e UE supported TPMI group(s) which delivers full power. The capability	FS	No	N/A	N/A
signalling c	omprises the following values:				
	Ports-r16 indicates a 2-bit bitmap, where the leading / leftmost bit (bit 0)				
	esponds to {TPMI index = 0}. The next bit (bit 1) corresponds to {TPMI $x = 1$ } and the TPMI index is as specified in Table 6.3.1.5-1 of TS 38.211				
[6]					
	PortsNonCoherent-r16 indicates the TPMI groups {G0-3}				
- tour	PortsPartialCoherent-r16 indicates the TPMI groups {G0-6}				
	s support of this feature shall also indicate support of <i>ul-FullPwrMode2</i> -				
MaxSRS-R					
	G0~G6 can be found in the table below:				
G	$\frac{1}{2}\begin{bmatrix}1\\0\\0\end{bmatrix},$				
	[1] [0] [1 0]				
G	$\frac{1}{2} \begin{bmatrix} 0 \\ 0 \end{bmatrix}, \frac{1}{2} \begin{bmatrix} 0 \\ 1 \end{bmatrix}, \frac{1}{2} \begin{bmatrix} 0 & 0 \\ 0 & 0 \end{bmatrix}, \frac{1}{2} \begin{bmatrix} 0 & 0 \\ 0 & 0 \end{bmatrix}, \frac{1}{2} \begin{bmatrix} 0 & 0 \\ 0 & 0 \end{bmatrix}, \frac{1}{2} \begin{bmatrix} 0 & 0 \\ 0 & 0 \end{bmatrix}, \frac{1}{2} \begin{bmatrix} 0 & 0 \\ 0 & 0 \end{bmatrix}, \frac{1}{2} \begin{bmatrix} 0 & 0 \\ 0 & 0 \end{bmatrix}, \frac{1}{2} \begin{bmatrix} 0 & 0 \\ 0 & 0 \end{bmatrix}, \frac{1}{2} \begin{bmatrix} 0 & 0 \\ 0 & 0 \end{bmatrix}, \frac{1}{2} \begin{bmatrix} 0 & 0 \\ 0 & 0 \end{bmatrix}, \frac{1}{2} \begin{bmatrix} 0 & 0 \\ 0 & 0 \end{bmatrix}, \frac{1}{2} \begin{bmatrix} 0 & 0 \\ 0 & 0 \end{bmatrix}, \frac{1}{2} \begin{bmatrix} 0 & 0 \\ 0 & 0 \end{bmatrix}, \frac{1}{2} \begin{bmatrix} 0 & 0 \\ 0 & 0 \end{bmatrix}, \frac{1}{2} \begin{bmatrix} 0 & 0 \\ 0 & 0 \end{bmatrix}, \frac{1}{2} $				
G					
	$\begin{bmatrix} 1 & 0 \end{bmatrix} \begin{bmatrix} 1 & 0 \end{bmatrix} \begin{bmatrix} 0 & 0 \end{bmatrix} \begin{bmatrix} 1 & 0 & 0 \end{bmatrix}$				
G	$3 \qquad \qquad \frac{1}{2} \begin{bmatrix} 0 & 0 \\ 0 & 1 \\ 0 & 0 \end{bmatrix}, \frac{1}{2} \begin{bmatrix} 0 & 1 \\ 1 & 0 \\ 0 & 0 \end{bmatrix}, \frac{1}{2} \begin{bmatrix} 0 & 1 \\ 0 & 0 \end{bmatrix}, \frac{1}{2} \begin{bmatrix} 0 & 1 & 0 \\ 0 & 1 \\ 0 & 0 \end{bmatrix}, \frac{1}{2} \begin{bmatrix} 0 & 1 & 0 \\ 0 & 0 & 1 \\ 0 & 0 & 0 \end{bmatrix}$				
	$\begin{bmatrix} 1\\1\\0\\1\end{bmatrix}\begin{bmatrix}1\\0\\1\end{bmatrix}\begin{bmatrix}1\\0\\1\end{bmatrix}\begin{bmatrix}1\\0\\1\end{bmatrix}\begin{bmatrix}1\\0\\1\end{bmatrix}\begin{bmatrix}1\\0\\0\end{bmatrix}\begin{bmatrix}1\\0\\0\end{bmatrix}$				
G					
G					
	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$				
G	3				
	$ \begin{bmatrix} 1 & 0 \\ 0 & 1 \\ 1 \\ 0 & 0 \end{bmatrix}, \begin{bmatrix} 1 & 0 \\ 0 & 1 \\ 1 \\ 0 \\ 0 \\ 0 \end{bmatrix}, \begin{bmatrix} 1 & 0 \\ 0 \\ 1 \\ 0 \\ 0 \end{bmatrix}, \begin{bmatrix} 1 & 0 \\ 0 \\ 1 \\ 2 \\ 0 \\ 0 \end{bmatrix}, \begin{bmatrix} 0 & 0 \\ 1 \\ 0 \\ 1 \\ 0 \\ 0 \end{bmatrix}, \begin{bmatrix} 0 & 0 \\ 1 \\ 0 \\ 0 \\ 1 \end{bmatrix}, \begin{bmatrix} 0 & 0 \\ 1 \\ 0 \\ 0 \\ 0 \end{bmatrix}, \begin{bmatrix} 1 & 0 & 0 \\ 0 \\ 1 \\ 0 \\ 0 \\ 0 \end{bmatrix}, \begin{bmatrix} 1 & 0 & 0 \\ 0 \\ 1 \\ 0 \\ 0 \\ 0 \end{bmatrix} $				
	Vhen a full coherent UE operates in mode 2, it reports TPMIs the same is a partial-coherent UE.				
NOTE 2: I	or 4 port partial-coherent or full-coherent UE, UE can report: 2-port {2-				
	it bitmap} and one of 4-port non-coherent {G0~G3} and one of 4-port artial-coherent {G0~G6}				
	For 4 port non-coherent UE, UE can report: 2-port {2-bit bitmap} and one				
	of 4-port non-coherent {G0~G3}				
	For 2 port UE, UE can report: 2-port {2-bit bitmap}				
INUIE 3: /	UE that supports this feature must report at least one of the values.	1			

 <i>ul-IntraUE-Mux-r16</i> Indicates whether the UE supports intra-UE multiplexing/prioritization of overlapping PUCCH/PUCCH and PUCCH/PUSCH with two priority levels in the physical layer. This field includes the following parameters: <i>pusch-PreparationLowPriority-r16</i> indicates the additional number of symbols needed beyond the PUSCH preparation time for cancelling a low priority UL transmission; <i>pusch-PreparationHighPriority-r16</i> indicates the additional number of the preparation time needed for the high priority UL transmission that cancels a low priority UL transmission. 	FS	No	N/A	N/A
The value <i>sym0</i> denotes 0 symbol, <i>sym1</i> denotes one symbol, and so on.				
ul-MCS-TableAlt-DynamicIndication	FS	No	N/A	N/A
Indicates whether the UE supports dynamic indication of MCS table using MCS-C-RNTI for PUSCH.				
zeroSlotOffsetAperiodicSRS	FS	No	N/A	N/A
Indicates whether the UE supports 0 slot offset between aperiodic SRS triggering and transmission, for SRS for CB PUSCH and antenna switching on FR1.				

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	CY	N/A	FR1 only
For FR1, the UE shall indicate support according to TS 38.101-1 [2], Table 5.3.5-1. maxNumberMIMO-LayersCB-PUSCH 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
<i>maxNumberMIMO-LayersNonCB-PUSCH</i> 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 <i>maxNumberMIMO-LayersNonCB-PUSCH, maxNumberSRS-ResourcePerSet</i> and <i>maxNumberSimultaneousSRS-ResourceTx</i> 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
<i>maxNumberSRS-ResourcePerSet</i> 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
 supportedBandwidthUL Indicates maximum UL channel bandwidth supported for a given SCS that UE supports within a single CC (and in case of DAPS handover for the source or target cell), 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. 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]. The UE may report a <i>supportedBandwidthUL</i> wider than the <i>channelBWs-UL</i>; this <i>supportedBandwidthUL</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 38.101-2[3]. 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 supportedBandwidthCombinationSetIntraENDC. For serving cell(s) with other channel bandwidth CombinationSetIntraENDC, the <i>supportedBandwidthCombinationSet</i> (for a band supporting asymmetric channel bandwidth as defined in clause 5.3.6 of TS 38.101-1 [2]) and 	FSPC	CY	N/A	N/A
 supportedBandwidthUL. supportedModulationOrderUL 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, 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. 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]. 	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.				

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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
 This capability applies to: Intra-band (NG)EN-DC combination without additional inter-band NR and LTE CA component; Intra-band (NG)EN-DC combination supporting both UL and DL intra-band (NG)EN-DC parts with additional inter-band NR/LTE CA component; Intra-band (NG)EN-DC combination without supporting UL in both the bands of the intra-band (NG)EN-DC UL part; Inter-band (NG)EN-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]). 				
If this capability is included in an "Intra-band (NG)EN-DC combination supporting both UL and DL intra-band (NG)EN-DC parts with additional inter-band NR/LTE CA component" or in an "Intra-band (NG)EN-DC combination without supporting UL in both the bands of the intra-band (NG)EN-DC UL part", this capability applies to the intra-band (NG)EN-DC BC part.				
<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
 This capability applies to: Intra-band (NG)EN-DC/NE-DC combination without additional inter-band NR and LTE CA component; Intra-band (NG)EN-DC/NE-DC combination supporting both UL and DL intraband (NG)EN-DC/NE-DC parts with additional inter-band NR/LTE CA component; 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]). 				
If this capability is included in 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", this capability applies to the intra-band (NG)EN-DC/NE-DC BC part.				
<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]. In this release of the specification, the UE supporting (NG)EN-DC shall set this field to <i>supported</i> .	BC	Yes	N/A	FR1 only
<i>dynamicPowerSharingNEDC</i> 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
<i>intraBandENDC-Support</i> 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

inter Den des ntinue vo MDDO				
interBandContiguousMRDC	BC	CY	N/A	N/A
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.				
interBandMRDC-WithOverlapDL-Bands-r16	BC	No	N/A	FR1
Indicates the UE supports FDD-FDD or TDD-TDD inter-band (NG)EN-DC/NE-DC				only
operation with overlapping or partially overlapping DL bands with an (NG)EN-				
DC/NE-DC MRTD according to clause 7.6.2/7.6.5 in 38.133 [5] and inter-band RF requirements (i.e Type 2 UE). If the capability is not reported, the UE supports FDD				
FDD or TDD-TDD inter-band operation with overlapping or partially DL bands with	-			
(NG)EN-DC/NE-DC MRTD<3us according to clause 7.6.3 in 38.133 [5] and intra-				
band RF requirements (i.e. Type 1 UE).				
simultaneousRxTxInterBandENDC	BC	CY	N/A	N/A
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].				
This conchility applies to:				
This capability applies to: - TDD-TDD and TDD-FDD 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;				
- TDD-TDD and TDD-FDD 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;				
 TDD-TDD and TDD-FDD Inter-band (NG)EN-DC/NE-DC combination 				
without Intra-band component.				
This capability is not applicable to the 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]).				
simultaneousRxTxInterBandENDCPerBandPair	BC	No	N/A	N/A
Indicates whether the UE supports simultaneous transmission and reception in				
TDD-TDD and TDD-FDD inter-band (NG)EN-DC/NE-DC for each band pair in the				
band combination. Encoded in the same manner as <i>simultaneousRxTxInterBandCAPerBandPair</i> .				
The UE does not include this field if the UE supports simultaneous transmission and	4			
reception for all band pairs in the band combination (in which case				
reception for all band pairs in the band combination (in which case <i>simultaneousRxTxInterBandENDC</i> is included) or does not support for any band				
reception for all band pairs in the band combination (in which case <i>simultaneousRxTxInterBandENDC</i> is included) or does not support for any band pair in the band combination. The UE shall consistently set the bits which				
<i>simultaneousRxTxInterBandENDC</i> is included) or does not support for any band pair in the band combination. The UE shall consistently set the bits which correspond to the same band pair.				
simultaneousRxTxInterBandENDC is included) or does not support for any band pair in the band combination.The UE shall consistently set the bits which correspond to the same band pair. Each bit of the capability only applies to TDD-TDD and TDD-FDD Inter-band				
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simultaneousRxTxInterBandENDC is included) or does not support for any band pair in the band combination. The UE shall consistently set the bits which correspond to the same band pair. Each bit of the capability only applies to TDD-TDD and TDD-FDD Inter-band (NG)EN-DC/NE-DC band pairs, except for the band pairs 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]). singleUL-HARQ-offsetTDD-PCell-r16 Indicate support of HARQ offset for single UL transmission in synchronous (NG)EN	BC	No	N/A	N/A
simultaneousRxTxInterBandENDC is included) or does not support for any band pair in the band combination. The UE shall consistently set the bits which correspond to the same band pair. Each bit of the capability only applies to TDD-TDD and TDD-FDD Inter-band (NG)EN-DC/NE-DC band pairs, except for the band pairs 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]). singleUL-HARQ-offsetTDD-PCell-r16	BC	No	N/A	N/A
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simultaneousRxTxInterBandENDC is included) or does not support for any band pair in the band combination.The UE shall consistently set the bits which correspond to the same band pair. Each bit of the capability only applies to TDD-TDD and TDD-FDD Inter-band (NG)EN-DC/NE-DC band pairs, except for the band pairs 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]). singleUL-HARQ-offsetTDD-PCeII-r16 Indicate support of HARQ offset for single UL transmission in synchronous (NG)EN DC with LTE TDD PCeII. UE indicates support of this feature shall indicate support of tdm-restrictionTDD-endc-r16. singleUL-Transmission 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. spCeIIPlacement Indicates whether the UE supports a SpCeII on FR1-FDD, FR1-TDD and/or FR2-	- BC	FD	N/A	N/A
simultaneousRxTxInterBandENDC is included) or does not support for any band pair in the band combination.The UE shall consistently set the bits which correspond to the same band pair. Each bit of the capability only applies to TDD-TDD and TDD-FDD Inter-band (NG)EN-DC/NE-DC band pairs, except for the band pairs 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]). <i>singleUL-HARQ-offsetTDD-PCell-r16</i> Indicate support of HARQ offset for single UL transmission in synchronous (NG)EN DC with LTE TDD PCell. UE indicates support of this feature shall indicate support of <i>tdm-restrictionTDD-endc-r16</i> . <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. <i>spCellPlacement</i> 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	BC BC BC	FD	N/A	N/A
simultaneousRxTxInterBandENDC is included) or does not support for any band pair in the band combination.The UE shall consistently set the bits which correspond to the same band pair. Each bit of the capability only applies to TDD-TDD and TDD-FDD Inter-band (NG)EN-DC/NE-DC band pairs, except for the band pairs 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]). singleUL-HARQ-offsetTDD-PCell-r16 Indicate support of HARQ offset for single UL transmission in synchronous (NG)EN DC with LTE TDD PCell. UE indicates support of this feature shall indicate support of tdm-restrictionTDD-endc-r16. singleUL-Transmission 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. spCellPlacement 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,	BC BC BC	FD	N/A	N/A
simultaneousRxTxInterBandENDC is included) or does not support for any band pair in the band combination.The UE shall consistently set the bits which correspond to the same band pair. Each bit of the capability only applies to TDD-TDD and TDD-FDD Inter-band (NG)EN-DC/NE-DC band pairs, except for the band pairs 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]). singleUL-HARQ-offsetTDD-PCell-r16 Indicate support of HARQ offset for single UL transmission in synchronous (NG)EN DC with LTE TDD PCell. UE indicates support of this feature shall indicate support of <i>tdm-restrictionTDD-endc-r16</i> . singleUL-Transmission 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. spCellPlacement 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	BC BC BC	FD	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	BC	CY	N/A	FR1 only
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.			N 1/A	
<i>tdm-restrictionDualTX-FDD-endc-r16</i> Indicates whether the UE supports TDM restriction to LTE FDD PCell in (NG)EN- DC for dual UL transmission operation when <i>tdm-PatternConfig2-R16</i> is configured,	BC	No	N/A	FR1 only
as specified in TS 36.331 [17]. UE indicates support this feature shall also indicate support of <i>tdm-Pattern</i> .				
tdm-restrictionFDD-endc-r16	BC	No	N/A	FR1
Indicates whether the UE supports TDM restriction to LTE FDD PCell for single UL- transmission associated functionality when <i>tdm-PatternConfig2-R16</i> is configured, as specified in TS 36.331 [17]. This is applicable for FDD (NG)EN-DC. UE indicates support this feature shall also indicate support of <i>tdm-Pattern</i> .				only
tdm-restrictionTDD-endc-r16	BC	No	N/A	FR1
Indicates whether the UE supports TDM restriction to LTE TDD PCell for single UL- transmission associated functionality when <i>tdm-PatternConfig2-R16</i> is configured, as specified in TS 36.331 [17]. This is applicable for synchronous TDD-TDD	20			only
(NG)EN-DC.				
ul-SharingEUTRA-NR	BC	No	N/A	FR1
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].				only
ul-SwitchingTimeEUTRA-NR	BC	CY	N/A	FR1
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				only
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> .				
ul-TimingAlignmentEUTRA-NR	BC	No	N/A	N/A
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].				
This capability applies to: - Intra-band contiguous (NG)EN-DC combination without additional inter-band				
NR and LTE CA component;				
 Intra-band contiguous (NG)EN-DC combination supporting both UL and DL intra-band (NG)EN-DC parts with additional inter-band NR/LTE CA component; 				
 Inter-band (NG)EN-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]).				
If this capability is included in an "Intra-band contiguous (NG)EN-DC combination supporting both UL and DL intra-band (NG)EN-DC parts with additional inter-band				
NR/LTE CA component", this capability applies to the intra-band (NG)EN-DC BC part.				
maxUplinkDutyCycle-interBandENDC-TDD-PC2-r16	BC	No	TDD	FR1
Indicates the maximum percentage of symbols during a certain evaluation period that can be scheduled for NR uplink transmission under different EUTRA TDD uplink-downlink configurations so as to ensure compliance with applicable			only	only
electromagnetic energy absorption requirements provided by regulatory bodies.				
This field is only applicable for inter-band TDD+TDD EN-DC power class 2 UE as specified in TS 38.101-3 [4]. If the field is absent, 30% shall be applied to all EUTRA				
TDD uplink-downlink configurations. If <i>eutra-TDD-Configx</i> is absent, 30% shall be applied to the corresponding EUTRA TDD uplink-downlink configuration.				
Value n20 corresponds to 20%, value n40 corresponds to 40% and so on.				

maxUplinkDutyCycle-interBandENDC-FDD-TDD-PC2-r16	BC	No	N/A	FR1
Indicates the maximum percentage of symbols during a certain evaluation period				only
that can be scheduled for NR uplink transmission and EUTRA FDD uplink				
transmission so as to ensure compliance with applicable electromagnetic energy				
absorption requirements provided by regulatory bodies. This field is only applicable				
for inter-band FDD+TDD EN-DC power class 2 UE as specified in TS 38.101-3 [4].				
This capability signalling comprises of maxUplinkDutyCycle-FDD-TDD-EN-DC1 and				
maxUplinkDutyCycle-FDD-TDD-EN-DC2 which indicate the maxUplinkDutyCycle				
capability of NR band corresponding to different LTE reference configurations as				
described in TS 38.101-3 [4], clause 6.2B.1.3. Value n30 corresponds to 30%, value				
n40 corresponds to 40% and so on.				

4.2.7.10 Phy-Parameters

Definitions for parameters	Per	M	FDD- TDD DIFF	FR1 FR2 DIFF
absoluteTPC-Command Indicates whether the UE supports absolute TPC command mode.	UE	No	No	Yes
aggregationFactorSPS-DL-r16	UE	No	No	Yes
Indicates whether the UE supports configurable PDSCH aggregation factor ({1, 2, 4, 8}) per DL SPS configuration. The UE can include this feature only if the UE indicates supports of <i>downlinkSPS</i> .	UL			103
<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. This capability is not applicable to IAB-MT.	UE	Yes	No	No
 bwp-SwitchingMultiCCs-r16 Indicates whether the UE supports incremental delay for DCI and timer based active BWP switching on multiple CCs simultaneously as specified in TS 38.133 [5]. The capability signalling comprises of the following: type1-r16 indicates the delay value for type 1 BWP switching delay and has values of {100us, 200us} type2-r16 indicates the delay value for type 2 BWP switching delay and has values of {200us, 400us, 800us, 1000us} The UE indicating support of this feature shall also support bwp-SwitchingDelay, bwp-SameNumerology and/or bwp-DiffNumerology. It is mandatory to report either type1-r16 or type2-r16 for a UE which supports CA. 	UE	CY	No	No
bwp-SwitchingMultiDormancyCCs-r16 Indicates whether the UE supports incremental delay for BWP switch processing on	UE	No	No	No
 additional SCells in DCI based simultaneous dormant BWP switching on multiple SCells as specified in TS 38.133 [5]. The capability signalling comprises of the following: type1-r16 indicates the delay value for type 1 BWP switching delay and has values of {100us, 200us} type2-r16 indicates the delay value for type 2 BWP switching delay and has values of {200us, 400us, 800us, 1000us} The UE indicating support of this feature shall also support scellDormancyWithinActiveTime-r16 or scellDormancyOutsideActiveTime-r16. 				
<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
cbg-TransIndication-DL 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
cbg-TransIndication-UL Indicates whether the UE supports both in-order and out-of-order CBG-based (re)transmission for UL using CBG transmission information (CBGTI) as specified in TS 38.214 [12].	UE	No	No	No
 <i>cbg-TransInOrderPUSCH-UL-r16</i> Indicates whether the UE supports CBG-based re-transmission(s) of a TB using CBG transmission information (CBGTI) as specified in TS 38.214 [12] in the following two cases (both are considered as in-order CBG-based retransmission(s)): 1. if the initial PUSCH transmission was not cancelled due to gNB scheduling/indication/configuration; and 2. if the initial PUSCH transmission was cancelled due to gNB scheduling/indication/configuration and the following condition is satisfied: the UE is scheduled for a re-transmission of a CBG #N in a given TB when CBG #N-1 has been transmitted before or is scheduled in the same UL grant that includes CBG#N. 	UE	No	No	No
cli-RSSI-FDM-DL-r16 Indicates whether serving cell DL signal/channel (e.g. PDSCH/PDCCH) and CLI- RSSI FDMed reception is supported as specified in TS 38.215 [13].	UE	No	TDD only	Yes
cli-SRS-RSRP-FDM-DL-r16 Indicates whether serving cell DL signal/channel (e.g. PDSCH/PDCCH) and SRS- RSRP FDMed reception is supported as specified in TS 38.215 [13].	UE	No	TDD only	Yes

codebookVariantsList-r16 Indicates the list of SupportedCSI-RS-Resource applicable to the codebook types	UE	No	No	No
supported by the UE. 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. This applies only to non-shared spectrum channel access. For shared spectrum channel access,	UE	No	No	No
configuredUL-GrantType1-r16 applies.		.		
<i>configuredUL-GrantType2</i> 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. This applies only to non-shared spectrum channel access. For shared spectrum channel access, <i>configuredUL-GrantType2-r16</i> applies.	UE	No	No	No
cqi-TableAlt Indicates whether UE supports the CQI table with target BLER of 10^-5.	UE	No	No	Yes
cri-RI-CQI-WithoutNon-PMI-PortInd-r16	UE	No	No	Yes
Indicates whether UE supports <i>CSI-ReportConfig</i> with the higher layer parameter <i>reportQuantity</i> set to ' <i>cri-RI-CQ</i> ' and the higher layer parameter <i>non-PMI-</i> <i>PortIndication</i> is not configured. UE indicating support of this feature shall also indicate support of <i>csi</i> -	UL		NO	163
ReportFramework.				
crossSlotScheduling-r16 Indicates whether UE supports dynamic indication of applicable minimum scheduling restriction by DCI format 0_1 and 1_1, and the minimum scheduling offset for PDSCH and aperiodic CSI-RS triggering offset (K0), and PUSCH (K2), and the extended value range for aperiodic CSI-RS triggering offset. Support of this feature is reported for licensed and unlicensed bands, respectively. When this field is reported, either of <i>non-SharedSpectrumChAccess-r16</i> or <i>sharedSpectrumChAccess-r16</i> shall be reported, at least.	UE	No	No	No
csi-ReportFramework	UE	Yes	No	N/A
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> .				
csi-ReportFrameworkExt-r16	UE	No	No	N/A
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> .				
<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
csi-ReportWithoutPMI	UE	No	No	Yes
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].				
<i>csi-RS-CFRA-ForHO</i> Indicates whether the UE can perform reconfiguration with sync using a contention free random access with 4-step RA type on PRACH resources that are associated with CSI-RS resources of the target cell. This applies only to non-shared spectrum channel access. For shared spectrum channel access, <i>csi-RS-CFRA-ForHO-r16</i> applies.	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>csi-TriggerStateNon-ActiveBWP-r16</i> Indicates whether the UE supports CSI trigger states containing non-active BWP.	UE	No	No	No
<i>dci-DL-PriorityIndicator-r16</i> Indicates whether the UE supports the priority indicator field configured in DCI formats 1_1 and 1_2 in a BWP when configured to monitor both DCI formats 1_1 and 1_2 in the BWP.	UE	No	No	No
<i>dci-Format1-2And0-2-r16</i> Indicates whether the UE supports monitoring DCI format 1_2 for DL scheduling and monitoring DCI format 0_2 for UL scheduling.	UE	No	No	No

dei III. Drievis de die stev v40		Nia	Na	Na
<i>dci-UL-PriorityIndicator-r16</i> Indicates whether the UE supports the priority indicator field configured in DCI	UE	No	No	No
formats 0_1 and 0_2 in a BWP when configured to monitor both DCI formats 0_1				
and 0_2 in the BWP. A UE supporting this feature shall also support <i>ul-IntraUE-</i>				
Mux-r16 and dci-Format1-2And0-2-r16.				
defaultSpatialRelationPathlossRS-r16	UE	No	No	FR2
Indicates the UE support of default spatial relation and pathloss reference RS for	02		110	only
dedicated PUCCH/SRS and PUSCH. The UE indicating support of this also				0,
indicates the capabilities of supported SRS resources and maximum supported				
spatial relations for the supported FR2 bands using supportedSRS-Resources and				
maxNumberConfiguredSpatialRelations.				
dl-64QAM-MCS-TableAlt	UE	No	No	Yes
Indicates whether the UE supports the alternative 64QAM MCS table for PDSCH.	-		-	
dl-SchedulingOffset-PDSCH-TypeA	UE	Yes	Yes	Yes
Indicates whether the UE supports DL scheduling slot offset (K0) greater than 0 for	-			
PDSCH mapping type A.				
dl-SchedulingOffset-PDSCH-TypeB	UE	Yes	Yes	Yes
Indicates whether the UE supports DL scheduling slot offset (K0) greater than 0 for	-			
PDSCH mapping type B.				
downlinkSPS	UE	No	No	No
Indicates whether the UE supports PDSCH reception based on semi-persistent				
scheduling. One SPS configuration is supported per cell group. This applies only to				
non-shared spectrum channel access. For shared spectrum channel access,				
downlinkSPS-r16 applies.				
dynamicBetaOffsetInd-HARQ-ACK-CSI	UE	No	No	No
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.				
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.				
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].				
dynamicPRB-BundlingDL	UE	No	No	No
Indicates whether UE supports DCI-based indication of the PRG size for PDSCH	-		-	
reception.				
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. This applies only to non-shared spectrum				
channel access. For shared spectrum channel access, dynamicSFI-r16 applies.				
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].				
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].				
enhancedPowerControl-r16	UE	No	No	Yes
For DG-PUSCH, one bit (separately from SRI) in UL grant is used to indicate the P0			-	
value if SRI is present in the UL grant, and 1 or 2 bits is used to indicate the P0				
		No	No	No
value if SRI is not present in the UL grant.	UE			
value if SRI is not present in the UL grant. extendedCG-Periodicities-r16	UE			
value if SRI is not present in the UL grant. <i>extendedCG-Periodicities-r16</i> Indicates that the UE supports extended periodicities for CG Type 1 (if the UE	UE			
value if SRI is not present in the UL grant. extendedCG-Periodicities-r16 Indicates that the UE supports extended periodicities for CG Type 1 (if the UE indicates configuredUL-GrantType1 capability) or CG Type 2 (if the UE indicates	UE			
value if SRI is not present in the UL grant. extendedCG-Periodicities-r16 Indicates that the UE supports extended periodicities for CG Type 1 (if the UE indicates <i>configuredUL-GrantType1</i> capability) or CG Type 2 (if the UE indicates <i>configuredUL-GrantType2</i> capability) as specified by <i>periodicityExt-r16</i> field of IE	UE			
value if SRI is not present in the UL grant. extendedCG-Periodicities-r16 Indicates that the UE supports extended periodicities for CG Type 1 (if the UE indicates configuredUL-GrantType1 capability) or CG Type 2 (if the UE indicates configuredUL-GrantType2 capability) as specified by periodicityExt-r16 field of IE ConfiguredGrantConfig in TS 38.331 [9].			Νο	Νο
value if SRI is not present in the UL grant. extendedCG-Periodicities-r16 Indicates that the UE supports extended periodicities for CG Type 1 (if the UE indicates configuredUL-GrantType1 capability) or CG Type 2 (if the UE indicates configuredUL-GrantType2 capability) as specified by periodicityExt-r16 field of IE ConfiguredGrantConfig in TS 38.331 [9]. extendedSPS-Periodicities-r16	UE	No	No	No
value if SRI is not present in the UL grant. extendedCG-Periodicities-r16 Indicates that the UE supports extended periodicities for CG Type 1 (if the UE indicates <i>configuredUL-GrantType1</i> capability) or CG Type 2 (if the UE indicates <i>configuredUL-GrantType2</i> capability) as specified by <i>periodicityExt-r16</i> field of IE <i>ConfiguredGrantConfig</i> in TS 38.331 [9]. extendedSPS-Periodicities-r16 Indicates that the UE supports extended periodicities for downlink SPS as specified			No	No
value if SRI is not present in the UL grant. extendedCG-Periodicities-r16 Indicates that the UE supports extended periodicities for CG Type 1 (if the UE indicates <i>configuredUL-GrantType1</i> capability) or CG Type 2 (if the UE indicates <i>configuredUL-GrantType2</i> capability) as specified by <i>periodicityExt-r16</i> field of IE <i>ConfiguredGrantConfig</i> in TS 38.331 [9]. extendedSPS-Periodicities-r16 Indicates that the UE supports extended periodicities for downlink SPS as specified by <i>periodicityExt-r16</i> field of IE <i>SPS-Config</i> in TS 38.331 [9].	UE	No		
value if SRI is not present in the UL grant. extendedCG-Periodicities-r16 Indicates that the UE supports extended periodicities for CG Type 1 (if the UE indicates configuredUL-GrantType1 capability) or CG Type 2 (if the UE indicates configuredUL-GrantType2 capability) as specified by periodicityExt-r16 field of IE ConfiguredGrantConfig in TS 38.331 [9]. extendedSPS-Periodicities-r16 Indicates that the UE supports extended periodicities for downlink SPS as specified by periodicityExt-r16 field of IE SPS-Config in TS 38.331 [9]. fdd-PCeIIUL-TX-AIIUL-Subframe-r16			FDD	FR1
value if SRI is not present in the UL grant. extendedCG-Periodicities-r16 Indicates that the UE supports extended periodicities for CG Type 1 (if the UE indicates configuredUL-GrantType1 capability) or CG Type 2 (if the UE indicates configuredUL-GrantType2 capability) as specified by periodicityExt-r16 field of IE ConfiguredGrantConfig in TS 38.331 [9]. extendedSPS-Periodicities-r16 Indicates that the UE supports extended periodicities for downlink SPS as specified by periodicityExt-r16 field of IE SPS-Config in TS 38.331 [9]. fdd-PCeIIUL-TX-AIIUL-Subframe-r16 Indicates whether the UE configured with tdm-patternConfig-r16 can be semi-	UE	No		FR1
value if SRI is not present in the UL grant. extendedCG-Periodicities-r16 Indicates that the UE supports extended periodicities for CG Type 1 (if the UE indicates configuredUL-GrantType1 capability) or CG Type 2 (if the UE indicates configuredUL-GrantType2 capability) as specified by periodicityExt-r16 field of IE ConfiguredGrantConfig in TS 38.331 [9]. extendedSPS-Periodicities-r16 Indicates that the UE supports extended periodicities for downlink SPS as specified by periodicityExt-r16 field of IE SPS-Config in TS 38.331 [9]. fdd-PCeIIUL-TX-AIIUL-Subframe-r16 Indicates whether the UE configured with tdm-patternConfig-r16 can be semi-statically configured with LTE UL transmissions in all UL subframes not limited to	UE	No	FDD	FR1
value if SRI is not present in the UL grant. extendedCG-Periodicities-r16 Indicates that the UE supports extended periodicities for CG Type 1 (if the UE indicates configuredUL-GrantType1 capability) or CG Type 2 (if the UE indicates configuredUL-GrantType2 capability) as specified by periodicityExt-r16 field of IE ConfiguredGrantConfig in TS 38.331 [9]. extendedSPS-Periodicities-r16 Indicates that the UE supports extended periodicities for downlink SPS as specified by periodicityExt-r16 field of IE SPS-Config in TS 38.331 [9]. fdd-PCeIIUL-TX-AIIUL-Subframe-r16 Indicates whether the UE configured with tdm-patternConfig-r16 can be semi- statically configured with LTE UL transmissions in all UL subframes not limited to the reference tdm-pattern (only for type 1 UE) in case of LTE FDD PCeII. UE	UE	No	FDD	FR1
value if SRI is not present in the UL grant. extendedCG-Periodicities-r16 Indicates that the UE supports extended periodicities for CG Type 1 (if the UE indicates configuredUL-GrantType1 capability) or CG Type 2 (if the UE indicates configuredUL-GrantType2 capability) as specified by periodicityExt-r16 field of IE ConfiguredGrantConfig in TS 38.331 [9]. extendedSPS-Periodicities-r16 Indicates that the UE supports extended periodicities for downlink SPS as specified by periodicityExt-r16 field of IE SPS-Config in TS 38.331 [9]. fdd-PCeIIUL-TX-AIIUL-Subframe-r16 Indicates whether the UE configured with tdm-patternConfig-r16 can be semi- statically configured with LTE UL transmissions in all UL subframes not limited to	UE	No	FDD	No FR1 only

haraACK_CP_SpatialPundlingPUCCH_Croup +16				
harqACK-CB-SpatialBundlingPUCCH-Group-r16	UE	No	No	No
Indicates whether the UE supports HARQ-ACK codebook type and HARQ-ACK				
spatial bundling configuration per PUCCH group as specified in TS 38.213 [11]. If				
the UE indicates support of this, it also supports two NR PUCCH groups with same				
numerology by setting twoPUCCH-Group to supported.				
harqACK-separateMultiDCI-MultiTRP-r16	UE	No	No	No
Indicates whether the UE support of separate HARQ-ACK. The capability signalling				
of this feature includes the following:				
5				
- maxNumberLongPUCCHs-r16 indicates maximum number of long PUCCHs				
within a slot for separate HARQ-Ack				
The UE that indicates support of this feature shall support <i>multiDCI-MultiTRP-r16.</i>				
harqACK-jointMultiDCI-MultiTRP-r16	UE	No	No	No
Indicates whether the UE support of joint HARQ-ACK. The UE that indicates				
support of this feature shall support <i>multiDCI-MultiTRP-r16</i> .				
pucch-F0-2WithoutFH	UE	Yes	No	Yes
Indicates whether the UE supports transmission of a PUCCH format 0 or 2 without	0L	103	NO	103
frequency hopping. When included, the UE does not support PUCCH formats 0 and				
2 without frequency hopping. When not included, the UE support POCCH formats of and				
formats 0 and 2 without frequency hopping.		V.	NI -	V
pucch-F1-3-4WithoutFH	UE	Yes	No	Yes
Indicates whether the UE supports transmission of a PUCCH format 1, 3 or 4				
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				
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				
transmissions.				
intraSlotFreqHopping-PUSCH	UE	Yes	No	Yes
Indicates whether the UE supports intra-slot frequency hopping for PUSCH				
transmission, except for PUSCH scheduled by PDCCH in the Type1-PDCCH				
common search space before RRC connection establishment.				
maxLayersMIMO-Adaptation-r16	UE	No	No	Yes
Indicates whether the UE supports the network configuration of maxMIMO-Layers	-			
per DL BWP. If the UE supports this feature, the UE needs to report				
maxLayersMIMO-Indication.				
maxLayersMIMO-Indication	UE	Yes	No	No
Indicates whether the UE supports the network configuration of <i>maxMIMO-Layers</i>	01			
as specified in TS 38.331 [9].				
maxNumberPathlossRS-update-r16	UE	No	No	No
Indicates the maximum number of configured pathloss reference RSs for	UL		NU	INU
PUSCH/PUCCH/SRS by RRC that the UE can support for MAC-CE based pathloss				
PUSCH/PUCCH/SRS by RRC that the UE can support for MAC-CE based pathloss reference RS update.		No	No	Na
PUSCH/PUCCH/SRS by RRC that the UE can support for MAC-CE based pathloss reference RS update. maxNumberSearchSpaces	UE	No	No	No
PUSCH/PUCCH/SRS by RRC that the UE can support for MAC-CE based pathloss reference RS update. maxNumberSearchSpaces Indicates whether the UE supports up to 10 search spaces in an SCell per BWP.				
PUSCH/PUCCH/SRS by RRC that the UE can support for MAC-CE based pathloss reference RS update. <i>maxNumberSearchSpaces</i> Indicates whether the UE supports up to 10 search spaces in an SCell per BWP. <i>maxNumberSRS-PosPathLossEstimateAllServingCells-r16</i>	UE	No No	No	No
PUSCH/PUCCH/SRS by RRC that the UE can support for MAC-CE based pathloss reference RS update. <i>maxNumberSearchSpaces</i> Indicates whether the UE supports up to 10 search spaces in an SCell per BWP. <i>maxNumberSRS-PosPathLossEstimateAllServingCells-r16</i> Indicates the maximum number of pathloss estimates that the UE can				
PUSCH/PUCCH/SRS by RRC that the UE can support for MAC-CE based pathloss reference RS update. <i>maxNumberSearchSpaces</i> Indicates whether the UE supports up to 10 search spaces in an SCell per BWP. <i>maxNumberSRS-PosPathLossEstimateAllServingCells-r16</i> Indicates the maximum number of pathloss estimates that the UE can simultaneously maintain for all the SRS resource sets for positioning across all cells				
PUSCH/PUCCH/SRS by RRC that the UE can support for MAC-CE based pathloss reference RS update. <i>maxNumberSearchSpaces</i> Indicates whether the UE supports up to 10 search spaces in an SCell per BWP. <i>maxNumberSRS-PosPathLossEstimateAllServingCells-r16</i> Indicates the maximum number of pathloss estimates that the UE can simultaneously maintain for all the SRS resource sets for positioning across all cells in addition to the up to four pathloss estimates that the UE maintains per serving				
PUSCH/PUCCH/SRS by RRC that the UE can support for MAC-CE based pathloss reference RS update. <i>maxNumberSearchSpaces</i> Indicates whether the UE supports up to 10 search spaces in an SCell per BWP. <i>maxNumberSRS-PosPathLossEstimateAllServingCells-r16</i> Indicates the maximum number of pathloss estimates that the UE can simultaneously maintain for all the SRS resource sets for positioning across all cells in addition to the up to four pathloss estimates that the UE maintains per serving cell for the PUSCH/PUCCH/SRS transmissions. The UE shall include this field if the				
PUSCH/PUCCH/SRS by RRC that the UE can support for MAC-CE based pathloss reference RS update. maxNumberSearchSpaces Indicates whether the UE supports up to 10 search spaces in an SCell per BWP. maxNumberSRS-PosPathLossEstimateAllServingCells-r16 Indicates the maximum number of pathloss estimates that the UE can simultaneously maintain for all the SRS resource sets for positioning across all cells in addition to the up to four pathloss estimates that the UE maintains per serving cell for the PUSCH/PUCCH/SRS transmissions. The UE shall include this field if the UE supports any of <i>olpc-SRS-PosBasedOnPRS-Serving-r16, olpc-SRS-</i>				
PUSCH/PUCCH/SRS by RRC that the UE can support for MAC-CE based pathloss reference RS update. maxNumberSearchSpaces Indicates whether the UE supports up to 10 search spaces in an SCell per BWP. maxNumberSRS-PosPathLossEstimateAllServingCells-r16 Indicates the maximum number of pathloss estimates that the UE can simultaneously maintain for all the SRS resource sets for positioning across all cells in addition to the up to four pathloss estimates that the UE maintains per serving cell for the PUSCH/PUCCH/SRS transmissions. The UE shall include this field if the UE supports any of <i>olpc-SRS-PosBasedOnPRS-Serving-r16, olpc-SRS-PosBasedOnPRS-Neigh-r16</i> .				
PUSCH/PUCCH/SRS by RRC that the UE can support for MAC-CE based pathloss reference RS update. maxNumberSearchSpaces Indicates whether the UE supports up to 10 search spaces in an SCell per BWP. maxNumberSRS-PosPathLossEstimateAllServingCells-r16 Indicates the maximum number of pathloss estimates that the UE can simultaneously maintain for all the SRS resource sets for positioning across all cells in addition to the up to four pathloss estimates that the UE maintains per serving cell for the PUSCH/PUCCH/SRS transmissions. The UE shall include this field if the UE supports any of <i>olpc-SRS-PosBasedOnPRS-Serving-r16, olpc-SRS-</i>				
PUSCH/PUCCH/SRS by RRC that the UE can support for MAC-CE based pathloss reference RS update. maxNumberSearchSpaces Indicates whether the UE supports up to 10 search spaces in an SCell per BWP. maxNumberSRS-PosPathLossEstimateAllServingCells-r16 Indicates the maximum number of pathloss estimates that the UE can simultaneously maintain for all the SRS resource sets for positioning across all cells in addition to the up to four pathloss estimates that the UE maintains per serving cell for the PUSCH/PUCCH/SRS transmissions. The UE shall include this field if the UE supports any of <i>olpc-SRS-PosBasedOnPRS-Serving-r16, olpc-SRS-PosBasedOnPRS-Neigh-r16</i> .				
PUSCH/PUCCH/SRS by RRC that the UE can support for MAC-CE based pathloss reference RS update. maxNumberSearchSpaces Indicates whether the UE supports up to 10 search spaces in an SCell per BWP. maxNumberSRS-PosPathLossEstimateAllServingCells-r16 Indicates the maximum number of pathloss estimates that the UE can simultaneously maintain for all the SRS resource sets for positioning across all cells in addition to the up to four pathloss estimates that the UE maintains per serving cell for the PUSCH/PUCCH/SRS transmissions. The UE shall include this field if the UE supports any of olpc-SRS-PosBasedOnPRS-Serving-r16, olpc-SRS-PosBasedOnPRS-Neigh-r16. Otherwise, the UE does not include this field;	UE	No	No	No FR2
PUSCH/PUCCH/SRS by RRC that the UE can support for MAC-CE based pathloss reference RS update. maxNumberSearchSpaces Indicates whether the UE supports up to 10 search spaces in an SCell per BWP. maxNumberSRS-PosPathLossEstimateAllServingCells-r16 Indicates the maximum number of pathloss estimates that the UE can simultaneously maintain for all the SRS resource sets for positioning across all cells in addition to the up to four pathloss estimates that the UE maintains per serving cell for the PUSCH/PUCCH/SRS transmissions. The UE shall include this field if the UE supports any of olpc-SRS-PosBasedOnPRS-Serving-r16, olpc-SRS-PosBasedOnPRS-Neigh-r16. Otherwise, the UE does not include this field; maxNumberSRS-PosSpatialRelationsAllServingCells-r16 Indicates the maximum number of maintained spatial relations for all the SRS	UE	No	No	No
PUSCH/PUCCH/SRS by RRC that the UE can support for MAC-CE based pathloss reference RS update. maxNumberSearchSpaces Indicates whether the UE supports up to 10 search spaces in an SCell per BWP. maxNumberSRS-PosPathLossEstimateAllServingCells-r16 Indicates the maximum number of pathloss estimates that the UE can simultaneously maintain for all the SRS resource sets for positioning across all cells in addition to the up to four pathloss estimates that the UE maintains per serving cell for the PUSCH/PUCCH/SRS transmissions. The UE shall include this field if the UE supports any of olpc-SRS-PosBasedOnPRS-Serving-r16, olpc-SRS-PosBasedOnPRS-Neigh-r16. Otherwise, the UE does not include this field; maxNumberSRS-PosSpatialRelationsAllServingCells-r16 Indicates the maximum number of maintained spatial relations for all the SRS resource sets for positioning across all serving cells in addition to the spatial	UE	No	No	No FR2
PUSCH/PUCCH/SRS by RRC that the UE can support for MAC-CE based pathloss reference RS update. maxNumberSearchSpaces Indicates whether the UE supports up to 10 search spaces in an SCell per BWP. maxNumberSRS-PosPathLossEstimateAllServingCells-r16 Indicates the maximum number of pathloss estimates that the UE can simultaneously maintain for all the SRS resource sets for positioning across all cells in addition to the up to four pathloss estimates that the UE maintains per serving cell for the PUSCH/PUCCH/SRS transmissions. The UE shall include this field if the UE supports any of <i>olpc-SRS-PosBasedOnPRS-Serving-r16, olpc-SRS-PosBasedOnPRS-Neigh-r16.</i> Otherwise, the UE does not include this field; maxNumberSRS-PosSpatialRelationsAllServingCells-r16 Indicates the maximum number of maintained spatial relations for all the SRS resource sets for positioning across all serving cells in addition to the spatial relations maintained spatial relations per serving cell for the PUSCH/PUCCH/SRS	UE	No	No	No FR2
PUSCH/PUCCH/SRS by RRC that the UE can support for MAC-CE based pathloss reference RS update. maxNumberSearchSpaces Indicates whether the UE supports up to 10 search spaces in an SCell per BWP. maxNumberSRS-PosPathLossEstimateAllServingCells-r16 Indicates the maximum number of pathloss estimates that the UE can simultaneously maintain for all the SRS resource sets for positioning across all cells in addition to the up to four pathloss estimates that the UE maintains per serving cell for the PUSCH/PUCCH/SRS transmissions. The UE shall include this field if the UE supports any of <i>olpc-SRS-PosBasedOnPRS-Serving-r16, olpc-SRS-PosBasedOnPRS-Neigh-r16.</i> Otherwise, the UE does not include this field; maxNumberSRS-PosSpatialRelationsAllServingCells-r16 Indicates the maximum number of maintained spatial relations for all the SRS resource sets for positioning across all serving cells in addition to the spatial relations per serving cells in addition to the spatial relations per serving cells in addition to the spatial relations. It is only applied for FR2. The UE can include this field only if the UE	UE	No	No	No FR2
PUSCH/PUCCH/SRS by RRC that the UE can support for MAC-CE based pathloss reference RS update. maxNumberSearchSpaces Indicates whether the UE supports up to 10 search spaces in an SCell per BWP. maxNumberSRS-PosPathLossEstimateAllServingCells-r16 Indicates the maximum number of pathloss estimates that the UE can simultaneously maintain for all the SRS resource sets for positioning across all cells in addition to the up to four pathloss estimates that the UE maintains per serving cell for the PUSCH/PUCCH/SRS transmissions. The UE shall include this field if the UE supports any of olpc-SRS-PosBasedOnPRS-Serving-r16, olpc-SRS-PosBasedOnSB-Neigh-r16 and olpc-SRS-PosBasedOnPRS-Neigh-r16. Otherwise, the UE does not include this field; maxNumberSRS-PosSpatialRelationsAllServingCells-r16 Indicates the maximum number of maintained spatial relations for all the SRS resource sets for positioning across all serving cells in addition to the spatial relations maintained spatial relations per serving cell for the PUSCH/PUCCH/SRS transmissions. It is only applied for FR2. The UE can include this field only if the UE supports any of spatialRelation-SRS-PosBasedOnSB-Serving-r16,	UE	No	No	No FR2
PUSCH/PUCCH/SRS by RRC that the UE can support for MAC-CE based pathloss reference RS update. maxNumberSearchSpaces Indicates whether the UE supports up to 10 search spaces in an SCell per BWP. maxNumberSRS-PosPathLossEstimateAllServingCells-r16 Indicates the maximum number of pathloss estimates that the UE can simultaneously maintain for all the SRS resource sets for positioning across all cells in addition to the up to four pathloss estimates that the UE maintains per serving cell for the PUSCH/PUCCH/SRS transmissions. The UE shall include this field if the UE supports any of olpc-SRS-PosBasedOnPRS-Serving-r16, olpc-SRS-PosBasedOnSB-Neigh-r16 and olpc-SRS-PosBasedOnPRS-Neigh-r16. Otherwise, the UE does not include this field; maxNumberSRS-PosSpatialRelationsAllServingCells-r16 Indicates the maximum number of maintained spatial relations for all the SRS resource sets for positioning across all serving cells in addition to the spatial relations per serving cells in addition to the spatial relations maintained spatial relations per serving cell for the PUSCH/PUCCH/SRS transmissions. It is only applied for FR2. The UE can include this field only if the UE supports any of spatialRelation-SRS-PosBasedOnSB-Serving-r16, spatialRelation-SRS-PosBasedOnSSB-Serving-r16, spatialRelation-SRS-PosBasedOnSSB-Serving-r16, spatialRelation-SRS-PosBasedOnSB-Serving-r16, spatialRelation-SRS-PosBasedOnSB-Serving-r16, spatialRelation-SRS-PosBasedOnSB-Serving-r16, spatialRelation-SRS-PosBasedOnSB-Serving-r16, spatialRelation-SRS-PosBasedOnSB-Serving-r16, spatialRelation-SRS-PosBasedOnSB-Serving-r16, spatialRelation-SRS-PosBasedOnSB-Serving-r16, spatialRelation-SRS-PosBasedOnSB-Serving-r16, spatialRelation-SRS-PosBasedOnSB-Serving-r16, spatialRelation-SRS-PosBasedOnSB-Se	UE	No	No	No FR2
PUSCH/PUCCH/SRS by RRC that the UE can support for MAC-CE based pathloss reference RS update. maxNumberSearchSpaces Indicates whether the UE supports up to 10 search spaces in an SCell per BWP. maxNumberSRS-PosPathLossEstimateAllServingCells-r16 Indicates the maximum number of pathloss estimates that the UE can simultaneously maintain for all the SRS resource sets for positioning across all cells in addition to the up to four pathloss estimates that the UE maintains per serving cell for the PUSCH/PUCCH/SRS transmissions. The UE shall include this field if the UE supports any of olpc-SRS-PosBasedOnPRS-Serving-r16, olpc-SRS-PosBasedOnSB-Neigh-r16 and olpc-SRS-PosBasedOnPRS-Neigh-r16. Otherwise, the UE does not include this field; maxNumberSRS-PosSpatialRelationsAllServingCells-r16 Indicates the maximum number of maintained spatial relations for all the SRS resource sets for positioning across all serving cells in addition to the spatial relations maintained spatial relations per serving cell for the PUSCH/PUCCH/SRS transmissions. It is only applied for FR2. The UE can include this field only if the UE supports any of spatialRelation-SRS-PosBasedOnSB-Serving-r16, spatialRelation-SRS-PosBasedOnSB-Serving-r16, spatialRelation-SRS-PosBasedOnSB-Neigh-r16 or	UE	No	No	No FR2
PUSCH/PUCCH/SRS by RRC that the UE can support for MAC-CE based pathloss reference RS update. maxNumberSearchSpaces Indicates whether the UE supports up to 10 search spaces in an SCell per BWP. maxNumberSRS-PosPathLossEstimateAllServingCells-r16 Indicates the maximum number of pathloss estimates that the UE can simultaneously maintain for all the SRS resource sets for positioning across all cells in addition to the up to four pathloss estimates that the UE maintains per serving cell for the PUSCH/PUCCH/SRS transmissions. The UE shall include this field if the UE supports any of olpc-SRS-PosBasedOnPRS-Serving-r16, olpc-SRS-PosBasedOnSB-Neigh-r16 and olpc-SRS-PosBasedOnPRS-Neigh-r16. Otherwise, the UE does not include this field; maxNumberSRS-PosSpatialRelationsAllServingCells-r16 Indicates the maximum number of maintained spatial relations for all the SRS resource sets for positioning across all serving cells in addition to the spatial relations maintained spatial relations per serving cell for the PUSCH/PUCCH/SRS transmissions. It is only applied for FR2. The UE can include this field only if the UE supports any of spatialRelation-SRS-PosBasedOnSB-Serving-r16,	UE	No	No	No FR2

<i>maxTotalResourcesForAcrossFreqRanges-r16</i> Indicates the maximum total number of SSB/CSI-RS/CSI-IM resources for beam management, pathloss measurement, BFD, RLM and new beam identification across frequency ranges (both FR1 and FR2) that the UE supports. The capability signalling includes the following:	UE	No	No	No
 maxNumberResWithinSlotAcrossCC-AcrossFR-r16 indicates maximum total number of SSB/CSI-RS/CSI-IM resources configured to measure within a slot across all CCs across all frequency ranges for any of L1-RSRP measurement, L1-SINR measurement, pathloss measurement, BFD, RLM and new beam identification. maxNumberResAcrossCC-AcrossFR-r16 indicates maximum total number of SSB/CSI-RS/CSI-IM resources configured across all CCs across all frequency ranges for any of L1-RSRP measurement, pathloss measurement, BFD, RLM and new beam identification. 				
gNB takes into conjunction of this feature and the features maxTotalResourcesForOneFreqRange-r16, beamManagementSSB-CSI-RS, maxNumberCSI-RS-BFD, maxNumberSSB-BFD and maxNumberCSI-RS-SSB- CBD when configuring SSB/CSI-RS/CSI-IM resources for beam management, pathloss measurement, BFD, RLM and new beam identification across frequency ranges. The signalled values apply to the shortest slot duration defined in any FR(s) that are supported by the UE.				
 NOTE 1: The "configured to measure" RS is counted within the duration of a reference slot in which the corresponding reference signals are transmitted. NOTE 2: Regarding the "configured to measure" RS counting 				
 (basic usage 1): If one resource is used for one or multiple of BFD/RLM, it is counted as one. (basic usage 2): If one resource is used for one or multiple of New Beam Identification/PL-RS/L1-RSRP, add 1. L1-RSRP measurement includes cases associated with reports 				
 with reportQuantity set to 'ssb-Index-RSRP, 'cri-RSRP or with reportQuantity set to 'none' and CSI-RS-ResourceSet with higher layer parameter trs-Info is not configured. If one resource is used for L1-SINR in addition to basic usage 1 & 2, add N if referred N times by one or more CSI Reporting settings with 				

Indicates the maximum total number of SSB/CSI-RS/CSI-IM resources for beam	UE	No	No	Yes
management, pathloss measurement, BFD, RLM and new beam identification for				
one frequency range that the UE supports.				
The capability signalling includes the following:				
- maxNumberResWithinSlotAcrossCC-OneFR-r16 indicates maximum total				
number of SSB/CSI-RS/CSI-IM resources configured to measure within a				
slot across all CCs in one frequency range for any of L1-RSRP				
measurement, L1-SINR measurement, pathloss measurement, BFD, RLM				
and new beam identification				
- maxNumberResAcrossCC-OneFR-r16 indicates maximum total number of				
SSB/CSI-RS/CSI-IM resources configured across all CCs in one frequency				
range for any of L1-RSRP measurement, L1-SINR measurement, pathloss				
measurement, BFD, RLM and new beam identification.				
gNB takes into conjunction of this feature and the features beamManagementSSB-				
CSI-RS, maxNumberCSI-RS-BFD, maxNumberSSB-BFD and maxNumberCSI-RS-				
SSB-CBD when configuring SSB/CSI-RS/CSI-IM resources for beam management,				
pathloss measurement, BFD, RLM and new beam identification across one				
frequency range.				
NOTE 1: The reference slot duration is the shortest slot duration defined for the				
reported FR supported by the UE. NOTE 2: For RS configured for new beam identification, they are always counted				
regardless of beam failure event.				
NOTE 3: The maxNumberResWithinSlotAcrossCC-AcrossFR-r16 only counts				
those in active BWP but the maxNumberResAcrossCC-AcrossFR-r16				
counts all configured including both active and inactive BWP.				
NOTE 4: The "configured to measure" RS is counted within the duration of a				
reference slot in which the corresponding reference signals are				
transmitted. NOTE 5: Regarding the "configured to measure" RS counting				
- (basic usage 1): If one resource is used for one or multiple of				
BFD/RLM, it is counted as one.				
- (basic usage 2): If one resource is used for one or multiple of New				
Beam Identification/PL-RS/L1-RSRP, add 1.				
- L1-RSRP measurement includes cases associated with reports				
with reportQuantity set to 'ssb-Index-RSRP, 'cri-RSRP or with				
reportQuantity set to 'none' and CSI-RS-ResourceSet with higher				
layer parameter trs-Info is not configured.				
 If one resource is used for L1-SINR in addition to basic usage 1 & 2, 				
add N if referred N times by one or more CSI Reporting settings with				
reportQuantity-r16 = 'ssb-Index-SINR-r16' or 'cri-SINR-r16'.		Na	Na	NIa
reportQuantity-r16 = 'ssb-Index-SINR-r16' or 'cri-SINR-r16'. monitoringDCI-SameSearchSpace-r16	UE	No	No	No
reportQuantity-r16 = 'ssb-Index-SINR-r16' or 'cri-SINR-r16'. monitoringDCI-SameSearchSpace-r16 Indicates whether the UE supports monitoring both DCI format 0_1/1_1 and DCI	UE	No	No	No
reportQuantity-r16 = 'ssb-Index-SINR-r16' or 'cri-SINR-r16'. monitoringDCI-SameSearchSpace-r16 Indicates whether the UE supports monitoring both DCI format 0_1/1_1 and DCI format 0_2/1_2 in the same search space. If the UE supports this feature, the UE	UE	No	No	No
reportQuantity-r16 = 'ssb-Index-SINR-r16' or 'cri-SINR-r16'. monitoringDCI-SameSearchSpace-r16 Indicates whether the UE supports monitoring both DCI format 0_1/1_1 and DCI format 0_2/1_2 in the same search space. If the UE supports this feature, the UE needs to report dci-Format1-2And0-2-r16. multipleCORESET	UE	No	No	
reportQuantity-r16 = 'ssb-Index-SINR-r16' or 'cri-SINR-r16'. monitoringDCI-SameSearchSpace-r16 Indicates whether the UE supports monitoring both DCI format 0_1/1_1 and DCI format 0_2/1_2 in the same search space. If the UE supports this feature, the UE needs to report dci-Format1-2And0-2-r16. multipleCORESET Indicates whether the UE supports configuration of up to two PDCCH CORESETs				
reportQuantity-r16 = 'ssb-Index-SINR-r16' or 'cri-SINR-r16'. monitoringDCI-SameSearchSpace-r16 Indicates whether the UE supports monitoring both DCI format 0_1/1_1 and DCI format 0_2/1_2 in the same search space. If the UE supports this feature, the UE needs to report dci-Format1-2And0-2-r16. multipleCORESET Indicates whether the UE supports configuration of up to two PDCCH CORESETs per BWP in addition to the CORESET with CORESET-ID 0 in the BWP. If this is not				
reportQuantity-r16 = 'ssb-Index-SINR-r16' or 'cri-SINR-r16'. monitoringDCI-SameSearchSpace-r16 Indicates whether the UE supports monitoring both DCI format 0_1/1_1 and DCI format 0_2/1_2 in the same search space. If the UE supports this feature, the UE needs to report dci-Format1-2And0-2-r16. multipleCORESET Indicates whether the UE supports configuration of up to two PDCCH CORESETs 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				No Yes
reportQuantity-r16 = 'ssb-Index-SINR-r16' or 'cri-SINR-r16'. monitoringDCI-SameSearchSpace-r16 Indicates whether the UE supports monitoring both DCI format 0_1/1_1 and DCI format 0_2/1_2 in the same search space. If the UE supports this feature, the UE needs to report dci-Format1-2And0-2-r16. multipleCORESET Indicates whether the UE supports configuration of up to two PDCCH CORESETs 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				
reportQuantity-r16 = 'ssb-Index-SINR-r16' or 'cri-SINR-r16'. monitoringDCI-SameSearchSpace-r16 Indicates whether the UE supports monitoring both DCI format 0_1/1_1 and DCI format 0_2/1_2 in the same search space. If the UE supports this feature, the UE needs to report dci-Format1-2And0-2-r16. multipleCORESET Indicates whether the UE supports configuration of up to two PDCCH CORESETs 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.	UE	CY	No	Yes
reportQuantity-r16 = 'ssb-Index-SINR-r16' or 'cri-SINR-r16'. monitoringDCI-SameSearchSpace-r16 Indicates whether the UE supports monitoring both DCI format 0_1/1_1 and DCI format 0_2/1_2 in the same search space. If the UE supports this feature, the UE needs to report dci-Format1-2And0-2-r16. multipleCORESET Indicates whether the UE supports configuration of up to two PDCCH CORESETs 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				Yes
reportQuantity-r16 = 'ssb-Index-SINR-r16' or 'cri-SINR-r16'. monitoringDCI-SameSearchSpace-r16 Indicates whether the UE supports monitoring both DCI format 0_1/1_1 and DCI format 0_2/1_2 in the same search space. If the UE supports this feature, the UE needs to report dci-Format1-2And0-2-r16. multipleCORESET Indicates whether the UE supports configuration of up to two PDCCH CORESETs 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 Indicates whether the UE supports HARQ-ACK piggyback on a PUSCH with/without	UE	CY	No	Yes
reportQuantity-r16 = 'ssb-Index-SINR-r16' or 'cri-SINR-r16'. monitoringDCI-SameSearchSpace-r16 Indicates whether the UE supports monitoring both DCI format 0_1/1_1 and DCI format 0_2/1_2 in the same search space. If the UE supports this feature, the UE needs to report dci-Format1-2And0-2-r16. multipleCORESET Indicates whether the UE supports configuration of up to two PDCCH CORESETs 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 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	UE	CY	No	Yes
reportQuantity-r16 = 'ssb-Index-SINR-r16' or 'cri-SINR-r16'. monitoringDCI-SameSearchSpace-r16 Indicates whether the UE supports monitoring both DCI format 0_1/1_1 and DCI format 0_2/1_2 in the same search space. If the UE supports this feature, the UE meeds to report dci-Format1-2And0-2-r16. multipleCORESET Indicates whether the UE supports configuration of up to two PDCCH CORESETs 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 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	UE	CY	No	Yes
reportQuantity-r16 = 'ssb-Index-SINR-r16' or 'cri-SINR-r16'. monitoringDCI-SameSearchSpace-r16 Indicates whether the UE supports monitoring both DCI format 0_1/1_1 and DCI format 0_2/1_2 in the same search space. If the UE supports this feature, the UE heeds to report dci-Format1-2And0-2-r16. multipleCORESET Indicates whether the UE supports configuration of up to two PDCCH CORESETs ber 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 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. This applies only to non-shared spectrum channel	UE	CY	No	Yes
reportQuantity-r16 = 'ssb-Index-SINR-r16' or 'cri-SINR-r16'. monitoringDCI-SameSearchSpace-r16 Indicates whether the UE supports monitoring both DCI format 0_1/1_1 and DCI format 0_2/1_2 in the same search space. If the UE supports this feature, the UE heeds to report <i>dci-Format1-2And0-2-r16</i> . multipleCORESET Indicates whether the UE supports configuration of up to two PDCCH CORESETs ber 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 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. This applies only to non-shared spectrum channel access. For shared spectrum channel access, mux-HARQ-ACK-PUSCH- DiffSymbol-r16 applies.	UE	CY	No	Yes
reportQuantity-r16 = 'ssb-Index-SINR-r16' or 'cri-SINR-r16'. monitoringDCI-SameSearchSpace-r16 Indicates whether the UE supports monitoring both DCI format 0_1/1_1 and DCI format 0_2/1_2 in the same search space. If the UE supports this feature, the UE needs to report dci-Format1-2And0-2-r16. multipleCORESET Indicates whether the UE supports configuration of up to two PDCCH CORESETs per BWP in addition to the CORESET with CORESET-ID 0 in the BWP. If this is not	UE	CY	No	

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-				
ACK and CSI are supposed to be sent with the same or different starting symbol in				
a slot. This applies only to non-shared spectrum channel access. For shared				
spectrum channel access, mux-SR-HARQ-ACK-CSI-PUCCH-MultiPerSlot-r16				
applies.			Na	Vaa
mux-SR-HARQ-ACK-CSI-PUCCH-OncePerSlot	UE	FD	No	Yes
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 sameSymbol in this field and does not support mux-HARQ-ACK-				
PUSCH-DiffSymbol, 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.				
If the UE indicates sameSymbol in this field and supports mux-HARQ-ACK-PUSCH-				
DiffSymbol, 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. This applies only to non-shared spectrum channel access. For				
shared spectrum channel access, <i>mux-SR-HARQ-ACK-CSI-PUCCH-OncePerSlot-</i>				
r16 applies.				
mux-SR-HARQ-ACK-PUCCH	UE	No	No	Yes
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. This applies only to				
non-shared spectrum channel access. For shared spectrum channel access, <i>mux</i> -				
SR-HARQ-ACK-PUCCH-r16 applies.				
newBeamIdentifications2PortCSI-RS-r16	UE	No	No	No
Indicates whether the UE supports 2 port CSI-RS for new beam identification with				
the same resource counting as in maxTotalResourcesForOneFreqRange-r16 and				
maxTotalResourcesForAcrossFreqRanges-r16.				
nzp-CSI-RS-IntefMgmt	UE	No	No	No
Indicates whether the UE supports interference measurements using NZP CSI-RS.				
oneFL-DMRS-ThreeAdditionalDMRS-UL	UE	No	No	Yes
Defines whether the UE supports DM-RS pattern for UL transmission with 1 symbol				
front-loaded DM-RS with three additional DM-RS symbols.				
oneFL-DMRS-TwoAdditionalDMRS-UL	UE	Yes	No	Yes
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.		-		
onePortsPTRS	UE	CY	No	Yes
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	No	No	Yes
onePUCCH-LongAndShortFormat Indicates whether the UE supports transmission of one long PUCCH format and	UE	No	INO	res
one short PUCCH format in TDM in the same slot.				
pathlossEstimation2PortCSI-RS-r16	UE	No	No	No
Indicates whether the UE supports 2 port CSI-RS for pathloss estimation with the			INU	
same resource counting as in maxTotalResourcesForOneFreqRange-r16 and				
maxTotalResourcesForAcrossFreqRanges-r16.				
	UE	Yes	No	FR2
		100	NU	only
pCell-FR2				
<i>pCell-FR2</i> Indicates whether the UE supports PCell operation on FR2.		No	No	FR1
pCell-FR2 Indicates whether the UE supports PCell operation on FR2. pdcch-MonitoringSingleOccasion	UE	No	No	FR1
pCell-FR2 Indicates whether the UE supports PCell operation on FR2. pdcch-MonitoringSingleOccasion Indicates whether the UE supports receiving PDCCH in a search space configured	UE	No	No	FR1 only
<i>pCell-FR2</i> Indicates whether the UE supports PCell operation on FR2. <i>pdcch-MonitoringSingleOccasion</i> 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	UE	No	No	1

pdcch-BlindDetectionCA	UE	No	No	No
Indicates PDCCH blind decoding capabilities supported by the UE for CA with more	UL		INU	
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				
capability signalling is supported for FR1-FR2 differentiation.				
pdcch-BlindDetectionMCG-UE	UE	No	No	Yes
Indicates PDCCH blind decoding capabilities supported for MCG when in NR DC.			INO	103
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.				
pdcch-BlindDetectionSCG-UE	UE	No	No	Yes
Indicates PDCCH blind decoding capabilities supported for SCG when in NR DC.			INO	103
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 <= <i>pdcch-BlindDetectionMCG-UE</i> and X2 <=				
pdcch-BlindDetectionSCG-UE.				
pdcch-MonitoringAnyOccasionsWithSpanGapCrossCarrierSch-r16	UE	No	No	No
Indicates how the UE supports pdcch-MonitoringAnyOccasionsWithSpanGap in			110	
case of cross-carrier scheduling with different SCSs in the scheduling cell and the				
scheduled cell.				
Value 'mode2' indicates pdcch-MonitoringAnyOccasionsWithSpanGap is supported				
for the band of the scheduling/triggering/indicating cell.				
Value 'mode3' indicates pdcch-MonitoringAnyOccasionsWithSpanGap is supported				
in both the band of the scheduled/triggered/indicated cell and the band of the				
scheduling/triggering/indicating cell.				
UE indicating support of these feature indicates support of pdcch-				
MonitoringAnyOccasionsWithSpanGap and crossCarrierSchedulingDL-DiffSCS-r16.				
NOTE: For pdcch-MonitoringAnyOccasionsWithSpanGap, the supported set				
(set1, set2 or set 3) for cross-carrier scheduling with the different SCSs in				
the scheduling cell and the scheduled cell is still based on the indicated				
value for the band of the scheduling cell.				
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				
			No	No
pdsch-RepetitionMultiSlots	UE	No	No	No
pdsch-RepetitionMultiSlots Indicates whether the UE supports receiving PDSCH scheduled by DCI format 1_1	UE	No	INO	INO
<i>pdsch-RepetitionMultiSlots</i> 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	UE	No	INO	
<i>pdsch-RepetitionMultiSlots</i> 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	UE	No	NO	
B. pdsch-RepetitionMultiSlots Indicates whether the UE supports receiving PDSCH scheduled by DCI format 1_1 when configured with higher layer parameter pdsch-AggregationFactor > 1, as defined in 5.1.2.1 of TS 38.214 [12]. This applies only to non-shared spectrum channel access. For shared spectrum channel access, pdsch-RepetitionMultiSlots-	UE	No	NO	

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-				
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.				
Value n6 means 6 RE mapping patterns and n16 means 16 RE mapping patterns,				
and so on. The UE shall set the fields pdsch-RE-MappingFR2-PerSymbol and				
pdsch-RE-MappingFR2-PerSlot 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.				
precoderGranularityCORESET	UE	No	No	No
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].				
pre-EmptIndication-DL	UE	No	No	No
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]. This				
applies only to non-shared spectrum channel access. For shared spectrum channel				
access, pre-EmptIndication-DL-r16 applies.				
pucch-F2-WithFH	UE	Yes	No	Yes
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				
supported.				
pucch-F3-WithFH	UE	Yes	No	Yes
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				
supported.				
pucch-F3-4-HalfPi-BPSK	UE	CY	No	Yes
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. This capability is not applicable to IAB-MT.				
pucch-F4-WithFH	UE	Yes	No	Yes
Indicates whether the UE supports transmission of a PUCCH format 4 (4~14 OFDM				
symbols in total) with frequency hopping in a slot.				
pusch-RepetitionMultiSlots	UE	Yes	No	No
Indicates whether the UE supports transmitting PUSCH scheduled by DCI format				
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]. This applies only to non-shared				
spectrum channel access. For shared spectrum channel access, <i>pusch</i> -				
RepetitionMultiSlots-r16 applies.				
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				
multiple slots with the repetition factor 2, 4 or 8. This applies only to non-shared				
spectrum channel access. For shared spectrum channel access, <i>pucch-Repetition-</i>				
<i>F1-3-4-r16</i> applies.				
pusch-HalfPi-BPSK	UE	CY	No	Yes
Indicates whether the UE supports pi/2-BPSK modulation scheme for PUSCH as			140	103
defined in 6.3.1.2 of TS 38.211 [6]. It is optional for FR1 and mandatory with				
capability signalling for FR2. This capability is not applicable to IAB-MT.				
pusch-LBRM	UE	No	No	Yes
Indicates whether the UE supports limited buffer rate matching in UL as specified in			NU	162
TS 38.212 [10].		NIC	NI	NI -
pusch-RepetitionTypeA-r16	UE	No	No	No
Indicates whether the UE supports PUSCH transmission with or without slot				
aggregation. Support of this field is reported for shared spectrum channel access				
and non-shared spectrum channel access, respectively.				

ra-Type0-PUSCH	UE	No	No	No
Indicates whether the UE supports resource allocation Type 0 for PUSCH as specified in TS 38.214 [12].				
rateMatchingCtrlResrcSetDynamic Indicates whether the UE supports dynamic rate matching for DL control resource set.	UE	Yes	No	No
rateMatchingResrcSetDynamic Indicates whether the UE supports receiving PDSCH with resource mapping that 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].	UE	No	No	No
rateMatchingResrcSetSemi-Static ndicates whether the UE supports receiving PDSCH with resource mapping that 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 <i>RateMatchPattern</i> in TS 38.331[9]) following the semi-static configuration as specified in TS 38.214 [12].	UE	Yes	No	No
scs-60kHz Indicates whether the UE supports 60kHz subcarrier spacing for data channel in FR1 as defined in clause 4.2-1 of TS 38.211 [6].	UE	No	No	FR1 only
semiOpenLoopCSI 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].	UE	No	No	Yes
semiStaticHARQ-ACK-Codebook Indicates whether the UE supports HARQ-ACK codebook constructed by semi- static configuration.	UE	Yes	No	No
<i>simultaneousTCI-ActMultipleCC-r16</i> Indicates the UE support of simultaneous TCI state activation across multiple CCs. If the UE indicates support of this for a FR, the UE shall support this on the supported bands of the indicated FR where the UE reports the support of TCI-states for PDSCH using <i>tci-StatePDSCH</i> .	UE	No	No	Yes
simultaneousSpatialRelationMultipleCC-r16 Indicates the UE support of simultaneous spatial relation across multiple CCs for aperiodic and semi-persistent SRS. The UE indicating support of this also indicates the capabilities of maximum and active supported spatial relations for the supported FR2 bands using maxNumberConfiguredSpatialRelations and maxNumberActiveSpatialRelations.	UE	No	No	FR2 only
spatialBundlingHARQ-ACK 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.	UE	Yes	No	No
spatialRelationUpdateAP-SRS-r16 Indicates the UE support of spatial relation update for AP-SRS using MAC CE. The UE indicating support of this also indicates the capabilities of supported SRS resources and maximum supported spatial relations for the supported FR2 bands using supportedSRS-Resources and maxNumberConfiguredSpatialRelations.	UE	No	No	FR2 only
spCellPlacement 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 NR SA and NR-DC (both MCG and SCG), 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	No	No
sp-CSI-IM Indicates whether the UE supports semi-persistent CSI-IM.	UE	No	No	Yes
sp-CSI-ReportPUCCH indicates whether UE supports semi-persistent CSI reporting using PUCCH formats 2, 3 and 4. This applies only to non-shared spectrum channel access. For shared spectrum channel access, <i>sp-CSI-ReportPUCCH-r16</i> applies.	UE	No	No	No
sp-CSI-ReportPUSCH Indicates whether UE supports semi-persistent CSI reporting using PUSCH. This applies only to non-shared spectrum channel access. For shared spectrum channel access, sp-CSI-ReportPUSCH-r16 applies.	UE	No	No	No
sp-CSI-RS Indicates whether the UE supports semi-persistent CSI-RS.	UE	Yes	No	Yes

sps-ReleaseDCI-1-1-r16	UE	No	No	No
Indicates whether the UE supports SPS release by DCI format 1_1. If the UE				
supports this feature, the UE needs to report <i>downlinkSPS</i> . sps-ReleaseDCI-1-2-r16	UE	No	No	No
Indicates whether the UE supports SPS release by DCI format 1_2. If the UE		INO	INU	
supports this feature, the UE needs to report <i>downlinkSPS</i> and <i>dci-Format1-2And0-</i>				
supportedDMRS-TypeDL	UE	FD	No	Yes
Defines supported DM-RS configuration types at the UE for DL reception. Type 1 is			INO	103
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.				103
Support of both type 1 and type 2 is mandatory with capability signalling. If this field				
is not included, Type 1 is supported.				
supportRepetitionZeroOffsetRV-r16	UE	No	No	No
Indicates whether UE supports the value 0 for the parameter sequenceOffsetforRV.				
The UE indicating support of this capability shall also indicate support of				
supportInter-slotTDM-r16 with maxNumberTCI-states-r16 set to 2 for at least one				
band.				
supportRetx-Diff-CoresetPool-Multi-DCI-TRP-r16	UE	No	No	No
Indicates that retransmission scheduled by a different CORESETPoolIndex for			INU	
multi-DCI multi-TRP is not supported.				
For multi-DCI multi-TRP operation, if this feature is reported, UE does not support				
retransmission scheduled by PDCCH received in a different CORESETPoolIndex				
compared to the CORESETPoolIndex of the initial transmission, i.e., the UE is not				
expected to receive, for the same HARQ process ID, DCI from a different				
CORESETPoolIndex that schedules the retransmission, i.e., NDI not flipped. This				
applies to both PDSCH and PUSCH retransmissions.				
UE indicating support of this feature shall indicate support of multiDCI-MultiTRP-				
r16.				
targetSMTC-SCG-r16	UE	No	No	No
Indicates the support of configuration of SMTC of target SCG cell with field			INU	
targetCellSMTC-SCG.				
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).			Only	
tdd-PCellUL-TX-AllUL-Subframe-r16	UE	No	TDD	FR1
Indicates whether the UE configured with <i>tdm-patternConfig-r16</i> can be semi-			only	only
statically configured with LTE UL transmissions in all UL subframes not limited to			Only	
the reference tdm-pattern (only for type 1 UE) in case of TDD PCell. UE indicating				
support can configure LTE TDD PCell with this feature on the band combination				
which indicates support of <i>tdm-restrictionTDD-endc-r16</i> .				
tpc-PUCCH-RNTI	UE	No	No	Yes
Indicates whether the UE supports group DCI message based on TPC-PUCCH-			INU	100
RNTI for TPC commands for PUCCH.				
tpc-PUSCH-RNTI	UE	No	No	Yes
ndicates whether the UE supports group DCI message based on TPC-PUSCH-			INU	163
RNTI for TPC commands for PUSCH.				
tpc-SRS-RNTI	UE	No	No	Yes
Indicates whether the UE supports group DCI message based on TPC-SRS-RNTI			INU	163
for TPC commands for SRS.				
twoDifferentTPC-Loop-PUCCH	UE	Yes	Yes	Yes
ndicates whether the UE supports two different TPC loops for PUCCH closed loop		165	165	168
bower control. twoDifferentTPC-Loop-PUSCH	UE	Yes	Yes	Yes
		res	res	res
ndicates whether the UE supports two different TPC loops for PUSCH closed loop				
nower control	1	Yes	Na	Var
	115	· • • • • •	No	Yes
power control. twoFL-DMRS Defines whather the UE supports DM BS pattern for DL reception and/or UL	UE	165		
twoFL-DMRS Defines whether the UE supports DM-RS pattern for DL reception and/or UL	UE	165		
twoFL-DMRS Defines whether the UE supports DM-RS pattern for DL reception and/or UL ransmission with 2 symbols front-loaded DM-RS without additional DM-RS	UE	165		
twoFL-DMRS Defines whether the UE supports DM-RS pattern for DL reception and/or UL ransmission with 2 symbols front-loaded DM-RS without additional DM-RS symbols.	UE	165		
	UE	165		

twoFL-DMRS-TwoAdditionalDMRS-UL Defines whether the UE supports DM-RS pattern for UL transmission with 2	UE	Yes	No	Ye
symbols front-loaded DM-RS with one additional 2 symbols DM-RS.				
woPUCCH-AnyOthersInSlot	UE	No	No	Ye
ndicates whether the UE supports transmission of two PUCCH formats in TDM in				
he same slot, which are not covered by <i>twoPUCCH-F0-2-ConsecSymbols</i> and				
onePUCCH-LongAndShortFormat. woPUCCH-F0-2-ConsecSymbols	UE	No	Yes	Ye
ndicates whether the UE supports transmission of two PUCCHs of format 0 or 2 in	UE	INO	res	re
consecutive symbols in a slot.				
woStepRACH-r16	UE	No	No	No
ndicates whether the UE supports the following basic structure and procedure of 2-tep RACH:				
 Fallback procedures from 2-step RA type to 4-step RA type; 				
- MSGA PRACH resource and format determination;				
- MSGA PUSCH configuration;				
 Validation and transmission of MSGA PRACH and PUSCH; 				
 Mapping between preamble of MSGA PRACH and PUSCH occasion with DMRS resource of MSGA PUSCH; 				
- MSGB monitoring and decoding;				
 PUCCH transmission for HARQ-ACK feedback to a MSGB; 				
- Power control for MSGA PRACH, MSGA PUSCH and PUCCH carrying				
HARQ-ACK feedback to MSGB.				
 Reconfiguration with sync using a contention free random access with 2-step RA type on MSGA PRACH and PUSCH resources that are associated with SSB resources of the target cell. 				
woTCI-Act-servingCellInCC-List-r16	UE	CY	No	Ye
ndicates whether the UE supports receiving the Enhanced TCI States activation/Deactivation for UE-specific PDSCH MAC CE (as specified in TS 38.321 B) clause 6.1.3.24) indicating a serving cell configured as part of <i>simultaneousTCI- lpdateList1</i> or <i>simultaneousTCI-UpdateList2</i> as specified in TS 38.331 [9]. If the UE indicates support of <i>simultaneousTCI-ActMultipleCC-r16</i> for a FR and upport of at least one of <i>singleDCI-SDM-scheme-r16</i> , <i>supportFDM-SchemeA-r16</i> , <i>supportFDM-SchemeB-r16</i> , <i>supportTDM-SchemeA-r16</i> or <i>supportInter-slotTDM-r16</i> for at least one band or component carrier of this FR, the UE shall indicate support of <i>twoTCI-Act-servingCellInCC-List-r16</i> for this FR.				
ype1-HARQ-ACK-Codebook-r16	UE	No	No	Ye
ndicates whether the UE supports Type 1 HARQ-ACK codebook for TDRA using the starting symbol of the PDCCH monitoring occasion in which the DL assignment is detected as the reference of the SLIV. If the UE supports this feature, the UE needs to report <i>dci-Format1-2And0-2-r16</i> . Support for FR1/FR2 is differentiated from the viewpoint of the scheduled carrier.				
ype1-PUSCH-RepetitionMultiSlots Indicates whether the UE supports Type 1 PUSCH transmissions with configured rant as specified in TS 38.214 [12] with UL-TWG-repK value equal to 2, 4, or 8 <i>i</i> th a single repetition of the transport block within each slot, and redundancy ersion pattern as indicated by UL-TWG-RV-rep. A UE supporting this feature shall lso support Type 1 PUSCH transmissions with configured grant as specified in TS 8.214 [12] with UL-TWG-repK value of one. This applies only to non-shared pectrum channel access. For shared spectrum channel access, <i>type1-PUSCH-</i> <i>RepetitionMultiSlots-r16</i> applies.	UE	No	No	N
ype2-CG-ReleaseDCI-0-1-r16	UE	No	No	No
ndicates whether the UE supports type 2 configured grant release by DCI format _1. If the UE supports this feature, the UE needs to report <i>configuredUL</i> -				
GrantType2. ype2-CG-ReleaseDCI-0-2-r16	UE	No	No	N
Decrete ase DCI-0-2-110 ndicates whether the UE supports type 2 configured grant release by DCI format 2. If the UE supports this feature, the UE needs to report <i>configuredUL</i> -			INU	

type2-HARQ-ACK-Codebook-r16	UE	No	No	No
Indicates whether the UE supports Type 2 HARQ-ACK codebook when HARQ-ACK				
feedback in a codebook corresponds to more than one unicast DL DCI for same				
scheduled cell in a monitoring occasion of a scheduling cell using the PDSCH				
starting time in addition to the existing monitoring occasion and Cell index to order				
the HARQ-ACK feedback.				
type2-PUSCH-RepetitionMultiSlots	UE	No	No	No
Indicates whether the UE supports Type 2 PUSCH transmissions with configured				
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 2 PUSCH transmissions with configured grant as specified in TS				
38.214 [12] with UL-TWG-repK value of one. This applies only to non-shared				
spectrum channel access. For shared spectrum channel access, type2-PUSCH-				
RepetitionMultiSlots-r16 applies.				
type2-SP-CSI-Feedback-LongPUCCH	UE	No	No	No
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].				
uci-CodeBlockSegmentation	UE	Yes	No	Yes
Indicates whether the UE supports segmenting UCI into multiple code blocks				
depending on the payload size.				
ul-64QAM-MCS-TableAlt	UE	No	No	Yes
Indicates whether the UE supports the alternative 64QAM MCS table for PUSCH				
with and without transform precoding respectively.				
ul-SchedulingOffset	UE	Yes	Yes	Yes
Indicates whether the UE supports UL scheduling slot offset (K2) greater than 12.				

4.2.7.11 Other PHY parameters

Definitions for parameters	Per	М	FDD- TDD DIFF	FR1- FR2 DIFF
appliedFreqBandListFilter Mirrors the <i>FreqBandList</i> that the NW provided in the capability enquiry, if any. The UE filtered the band combinations in the <i>supportedBandCombinationList</i> in accordance with this <i>appliedFreqBandListFilter</i> .	UE	No	No	No
downlinkSetEUTRA 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
downlinkSetNR 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
extendedBand-n77-r16 This field is only applicable for UEs that indicate support for band n77. If present, the UE supports the restriction to 3450 - 3550 MHz and 3700 - 3980 MHz ranges of band n77 in the USA as specified in Note 12 of Table 5.2-1 in TS 38.101-1 [2]. If absent, the UE supports only restriction to the 3700 - 3980 MHz range of band n77 in the USA. A UE that indicates this field shall also support NS value 55 as specified in TS 38.101-1 [2].	UE	No	No	No
featureSetCombinations Pools of feature sets that the UE supports on the NR or MR-DC band combinations.	UE	N/A	No	No
<i>featureSets</i> 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
naics-Capability-List 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
supportedBandCombinationListNEDC-Only Defines the supported NE-DC only type of band combinations by the UE.	UE	No	No	No
supportedBandCombinationList-UplinkTxSwitch-r16 Defines the NR inter-band UL CA, SUL and/or EN-DC band combinations where UE supports dynamic UL Tx switching. UE only includes this field if requested by the network. All fallback band combinations resulting from the reported band combination, which include at least one band pair supporting dynamic UL Tx switching as indicated in ULTxSwitchingBandPair, shall be supported by the UE.	UE	No	No	No
<i>supportedBandListNR</i> Includes the supported NR bands as defined in TS 38.101-1 [2] and TS 38.101-2 [3].	UE	Yes	No	No
uplinkSetEUTRA 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
---	------	-----	-----	-----
uplinkSetNR 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
 asyncNRDC-r16 Indicates whether the UE supports asynchronous NR-DC with MRTD and MTTD as specified in clause 7.5 and 7.6 of TS 38.133 [5]. If the band combination is comprised of a single band entry for more than two carriers, the UE shall support any permutations of carriers to CGs. If the band combination is comprised of at least two band entries, the carriers corresponding to a band entry shall belong to only one cell group. A UE indicating this capability shall support asynchronous NR-DC configuration where all serving cells of the MCG are in FR1 and all serving cells of the SCG are in FR2. 	BC	FFS	No	No
<i>intraFR-NR-DC-PwrSharingMode1-r16</i> Indicates whether the UE supports intra-FR NR DC with semi-static power sharing mode1 between MCG and SCG cells of same frequency range as defined in TS 38.213 [11]. If this field is absent, the UE does not support intra-FR NR DC.	BC	No	No	No
<i>intraFR-NR-DC-PwrSharingMode2-r16</i> Indicates whether the UE supports semi-static power sharing mode2 between MCG and SCG cells of same frequency range for synchronous intra-FR NR DC as defined in TS 38.213 [11]. The UE indicating the support of this also indicates the support of <i>intraFR-NR-DC-PwrSharingMode1-r16</i> .	BC	No	No	No
<i>intraFR-NR-DC-DynamicPwrSharing-r16</i> Indicates the UE support of dynamic power sharing for intra-FR NR DC between MCG and SCG cells of same frequency range with long or short offset as specified in TS 38.213 [11]. The UE indicating the support of this also indicates the support of <i>intraFR-NR-DC-PwrSharingMode1-r16</i> .	BC	No	No	No
<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. In this release of the specification, the UE shall not report this UE capability.	UE	No	No	No
 supportedCellGrouping-r16 Indicates which NR-DC cell groupings the UE supports for the given NR DC band combination, i.e., mapping of serving cells to MCG and SCG, and the operation mode (synchronous or asynchronous), as requested by the network via requestedCellGrouping-r16. The IDs reported in this field refer to the cell groupings that the network requested in requestedCellGrouping-r16. ID#0 corresponds to the first element in requestedCellGrouping-r16, ID#1 corresponds to the second element in requestedCellGrouping-r16 and so on. NOTE: Irrespective of the indicated supportedCellGrouping-r16, the UE shall also support NR-DC where all FR1 serving cells are in the MCG and all FR2 serving cells are in the SCG, as described in ca-ParametersNRDC. 	BC	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.				

4.2.7.14 *Phy-ParametersSharedSpectrumChAccess*

Definitions for parameters	Per	М	FDD- TDD DIFF	FR1- FR2 DIFF
configuredUL-GrantType1-r16 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 in shared spectrum channel access.	UE	No	No	No
<i>configuredUL-GrantType2-r16</i> 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 in shared spectrum channel access.	UE	No	No	No
<i>downlinkSPS-r16</i> Indicates whether the UE supports PDSCH reception based on semi-persistent scheduling. One SPS configuration is supported per cell group in shared spectrum channel access.	UE	No	No	No
<i>dynamicSFI-r16</i> Indicates whether the UE supports monitoring for DCI format 2_0 and determination of slot formats via DCI format 2_0 in shared spectrum channel access.	UE	No	No	No
 mux-HARQ-ACK-PUSCH-DiffSymbol-r16 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 in shared spectrum channel access. This feature is mandatory if UE supports any of the deployment scenarios A.2, B, C, D and E in Annex B.3 of TS 38.300 [28]. 	UE	CY	No	No
<i>mux-SR-HARQ-ACK-CSI-PUCCH-MultiPerSlot-r16</i> 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- ACK and CSI are supposed to be sent with the same or different starting symbol in a slot in shared spectrum channel access.	UE	No	No	No
<i>mux-SR-HARQ-ACK-CSI-PUCCH-OncePerSlot-r16</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 in shared spectrum channel access.	UE	CY	No	No
If the UE indicates <i>sameSymbol</i> in this field and does not support <i>mux-HARQ-ACK-PUSCH-DiffSymbol-r16</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. If the UE indicates <i>sameSymbol</i> in this field and supports <i>mux-HARQ-ACK-PUSCH-DiffSymbol-r16</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.				
The UE is mandated to support the multiplexing and piggybacking features indicated by <i>sameSymbol</i> for <i>mux-SR-HARQ-ACK-CSI-PUCCH-OncePerSlot-r16</i> if UE supports any of the deployment scenarios A.2, B, C, D and E in Annex B.3 of TS 38.300 [28].				
<i>mux-SR-HARQ-ACK-PUCCH-r16</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 in shared spectrum channel access.	UE	No	No	No
pdsch-RepetitionMultiSlots-r16 Indicates whether the UE supports receiving PDSCH scheduled by DCI format 1_1 when configured with higher layer parameter pdsch-AggregationFactor > 1, as defined in 5.1.2.1 of TS 38.214 [12] in shared spectrum channel access.	UE	No	No	No
<i>pre-EmptIndication-DL-r16</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] in shared spectrum channel access.	UE	No	No	No

pusch-RepetitionMultiSlots-r16	UE	CY	No	No
Indicates whether the UE supports transmitting PUSCH scheduled by DCI format				
0_1 when configured with higher layer parameter pusch-AggregationFactor > 1, as				
defined in clause 6.1.2.1 of TS 38.214 [12] in shared spectrum channel access. This				
feature is mandatory if UE supports any of the deployment scenarios A.2, B, C, D				
and E in Annex B.3 of TS 38.300 [28].				
pucch-Repetition-F1-3-4-r16	UE	CY	No	No
Indicates whether the UE supports transmission of a PUCCH format 1 or 3 or 4 over				
multiple slots with the repetition factor 2, 4 or 8 in shared spectrum channel access.				
This feature is mandatory if UE supports any of the deployment scenarios				
A.2(whenever PUCCH is supported on shared spectrum channel access cell), B, C,				
D and E in Annex B.3 of TS 38.300 [28].				
sp-CSI-ReportPUCCH-r16	UE	No	No	No
Indicates whether UE supports semi-persistent CSI reporting using PUCCH formats				
2, 3 and 4 in shared spectrum channel access.				
sp-CSI-ReportPUSCH-r16	UE	No	No	No
Indicates whether UE supports semi-persistent CSI reporting using PUSCH in				
shared spectrum channel access.				
ss-SINR-Meas-r16	UE	No	No	No
Indicates whether the UE can perform SS-SINR measurement in shared spectrum				
channel access as specified in TS 38.215 [13].				
type1-PUSCH-RepetitionMultiSlots-r16	UE	No	No	No
Indicates whether the UE supports Type 1 PUSCH transmissions with configured				
grant in shared spectrum channel access 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-r16	UE	No	No	No
Indicates whether the UE supports Type 2 PUSCH transmissions with configured				
grant in shared spectrum channel access 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 2 PUSCH transmissions with				
configured grant as specified in TS 38.214 [12] with UL-TWG-repK value of one.				

4.2.8 Void

4.2.9 *MeasAndMobParameters*

Definitions for parameters	Per	M	FDD- TDD DIFF	FR1- FR2 DIFF
<i>cli-RSSI-Meas-r16</i> Indicates whether the UE can perform CLI RSSI measurements as specified in TS 38.215 [13] and supports periodical reporting and measurement event triggering as specified in TS 38.331 [9]. If the UE supports this feature, the UE needs to report <i>maxNumberCLI-RSSI-r16</i> . If this parameter is indicated for FR1 and FR2 differently, each indication corresponds to the frequency range of measurement resources to be measured.	UE	No	TDD only	Yes
<i>cli-SRS-RSRP-Meas-r16</i> Indicates whether the UE can perform SRS RSRP measurements as specified in TS 38.215 [13] and supports periodical reporting and measurement event triggering based on SRS-RSRP as specified in TS 38.331 [9]. If the UE supports this feature, the UE needs to report <i>maxNumberCLI-SRS-RSRP-r16</i> and <i>maxNumberPerSlotCLI-SRS-RSRP-r16</i> . If this parameter is indicated for FR1 and FR2 differently, each indication corresponds to the frequency range of measurement resources to be measured.	UE	No	TDD only	Yes
condHandoverFDD-TDD-r16 Indicates whether the UE supports conditional handover between FDD and TDD cells. The parameter can only be set if <i>condHandover-r16</i> is set for at least one FDD band and one TDD band. The UE that indicates support of this feature shall also indicate support of <i>handoverFDD-TDD</i> .	UE	No	No	No
condHandoverFR1-FR2-r16 Indicates whether the UE supports conditional handover HO between FR1 and FR2. The parameter can only be set if <i>condHandover-r16</i> is set for at least one FR1 band and one FR2 band. The UE that indicates support of this feature shall also indicate support of <i>handoverFR1-FR2</i> .	UE	No	No	No
<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> . This applies only to non- shared spectrum channel access. For shared spectrum channel access, <i>csi-RS- RLM-r16</i> applies.	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-</i> <i>SINR</i> . This applies only to non-shared spectrum channel access. For shared spectrum channel access, <i>csi-RS-RLM-r16</i> applies.	UE	No	No	Yes
csi-RSRP-AndRSRQ-MeasWithoutSSB 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> . This applies only to non- shared spectrum channel access. For shared spectrum channel access, <i>csi- RSRP-AndRSRQ-MeasWithoutSSB-r16</i> applies.	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> . This applies only to non- shared spectrum channel access. For shared spectrum channel access, <i>csi-SINR-Meas-r16</i> applies.	UE	No	No	Yes
eutra-AutonomousGaps-r16 Defines whether the UE supports, upon configuration of <i>useAutonomousGaps</i> by the network, acquisition of relevant information from a neighbouring E-UTRA cell by reading the SI of the neighbouring cell using autonomous gap and reporting the acquired information to the network as specified in TS 38.331 [9] when MR-DC is not configured.	UE	No	No	No

Definitions for parameters	Per	М	FDD- TDD DIFF	FR1- FR2 DIFF
eutra-AutonomousGaps-NEDC-r16 Defines whether the UE supports, upon configuration of useAutonomousGaps by the network, acquisition of relevant information from a neighbouring E-UTRA cell by reading the SI of the neighbouring cell using autonomous gap and reporting the acquired information to the network as specified in TS 38.331 [9] when NE-DC is configured.	UE	No	No	No
eutra-AutonomousGaps-NRDC-r16 Defines whether the UE supports, upon configuration of useAutonomousGaps by the network, acquisition of relevant information from a neighbouring E-UTRA cell by reading the SI of the neighbouring cell using autonomous gap and reporting the acquired information to the network as specified in TS 38.331 [9] when NR-DC is configured.	UE	No	No	No
eutra-CGI-Reporting Defines whether the UE supports acquisition of relevant CGI-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
eutra-CGI-Reporting-NEDC 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
eutra-CGI-Reporting-NRDC 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 SA, MN and SN configured measurement when NR-DC is configured, and MN configured measurement when NE-DC is configured, 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
handoverFR1-FR2 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 handoverInterF 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
handoverLTE-EPC 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

Definitions for parameters	Per	M	FDD- TDD DIFF	FR1- FR2 DIFF
<i>idleInactiveNR-MeasReport-r16</i> Indicates whether the UE supports configuration of NR SSB measurements in RRC_IDLE/RRC_INACTIVE and reporting of the corresponding results upon network request as specified in TS 38.331 [9]. 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
<i>idleInactiveNR-MeasBeamReport-r16</i> Indicates whether the UE supports beam level measurements in RRC_IDLE/RRC_INACTIVE and reporting of the corresponding beam measurement results upon network request as specified in TS 38.331 [9]. A UE supports this feature shall also support <i>idleInactiveNR-MeasReport-r16</i> . 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
<i>idleInactiveEUTRA-MeasReport-r16</i> Indicates whether the UE supports configuration of E-UTRA measurements in RRC_IDLE/RRC_INACTIVE and reporting of the corresponding results upon network request as specified in TS 38.331 [9].	UE	No	No	No
<i>idleInactive-ValidityArea-r16</i> Indicates whether the UE supports configuration of a validity area for NR measurements in RRC_IDLE/RRC_INACTIVE as specified in TS 38.331 [9].	UE	No	No	No
<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 SN configured measurement when (NG)EN-DC is configured. For NR SA, MN and SN configured measurement when NR-DC is configured, and MN configured measurement when NE-DC is configured, this feature is mandatory supported.	UE	Yes	Yes	No
<i>interFrequencyMeas-NoGap-r16</i> Indicates whether the UE can perform inter-frequency SSB based measurements without measurement gaps if the SSB is completely contained in the active BWP of the UE as specified in TS 38.133 [5]. If this parameter is indicated for FR1 and FR2 differently, each indication corresponds to the frequency range of cells to be measured.	UE	No	No	Yes
<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>maxNumberCLI-RSSI-r16</i> Defines the maximum number of CLI-RSSI measurement resources for CLI RSSI measurement. If the UE supports <i>cli-RSSI-Meas-r16</i> , the UE shall report this capability.	UE	CY	TDD only	No
 maxNumberCLI-SRS-RSRP-r16 Defines the maximum number of SRS-RSRP measurement resources for SRS-RSRP measurement. If the UE supports <i>cli-SRS-RSRP-Meas-r16</i>, the UE shall report this capability. NOTE 1: A slot is based on minimum SCS among active BWPs across all CCs configured for SRS-RSRP measurement. NOTE 2: A SRS resource occasion that overlaps with the slot is counted as one measurement resource in the slot. 	UE	CY	TDD only	No
<i>increasedNumberofCSIRSPerMO-r16</i> Indicates support of up to 192 CSI-RS resource for L3 mobility configuration per measurement object configured with <i>associatedSSB</i> .	UE	No	No	Yes
maxNumberCSI-RS-RRM-RS-SINR 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 csi-RSRP-AndRSRQ-MeasWithSSB, csi-RSRP-AndRSRQ-MeasWithoutSSB, and csi-SINR-Meas, UE shall report this capability.	UE	CY	No	No
<i>maxNumberPerSlotCLI-SRS-RSRP-r16</i> Defines the maximum number of SRS-RSRP measurement resources per slot for SRS-RSRP measurement. If the UE supports <i>cli-SRS-RSRP-Meas-r16</i> , the UE shall report this capability.	UE	CY	TDD only	No

Definitions for parameters	Per	M	FDD- TDD DIFF	FR1- FR2 DIFF
<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-AutonomousGaps-r16</i> Defines whether the UE supports, upon configuration of <i>useAutonomousGaps</i> by the network, acquisition of relevant information from a neighbouring NR cell by reading the SI of the neighbouring cell using autonomous gap and reporting the acquired information to the network as specified in TS 38.331 [9] when MR-DC is not configured. 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
<i>nr-AutonomousGaps-ENDC-r16</i> Defines whether the UE supports, upon configuration of <i>useAutonomousGaps</i> by the network, acquisition of relevant information from a neighbouring NR cell by reading the SI of the neighbouring cell using autonomous gap and reporting the acquired information to the network as specified in TS 38.331 [9] when (NG)EN-DC is configured. 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
<i>nr-AutonomousGaps-NEDC-r16</i> Defines whether the UE supports, upon configuration of <i>useAutonomousGaps</i> by the network, acquisition of relevant information from a neighbouring NR cell by reading the SI of the neighbouring cell using autonomous gap and reporting the acquired information to the network as specified in TS 38.331 [9] when NE-DC is configured. 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
<i>nr-AutonomousGaps-NRDC-r16</i> Defines whether the UE supports, upon configuration of <i>useAutonomousGaps</i> by the network, acquisition of relevant information from a neighbouring NR cell by reading the SI of the neighbouring cell using autonomous gap and reporting the acquired information to the network as specified in TS 38.331 [9] when NR-DC is configured. 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
<i>nr-CGI-Reporting</i> Defines whether the UE supports acquisition of relevant CGI-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 CGI-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>reportAddNeighMeasForPeriodic-r16</i> Defines whether the UE supports periodic reporting of best neighbour cells per serving frequency, as defined in TS 38.331 [9].	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-NPN-r16</i> Defines whether the UE supports acquisition of NPN-relevant CGI-information from a neighbouring intra-frequency or inter-frequency NR NPN cell by reading the SI of the neighbouring cell and reporting the acquired information to the network as specified in TS 38.331 [9]. If UE supports NPN, UE shall report this capability.	UE	CY	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
<i>nr-NeedForGap-Reporting-r16</i> Indicates whether the UE supports reporting the measurement gap requirement information for NR target in the UE response to a network configuration RRC message.	UE	No	No	No
<i>pcellT312-r16</i> Indicates whether the UE supports T312 based fast failure recovery for PCell.	UE	No	No	No
<i>simultaneousRxDataSSB-DiffNumerology</i> 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>simultaneousRxDataSSB-DiffNumerology-Inter-r16</i> Indicates whether the UE supports concurrent SSB based inter-frequency measurement without measurement gap on 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 indicates support of this indicates support of <i>interFrequencyMeas-NoGap-r16</i> . If this parameter is indicated for FR1 and FR2 differently, each indication corresponds to the frequency range where the SSB and PDCCH/PDSCH are received.	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 <i>supported</i> . This applies only to non-shared spectrum channel access. For shared spectrum channel access, <i>ssb-RLM- DynamicChAccess-r16</i> or <i>ssb-RLM-Semi-StaticChAccess-r16</i> applies.	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 <i>maxNumberResource-CSI-RS-RLM</i> . This applies only to non-shared spectrum channel access. For shared spectrum channel access, <i>ssb-AndCSI-RS-RLM-r16</i> applies.	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. This applies only to non-shared spectrum channel access. For shared spectrum channel access, <i>ss-SINR-Meas-r16</i> applies.	UE	No	No	Yes

Definitions for parameters	Per	М	FDD- TDD DIFF	FR1- FR2 DIFF
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, 14, 17, 18 and 19 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
supportedGapPattern-r16 Indicates measurement gap pattern(s) optionally supported by the UE for NR SA, for NR-DC for PRS measurement and NR/E-UTRA RRM measurement. The leading / leftmost bit (bit 0) corresponds to the gap pattern 24, the next bit corresponds to the gap pattern 25, as specified in TS 38.133 [5]. The applicability of the gap patterns 24 and 25 is defined in clause 9.1.2 of TS 38.133 [5]. A UE that indicates support of this capability shall indicate support of <i>NR-DL-PRS-ProcessingCapability-r16</i> defined in TS 37.355 [22].	UE	No	No	No
supportedGapPattern-NRonly-r16 Indicates measurement gap pattern(s) optionally supported by the UE for NR SA and NR-DC when the frequencies to be measured within this measurement gap are all NR frequencies. The leading / leftmost bit (bit 0) corresponds to the gap pattern 2, the next bit corresponds to the gap pattern 3 and so on. The UE shall set the bits corresponding to the measurement gap pattern 2, 3 and 11 to 1.	UE	FD	No	No
<i>supportedGapPattern-NRonly-NEDC-r16</i> Indicates whether the UE supports gap patterns 2, 3 and 11 in NE-DC when the frequencies to be measured within this measurement gap are all NR frequencies.	UE	No	No	No

4.2.9a MeasAndMobParametersMRDC

Definitions for parameters	Per	М	FDD- TDD DIFF	FR1- FR2 DIFF
<i>condPSCellChangeFDD-TDD-r16</i> Indicates whether the UE supports conditional PSCell change between FDD and TDD cells. The parameter can only be set if <i>condPSCellChange-r16</i> is set for at least one FDD band and one TDD band.	UE	No	No	No
<i>condPSCellChangeFR1-FR2-r16</i> Indicates whether the UE supports conditional PSCell change between FR1 and FR2. The parameter can only be set if <i>condPSCellChange-r16</i> is set for at least one FR1 band and one FR2 band.	UE	No	No	No
<i>pscellT312-r16</i> Indicates whether the UE supports T312 based fast failure recovery for PSCell.	UE	No	No	No

4.2.10 Inter-RAT parameters

Definitions for parameters	Per	M	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
<i>multiNS-Pmax</i> 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].			
nr-HO-ToEN-DC-r16	UE	CY	No
Indicates whether the UE supports inter-RAT handover from NR to EN-DC while NR-DC			
or NE-DC is not configured as defined in TS 36.306 [15]. It is mandated if the UE			
supports EN-DC.			
rs-SINR-MeasEUTRA	UE	No	No
rs-SINR-Meas in 4.3.6.13, TS 36.306 [15].			
rsrqMeasWidebandEUTRA	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].			
supportedBandListUTRA-FDD-r16	UE	No	No
Radio frequency bands defined in 4.5.7, TS 25.306 [20].			

- 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	М	FDD- TDD DIFF	FR1- FR2 DIFF
voiceFallbackIndicationEPS-r16 Indicates whether the UE supports <i>voiceFallbackIndication</i> in <i>RRCRelease</i> and <i>MobilityFromNRCommand</i> . If this field is included, the UE shall support IMS voice over NR and IMS voice over E-UTRA via EPC.	UE	No	No	No
voiceOverEUTRA-5GC 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
voiceOverNR 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.

4.2.15 IAB Parameters

4.2.15.1 Mandatory IAB-MT features

Table 4.2.15.1-1, Table 4.2.15.1-2 and Table 4.2.15.1-3 capture feature groups, which are mandatory for an IAB-MT. All other feature groups or components of the feature groups as captured in TR 38.822 [24] as well as capabilities specified in this specification are optional for an IAB-MT, unless indicated otherwise.

Table 4.2.15.1-1: Layer-1 mandatory features for IAB-MT

Features	Index	Feature group	Components	Additional information
0.	0-1	CP-OFDM waveform	1) CP-OFDM for DL	
Waveform,		for DL and UL	2) CP -OFDM for UL	
modulation	0-3	DL modulation scheme	1) QPSK modulation	
, subcarrier			2) 16QAM modulation	
spacings,			3) 64QAM modulation for FR1	
and CP	0-4	UL modulation scheme	1) QPSK modulation	
			2) 16QAM modulation	
1. Initial	1-1	Basic initial access	1) RACH preamble format	Only 1 preamble
access and		channels and	2) SS block based RRM measurement	for component
mobility		procedures	3) Broadcast SIB reception including RMSI/OSI and paging	 component component except paging
	1-3	SS block based RLM	SS-SINR measurement	
2. MIMO	2-1	Basic PDSCH	1) Data RE mapping	
		reception	2) Single layer transmission	
			3) Support one TCI state	
	2-5	Basic downlink DMRS	1) Support 1 symbol FL DMRS without additional symbol(s)	
		for scheduling type A	2) Support 1 symbol FL DMRS and 1 additional DMRS	
			symbol	
			3) Support 1 symbol FL DMRS and 2 additional DMRS	
	0.0		symbols for at least one port.	
	2-6	Basic downlink DMRS	1) Support 1 symbol FL DMRS without additional symbol(s)	
		for scheduling type B	2) Support 1 symbol FL DMRS and 1 additional DMRS	
	2-12	Basic PUSCH	symbol Data RE mapping	
	2-12	transmission	Single layer (single Tx) transmission	
		transmission	Single port, single resource SRS transmission (SRS set	
			use is configured as for codebook)	
	2-16	Basic uplink DMRS	1) Support 1 symbol FL DMRS without additional symbol(s)	
	_	(uplink) for scheduling	2) Support 1 symbol FL DMRS and 1 additional DMRS	
		type A	symbols	
			3) Support 1 symbol FL DMRS and 2 additional DMRS	
			symbols	
	2-16a	Basic uplink DMRS	1) Support 1 symbol FL DMRS without additional symbol(s)	
		for scheduling type B	2) Support 1 symbol FL DMRS and 1 additional DMRS	
			symbol	
	2-22	Aperiodic beam report	Support aperiodic report on PUSCH	
	2-32	Basic CSI feedback	1) Type I single panel codebook based PMI (further discuss	
			which mode or both to be supported as mandatory)	
			2) 2Tx codebook for FR1 and FR2	
			3) 4Tx codebook for FR14) 8Tx codebook for FR1 when configured as wideband	
			CSI report	
			7) a-CSI on PUSCH (at least Z value >= 14 symbols, detail	
			processing time to be discussed separately)	
			further check a-CSI on p-CSI-RS and/or SP-CSI-RS from	
			component-7	
	2-50	Basic TRS	1) Support of TRS (mandatory)	
			2) All the periodicity are supported.	
	2-52	Basic SRS	1) Support 1 port SRS transmission	
			2) Support periodic/aperiodic SRS transmission	

control channel tb CORESET0 control and procedure c CORESET resource allocation of BRB bit-map and duration of 1 – 3 OFDM symbols for FR1 - For type 1 CSS with dedicated RRC configuration and for type 0, 0A, and 2 CSSs, CORESET resource allocation of GRB bit-map and duration 1-3 OFDM symbols for FR2 - For type 1 CSS with dedicated RRC configuration and for type 3 CSS, UE specific SS, CORESET resource allocation of GRB bit-map and duration 1-2 OFDM symbols for FR2 - For type 1 CSS with dedicated RRC configuration and for type 3 CSS, UE specific SS, CORESET resource allocation of GRB bit-map and duration 1-2 OFDM symbols for FR2 - FRG bundle saces of 2/3 RBS carefully determination - TCI state(s) for a CORESET configuration - TCI state(s) for a CORESET configuration, type 3 CSS, and UE-SS, the monitoring occasion is within the first - OPCCH algoregation levels 1, 2, 4, 8, 16 - UP to 3 search space sets in a slot for a scheduled SCeII per BWP This search space sets in a slot for a scheduled SCeII per BWP - For type 1 CSS with dedicated RRC configuration and for type 0, 0, and 2 CSS, the monitoring occasion can be any OFDM symbols of a slot - For type 1 CSS without dedicated RRC configuration - Types 0, 0, 0, 1, 0, 0, 1, 1, 1 4. UL control channel - So Configuration and for type 1 CSS without dedicated RRC configuration - Types 0, 0, 0, 1, 0, 0, 1, 1, 1 4. UL control channel - So Configuration one per slot within a slot - PDCCH format 0 over 1 OFDM symbols o		0.4			1
4. UL control channel and procedure 4-1 Basic UL control channel 1) PUCCH format 0 over 1 OFDM symbols once per slot 2) PUCCH format 0 over 2 OFDM symbols once per slot with frequency hopping as "enabled" 3) PUCCH format 1 over 4 – 14 OFDM symbols once per slot with intra-slot frequency hopping as "enabled" 3) PUCCH format 1 over 4 – 14 OFDM symbols once per slot with intra-slot frequency hopping as "enabled" 5) One SR configuration per PUCCH group 6) HARQ-ACK transmission once per slot with its resource/timing determined by using the DCI 7) 7) SR/HARQ multiplexing once per slot using a PUCCH when SR/HARQ-ACK are supposed to be sent by overlapping PUCCH resources with the same starting symbols in a slot 8) HARQ-ACK piggyback on PUSCH with/without aperiodic CSI once per slot when the starting OFDM symbol of the PUSCH is the same as the starting OFDM symbols of the PUSCH resource that HARQ-ACK would have been transmitted on 9) Semi-static beta-offset configuration for HARQ-ACK 10) Single group of overlapping PUCCH/PUSCH and overlapping PUCCH/PUSCH s per slot per PUCCH cell group for control multiplexing 4-10 Dynamic HARQ-ACK Dynamic HARQ-ACK codebook	channel and	3-1	Basic DL control channel	 CORESET resource allocation of 6RB bit-map and duration of 1 – 3 OFDM symbols for FR1 For type 1 CSS without dedicated RRC configuration and for type 0, 0A, and 2 CSSs, CORESET resource allocation of 6RB bit-map and duration 1-3 OFDM symbols for FR2 For type 1 CSS with dedicated RRC configuration and for type 3 CSS, UE specific SS, CORESET resource allocation of 6RB bit-map and duration 1-2 OFDM symbols for FR2 REG-bundle sizes of 2/3 RBs or 6 RBs Interleaved and non-interleaved CCE-to-REG mapping Precoder-granularity of REG-bundle size PDCCH DMRS scrambling determination TCI state(s) for a CORESET configuration 2) CSS and UE-SS configurations for unicast PDCCH transmission per BWP per cell PDCCH aggregation levels 1, 2, 4, 8, 16 UP to 3 search space sets in a slot for a scheduled SCell per BWP This search space limit is before applying all dropping rules. For type 1 CSS with dedicated RRC configuration and for type 0, 0A, and 2 CSS, the monitoring occasion is within the first 3 OFDM symbols of a slot For type 1 CSS without dedicated RRC configuration and for type 0, 0A, and 2 CSS, the monitoring occasion can be any OFDM symbol(s) of a slot, with the monitoring occasion can be any OFDM symbol(s) of a slot, with the monitoring occasion swithin a single span of three consecutive OFDM symbols within a slot Monitoring DCI formats 0_0, 1_0, 0_1, 1_1 Number of PDCCH blind decodes per slot with a given SCS follows Case 1-1 table Processing one unicast DCI scheduling DL and one 	
control channel 2) PUCCH format 0 over 2 OFDM symbols once per slot and 3) PUCCH format 1 over 4 – 14 OFDM symbols once per slot procedure 5) One SR configuration per PUCCH group 6) HARQ-ACK transmission once per slot with its resource/timing determined by using the DCl 7) SR/HARQ multiplexing once per slot using a PUCCH when SR/HARQ-ACK are supposed to be sent by overlapping PUCCH resources with the same starting symbols in a slot 8) HARQ-ACK proven the starting OFDM symbols of the PUSCH resource that HARQ-ACK would have been transmitted on 9) Semi-static beta-offset configuration for HARQ-ACK 10) Single group of overlapping PUCCH/PUSCH s per slot per PUCCH cell group for control multiplexing 4-10 Dynamic HARQ-ACK Dynamic HARQ-ACK Dynamic HARQ-ACK					
4-10 Dynamic HARQ-ACK Dynamic HARQ-ACK codebook	control channel and	4-1		 2) PUCCH format 0 over 2 OFDM symbols once per slot with frequency hopping as "enabled" 3) PUCCH format 1 over 4 – 14 OFDM symbols once per slot with intra-slot frequency hopping as "enabled" 5) One SR configuration per PUCCH group 6) HARQ-ACK transmission once per slot with its resource/timing determined by using the DCI 7) SR/HARQ multiplexing once per slot using a PUCCH when SR/HARQ-ACK are supposed to be sent by overlapping PUCCH resources with the same starting symbols in a slot 8) HARQ-ACK piggyback on PUSCH with/without aperiodic CSI once per slot when the starting OFDM symbol of the PUSCH is the same as the starting OFDM symbols of the PUCCH resource that HARQ-ACK would have been transmitted on 9) Semi-static beta-offset configuration for HARQ-ACK 10) Single group of overlapping PUCCH/PUCCH and overlapping PUCCH/PUSCH s per slot per PUCCH cell 	
		4-10	Dynamic HARQ-ACK codebook		

5. Scheduling /HARQ operation	5-1	Basic scheduling/HARQ operation	 1) Frequency-domain resource allocation RA Type 0 only and Type 1 only for PDSCH without interleaving RA Type 1 for PUSCH without interleaving 2) Time-domain resource allocation 1-14 OFDM symbols for PUSCH once per slot One unicast PDSCH per slot Starting symbol, and duration are determined by using the DCI PDSCH mapping type A with 7-14 OFDM symbols PUSCH mapping type A and type B For type 1 CSS without dedicated RRC configuration and for type 0, 0A, and 2 CSS, PDSCH mapping type A with {4-14} OFDM symbols and type B with {2, 4, 7} OFDM symbols 3) TBS determination 4) Nominal UE processing time for N1 and N2 (Capability #1) 5) HARQ process operation with configurable number of DL HARQ process of up to 16 6) Cell specific RRC configured UL/DL assignment for TDD 7) Dynamic UL/DL determination based on L1 scheduling DCI with/without cell specific RRC configured UL/DL assignment 9) In TDD support at most one switch point per slot for actual DL/UL transmission(s) 10) DL scheduling slot offset K0=0 12) UL scheduling slot offset K2<=12 For type 1 CSS without dedicated RRC configuration and for type 0, 0A, and 2 CSS, interleaving for VRB-to-PRB mapping for PDSCH 	
6. CA/DC, BWP, SUL	6-1	Basic BWP operation with restriction	 1 UE-specific RRC configured DL BWP per carrier 1 UE-specific RRC configured UL BWP per carrier 3) RRC reconfiguration of any parameters related to BWP 4) BW of a UE-specific RRC configured BWP includes BW of CORESET#0 (if CORESET#0 is present) and SSB for PCell/PSCell (if configured) and BW of the UE-specific RRC configured BWP includes SSB for SCell if there is SSB on SCell 	
7. Channel coding	7-1	Channel coding	 LDPC encoding and associated functions for data on DL and UL Polar encoding and associated functions for PBCH, DCI, and UCI Coding for very small blocks 	
8. UL TPC	8-3	Basic power control operation	 Accumulated power control mode for closed loop 1 TPC command loop for PUSCH, PUCCH respectively One or multiple DL RS configured for pathloss estimation One or multiple p0-alpha values configured for open loop PC PUSCH power control PUCCH power control PRACH power control SRS power control PHR 	

Features	Index	Feature group	Components	Additional information
0. General	N/A	IAB procedures	 Routing using BAP protocol, as specified in TS 38.340 [23] Bearer mapping using BAP protocol, as specified in TS 38.340 [23] IAB-node IP address signalling over RRC, as specified in TS 28.221 	
1. PDCP	1-0	Basic PDCP procedures	in TS 38.331 [9] 1) (de)Ciphering on SRB 2) Integrity protection on SRB 3) Timer based SDU discard 4) Re-ordering and in-order delivery 6) Duplicate discarding 7) 18bits SN	
2. RLC	2-0	Basic RLC procedures	1) RLC TM 2) RLC AM with 18bits SN 3) SDU discard	
	2-4	NR RLC SN size for SRB	NR RLC SN size for SRB	
3. MAC	3-0	Basic MAC procedures	 1) RA procedure on PCell 2) IAB-MT initiated RA procedure (including for beam recovery purpose) 3) NW initiated RA procedure (i.e. based on PDCCH) 4) Support of ssb-Threshold and association between preamble/PRACH occasion and SSB 5) Preamble grouping 6) UL single TA maintenance 7) HARQ operation for DL and UL 8) LCH prioritization 9) Prioritized bit rate 10) Multiplexing 11) SR with single SR configuration 12) BSR 13) PHR 14) 8bits and 16bits L field 	
9. RRC	9-1 9-2	RRC processing time	Maximum overall RRC configuration size 1) RRC connection establishment 2) RRC connection resume without SCell addition/release and SCG establishment/modification/release 3) RRC connection reconfiguration without SCell addition/release and SCG establishment/modification/release 4) RRC connection re-establishment. 5) RRC connection reconfiguration with sync procedure 6) RRC connection reconfiguration with SCell addition/release or SCG establishment/modification/release 7) RRC connection resume 8) Initial security activation 9) Counter check 10) UE capability transfer	45 Kbytes 1) to 3) 10ms 4) 10ms 5): 10ms + additional delay (cell search time and synchronization) defined in TS 38.133 6) and 7) 16ms 7) 10 or 6ms (See details in clause 12, TS 38.331) 8) and 9) 5ms 10) 80ms

Table 4.2.15.1-2: Layer-2 and Layer-3 mandatory features for IAB-MT

Table 4.2.15.1-3: RF/RRM mandatory features for IAB-MT

Features	Index	Feature group	Components	Additional information
1. System parameter	1-2	64QAM modulation for FR2 PDSCH	64QAM modulation for FR2 PDSCH	
•	1-3	64QAM for PUSCH	64QAM for PUSCH	

4.2.15.2 General Parameters

Definitions for parameters	Per	М	FDD- TDD DIFF	FR1- FR2 DIFF
bh-RLF-Indication-r16	IAB-	No	No	No
Indicates whether the IAB-MT supports BH RLF indication handling as specified in	MT			
TS 38.331 [9] and in TS 38.340 [23]				
directSN-AdditionFirstRRC-IAB-r16	IAB-	No	No	No
Indicates whether the IAB-MT supports direct SN addition in the first RRC	MT			
connection reconfiguration after RRC connection establishment.				

4.2.15.3 SDAP Parameters

Definitions for parameters	Per	М	FDD- TDD DIFF	FR1- FR2 DIFF
sdap-QOS-IAB-r16 Indicates whether the IAB-MT supports flow-based QoS and multiple flows to 1 DRB mapping, as specified in TS 37.324 [25].	IAB- MT	No	No	No
sdapHeaderIAB-r16 Indicates whether the IAB-MT supports UL SDAP header and SDAP End-marker, as specified in TS 37.324 [25].	IAB- MT	No	No	No

4.2.15.4 PDCP Parameters

Definitions for parameters	Per	М	FDD- TDD DIFF	FR1- FR2 DIFF
drb-IAB-r16	IAB-	No	No	No
Indicates whether the IAB-MT supports DRB configuration including split DRB with	MT			
one UL path, (de)ciphering on DRB and PDCP status reporting.				
non-DRB-IAB-r16	IAB-	No	No	No
Indicates whether the IAB-MT supports SRB2 configuration without a DRB, as specified in TS 38.331 [9].	MT			

4.2.15.5 BAP Parameters

Definitions for parameters	Per	М	FDD- TDD DIFF	FR1- FR2 DIFF
flowControlBH-RLC-ChannelBased-r16	IAB-	No	No	No
Indicates whether the IAB-MT supports flow control procedures and flow control	MT			
feedback per backhaul RLC channel, as specified in TS 38.340 [23].				
flowControlRouting-ID-Based-r16	IAB-	No	No	No
Indicates whether the IAB-MT supports flow control procedures and flow control	MT			
feedback per Routing ID, as specified in TS 38.340 [23].				

4.2.15.6 MAC Parameters

Definitions for parameters	Per	М	FDD- TDD DIFF	FR1- FR2 DIFF
<i>Icid-ExtensionIAB-r16</i> Indicates whether the IAB-MT supports extended Logical Channel ID space using two-octet eLCID, as specified in TS 38.321 [8].	IAB- MT	No	No	No
<i>preEmptiveBSR-r16</i> Indicates whether the IAB-MT supports Pre-emptive BSR as specified in TS 38.321 [8].	IAB- MT	No	No	No

4.2.15.7 Physical layer parameters

4.2.15.7.1 BandNR parameters

Definitions for parameters	Per	м	FDD- TDD DIFF	FR1- FR2 DIFF
handoverIntraF-IAB-r16 Indicates whether the IAB-MT supports intra-frequency HO. It indicates the support for intra-frequency HO from the corresponding duplex mode if this capability is included in <i>fdd-Add-UE-NR-Capabilities</i> or <i>tdd-Add-UE-NR-Capabilities</i> . It indicates the support for intra-frequency HO in the corresponding frequency range if this capability is included in <i>fr1-Add-UE-NR-Capabilities</i> or <i>fr2-Add-UE-NR-Capabilities</i> . IAB-MT shall set the capability value consistently for all FDD-FR1 bands, all TDD- FR1 bands and all TDD-FR2 bands respectively.	Band	No	N/A	N/A
<i>multipleTCI</i> Indicates whether IAB-MT 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> .	Band	No	N/A	N/A
<i>rasterShift7dot5-IAB-r16</i> Indicates whether the IAB-MT supports 7.5kHz UL raster shift in the indicated band.	Band	No	N/A	N/A

4.2.15.7.2 Phy-Parameters

Definitions for parameters	Per	М	FDD- TDD DIFF	FR1- FR2 DIFF
<i>dft-S-OFDM-WaveformUL-IAB-r16</i> Indicates whether the IAB-MT supports DFT-S-OFDM waveform for UL and	IAB- MT	No	No	No
transform precoding for single-layer PUSCH.		NLa	NI	NI-
<i>dci-25-AI-RNTI-Support-IAB-r16</i> Indicates the support of monitoring DCI Format 2_5 scrambled by AI-RNTI for indication of soft resource availability to an IAB node as specified in TS 38.212 [10].	IAB- MT	No	No	No
<i>guardSymbolReportReception-IAB-r16</i> Indicates the support of DesiredGuardSymbols reporting and ProvidedGuardSymbols reception as specified in TS 38.213 [11].	IAB- MT	No	No	No
<i>pdsch-MappingTypeA</i> Indicates whether the IAB-MT supports receiving PDSCH using PDSCH mapping type A with less than seven symbols.	IAB- MT	No	No	No
pucch-F2-WithFH Indicates whether the IAB-MT supports transmission of a PUCCH format 2 (2 OFDM symbols in total) with frequency hopping in a slot.	IAB- MT	No	No	Yes
pucch-F3-WithFH Indicates whether the IAB-MT supports transmission of a PUCCH format 3 (4~14 OFDM symbols in total) with frequency hopping in a slot.	IAB- MT	No	No	Yes
seperateSMTC-InterIAB-Support-r16 Indicates the support of up to 4 SMTCs configurations per frequency location, including IAB-specific SMTC window periodicities.	IAB- MT	No	No	No
seperateRACH-IAB-Support-r16 Indicates the support of separate RACH configurations including new IAB-specific offset and scaling factors.	IAB- MT	No	No	No
<i>t-DeltaReceptionSupport-IAB-r16</i> Indicates the support of T_delta reception for case 1 OTA timing alignment as specified in TS 38.213 [11].	IAB- MT	No	No	No
<i>ul-flexibleDL-SlotFormatSemiStatic-IAB-r16</i> Indicates the support of semi-static configuration/indication of UL-Flexible-DL slot formats for IAB-MT resources.	IAB- MT	No	No	No
<i>ul-flexibleDL-SlotFormatDynamics-IAB-r16</i> Indicates the support of dynamic indication of UL-Flexible-DL slot formats for IAB- MT resources.	IAB- MT	No	No	No

4.2.15.8 MeasAndMobParameters Parameters

Definitions for parameters	Per	М	FDD- TDD DIFF	FR1- FR2 DIFF
eventA-MeasAndReport	IAB-	Yes	Yes	No
Indicates whether the IAB-MT supports NR measurements and events A triggered reporting as specified in TS 38.331 [9].	MT			
handoverInterF	IAB-	No	Yes	Yes
Indicates whether the IAB-MT supports inter-frequency HO. It indicates the support for inter-frequency HO from the corresponding duplex mode if this capability is included in fdd-Add-UE-NR-Capabilities or tdd-Add-UE-NR-Capabilities. It indicates the support for inter-frequency HO from the corresponding frequency range if this capability is included in fr1-Add-UE-NR-Capabilities or fr2-Add-UE-NR-Capabilities.	MT			
mfbi-IAB-r16	IAB-	No	No	No
Indicates whether the IAB-MT supports multiple frequency band indication.	MT		110	
intraAndInterF-MeasAndReport	IAB-	Yes	Yes	No
Indicates whether the IAB-MT supports NR intra-frequency and inter-frequency	MT			
measurements and at least periodical reporting.				

4.2.15.9 MR-DC Parameters

Definitions for parameters	Per	М	FDD- TDD DIFF	FR1- FR2 DIFF
f1c-OverEUTRA-r16	IAB-	No	No	No
Indicates whether the IAB-MT supports F1-C signalling over <i>DLInformationTransfer</i> and <i>ULInformationTransfer</i> messages via MN when IAB-MT operates in EN-DC	MT			
mode, as specified in TS 36.331 [17].				
<i>scg-DRB-NR-IAB-r16</i> Indicates whether the IAB-MT supports SCG DRB with NR PDCP when IAB-MT operates in EN-DC mode.	IAB- MT	No	No	No
<i>interNR-MeasEUTRA-IAB-r16</i> Indicates whether the IAB-MT supports NR measurement and reports while in EUTRA connected and event B1-based measurement and reports while in EUTRA connected.	IAB- MT	No	No	No

4.2.16 Sidelink Parameters

4.2.16.1 Sidelink Parameters in NR

4.2.16.1.1 Sidelink General Parameters

Definitions for parameters	Per	М	FDD- TDD DIFF	FR1- FR2 DIFF
<i>accessStratumReleaseSidelink-r16</i> Indicates the access stratum release for NR sidelink communication the UE supports as specified in TS 38.331 [9].	UE	Yes	No	No

4.2.16.1.2 Sidelink PDCP Parameters

Definitions for parameters	Per	М	FDD- TDD DIFF	FR1- FR2 DIFF
outOfOrderDeliverySidelink-r16 Indicates whether UE supports out of order delivery of data to upper layers by PDCP for sidelink.	UE	No	No	No

4.2.16.1.3 Sidelink RLC Parameters

Definitions for parameters	Per	М	FDD- TDD DIFF	FR1- FR2 DIFF
<i>am-WithLongSN-Sidelink-r16</i> Indicates whether the UE supports AM DRB with 18 bit length of RLC sequence number for sidelink.	UE	No	No	No
<i>um-WithLongSN-Sidelink-r16</i> Indicates whether the UE supports UM DRB with 12 bit length of RLC sequence number for sidelink.	UE	No	No	No

4.2.16.1.4 Sidelink MAC Parameters

Definitions for parameters	Per	М	FDD- TDD DIFF	FR1- FR2 DIFF
<i>Icp-RestrictionSidelink-r16</i> Indicates whether UE supports the selection of logical channels for each SL grant	UE	No	No	No
based on RRC configured restriction.				
logicalChannelSR-DelayTimerSidelink-r16	UE	No	Yes	No
Indicates whether the UE supports the logicalChannelSR-DelayTimer as specified in TS 38.321 [8] for sidelink logical channel(s).				
multipleSR-ConfigurationsSidelink-r16	UE	No	Yes	No
Indicates whether the UE supports 8 SR configurations per PUCCH cell group as specified in TS 38.321 [8] for sidelink.				
multipleConfiguredGrantsSidelink-r16	UE	No	No	No
Indicates whether UE supports 8 sidelink configured grant configurations (including				
both Type 1 and Type 2) in a resource pool. If absent, for each resource pool, the UE only supports one sidelink configured grant configuration.				

4.2.16.1.5 Other PHY parameters

Definitions for parameters	Per	М	FDD- TDD DIFF	FR1- FR2 DIFF
supportedBandCombinationListSidelinkEUTRA-NR-r16 Defines the supported NR sidelink communication and/or V2X sidelink communication band combinations by the UE. A fallback band combination resulting from the reported sidelink band combination shall be supported by the UE. The UE does not include this field if the UE capability is requested by E-UTRAN (see TS 36.331 [17]) and the network request includes the field <i>eutra-nr-only</i> .	UE	No	No	No
supportedBandCombinationListSidelinkNR-r16 Defines the supported joint NR sidelink communication band combinations by the UE. A fallback band combination resulting from the reported sidelink band combination shall be supported by the UE.	UE	No	No	No
supportedBandListSidelink-r16 Indicates frequency bands supported for NR sidelink communications and parameters supported for each frequency band, as specified in 4.2.16.1.6.	UE	No	No	No

4.2.16.1.6 BandSidelink Parameters

Definitions for parameters	Per	М	FDD- TDD DIFF	FR1- FR2 DIFF
<i>sl-Reception-r16</i> Indicates whether receving NR sidelink communication is supported. If supported, this parameter indicates the support of the capabilities and includes the parameters as follows:	Band	CY	N/A	N/A
- UE can receive NR PSCCH/PSSCH.				
 harq-RxProcessSidelink, which indicates the number of sidelink HARQ processes across all links that the UE supports for NR PSSCH reception. Value n16 corresponds to 16, n24 corresponds to 24, and so on. 				
 pscch-RxSidelink, which indicates the number of PSCCH that the supports for reception in a slot. Value value1 corresponds to floor (N_{RB} /10 RBs), value2 corresponds to 2*floor (N_{RB} /10 RBs); 				
- UE can attempt to decode NRB non-overlapping RBs per slot.				
- UE supports reception of PSSCH according to the 64QAM MCS table.				
- UE supports PT-RS reception in FR2.				
- scs-CP-PatternRxSidelink, which indicates the subcarrier spacing with normal CP and the corresponding channel bandwidth that the UE supports for NR sidelink communication reception. Value scs-15kHz corresponds to 15kHz, scs-30kHz corresponds to 30kHz, and so on. It is mandatory for UE to support reception using 30 kHz subcarrier spacing with normal CP in FR1, and 120 kHz subcarrier spacing with normal CP FR2. For FR1, the bits in scs-XXkHz starting from the leading / leftmost bit indicate 5, 10, 15, 20, 25, 30, 40, 50, 60, 70, 80, 90 and 100MHz. For FR2, the bits in scs-XXkHz starting from the leading / leftmost bit indicate 50, 100 and 200MHz. This capability is not required to be signalled in a band indicated with only the PC5 interface in 38.101-1 [2], Table 5.2E.1-1. Otherwise, it is mandatory. For a band indicated with only the PC5 interface in 38.101-1 [2], Table 5.2E.1-1, UE supports reception using 30 kHz subcarrier spacing with normal CP in FR1, 120 kHz subcarrier spacing with normal CP in FR2.				
 extendedCP-RxSidelink, which indicates whether the UE supports 60 kHz subcarrier spacing with extended CP length for NR sidelink communication reception. This capability is not required to be signalled in a band indicated with only the PC5 interface in TS 38.101-1 [2], Table 5.2E.1-1. Otherwise, it is mandatory. 				
 UE supports 14-symbol SL slot with all DMRS patterns corresponding to number of PSSCH symbols = {12, 9} for slots with and without PSFCH. If UE signals support of extended CP, support 12-symbol SL slot with all DMRS patterns corresponding to number of PSSCH symbols = {10,7} for slots with and without PSFCH. 				
 NOTE 1: NRB is the number of RBs defined per channel bandwidth by RAN4 in 38.101-1 [2], Table 5.3.2-1 for FR1 and 38.101-2 [3], Table 5.3.2-1 for FR2. NOTE 2: Configuration by NR Uu is not required to be supported in a band 				
indicated with only the PC5 interface in TS 38.101-1 [2] Table 5.2E.1-1.				
Support of this feature is mandatory if UE supports NR sidelink.				

<i>sl-TransmissionMode1-r16</i> Indicates whether transmitting NR sidelink mode 1 scheduled by Uu is supported. If supported, this parameter indicates the support of the capabilities and includes the parameters as follows:	Band	CY	N/A	N/A
 UE can transmit PSCCH/PSSCH using configured grant type 1. For NR sidelink mode 1 scheduled by NR Uu, UE can additionally transmit PSCCH/PSSCH using dynamic scheduling or configured grant type 2. Up to 8 configured grants can be configured for a UE. 				
 harq-TxProcessModeOneSidelink, which indicates the number of sidelink HARQ processes across all links that the UE supports for NR PSSCH transmission using mode 1, including those for configured grants. Value n8 corresponds to 8, n16 corresponds to 16, and so on. 				
- UE can transmit PSSCH according to the normal 64QAM MCS OFDM table.				
- UE supports PT-RS transmission in FR2.				
 For NR sidelink mode 1 scheduled by NR Uu, UE can monitor DCI format 3_0 for NR sidelink dynamic scheduling and configured grant type 2 on the same carrier as sidelink. 				
 scs-CP-PatternTxSidelinkModeOne, which indicates the subcarrier spacing with normal CP and the corresponding bandwidth that the UE supports for NR sidelink communication transmission using NR sidelink mode 1. Value scs-15kHz corresponds to 15kHz, scs-30kHz corresponds to 30kHz, and so on. For FR1, the bits in scs-XXkHz starting from the leading / leftmost bit indicate 5, 10, 15, 20, 25, 30, 40, 50, 60, 70, 80, 90 and 100MHz. For FR2, the bits in scs-XXkHz starting from the leading / leftmost bit indicate 50, 100 and 200MHz. For a band indicated with only the PC5 interface in 38.101-1 [2], Table 5.2E.1-1, UE supports transmission using at least 30 kHz subcarrier spacing with normal CP in FR1, at least 120 kHz subcarrier spacing with normal CP in FR2. Otherwise, the reported subcarrier spacing with normal CP and the corresponding bandwidth that the UE supports shall be the same as reported for UL via <i>channelBWs-UL</i>. 				
 extendedCP-TxSidelink, which indicates whether the UE supports 60 kHz subcarrier spacing with extended CP length for NR sidelink communication transmission using mode 1. For a band indicated with only the PC5 interface in 38.101-1 [2], Table 5.2E.1-1, the reported subcarrier spacing with normal CP and the corresponding bandwidth that the UE supports shall be the same as reported for UL via <i>channelBWs-UL</i>. 				
- UE supports 14-symbol SL slot with all DMRS patterns corresponding to the number of PSSCH symbols = {12, 9} for slots with and without PSFCH. If UE signals support of extended CP, support 12-symbol SL slot with all DMRS patterns corresponding to the number of PSSCH symbols = {10,7} for slots with and without PSFCH.				
 UE supports downlink pathloss based open loop power control for NR sidelink mode 1 scheduled by NR Uu if the band is not indicated with only the PC5 interface in 38.101-1 [2], Table 5.2E.1-1. Otherwise, it is not supported. 				
 harq-ReportOnPUCCH, which indicates whether UE supports reporting sidelink HARQ-ACK to gNB via PUCCH and PUSCH when it is operating in NR sidelink mode 1, for NR sidelink mode 1 scheduled by NR Uu, if the band is indicated with only the PC5 interface in 38.101-1 [2], Table 5.2E.1-1. Otherwise, it is mandatory. 				
NOTE: Random selection in the exceptional pool is supported.				
Support of this feature is mandatory if UE supports NR sidelink in licensed spectrum where gNB is operating on or managing that spectrum.				

 <i>sl-TransmissionMode2-r16</i> Indicates whether transmitting NR sidelink mode 2 is supported. If supported, this parameter indicates the support of the capabilities and includes the parameters as follows: UE can transmit PSCCH/PSSCH using NR sidelink mode 2 configured by NR Uu or preconfiguration. <i>harq-TxProcessModeTwoSidelink</i>, which indicates the number of sidelink HARQ processes across all links that the UE supports for NR PSSCH transmission using mode 2. Value n8 corresponds to 8, n16 corresponds to 16. UE can transmit PSSCH according to the normal 64QAM MCS table. UE can perform mode 2 sensing and resource allocation operations <i>scs-CP-PattemTxSidelinkModeTwo</i>, which indicates UE can transmit using the subcarrier spacing and CP length it reports in <i>sl-Reception-r16</i>. This capability is not required to be signalled in a band indicated with only the PC5 interface in 38.101-1 [2], Table 5.2E.1-1. UE supports 14-symbol SL slot with all DMRS patterns corresponding to the number of PSSCH symbols = {12, 9} for slots with and without PSFCH. If UE signals support of extended CP, support 12-symbol SL slot with all DMRS patterns corresponding to the number of PSSCH symbols = {12, 9} for slots with and without PSFCH. <i>dl-openLoopPC-Sidelink</i>, which indicates whether UE supports DL pathloss based open loop power control when mode 2 is configured by NR Uu, if the band is indicated with only the PC5 interface in 38.101-1 [2], Table 5.2E.1-1. Otherwise, it is mandatory. 	Band	CY	N/A	N/A
 NOTE 1: Random selection in the exceptional pool is supported. NOTE 2: Configuration by NR Uu is not required to be supported in a band indicated with only the PC5 interface in 38.101-1 [2] Table 5.2E.1-1. 				
Support of this feature is mandatory if UE supports NR sidelink.				

Sync-Sidelink-r16 ndicates whether UE supports synchronization sources for NR sidelink. If supported, this parameter indicates the support of the capabilities and includes the parameters as follows:	Band	CY	N/A	N/A
- UE can receive S-SSB in NR sidelink if it supports <i>sl-Reception-r16</i> .				
- UE can transmit S-SSB in NR sidelink if it supports <i>sl-TransmissionMode1-</i> r16 or <i>sl-TransmissionMode2-r16</i> .				
 UE supports GNSS and SyncRef UE as the synchronization reference according to the synchronization procedure with <i>sl-SyncPriority</i> set to <i>GNSS</i> and <i>sl-NbAsSync</i> set to <i>false</i>. 				
- <i>gNB-Sync</i> , which indicates whether UE can transmit or receive NR sidelink based on the synchronization to an gNB for NR Uu, if the band is indicated with only the PC5 interface in 38.101-1 [2], Table 5.2E.1-1. Otherwise, it is mandatory.				
- gNB-GNSS-UE-SyncWithPriorityOnGNB-ENB, which indicates whether UE additionally supports gNB, GNSS and SyncRef UE as the synchronization reference according to the synchronization procedure with <i>sl-SyncPriority</i> set to gnbEnb for NR Uu, if the band is indicated with only the PC5 interface in 38.101-1 [2], Table 5.2E.1-1. Otherwise, it is mandatory.				
- gNB-GNSS-UE-SyncWithPriorityOnGNSS, which indicates whether UE additionally supports gNB, GNSS and SyncRef UE as the synchronization reference according to the synchronization procedure with <i>sl-SyncPriority</i> set to GNSS and <i>sl-NbAsSync</i> set to true for NR Uu, if the band is indicated with only the PC5 interface in 38.101-1 [2], Table 5.2E.1-1. Otherwise, it is mandatory.				
This field is only applicable if the UE supports at least one of <i>sl-Reception-r16</i> , <i>sl-TransmissionMode1-r16</i> and <i>sl-TransmissionMode2-r16</i> .				
NOTE: Configuration by NR Uu is not required to be supported in a band indicated with only the PC5 interface in 38.101-1 [2] Table 5.2E.1-1.				
Support of this feature is mandatory if UE supports NR sidelink.				
congestionControlSidelink-r16 ndicates whether UE supports sidelink congestion control for NR sidelink. If supported, this parameter indicates the support of the capabilities and includes the parameters as follows:	Band	CY	N/A	N/A
 <i>cbr-ReportSidelink</i>, which indicates whether UE can report CBR measurement to gNB when operating in Mode 1 and mode 2, if the band is indicated with only the PC5 interface in 38.101-1 [2], Table 5.2E.1-1. Otherwise, it is mandatory. UE can adjust its radio parameters based on CBR measurement and CRlimit. <i>cbr-CR-TimeLimitSidelink</i>, which indicates the time within which UE can 				
process CBR and CR. Value time1 corresponds to congestion process time of 2, 2, 4, 8 slots for 15, 30, 60, 120 kHz subcarrier spacing, and value time2 corresponds to congestion process time of 2, 4, 8, 16 slots for 15, 30, 60, 120 kHz subcarrier spacing. This field is only applicable if the UE supports <i>sl-Reception-r16</i> and at least one of				
sl-TransmissionMode1-r16 and sl-TransmissionMode2-r16.				
Support of this feature is mandatory if UE supports NR sidelink.				
s I-Tx-256QAM-r16 ndicates UE can transmit PSSCH according to the 256QAM MCS table. This field is only applicable if the UE supports at least one of <i>sI</i> -	Band	No	N/A	FR1 only
TransmissionMode1-r16 and sI-TransmissionMode2-r16.	1			

psfch-FormatZeroSidelink-r16 Indicates whether UE supports PSFCH format 0. If supported, this parameter indicates the support of the capabilities and includes the parameters as follows:	Band	CY	N/A	N/A
- UE can transmit and receive NR PSFCH format 0.				
 psfch-RxNumber which indicates the number of PSFCH(s) resources that the UE can receive in a slot. Value n5 corresponds to 5, n15 corresponds to 15, and so on. 				
 psfch-TxNumber which indicates the number of PSFCH(s) resources that the UE can transmit in a slot. Value n4 corresponds to 4, n8 corresponds to 8, and so on. 	•			
This field is only applicable if the UE supports at least one of <i>sl-Reception-r16</i> and <i>sl-TransmissionMode2-r16</i> .				
NOTE: Configuration by NR Uu is not required to be supported in a band indicated with only the PC5 interface in 38.101-1 [2] Table 5.2E.1-1.				
Support of this feature is mandatory if UE supports NR sidelink.				
IowSE-64QAM-MCS-TableSidelink-r16 Indicates UE can transmit and receive PSSCH according to the low-spectral efficiency 64QAM MCS table. This field is only applicable if the UE supports at least one of <i>sl-Reception-r16</i> , <i>sl-</i> <i>TransmissionMode1-r16</i> and <i>sl-TransmissionMode2-r16</i> .	Band	No	N/A	N/A
<i>csi-ReportSidelink-r16</i> Indicates UE supports Sidelink CSI report. If supported, this parameter indicates the support of the capabilities and includes the parameters as follows:	Band	СҮ	N/A	N/A
 csi-RS-PortsSidelink, which indicates the number of antenna port(s) up to which UE can transmit and receive sidelink CSI-RS with. Value p1 corresponds to 1, and value p2 corresponds to 2. UE supports RI and CQI feedback on sidelink. This field is only applicable if the UE supports at least one of <i>sl-Reception-r16</i>, <i>sl-TransmissionMode1-r16</i> and <i>sl-TransmissionMode2-r16</i>. 				
Support of this feature is mandatory if UE supports NR sidelink.				
enb-Sync-Sidelink-r16 Indicates whether UE supports eNB type synchronization source for NR sidelink. If supported, this parameter indicates the support of the capabilities and includes the parameters as follows:	Band	No	N/A	N/A
 UE can transmit or receive NR sidelink based on the synchronization to an eNB. 				
 If UE supports sync-Sidelink-r16, UE additionally supports eNB, GNSS and SyncRef UE as the synchronization reference according to the synchronization procedure with sl-SyncPriority set to gnbEnb. 				
 If UE supports sync-Sidelink-r16, UE additionally supports eNB, GNSS and SyncRef UE as the synchronization reference according to the synchronization procedure with sl-SyncPriority set to GNSS and sl- NbAsSync set to true. 				
This field is only applicable if the UE supports at least one of <i>sl-Reception-r16</i> , <i>sl-TransmissionMode1-r16</i> and <i>sl-TransmissionMode2-r16</i> .				
<i>rankTwoReception-r16</i> Indicates whether UE supports rank 2 PSSCH reception. This field is only applicable if the UE supports <i>sI-Reception-r16</i> .	Band	No	N/A	N/A
<i>fewerSymbolSlotSidelink-r16</i> Indicates whether UE supports transmission/reception of SL slot configured with 7, 8, 9, 10, 11, 12, 13 consecutive symbols and all the corresponding DMRS patterns in a slot. This field is only applicable if the UE supports at least one of <i>sl-Reception-r16</i> , sl-	Band	No	N/A	N/A

Support of this feature is mandatory if UE supports NR sidelink.			
ue-PowerClassSidelink-r16 Band This parameter indicates the supported power class for this band used for sidelink. Band	d No	Band No N/A	N/A

4.2.16.1.7 BandCombinationListSidelinkEUTRA-NR Parameters

Definitions for parameters	Per	М	FDD- TDD DIFF	FR1- FR2 DIFF
tx-Sidelink-r16Indicates whether the UE supports sidelink transmission on the band.For NR sidelink, this field is only applicable if the UE supports at least one of sl-TransmissionMode1-r16 and sl-TransmissionMode2-r16 on the band.	Band	No	N/A	N/A
rx-Sidelink-r16 Indicates whether the UE supports sidelink reception on the band. For NR sidelink, this field is only applicable if the UE supports <i>sl-Reception-r16</i> on the band.	Band	No	N/A	N/A
<i>sl-CrossCarrierScheduling-r16</i> Indicates whether the UE supports monitoring DCI format 3_0 on a different carrier from sidelink for NR sidelink dynamic scheduling and configured grant type 2. If the UE indicates support for <i>sl-TransmissionMode1-r16</i> in a band indicated with only the PC5 interface in Table 5.2E.1-1 of 38.101-1 [2], the UE shall indicate that <i>sl-CrossCarrierScheduling-r16</i> is supported for a band combination with that band. For NR sidelink, this field is only applicable if the UE supports <i>sl-TransmissionMode1-r16</i> on the band.	Band	No	N/A	N/A

4.2.16.2 Sidelink Parameters in E-UTRA

Descriptions for parameters	Per	Μ	FDD- TDD DIFF
supportedBandListSidelinkEUTRA-r16	UE	No	No
Indicates E-UTRA frequency bands supported for V2X sidelink communications and parameters supported for each frequency band, as specified in 4.2.16.2.1.			

4.2.16.2.1 BandSideLinkEUTRA parameters

Descriptions for parameters	Per	Μ	FDD- TDD DIFF
 gnb-ScheduledMode3SidelinkEUTRA-r16 Indicates whether transmitting V2X sidelink communication mode 3 scheduled by NR Uu is supported. If supported, this parameter indicates the support of the capabilities and includes the parameters as follows: the UE can be scheduled by gNB using DCI format 3_1 for V2X sidelink mode 3 transmission. gnb-ScheduledMode3DelaySidelinkEUTRA, which indicates the minimum value UE supports for the additional time indicated in the NR DCI scheduling V2X sidelink mode 3. Value ms0 corresponds to 0 ms, ms0dot25 corresponds to 0.25 ms, and so on. 	Band	No	N/A
This field is only applicable if the UE supports V2X sidelink communication. gnb-ScheduledMode4SidelinkEUTRA-r16	Band	No	N/A
Indicates whether the UE can be scheduled by gNB for V2X sidelink mode 4 transmission. This field is only applicable if the UE supports V2X sidelink communication.			

4.2.17 SON parameters

Definitions for parameters	Per	М	FDD- TDD DIFF	FR1- FR2 DIFF
rach-Report-r16	UE	No	No	No
Indicates whether the UE supports delivery of rachReport upon request from the network.				

4.2.18 UE-based performance measurement parameters

Definitions for parameters	Per	м	FDD- TDD DIFF	FR1- FR2 DIFF
<i>barometerMeasReport-r16</i> Indicates whether UE supports uncompensated barometeric pressure measurement reporting upon request from the network.	UE	No	No	No
<i>immMeasBT-r16</i> Indicates whether the UE supports Bluetooth measurements in RRC_CONNECTED state.	UE	No	No	No
<i>immMeasWLAN-r16</i> Indicates whether the UE supports WLAN measurements in RRC_CONNECTED state.	UE	No	No	No
IoggedMeasBT-r16 Indicates whether the UE supports Bluetooth measurements in RRC_IDLE and RRC_INACTIVE state.	UE	No	No	No
loggedMeasurements-r16 Indicates whether the UE supports logged measurements in RRC_IDLE and RRC_INACTIVE. A UE that supports logged measurements shall support both periodical logging and event-triggered logging. The memory size of MDT logged measurements is 64KB.	UE	No	No	No
IoggedMeasWLAN-r16 Indicates whether the UE supports WLAN measurements in RRC_IDLE and RRC_INACTIVE state.	UE	No	No	No
orientationMeasReport-r16 Indicates whether the UE supports orientation information reporting upon request from the network.	UE	No	No	No
<i>speedMeasReport-r16</i> Indicates whether the UE supports speed information reporting upon request from the network.	UE	No	No	No
<i>gnss-Location-r16</i> Indicates whether the UE is equipped with a GNSS or A-GNSS receiver that may be used to provide detailed location information along with SON or MDT related measurements in RRC_CONNECTED, RRC_IDLE and RRC_INACTIVE.	UE	No	No	No
<i>ulPDCP-Delay-r16</i> Indicates whether the UE supports UL PDCP Packet Average Delay measurement (as specified in TS 38.314 [26]) and reporting in RRC_CONNECTED state.	UE	No	No	No

4.2.19 High speed parameters

Definitions for parameters	Per	М	FDD- TDD DIFF	FR1- FR2 DIFF
<i>measurementEnhancement-r16</i> Indicates whether the UE supports the enhanced intra-NR and inter-RAT E-UTRAN RRM requirements to support high speed up to 500 km/h as specified in TS 38.133 [5]. This field applies to MN configured measurement enhancement when MR-DC is not configured and SN configured measurement enhancement when (NG)EN-DC is configured.	UE	No	No	FR1 only
<i>demodulationEnhancement-r16</i> Indicates whether the UE supports the enhanced demodulation processing for HST-SFN joint transmission scheme with velocity up to 500km/h as specified in TS 38.101-4 [18]. This field applies to MN configured demodulation enhancement when MR-DC is not configured and SN configured demodulation enhancement when (NG)EN-DC is configured.	UE	No	No	FR1 only
<i>intraNR-MeasurementEnhancement-r16</i> Indicates whether the UE supports the enhanced intra-NR RRM requirements to support high speed up to 500 km/h as specified in TS 38.133 [5]. This field applies to MN configured measurement enhancement when MR-DC is not configured and SN configured measurement enhancement when (NG)EN-DC is configured. The UE can include this field only if the UE does not indicate the support of <i>measurementEnhancement-r16</i> and <i>interRAT-MeasurementEnhancement-r16</i> . Otherwise, the UE does not include this field.	UE	No	No	FR1 only
<i>interRAT-MeasurementEnhancement-r16</i> Indicates whether the UE supports the enhanced inter-RAT E-UTRAN RRM requirements to support high speed up to 500 km/h as specified in TS 38.133 [5]. This field applies to MN configured measurement enhancement. The UE can include this field only if the UE does not indicate the support of <i>measurementEnhancement-r16</i> and <i>intraNR-MeasurementEnhancement-r16</i> . Otherwise, the UE does not include this field.	UE	No	No	FR1 only

5 Optional features without UE radio access capability parameters

5.1 PWS features

Definitions for feature

CMAS

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

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 [21] 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 [21] 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].

5.4 Other features

Definitions for feature

Segmentation for UE capability information

It is optional for UE to support segmentation of UECapabilityInformation as specified in TS 38.331 [9].

eCall over IMS

It is optional for UE to support eCall over IMS as specified in TS 38.331 [9].

Access Category 1 selection assistance information enhancement

It is optional for UE that is configured for delay tolerant service to support Access Category 1 selection assistance information enhancement, according to *uac-AC1-SelectAssistInfo-r16* as specified in TS 38.331 [9].

Random access prioritization for MPS and MCS

It is optional for UE that is configured for MPS or MCS to support random access prioritization for Access Identity 1 or 2 as specified in TS 38.321 [8].

5.5 Sidelink Features

Definitions for feature

Short-term time-scale TDM for in-device coexistence

It is optional for UE to support prioritization between LTE sidelink transmission/reception and NR sidelink transmission/reception.

This field is only applicable if the UE supports at least one of *sl-Reception-r16*, *sl-TransmissionMode1-r16* and *sl-TransmissionMode2-r16*, and if the UE supports V2X sidelink communication in the band combination.

Rank 2 PSSCH transmission

It is optional for UE to support rank 2 PSSCH transmission. This field is only applicable if the UE supports *csi-ReportSidelink-r16* with *csi-RS-PortsSidelink* = p2.

5.6 RRM measurement features

Definitions for feature

Relaxed measurement

It is optional for UE to support relaxed RRM measurements of neighbour cells in RRC_IDLE/RRC_INACTIVE as specified in TS 38.304 [21].

5.7 MDT and SON features

Definitions for feature

Mobility history information storage It is optional for UE to support the storage of mobility history information and the reporting in *UEInformationResponse* message as specified in TS 38.331 [9].

Cross RAT RLF Report

It is optional for UE to support the delivery of EUTRA RLF report to an NR node upon request from the network. Radio Link Failure Report for inter-RAT MRO EUTRA

It is optional for UE to support:

- Inclusion of EUTRA CGI and associated TAC, if available, and otherwise to include the physical cell identity and carrier frequency of the target PCell of the failed handover as *failedPCellId* in *RLF-Report* upon request from the network as specified in TS 38.331 [9].
- Inclusion of EUTRA CGI and associated TAC as previous PCellId in RLF-Report as specified in TS 38.331 [9].
- Inclusion of *eutraReconnectCellId* in *reconnectCellId* in the *RLF-Report* as specified in TS 38.331 [9] upon UE has radio link failure or handover failure and successfully re-connected to an E-UTRA cell.

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.
MAC subheaders with one-octet eLCID field	It is mandatory to support MAC subheaders with one-octet eLCID field for UEs/IAB-MTs supporting MAC CEs using extended LCID values as specified in TS 38.321 [8].

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. NOTE 1 NOTE 3
#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
#minCellperMeasObj ectUTRA-FDD	The minimum number of neighbour cells that a UE shall be able to store associated with a MeasObjectUTRA-FDD.	32
RLC entity(i NOTE 2: In case of C UE is reque (# minCellpot	C entity, the maximum number of DRBs configured es) associated with this MAC entity is 8. CI reporting, the limit regarding the cells configure sted to report CGI i.e. the amount of neighbour cel erMeasObjectRAT - 1), where RAT represents NR ment is applicable in NR SA, NR-DC and NE-DC.	d includes the cell for which the Is that can be included is at most

Annex A (normative): Differentiation of capabilities

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 | Classification | | |
|--|-----------------------------------|--|--|
| 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 | | |
| secondaryDRX-Group-r16 | All serving cells | | |
| 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 includi | ng the serving cell(s) configured | | |
| with configured grant. | | | |
| NOTE 2: For a given logical channel, the ass | | | |
| PUCCH cell(s) associated with this | logical channel (via | | |
| schedulingRequestID). | | | |
| NOTE 3: The associated serving cells includi | | | |
| command and the cell applying the | command. | | |

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

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
drx-Adaptation-r16	PCell
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 a	
that supports Ich-ToSCellRestriction	
serving cells includes the serving c	ells indicated by
allowedServingCells for the LCH.	
NOTE 2: The associated serving cells include	
command and the cell applying the	e command.

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

A.3: TDD/FDD differentiation of capabilities for sidelink

Annex A.3 specifies for which TDD and FDD serving cells for Uu interface and carrier for PC5 interface a UE supporting sidelink shall support a feature/capability for which it indicates support within the capability signalling.

A UE that indicates support for sidelink:

- 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) for Uu interface, as specified in tables A.3-1 in accordance to the following rules:
 - 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;
 - 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) for Uu interface and carrier for PC5 interface if the UE indicates support of the feature via the common capability bit.

Table A.3-1: Rel-16 UE capabilities for which FDD/TDD differentiation is allowed

Sidelink Parameter	Classification
logicalChannelSR-DelayTimerSidelink(Note1)	Associated serving cells
multipleSR-ConfigurationsSidelink	Per serving cell
NOTE 1: For a given logical channel, the assoc PUCCH cell(s) associated with this lo	
schedulingRequestID).	3

A.4: Sidelink capabilities applicable to Uu and PC5

Annex A.4 specifies for each sidelink related capability, in which interface (i.e., *UECapabilityInformation* in Uu RRC and *UECapabilityInformation*Sidelink in PC5 RRC) a UE supporting sidelink shall report the concerned capability:

- UECapabilityInformation: the concerned sidelink capability is reported within UECapabilityInformation;
- UECapabilityInformationSidelink: the concerned sidelink capability is reported within UECapabilityInformationSidelink;

Table A.4-1: Sidelink capability reported in UECapabilityInformation/ UECapabilityInformationSidelink

Sidelink Parameter	UECapabilityInformation	UECapabilityInformationSidelink
accessStratumReleaseSi		X
delink		
outOfOrderDeliverySideli		Х
nk		
am-WithLongSN-Sidelink	Х	Х
um-WithLongSN-Sidelink	Х	Х
Icp-RestrictionSidelink	Х	
logicalChannelSR-	Х	
DelayTimerSidelink		
multipleSR-	Х	
ConfigurationsSidelink		
multipleConfiguredGrants	Х	
Sidelink		
supportedBandCombinati	Х	
onListSidelinkEUTRA-NR		
supportedBandCombinati		Х
onListSidelinkNR		
gnb-	Х	
ScheduledMode3Sidelink		
EUTRA		
gnb-	Х	
ScheduledMode4Sidelink		
EUTRA		
sl-Reception	Х	Х
sl-TransmissionMode1	Х	
sl-TransmissionMode2	Х	
sync-Sidelink	Х	
congestionControlSidelin	Х	
k		
sl-Tx-256QAM	Х	Х
sl-Rx-256QAM	Х	X
psfch-	Х	
FormatZeroSidelink		
lowSE-64QAM-MCS-	Х	X
TableSidelink		
csi-ReportSidelink		Х
enb-sync-Sidelink	Х	
rankTwoReception		X
fewerSymbolSlotSidelink	Х	
sl-openLoopPC-RSRP-	Х	Х
ReportSidelink		
tx-Sidelink	Х	
rx-Sidelink	Х	
ue-PowerClassSidelink	Х	

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 table 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
activeConfiguredGrant-r16	Triggered serving cell
aperiodicTRS	Triggered serving cell
beamSwitchTiming, beamSwitchTiming-r16	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
crossCarrierSchedulingProcessing-DiffSCS-r16	Triggering&Triggered serving cells
(NOTE 2)	
dynamicSFI-r16	Triggering&Triggered serving cells
jointReleaseConfiguredGrantType2-r16	Triggered serving cell
jointReleaseSPS-r16	Triggered serving cell
pdcch-MonitoringAnyOccasionsWithSpanGap	Triggering&Triggered serving cells
(NOTE 3)	
sps-r16	Triggered serving cell
ue-SpecificUL-DL-Assignment	Triggering&Triggered serving cells
ul-CancellationCrossCarrier-r16	Triggering&Triggered serving cells
NOTE 1: For bwp-DiffNumerology and bwp-San	
	cated number for this band regardless of
whether it is a scheduling cell or sched	
	g-DiffSCS-r16, if reported value is different
	ggered/indicated cell and the band of the
scheduling/triggering/indicating cell, th	
scheduling/triggering/indicating cell is	
	with the same SCS in the scheduling cell and
the scheduled cell. If the reported valu	
	the band of the scheduling/triggering/indicating
cell, the value reported for the schedul	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.

5	Support 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' FR1 TDD: 'supported'	Not included	Included	Not included	Included	Not included	Not included
	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 UE of	capability signalling	g does not support	the UE capability	indication for this c	ase.
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' FR1 TDD: 'supported' FR2 TDD: 'not supported'	Included	Not included	Not included	Not included	Included	Not included
		Not included	Not included	Not included	Not included	Included	Not included

Annex C (informative): Change history

-				-		Change history	
Date	Meetin g	TDoc	CR	Rev	Cat	Subject/Comment	New version
06/2017		R2-1704810				First version	0.0.1
06/2017		R2-1707386					0.0.2
08/2017	RAN2# 99	R2-1708750					0.0.3
12/2017		R2-1712587					0.0.4
12/2017		R2-1714141					0.0.5
12/2017		R2-1714271					0.1.0
12/2017	RP-78	RP-172521				Submitted to RAN#78 for approval	1.0.0
12/2017	RP-78					Upgraded to Rel-15	15.0.0
03/2018	RP-79	RP-180440	0003	3	F	Updates on UE capabilities	15.1.0
06/2018		RP-181216	0009	2	В	Introduce ANR in NR	15.2.0
	RP-80	RP-181216	0012	1	F	Miscellaneous corrections	15.2.0
		RP-181216	0013	-	В	Delay budget report and MAC CE adaptation for NR for TS 38.306	15.2.0
09/2018		RP-181940	8000	4	F	Correction on total layer2 buffer size	15.3.0
		RP-181942	0024	1	F	Introduction of UE capability constraints	15.3.0
		RP-181942	0030	-	F	38.306 corrections and cleanup	15.3.0
12/2018	-	RP-182651	0016	4	F	Clarification for Interruption-based and gap-based SFTD measurement	15.4.0
		RP-182653	0033	1	F	Timer based BWP switching	15.4.0
		RP-182652	0035	2	F	Additional UE capabilities for NR standalone	15.4.0
	RP-82	RP-182651	0037	1	F	Clarification to UE capability of independentGapConfig for inter-RAT	15.4.0
						NR measurement not yet configured with EN-DC	
		RP-182661	0038	2	F	Update of L2 capability parameters	15.4.0
		RP-182660	0047	2	F	Clarification on physical layer parameters of UE capability	15.4.0
		RP-182666	0050	3	F	Introduce RRC buffer size in NR	15.4.0
		RP-182664	0051	2	F	Clarification of multipleConfiguredGrants	15.4.0
		RP-182664	0052	2	F	CR to 38.306 for PDCP CA duplication for SRB	15.4.0
		RP-182661	0054	1	F	UE capability handling for FDD/TDD and FR1/FR2	15.4.0
		RP-182663	0057	1	F	Clarify for per CC UL/DL modulation order capabilities	15.4.0
		RP-182664	0058	1	F	Inter-frequency handover capability	15.4.0
		RP-182665	0060	3	F	UE capability on PA architecture	15.4.0
		RP-182661	0062	1	F	CR on signaling contiguous and non-contiguous EN-DC capability	15.4.0
		RP-182813	0063	6	F	Update of UE capabilities	15.4.0
		RP-182662	0065	2	F	Introduction of SRS switching capability	15.4.0
		RP-182667	0068	2	B F	CR on introduction of UE overheating support in NR SA scenario	15.4.0
03/2019	RP-82 RP-83	RP-182664 RP-190634	0071 0073	-	F	Introduction of SRS switching capability Capability for aperiodic CSI-RS triggering with different numerology between PDCCH and CSI-RS	15.4.0 15.5.0
	RP-83	RP-190542	0074	1	F	Layer-1 capability update	15.5.0
		RP-190545	0075	2	F	CR to 38.306 on introducing nr-CGI-Reporting-ENDC	15.5.0
		RP-190545	0086	2	F	CR to clarify intra-NR handover capabilities	15.5.0
		RP-190546	0088	3	F	Clarification for PDSCHs and PUSCHs per slot for different TBs for UE capable of processing time capability 1	15.5.0
	RP-83	RP-190542	0092	2	F	Correction to mandatory supported capability signaling	15.5.0
	RP-83	RP-190542	0097	2	F	Miscellaneous corrections	15.5.0
	RP-83	RP-190545	0098	2	F	Correction on supportedBandwidthCombinationSetEUTRA-v1530 usage	15.5.0
	RP-83	RP-190543	0099	-	F	Clarification on signaling the bandwidth class	15.5.0
	RP-83	RP-190545	0100	1	F	Clarification on Frequency Separation Class	15.5.0
	RP-83	RP-190544	0101	-	F	CR on Processing delay requirements for RRC Resume procedures in TS 38.306	15.5.0
06/2019	RP-84	RP-191375	0094	1	F	CR to clarify ul-TimingAlignmentEUTRA-NR	15.6.0
		RP-191373	0108	-	F	Layer-1, RF and RRM capability updates	15.6.0
		RP-191373	0109	-	F	Clarification on UE capability of Ich-ToSCellRestriction	15.6.0
		RP-191379	0110	2	F	Correction on description of additionalActiveSpatialRelationPUCCH	15.6.0
		RP-191378	0111	1	F	Clarification on csi-RS-CFRA-ForHO	15.6.0
		RP-191379	0114	2	F	CR on capability of maxUplinkDutyCycle for FR2	15.6.0
		RP-191380	0115	2	F	38.306 miscellaneous corrections	15.6.0
		RP-191378	0116	1	В	38.306 CR for late drop	15.6.0
		RP-191381	0118	4	F	Clarification on supported modulation order capability	15.6.0
		RP-191374	0119	-	F	Correction to PDCP parameters	15.6.0
		RP-191381	0121	3	F	Corrections to UE Capability definitions	15.6.0
		RP-191378	0122	1	F	38.306 Clarification on multiple TA capabilities	15.6.0
1	RP-84	RP-191379	0123	2	F	CR to clarify non-codebook based PUSCH transmission	15.6.0

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	RP-84	RP-191380	0124	3	F	Clarification on pdsch-ProcessingType2	15.6.0
	RP-84	RP-191378	0125	1	F	Clarification on present of tci-StatePDSCH	15.6.0
		RP-191378	0126	1	F	Clarification on SA fallback BC support	15.6.0
	RP-84	RP-191375	0128	-	F	Correction to Beam Correspondence for CA	15.6.0
	RP-84	RP-191379	0130	2	F	Correction on the number of DRB in UE Capability Constraints	15.6.0
	RP-84 RP-84	RP-191379 RP-191376	0132 0133	1 -	F F	CR to capture UE supported DL/UL bandwidths UE capability signalling for FD-MIMO processing capabilities for EN-	15.6.0 15.6.0
	RP-84	RP-191376	0134	-	F	DC Modified UE capability on different numerologies within the same	15.6.0
	RP-84	RP-191554	0135	-	F	PUCCH group Removal of "Capability for aperiodic CSI-RS triggering with different	15.6.0
			<u> </u>			numerology between PDCCH and CSI-RS"	
09/2019	RP-85	RP-192196	0136	1	С	Additional capability signalling for 1024QAM support	15.7.0
	RP-85	RP-192191	0142	1	В	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-192194	0151			Clarifying UE capability freqHoppingPUCCH-F0-2 and 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-192192	0153	2	F	Miscellaneous corrections	15.7.0
	RP-85 RP-85	RP-192190 RP-192193	0154	- 2	F F	Capability of measurement gap patterns Correction to IMS capability	15.7.0
	RP-85	RP-192193 RP-192194	0155 0156	2	F	UE Capabilities covering across all serving cells	15.7.0 15.7.0
	RP-85	RP-192194 RP-192190	0167	-	F	Clarification on UE capability on different numerologies within the	15.7.0
	RP-85	RP-192193	0168	1	F	same PUCCH group 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 between PCell and PSCell	15.7.0
12/2019	RP-86	RP-192934	0185	1	F	Clarification on the restriction of maximum SRS resource sets configuration for uplink beam management.	15.8.0
	RP-86	RP-192936	0186	3	F	Miscellaneous corrections on UE capability fields	15.8.0
	RP-86	RP-192935	0180	1	F	Corrections on PDCCH blind decoding in NR-DC	15.8.0
		RP-192937	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-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	NE-DC dynamic power sharing capability	15.8.0
	RP-86	RP-192935	0219	-	F	Clarification on crossCarrierScheduling-OtherSCS in R15	15.8.0
	RP-86	RP-192937	0220	-	F	Correction on ambiguity of UE FDD/TDD FR1/FR2 capabilities	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 on BWCS for inter-ENDC BC with intra-ENDC BC (38.306)	15.9.0
		RP-200335	0209	5	F	CR to 38.306 on support of 70MHz channel bandwidth	15.9.0
		RP-200334	0236	-	F	Correction on SRB capability in NR-DC	15.9.0
		RP-200335	0248		_		
	RP-87			2	F	Data rate for the case of single carrier standalone operation	15.9.0
	-	RP-200334	0254	1	F	CR on the maximum stored number of deprioritisation frequencies	15.9.0
	RP-87	RP-200335	0254 0255	1 2	F F	CR on the maximum stored number of deprioritisation frequencies Miscellaneous Corrections to UE capability parameters	15.9.0 15.9.0
03/2020	-		0254	1	F	CR on the maximum stored number of deprioritisation frequencies Miscellaneous Corrections to UE capability parameters UE capability of intra-band requirements for inter-band EN-DC/NE-DC CR on capability of maxUplinkDutyCycle for inter-band EN-DC PC2	15.9.0
03/2020	RP-87 RP-87 RP-87	RP-200335 RP-200335 RP-200356	0254 0255 0259 0145	1 2 1 1	F F F	CR on the maximum stored number of deprioritisation frequencies Miscellaneous Corrections to UE capability parameters UE capability of intra-band requirements for inter-band EN-DC/NE-DC CR on capability of maxUplinkDutyCycle for inter-band EN-DC PC2 UE	15.9.0 15.9.0 15.9.0 16.0.0
03/2020	RP-87 RP-87 RP-87 RP-87	RP-200335 RP-200335 RP-200356 RP-200335	0254 0255 0259 0145 0214	1 2 1 1 2	F F F F	CR on the maximum stored number of deprioritisation frequencies Miscellaneous Corrections to UE capability parameters UE capability of intra-band requirements for inter-band EN-DC/NE-DC CR on capability of maxUplinkDutyCycle for inter-band EN-DC PC2 UE Correction on beamSwitchTiming values of 224 and 336	15.9.0 15.9.0 15.9.0 16.0.0 16.0.0
03/2020	RP-87 RP-87 RP-87 RP-87 RP-87	RP-200335 RP-200335 RP-200356 RP-200335 RP-200335	0254 0255 0259 0145 0214 0223	1 2 1 1 2 2 1	F F F F C	CR on the maximum stored number of deprioritisation frequencies Miscellaneous Corrections to UE capability parameters UE capability of intra-band requirements for inter-band EN-DC/NE-DC CR on capability of maxUplinkDutyCycle for inter-band EN-DC PC2 UE Correction on beamSwitchTiming values of 224 and 336 Inclusion of 90MHz UE Bandwidth	15.9.0 15.9.0 15.9.0 16.0.0 16.0.0 16.0.0
03/2020	RP-87 RP-87 RP-87 RP-87 RP-87 RP-87	RP-200335 RP-200335 RP-200356 RP-200335 RP-200335 RP-200358	0254 0255 0259 0145 0214 0223 0226	1 2 1 1 2 1 2	F F F F C B	CR on the maximum stored number of deprioritisation frequencies Miscellaneous Corrections to UE capability parameters UE capability of intra-band requirements for inter-band EN-DC/NE-DC CR on capability of maxUplinkDutyCycle for inter-band EN-DC PC2 UE Correction on beamSwitchTiming values of 224 and 336 Inclusion of 90MHz UE Bandwidth Introducing autonomous gap in CGI reporting	15.9.0 15.9.0 15.9.0 16.0.0 16.0.0 16.0.0 16.0.0
03/2020	RP-87 RP-87 RP-87 RP-87 RP-87	RP-200335 RP-200335 RP-200356 RP-200335 RP-200335	0254 0255 0259 0145 0214 0223	1 2 1 1 2 2 1	F F F F C	CR on the maximum stored number of deprioritisation frequencies Miscellaneous Corrections to UE capability parameters UE capability of intra-band requirements for inter-band EN-DC/NE-DC CR on capability of maxUplinkDutyCycle for inter-band EN-DC PC2 UE Correction on beamSwitchTiming values of 224 and 336 Inclusion of 90MHz UE Bandwidth Introducing autonomous gap in CGI reporting UE capability for IDC Introduction of Cross Link Interference (CLI) handling and Remote	15.9.0 15.9.0 15.9.0 16.0.0 16.0.0 16.0.0
03/2020	RP-87 RP-87 RP-87 RP-87 RP-87 RP-87 RP-87 RP-87	RP-200335 RP-200335 RP-200356 RP-200335 RP-200335 RP-200358 RP-200357 RP-200340	0254 0255 0259 0145 0214 0223 0226 0229 0230	1 2 1 1 2 1 2 -	F F F C B B B	CR on the maximum stored number of deprioritisation frequencies Miscellaneous Corrections to UE capability parameters UE capability of intra-band requirements for inter-band EN-DC/NE-DC CR on capability of maxUplinkDutyCycle for inter-band EN-DC PC2 UE Correction on beamSwitchTiming values of 224 and 336 Inclusion of 90MHz UE Bandwidth Introducing autonomous gap in CGI reporting UE capability for IDC Introduction of Cross Link Interference (CLI) handling and Remote Interference Management (RIM)	15.9.0 15.9.0 15.9.0 16.0.0 16.0.0 16.0.0 16.0.0 16.0.0 16.0.0
03/2020	RP-87 RP-87 RP-87 RP-87 RP-87 RP-87 RP-87 RP-87 RP-87	RP-200335 RP-200335 RP-200356 RP-200357 RP-200358 RP-200357 RP-200358 RP-200358	0254 0255 0259 0145 0214 0223 0226 0229 0230	1 2 1 1 2 1 2 - -	F F F C B B B C	CR on the maximum stored number of deprioritisation frequencies Miscellaneous Corrections to UE capability parameters UE capability of intra-band requirements for inter-band EN-DC/NE-DC CR on capability of maxUplinkDutyCycle for inter-band EN-DC PC2 UE Correction on beamSwitchTiming values of 224 and 336 Inclusion of 90MHz UE Bandwidth Introducing autonomous gap in CGI reporting UE capability for IDC Introduction of Cross Link Interference (CLI) handling and Remote Interference Management (RIM) Introduction of EPS voice fallback enhancement	15.9.0 15.9.0 15.9.0 16.0.0 16.0.0 16.0.0 16.0.0 16.0.0 16.0.0 16.0.0
03/2020	RP-87 RP-87 RP-87 RP-87 RP-87 RP-87 RP-87 RP-87 RP-87 RP-87	RP-200335 RP-200335 RP-200356 RP-200357 RP-200358 RP-200357 RP-200340 RP-200358 RP-200358 RP-200358 RP-200358 RP-200358	0254 0255 0259 0145 0214 0223 0226 0229 0230 0233 0235	1 2 1 2 1 2 - - - 1 -	F F F C B B C B	CR on the maximum stored number of deprioritisation frequencies Miscellaneous Corrections to UE capability parameters UE capability of intra-band requirements for inter-band EN-DC/NE-DC CR on capability of maxUplinkDutyCycle for inter-band EN-DC PC2 UE Correction on beamSwitchTiming values of 224 and 336 Inclusion of 90MHz UE Bandwidth Introducing autonomous gap in CGI reporting UE capability for IDC Introduction of Cross Link Interference (CLI) handling and Remote Interference Management (RIM) Introduction of SRVCC from 5G to 3G	15.9.0 15.9.0 15.9.0 16.0.0 16.0.0 16.0.0 16.0.0 16.0.0 16.0.0 16.0.0 16.0.0 16.0.0 16.0.0 16.0.0 16.0.0
03/2020	RP-87 RP-87 RP-87 RP-87 RP-87 RP-87 RP-87 RP-87 RP-87	RP-200335 RP-200335 RP-200356 RP-200357 RP-200358 RP-200357 RP-200358 RP-200358 RP-200358 RP-200358 RP-200358 RP-200358 RP-200358 RP-200358	0254 0255 0259 0145 0214 0223 0226 0229 0230	1 2 1 1 2 1 2 - -	F F F C B B B C	CR on the maximum stored number of deprioritisation frequencies Miscellaneous Corrections to UE capability parameters UE capability of intra-band requirements for inter-band EN-DC/NE-DC CR on capability of maxUplinkDutyCycle for inter-band EN-DC PC2 UE Correction on beamSwitchTiming values of 224 and 336 Inclusion of 90MHz UE Bandwidth Introducing autonomous gap in CGI reporting UE capability for IDC Introduction of Cross Link Interference (CLI) handling and Remote Interference Management (RIM) Introduction of SRVCC from 5G to 3G Introduction of DL RRC segmentation	15.9.0 15.9.0 15.9.0 16.0.0 16.0.0 16.0.0 16.0.0 16.0.0 16.0.0 16.0.0 16.0.0 16.0.0 16.0.0 16.0.0 16.0.0 16.0.0 16.0.0
03/2020	RP-87 RP-87 RP-87 RP-87 RP-87 RP-87 RP-87 RP-87 RP-87 RP-87	RP-200335 RP-200335 RP-200356 RP-200357 RP-200358 RP-200357 RP-200340 RP-200358 RP-200358 RP-200358 RP-200358 RP-200358	0254 0255 0259 0145 0214 0223 0226 0229 0230 0233 0235 0243	1 2 1 2 1 2 - - - 1 - 1 1	F F F C B B B B B B B B B	CR on the maximum stored number of deprioritisation frequencies Miscellaneous Corrections to UE capability parameters UE capability of intra-band requirements for inter-band EN-DC/NE-DC CR on capability of maxUplinkDutyCycle for inter-band EN-DC PC2 UE Correction on beamSwitchTiming values of 224 and 336 Inclusion of 90MHz UE Bandwidth Introducing autonomous gap in CGI reporting UE capability for IDC Introduction of Cross Link Interference (CLI) handling and Remote Interference Management (RIM) Introduction of SRVCC from 5G to 3G Introduction of DL RRC segmentation Introduction of downgraded configuration for SRS antenna switching Recommended Bit Rate/Query for FLUS and MTSI	15.9.0 15.9.0 15.9.0 16.0.0 16.0.0 16.0.0 16.0.0 16.0.0 16.0.0 16.0.0 16.0.0 16.0.0 16.0.0 16.0.0 16.0.0
03/2020	RP-87 RP-87 RP-87 RP-87 RP-87 RP-87 RP-87 RP-87 RP-87 RP-87 RP-87	RP-200335 RP-200335 RP-200356 RP-200357 RP-200358 RP-200357 RP-200358 RP-200358 RP-200358 RP-200358 RP-200358 RP-200358 RP-200358 RP-200358 RP-200358	0254 0255 0259 0145 0214 0223 0226 0229 0230 0233 0235 0243 0258	1 2 1 2 1 2 - - - - 1 1 - 1 1 1	F F F C B B B C B B B B B B B	CR on the maximum stored number of deprioritisation frequencies Miscellaneous Corrections to UE capability parameters UE capability of intra-band requirements for inter-band EN-DC/NE-DC CR on capability of maxUplinkDutyCycle for inter-band EN-DC PC2 UE Correction on beamSwitchTiming values of 224 and 336 Inclusion of 90MHz UE Bandwidth Introducing autonomous gap in CGI reporting UE capability for IDC Introduction of Cross Link Interference (CLI) handling and Remote Interference Management (RIM) Introduction of SRVCC from 5G to 3G Introduction of DL RRC segmentation Introduction of downgraded configuration for SRS antenna switching Recommended Bit Rate/Query for FLUS and MTSI Introduction of UE capability indicator of supporting inter-RAT	15.9.0 15.9.0 15.9.0 16.0.0 16.0.0 16.0.0 16.0.0 16.0.0 16.0.0 16.0.0 16.0.0 16.0.0 16.0.0 16.0.0 16.0.0 16.0.0 16.0.0 16.0.0 16.0.0
	RP-87 RP-87 RP-87 RP-87 RP-87 RP-87 RP-87 RP-87 RP-87 RP-87 RP-87 RP-87	RP-200335 RP-200335 RP-200356 RP-200357 RP-200358 RP-200357 RP-200358	0254 0255 0259 0145 0214 0223 0226 0229 0230 0233 0235 0235 0243 0258 0260 0261	1 2 1 2 - - - - - - - - - - - - - - - -	F F F C B B B B B B B B B B B	CR on the maximum stored number of deprioritisation frequencies Miscellaneous Corrections to UE capability parameters UE capability of intra-band requirements for inter-band EN-DC/NE-DC CR on capability of maxUplinkDutyCycle for inter-band EN-DC PC2 UE Correction on beamSwitchTiming values of 224 and 336 Inclusion of 90MHz UE Bandwidth Introducing autonomous gap in CGI reporting UE capability for IDC Introduction of Cross Link Interference (CLI) handling and Remote Interference Management (RIM) Introduction of SRVCC from 5G to 3G Introduction of DL RRC segmentation Introduction of DL RRC segmentation Introduction of UE capability indicator of supporting inter-RAT handover from NR to EN-DC in 38.306.	15.9.0 15.9.0 15.9.0 16.0.0 16.0.0 16.0.0 16.0.0 16.0.0 16.0.0 16.0.0 16.0.0 16.0.0 16.0.0 16.0.0 16.0.0 16.0.0 16.0.0 16.0.0 16.0.0 16.0.0 16.0.0 16.0.0
03/2020	RP-87 RP-87 RP-87 RP-87 RP-87 RP-87 RP-87 RP-87 RP-87 RP-87 RP-87 RP-87	RP-200335 RP-200335 RP-200356 RP-200357 RP-200358 RP-200357 RP-200358	0254 0255 0259 0145 0214 0223 0226 0229 0230 0233 0235 0243 0258 0260	1 2 1 2 1 2 - - - - 1 1 - 1 1 1	F F F C B B B B B B B B B B B B	CR on the maximum stored number of deprioritisation frequencies Miscellaneous Corrections to UE capability parameters UE capability of intra-band requirements for inter-band EN-DC/NE-DC CR on capability of maxUplinkDutyCycle for inter-band EN-DC PC2 UE Correction on beamSwitchTiming values of 224 and 336 Inclusion of 90MHz UE Bandwidth Introducing autonomous gap in CGI reporting UE capability for IDC Introduction of Cross Link Interference (CLI) handling and Remote Interference Management (RIM) Introduction of EPS voice fallback enhancement Introduction of DL RRC segmentation Introduction of DL RRC segmentation Introduction of UE capability indicator of supporting inter-RAT handover from NR to EN-DC in 38.306. Correction to the serving cell number for ENDC power class	15.9.0 15.9.0 15.9.0 16.0.0 16.0.0 16.0.0 16.0.0 16.0.0 16.0.0 16.0.0 16.0.0 16.0.0 16.0.0 16.0.0 16.0.0 16.0.0 16.0.0 16.0.0 16.0.0 16.0.0 16.0.0
	RP-87 RP-87 RP-87 RP-87 RP-87 RP-87 RP-87 RP-87 RP-87 RP-87 RP-87 RP-87 RP-87 RP-87 RP-87 RP-88 RP-88 RP-88	RP-200335 RP-200335 RP-200356 RP-200357 RP-200358 RP-200357 RP-200358	0254 0255 0259 0145 0214 0223 0226 0229 0230 0233 0235 0243 0258 0260 0261	1 2 1 2 - - - - - - - - - - - - - - - -	F F F C B B B B B B B B A	CR on the maximum stored number of deprioritisation frequencies Miscellaneous Corrections to UE capability parameters UE capability of intra-band requirements for inter-band EN-DC/NE-DC CR on capability of maxUplinkDutyCycle for inter-band EN-DC PC2 UE Correction on beamSwitchTiming values of 224 and 336 Inclusion of 90MHz UE Bandwidth Introducing autonomous gap in CGI reporting UE capability for IDC Introduction of Cross Link Interference (CLI) handling and Remote Interference Management (RIM) Introduction of SRVCC from 5G to 3G Introduction of DL RRC segmentation Introduction of DL RRC segmentation Introduction of UE capability indicator of supporting inter-RAT handover from NR to EN-DC in 38.306.	$\begin{array}{c} 15.9.0\\ 15.9.0\\ 15.9.0\\ 15.9.0\\ 16.0.0\\ 16.0.0\\ 16.0.0\\ 16.0.0\\ 16.0.0\\ 16.0.0\\ 16.0.0\\ 16.0.0\\ 16.0.0\\ 16.0.0\\ 16.0.0\\ 16.0.0\\ 16.1.0\\ \end{array}$
	RP-87 RP-87 RP-87 RP-87 RP-87 RP-87 RP-87 RP-87 RP-87 RP-87 RP-87 RP-87 RP-87 RP-88	RP-200335 RP-200335 RP-200356 RP-200357 RP-200358 RP-200357 RP-200358 RP-20158 RP-20158 RP-20163 RP-201163	0254 0255 0259 0145 0214 0223 0226 0229 0230 0230 0233 0235 0243 0243 0258 0243 0258 0243 0258 0260 0261	1 2 1 2 - - - - 1 1 - - - - - - - - - -	F F F C B B B B B B B B A A	CR on the maximum stored number of deprioritisation frequencies Miscellaneous Corrections to UE capability parameters UE capability of intra-band requirements for inter-band EN-DC/NE-DC CR on capability of maxUplinkDutyCycle for inter-band EN-DC PC2 UE Correction on beamSwitchTiming values of 224 and 336 Inclusion of 90MHz UE Bandwidth Introducing autonomous gap in CGI reporting UE capability for IDC Introduction of Cross Link Interference (CLI) handling and Remote Interference Management (RIM) Introduction of SRVCC from 5G to 3G Introduction of DL RRC segmentation Introduction of downgraded configuration for SRS antenna switching Recommended Bit Rate/Query for FLUS and MTSI Introduction of UE capability indicator of supporting inter-RAT handover from NR to EN-DC in 38.306. Correction to the serving cell number for ENDC power class CR on introduction of BCS to asymmetric channel bandwidths (38.306)	$\begin{array}{c} 15.9.0\\ 15.9.0\\ 15.9.0\\ 15.9.0\\ 16.0.0\\ 16.0.0\\ 16.0.0\\ 16.0.0\\ 16.0.0\\ 16.0.0\\ 16.0.0\\ 16.0.0\\ 16.0.0\\ 16.0.0\\ 16.0.0\\ 16.1.0\\ 16.1.0\\ \end{array}$
	RP-87 RP-87 RP-87 RP-87 RP-87 RP-87 RP-87 RP-87 RP-87 RP-87 RP-87 RP-87 RP-88 RP-88 RP-88 RP-88	RP-200335 RP-200335 RP-200356 RP-200355 RP-200358 RP-200357 RP-200357 RP-200358 RP-200358 RP-200358 RP-200358 RP-200358 RP-200358 RP-200358 RP-201163 RP-201160	0254 0255 0259 0145 0214 0223 0226 0229 0230 0230 0233 0235 0243 0243 0258 0260 0261 0288 0289 0295	1 2 1 2 - - - - - - - - - - - - - - - -	F F F C B B B C B B B B B B B A A A	CR on the maximum stored number of deprioritisation frequencies Miscellaneous Corrections to UE capability parameters UE capability of intra-band requirements for inter-band EN-DC/NE-DC CR on capability of maxUplinkDutyCycle for inter-band EN-DC PC2 UE Correction on beamSwitchTiming values of 224 and 336 Inclusion of 90MHz UE Bandwidth Introducing autonomous gap in CGI reporting UE capability for IDC Introduction of Cross Link Interference (CLI) handling and Remote Interference Management (RIM) Introduction of SRVCC from 5G to 3G Introduction of DL RRC segmentation Introduction of downgraded configuration for SRS antenna switching Recommended Bit Rate/Query for FLUS and MTSI Introduction of UE capability indicator of supporting inter-RAT handover from NR to EN-DC in 38.306. Correction to the serving cell number for ENDC power class CR on introduction of BCS to asymmetric channel bandwidths (38.306) SRS Capability report for SRS only Scell	15.9.0 15.9.0 15.9.0 16.0.0 16.1.0 16.1.0 16.1.0
	RP-87 RP-88 RP-88	RP-200335 RP-200335 RP-200356 RP-200357 RP-200358 RP-200357 RP-200358 RP-200350 RP-200358 RP-20158 RP-20163 RP-201163 RP-201160 RP-201159	0254 0255 0259 0145 0214 0223 0226 0229 0230 0230 0233 0235 0243 0243 0258 0243 0258 0260 0261 0288 0289 0295 0299	1 2 1 2 - - - 1 1 - - 1 - - - - - - - -	F F F C B B B B B B B B B B B A A A A	CR on the maximum stored number of deprioritisation frequencies Miscellaneous Corrections to UE capability parameters UE capability of intra-band requirements for inter-band EN-DC/NE-DC CR on capability of maxUplinkDutyCycle for inter-band EN-DC PC2 UE Correction on beamSwitchTiming values of 224 and 336 Inclusion of 90MHz UE Bandwidth Introducing autonomous gap in CGI reporting UE capability for IDC Introduction of Cross Link Interference (CLI) handling and Remote Interference Management (RIM) Introduction of SRVCC from 5G to 3G Introduction of DL RRC segmentation Introduction of OUL RRC segmentation Introduction of UE capability indicator of supporting inter-RAT handover from NR to EN-DC in 38.306. Correction to the serving cell number for ENDC power class CR on introduction of BCS to asymmetric channel bandwidths (38.306) SRS Capability report for SRS only Scell Clarification on L1 feature of NGEN-DC and NE-DC	15.9.0 15.9.0 15.9.0 16.0.0 16.0.0 16.0.0 16.0.0 16.0.0 16.0.0 16.0.0 16.0.0 16.0.0 16.0.0 16.0.0 16.0.0 16.0.0 16.0.0 16.1.0 16.1.0 16.1.0

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	RP-88	RP-201163	0320	1	A	Missing UE capability requirements	16.1.0
	RP-88	RP-201198	0321	1	С	Introduction of secondary DRX group CR 38.306	16.1.0
		RP-201164	0324	2	A	Correction on UE capability constraints	16.1.0
	RP-88	RP-201183	0328	2	В	UE capability of supporting UL Tx switching	16.1.0
	RP-88	RP-201217	0329	2	В	Release-16 UE capabilities based on RAN1, RAN4 feature lists and RAN2	16.1.0
	RP-88	RP-201163	0330	1	А	Corrections on the number of DRBs	16.1.0
	RP-88	RP-201166	0333	1	F	On the capability of Basic CSI feedback (2-32)	16.1.0
	RP-88	RP-201162	0339	1	A	Clarification on the support of IMS voice over split bearer for NR-DC	16.1.0
						and NE-DC	
	RP-88	RP-201162	0343	1	А	Clarification on maximum number of supported PDSCH Resource	16.1.0
				_		Element mapping patterns	
	RP-88	RP-201164	0344	2	A	Introduction of CGI reporting capabilities	16.1.0
	RP-88	RP-201165	0346	2	A	UE Capability Enhancement for FR1(TDD/FDD) / FR2 CA and DC	16.1.0
	RP-88	RP-201161 RP-201162	0353	-	A	CR on unnecessary XDD FRX differentiation	16.1.0
	RP-88 RP-88	RP-201162 RP-201162	0355 0357	-	A A	Clarification to maxUplinkDutyCycle-FR2 Clarification on L2 and RAN4 feature of NGEN-DC and NE-DC	16.1.0 16.1.0
	RP-88	RP-201162 RP-201163	0360	1	A	Correction on UE capability signalling for simultaneous SRS antenna	16.1.0
	111-00	101-201103	0300		^	and carrier switching	10.1.0
	RP-88	RP-201163	0362	-	А	Correction on UE capabilities with xDD and FRx differentiations	16.1.0
	RP-88	RP-201166	0363	-	С	Missing reportAddNeighMeas in periodic measurement reporting	16.1.0
09/2020	RP-89	RP-201932	0370	2	B	Release-16 UE capabilities based on RAN1, RAN4 feature lists and	16.2.0
						RAN2 corrections	
	RP-89	RP-201938	0378	1	А	Corrections on UE capability constraints	16.2.0
	RP-89	RP-201932	0382	1	F	Correction on beamSwitchTiming values of 224 and 336	16.2.0
	RP-89	RP-201924	0383	2	F	Update to IAB-MT capabilities	16.2.0
	RP-89	RP-201937	0387	1	F	Clarification on PDSCH rate-matching capabilities	16.2.0
	RP-89	RP-201937	0389	2	А	Corrections on the capabilities associated with multiple bands/Cells	16.2.0
	RP-89	RP-201989	0393	2	F	Correction on PRS measurement gap capability	16.2.0
	RP-89	RP-201938	0402	2	F	Clarification on the extended capability of NGEN-DC	16.2.0
	RP-89	RP-201962	0407	1	F	Miscellaneous corrections on UL Tx switching	16.2.0
/	RP-89	RP-201922	0408	-	F	NR-DC UE capabilities	16.2.0
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	RP-91 RP-91 RP-91 RP-91 RP-91 RP-91 RP-91 RP-91 RP-91 RP-91 RP-91 RP-91 RP-91	RP-210694 RP-210703 RP-210691 RP-210697 RP-210697 RP-210697 RP-210697 RP-210695 RP-210697 RP-210703 RP-210702 RP-210697 RP-210697 RP-210702	0502 0503 0505 0506 0509 0512 0513 0516 0520 0521 0523 0525 0528 0529	1 2 1 2 3 1 2 2 2 2 1 2 2 1 2 2 1 2 2 1 2 2 1 2 2 2 3 1 2 2 3 1 2 2 3 1 2 2 3 1 2 2 3 1 1 2 2 3 1 1 2 2 2 3 1 1 2 2 2 2	F F F F A F F A F A	Corrections on UE capability for NR-U Release with Redirect for connection resume triggered by NAS Clarification to LCP restrictions Introduction of the UE Capability for SpCell BFR Enhancement Clarification on UE capabilities with FDD/TDD differentiation Support of 35 MHz and 45 MHz channel bandwidth for FR1 Clarification on UE capabilities for enhanced MIMO CR on the SupportedBandwidth and channelBWs(R16) Correction to PUSCH skipping with UCI without LCH-based prioritization CR on the Capability of PUCCH Transmissions for HARQ-ACK-38306 Clarification on FDD-TDD differentiation for SUL band Clarification on single uplink operation capability report Addition of TEI16 features CR to clarify the definition of fallback per CC feature set	$\begin{array}{c} 16.4.0\\ 16.4.0\\ 16.4.0\\ 16.4.0\\ 16.4.0\\ 16.4.0\\ 16.4.0\\ 16.4.0\\ 16.4.0\\ 16.4.0\\ 16.4.0\\ 16.4.0\\ 16.4.0\\ 16.4.0\\ 16.4.0\\ 16.4.0\\ \end{array}$

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History

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V16.1.0	July 2020	Publication						
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