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# Foreword

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- z the third digit is incremented when editorial only changes have been incorporated in the document.

# 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".
- [29] 3GPP TS 26.247: "Transparent end-to-end Packet-switched Streaming Service (PSS); Progressive Download and Dynamic Adaptive Streaming over HTTP (3GP-DASH)".
- [30] 3GPP TS 26.114: "IP Multimedia Subsystem (IMS); Multimedia Telephony; Media handling and interaction".
- [31] 3GPP TS 26.118: "Virtual Reality (VR) profiles for streaming applications".
- [32] 3GPP TS 37.213: "Physical layer procedures for shared spectrum channel access".
- [33] 3GPP TS 38.401: "NG-RAN; Architecture description".
- [34] 3GPP TS 38.101-5: "NR; User Equipment (UE) radio transmission and reception; Part 5: Satellite access Radio Frequency (RF) and performance requirements".
- [35] 3GPP TS 38.104: "NR; Base Station (BS) radio transmission and reception".

# 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. The *supportedMinBandwidthDL/supportedMinBandwidthUL* defines the lower bound of the bandwidth supported by the UE.

RedCap UE: The UE with reduced capabilities as specified in clause 4.2.21.1.

Switching SCell (sSCell): The SCell configured with cross-carrier scheduling to PCell/PSCell.

# 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].

A-CSI	Aperiodic-CSI
BAP	Backhaul Adaptation Protocol
BC	Band Combination
BPS	Body Proximity Sensing
BT	Bluetooth
CCS	Cross Carrier Scheduling
CMR	Channel Measurement Resource
CPAC	Conditional PSCell Addition/Change
DAPS	Dual Active Protocol Stack
DL	Downlink
EHC	Ethernet Header Compression
FS	Feature Set
FSPC	Feature Set Per Component-carrier
GSO	Geosynchronous Orbit
HSDN	High Speed Dedicated Network
IAB-MT	Integrated Access Backhaul Mobile Termination
MAC	Medium Access Control
MHI	Mobility History Information
MBS	Multicast/Broadcast Service
MCG	Master Cell Group
MN	Master Node
MRB	MBS Radio Bearer
MR-DC	Multi-Radio Dual Connectivity
mTRP	Multiple TRP
MUSIM	Multi-Universal Subscriber Identity Module
NCJT	Non-Coherent Joint Transmission
NCSG	Network Controlled Small Gap
NGSO	Non-Geosynchronous Orbit
NTN	Non-Terrestrial Network
P-CSI	Periodic CSI
PDCP	Packet Data Convergence Protocol
QoE	Quality of Experience
RLC	Radio Link Control
RTT	Round Trip Time
SCG	Secondary Cell Group
SDAP	Service Data Adaptation Protocol
SDL	Supplementary Downlink
SN	Secondary Node
sTRP	Serving TRP
SUL	Supplementary Uplink
TRP	Transmit/Receive Point
UDC	Uplink Data Compression
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  $R_{max} = 948/1024$ 

For the j-th CC,

 $v_{Layers}^{(j)}$  is the maximum number of supported layers given by *maxNumberMIMO-LayersPDSCH* for downlink and maximum of *maxNumberMIMO-LayersCB-PUSCH* and *maxNumberMIMO-LayersNonCB-PUSCH* for uplink.

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

 $f^{(j)}$  is the scaling factor given by *scalingFactor* or *scalingFactor-1024QAM-FR1* and can take the values 1, 0.8, 0.75, and 0.4.

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

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

 $N_{PRB}^{BW(j),\mu}$  is the maximum RB allocation in bandwidth  $BW^{(j)}$  with numerology  $\mu$ , as defined in 5.3 TS 38.101-1 [2], 5.3 TS 38.101-2 [3], and 5.3 TS 38.101-5 [34], 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 the CCs where UE supports *pdsch-1024QAM-2MIMO-FR1-r17* for the concerned band, data rate shall be derived as maximum what UE would support if using 1024 QAM (when *mcs-Table-r17* or *mcs-TableDCI-1-2-r17* is configured) or 256 QAM.

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 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
480KHz	20
960KHz	20

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

### 4.1.5 Supported max data rate for SL

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

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

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wherein

 $R_{max} = 948/1024,$ 

 $v_{Layers}$  is the maximum number of supported layers for sidelink transmission (or reception) given by UE capability on supporting rank 2 PSSCH transmission and *rankTwoReception*,

 $Q_m$  is the maximum supported modulation order between 6 or 8 given by *sl*-*Tx*-256QAM and *sl*-*Rx*-256QAM, *f* is the scaling factor for sidelink transmission and reception given by *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.

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

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

normal cyclic prefix is assumed.

 $N_{PRB}^{BW,\mu}$  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. "(Incl FR2-2 DIFF)" in the column by "FR1-FR2 DIFF" indicates the UE capabilities indicated as "Yes" in the column by "FR1-FR2 DIFF" indicates the UE capability field can have a different value for between FR2-1 and FR2-2. 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/SDL if SUL/SDL 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 signalling 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/SDL) and TDD and if (some of) the UE capability fields have a different value for FDD (or SUL/SDL) and TDD:
  - 2> if for FDD (and, if the UE supports SUL/SDL, for SUL/SDL), 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 signalling.
- 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.

NOTE 3: Unless otherwise specified, for dependent capabilities with prerequisite capability in a finer granularity, the UE should indicate support of the prerequisite capability in at least one finer granularity. And the dependent capability is supported only in the finer granularity where the prerequisite capability is supported, e.g. a UE indicating support of *supportNewDMRS-Port-r16* (dependent capability which is defined per band) should indicate at least one band combination where *singleDCI-SDM-scheme-r16* (prerequisite capability which is defined per feature set) is supported in the corresponding band. In this case, *supportNewDMRS-Port-r16* is considered supported only in the corresponding band of the band combination where *singleDCI-SDM-scheme-r16* is supported.

# 4.2.2 General parameters

Definitions for parameters	Per	M	FDD-	FR1-
			DIFF	DIFF
accessStratumRelease Indicates the access stratum release the UE supports as specified in TS 38.331 [9].	UE	Yes	No	No
crossCarrierSchedulingConfigurationRelease-r17 Indicates whether the UE supports using crossCarrierSchedulingConfigRelease to	UE	No	No	No
release the configurations configured by crossCarrierSchedulingConfig.				
<i>delayBudgetReporting</i> Indicates whether the UE supports delay budget reporting as specified in TS 38.331 [9].	UE	No	No	No
<i>dl-DedicatedMessageSegmentation-r16</i> Indicates whether the UE supports reception of segmented DL RRC messages.	UE	No	No	No
drx-Preference-r16	UE	No	No	No
parameters for power saving in RRC_CONNECTED, as specified in TS 38.331 [9].	UE	No	No	No
Indicates whether the UE supports gNB-side RTT-based PDC, as specified in TS 38.300 [28]. A UE supporting this feature shall also support <i>rtt-BasedPDC-CSI-RS-ForTracking-r17</i> and/or <i>rtt-BasedPDC-PRS-r17</i> .				
<i>inactiveState</i> Indicates whether the UE supports RRC_INACTIVE as specified in TS 38.331 [9].	UE	Yes	No	No
<i>inactiveStateNTN-r17</i> Indicates whether the UE supports RRC_INACTIVE in NTN as specified in TS 38.331 [9]. It is mandated if the UE indicates the support of <i>nonTerrestrialNetwork-</i>	UE	CY	No	No
<i>inactiveStatePO-Determination-r17</i> Indicates whether the UE supports to use the same i_s to determine PO in	UE	No	No	No
inDeviceCoexInd-r16 Indicates whether the UE supports IDC (In-Device Coexistence) assistance	UE	No	No	No
maxBW-Preference-r16, maxBW-Preference-r17	UE	No	No	Yes
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].				(Incl FR2- 2 DIFF)
<i>maxCC-Preference-r16</i> 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, maxMIMO-LayerPreference-r17</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 (Incl FR2- 2
maxMRB-Add-r17	UF	No	No	DIFF) No
Indicates the additional maximum number of MRBs that the UE supports for MBS multicast reception as specified in TS 38.331 [9].				
mcgRLF-RecoveryViaSCG-r16 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
minSchedulingOffsetPreference-r16 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
<i>musim-GapPreference-r17</i> Indicates whether the UE supports providing MUSIM assistance information with MUSIM gap preference and related MUSIM gap configuration, as defined in TS 38.331 [9]. UE supporting this feature supports 3 periodic gaps and 1 aperiodic gap.	UE	No	No	No
<i>musimLeaveConnected-r17</i> Indicates whether the UE supports providing MUSIM assistance information with indication of leaving RRC_CONNECTED state as defined in TS 38.331 [9].	UE	No	No	No

nonTerrestrialNetwork-r17	UE	No	No	No
Indicates whether the UE supports NR NTN access. If the UE indicates this				
capability the UE shall support the following NTN essential features, e.g., timer				
extension in MAC/RLC/PDCP layers and RACH adaptation to handle long RTT,				
acquiring NTN specific SIB and more than one TAC per PLMN broadcast in one cell.				
ntn-ScenarioSupport-r17	UE	No	No	No
Indicates whether the UE supports the NTN features in GSO scenario or NGSO				
scenario. If a UE does not include this field but includes <i>nonTerrestrialNetwork-r17</i> ,				
the UE supports the NTN features for both GSO and NGSO scenarios, and also				
supports mobility between GSO and NGSO scenarios.			<b>N</b> 1	
onDemandSIB-Connected-r16	UE	INO	INO	NO
indicates whether the DE supports the on-demand request procedure of SIB(s) or				
possib(s) while in RRC_CONNECTED, as specified in 15 38.331 [9].		Na	Nia	Nie
Indicators whather the LIE supports overheating assistance information	UE	INO	INO	INO
ndicates whether the OE supports overheating assistance information.		No	No	No
Indicates whether the LIE supports receiving paging early indication in DCI format	UE	INU	INU	INU
2. 7 as specified in TS38.304 [21] for a list of frequency hand. The LIE shall support				
UEID based subgrouping for a frequency band if it indicates supporting of paging				
early indication reception for the frequency band. The set of OEDM symbols within a				
slot where UE can monitor the PEI PDCCH in Type 2A CSS is the same as the				
requirement for paging PDCCH in Type 2 CSS for IDLE and INACTIVE mode UEs.				
partialFR2-FallbackRX-Reg	UE	No	No	No
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.				
ra-SDT-r17	UE	No	No	No
Indicates whether the UE supports transmission of data and/or signalling over				
allowed radio bearers in RRC_INACTIVE state via Random Access procedure (i.e.,				
RA-SD1) with 4-step RA type and if UE supports <i>twoStepRACH-r16</i> , with 2-step RA				
type, as specified in 15 38.331 [9].		Na	Nia	Nia
ra-5D1-N1N-r17	UE	INO	INO	INO
allowed radio bear are in PBC. INACTIVE state in NTN via Bandom Access				
allowed fauld bearers in RRC_INACTIVE state in NTN via Randoff Access procedure (i.e. $RA_SDT$ ) with A-step RA type and if LE supports two Step RACH-r16				
for NTN with 2-step RA type as specified in TS 38 331 [9] A LIE supporting this				
feature shall also indicate the support of <i>nonTerrestrialNetwork-r</i> 17.				
redirectAtResumeBvNAS-r16	UE	No	No	No
Indicates whether the UE supports reception of redirectedCarrierInfo in an				
RRCRelease message in response to an RRCResumeRequest or				
RRCResumeRequest1 which is triggered by the NAS layer, as specified in TS				
38.331 [9].				
reducedCP-Latency	UE	No	No	No
Indicates whether the UE supports reduced control plane latency as defined in TS				
38.331 [9]				
referenceTimeProvision-r16	UE	No	No	No
Indicates whether the UE supports provision of referenceTimeInfo in				
DLInformationTransfer message and in SIB9 and reference time information				
preference indication via assistance information, as specified in TS 38.331 [9].				
releasePreference-r16	UE	No	No	No
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].				<b>.</b>
resumewith Store amount of Stells-ring and the start of MOO OO-line (in the start of MOO OO-line (in the start of the star	UE	NO	No	No
Indicates whether the UE supports not deleting the stored MCG SCell configuration				
when initiating the resume procedure.		N1.	NI -	NI.
resumewithStoredSUG-r1b	UE	INO	INO	INO
indicates whether the UE supports not deleting the stored SUG configuration when				
shall also indicate support for resume With $SCC_Config r16$				
resumeWithSCG-Config-r16		No	No	No
Indicates whether the UE supports (re-)configuration of an SCG during the resume			UV	
procedure.				
	1	1		1

sliceInfoforCellReselection-r17	UE	No	No	No
Indicates whether the UE supports slice-based cell reselection information in SIB				
and on RRC release for slice-based cell reselection in RRC _IDLE and RRC				
INACTIVE as defined in TS 38.304 [21].				
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.				
srb-SDT-NTN-r17	UE	No	No	No
Indicates whether the UE supports the usage of signalling radio bearer SRB2 over				
RA-SDT or CG-SDT in NTN, as specified in TS 38.331 [9].				
A UE supporting this feature shall also indicate support of ra-SDT-NTN-r17, or cg-				
SDT-r17 in NTN bands. A UE supporting this feature shall also indicate the support				
of nonTerrestrialNetwork-r17.				
srb-SDT-r17	UE	No	No	No
Indicates whether the UE supports the usage of signalling radio bearer SRB2 over				
RA-SDT or CG-SDT, as specified in TS 38.331 [9].				
A UE supporting this feature shall also indicate support of ra-SDI-r17 or cg-SDI-				
r17.				
ul-GapFR2-Pattern-r17	UE	CY	No	FR2
Indicates FR2 UL gap pattern(s) supported by the UE for NR SA, for NR-DC without				only
FR2-FR2 band combination, for NE-DC, and for (NG)EN-DC, if UE supports a band				
in FR2. The leading / leftmost bit (bit 0) corresponds to the FR2 UL gap pattern 0,				
the next bit corresponds to the FR2 UL gap pattern 1, as specified in TS 38.133 [5]				
and so on. The UE shall set at least one of the bits to 1 for FR2 UL gap pattern 1				
and 3, if the UE indicates support for <i>ul-GapER2-r17</i> in an ER2 band.	· · · –			
ul-RRC-Segmentation-r16	UE	No	No	No
Indicates whether the UE supports uplink RRC segmentation of				
UECapabilityInformation as specified in TS 38.331 [9].				

# 4.2.3 SDAP Parameters

Definitions for parameters	Per	М	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	м	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
<b>ehc-r16</b> 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/multicast MRBs.	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/multicast MRB.	UE	No	No
maxNumberROHC-ContextSessions Defines the maximum number of ROHC header compression context sessions supported by the UE across all DRBs and multicast MRBs, excluding context sessions that leave all headers uncompressed.	UE	No	No
<i>maxNumberEHC-Contexts-r16</i> Defines the maximum number of Ethernet header compression contexts supported by the UE across all DRBs and multicast MRBs 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
<i>pdcp-DuplicationMCG-OrSCG-DRB</i> Indicates whether the UE supports CA-based PDCP duplication over MCG or SCG DRB as specified in TS 38.323 [16].	UE	No	No
<i>pdcp-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:			
<ul> <li>0x0000 ROHC No compression (RFC 5795)</li> </ul>			
- 0x0001 ROHC RTP/UDP/IP (RFC 3095, RFC 4815)			
<ul> <li>0x0002 ROHC UDP/IP (RFC 3095, RFC 4815)</li> </ul>			
- 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.			
udc-r17	UE	No	No
Indicates whether the UE supports the uplink data compression operation as specified in			
TS 38.323 [16]. The capability signalling comprises of the following parameters:			
- standardDictionary-r17 indicates whether the UE supports UL data compression			
with SIP static dictionary as defined in TS 38.323 [16].			
- operatorDictionary-r17 indicates whether the UE supports UL data compression			
with operator defined dictionary. In this release, the UE can only support one			
operator defined dictionary. If the UE supports operator defined dictionary, the UE			
shall report versionOfDictionary-r17 and associatedPLMN-ID-r17 of the stored			
operator defined dictionary as defined in TS 38.331 [9]. This parameter is not			
required to be present if the UE is in VPLMN. The associatedPLMN-ID-r17 is only			
associated to the operator defined dictionary which has no relationship with UE's			
HPLMN ID.			
<ul> <li>continueUDC-r17 indicates whether the UE supports continuation of uplink data</li> </ul>			
compression protocol operation where the UE does not reset the buffer upon			
PDCP re-establishment, as specified in TS 38.323 [16].			
<ul> <li>support/UButterSize-r17 indicates which compression butter size the UE supports</li> </ul>			
as specified in TS 38.323 [16]. Value kbyte4 means the UE supports 4096 bytes			
for compression buffer per UDC DRB. Value kbyte8 means the UE supports 8192			
bytes for compression buffer per UDC DRB.			
A LIE that supports the uplink data compression operation shall support 2049 bytes for			
A DE that supports the uplink data compression operation shall support 2048 bytes for			
		No	No
upinikoniyrono-rionies	UE	INO	INO
- 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	М	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	М	FDD- TDD DIFF	FR1- FR2 DIFF
autonomousTransmission-r16 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, directMCG-SCellActivation-r17</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 (Incl FR2- 2 DIFF)
<i>directMCG-SCellActivationResume-r16, directMCG-SCellActivationResume-r17</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 (Incl FR2- 2 DIFF)
<i>directSCG-SCellActivation-r16, directSCG-SCellActivation-r17</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] or support of NR-DC as specified in TS 38.331 [9].	UE	No	No	Yes (Incl FR2- 2 DIFF)
<ul> <li>directSCG-SCellActivationResume-r16, directSCG-SCellActivationResume-r17</li> <li>Indicates whether the UE supports direct NR SCG SCell activation, as specified in TS 38.321 [8]:</li> <li>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].</li> <li>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].</li> </ul>	UE	No	No	Yes (Incl FR2- 2 DIFF)

<i>drx-Adaptation-r16, drx-Adaptation-r17</i> Indicates whether the UE supports DRX adaptation comprised of the following	UE	No	No	Yes (Incl
functional components: - Configured <i>ps-Offset</i> for the detection of DCI format 2_6 with CRC scrambling				FR2- 2
by ps-RNTI and reported <i>MinTimeGap</i> or <i>MinTimeGapFR2-2</i> before the start of <i>drx-onDurationTimer</i> of Long DRX				DIFF)
<ul> <li>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</li> </ul>				
<ul> <li>Configured UE wakeup or not when DCI format 2_6 is not detected at all monitoring occasions outside Active Time</li> </ul>				
<ul> <li>Configured periodic CSI report apart from L1-RSRP (ps- TransmitOtherPeriodicCSI) when impacted by DCI format 2_6 that drx- onDurationTimer does not start for the next Long DRX cycle</li> </ul>				
<ul> <li>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</li> </ul>				
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>				
reported for licensed and unlicensed bands, respectively. When <i>drx-Adaptation-r16</i> is				
reported, either of sharedSpectrumChAccess-r16 or non-SharedSpectrumChAccess- r16 shall be reported at least. When drx-Adaptation-r17 is reported either of				
sharedSpectrumChAccess-r17 or non-SharedSpectrumChAccess-r17 shall be				
reported, at least.		No	Ves	No
Indicates whether the UE supports skipping UL transmission for a configured uplink			103	
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].		No	Vee	No
Indicates whether the UE supports skipping UL transmission for an uplink grant	UE		res	
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]. enhanced JuDRX-forSidelink-r17	UF	No	No	No
Indicates whether UE supports sidelink related Uu-DRX mechanisms for PDCCH				
monitoring. This field is only applicable if the UE supports <i>sl-TransmissionMode1-r16</i> .				
extendedDRX-CycleInactive-r17	UE	No	No	No
256 512 and 1024 radio frames as specified in TS 38 331 [9]. The UE may indicate				
support for extended DRX in RRC_INACTIVE only if it supports extended DRX in				
RRC_IDLE.	=			
harq-FeedbackDisabled-r17	UE	NO	NO	NO
transmission. A UE supporting this feature shall also indicate the support of				
nonTerrestrialNetwork-r17.				
harq-RTT-TimerDL-ForNTN-MulticastMBS-r17	UE	No	No	No
TimerDL-PTM and drx-HARQ-RTT-TimerDL for MBS Multicast DRX in RRC				
connected mode.				
A UE supporting this feature shall also indicate the support of <i>nonTerrestrialNetwork</i> -				
- ack-NACK-FeedbackForMulticast-r17				
- ack-NACK-FeedbackForSPS-Multicast-r17				
- nack-OnlyFeedbackForMulticast-r17				
intraCG-Prioritization-r17	UF	No	No	No
Indicates whether the UE supports the HARQ process ID selection based on LCH				
priority as specified in TS 38.321 [8]. A UE supporting this feature shall also support				
	1	1	1	1

jointPrioritizationCG-Retx-Timer-r17	UE	No	No	No
Indicates whether the UE supports simultaneous configuration of LCH based				
prioritization and cg-RetransmissionTimer-r16 as specified in TS 38.321 [8]. A UE				
supporting this feature shall also support Ich-priorityBasedPrioritization-r16 and				
configuredGrantWithReTx-r16.				
lastTransmissionUL-r17	UE	No	No	No
Indicates whether the UE supports starting the <i>drx-HARQ-RTT-TimerUL</i> after the end				
of the last transmission within a bundle as specified in TS 38.321 [8].	=			
Ich-PriorityBasedPrioritization-r16	UE	NO	NO	NO
Indicates whether the UE supports prioritization between overlapping grants and				
Specifieu in 15 50.521 [0].		No	No	No
Indicates whether the LIE supports restricting data transmission from a given LCH to a	UL		INU	INU
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
Indicates 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].				
Ich-ToSCellRestriction	UE	No	No	No
Indicates 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.				
Icp-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 allowedSCS-List,				
maxPUSCH-Duration, and configuredGrantType1Allowed as specified in TS 38.321				
[8].				
logicalChannelSR-DelayTimer	UE	No	Yes	No
Indicates whether the UE supports the <i>logicalChannelSR-DelayTimer</i> as specified in				
IS 38.321 [8].	=			
IongDRX-Cycle	UE	Yes	Yes	No
Indicates whether DE supports long DRX cycle as specified in 15 38.321 [8].		Nia	Na	Na
mg-Activation Commerce-inverse proceeding and the second	UE	INO	INO	INO
male when the use of DL MAC CE from the dNB as specified in TS 38 321				
[8] to activate/deactivate the preconfigured MC for PPS measurements				
[0], to activate deactivate the preconfigured with for TNS measurements.		No	No	No
Indicates whether UE supports preconfiguration of MGs in RRC signalling for PRS				
measurements and supports the use of UI MAC CF as specified in TS38 321 [8] to				
request the activation/deactivation of the preconfigured MG for PRS measurements.				
The UE can include this field only if the UE supports mg-ActivationCommPRS-Meas-				
r17.				
multipleConfiguredGrants	UE	No	Yes	No
Indicates whether UE supports more than one configured grant configurations				
(including both Type 1 and Type 2) in a cell group. For each cell, the UE supports at				
most one configured grant per BWP and the maximum number of configured grant				
configurations per cell group is 2. If absent, for each configured cell group, the UE				
only supports one configured grant configuration on one serving cell.				
multipleSR-Configurations	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 15 38.321 [8].		No	No	No
Indicates whether the UE supports the hit rate multiplier for recommanded hit rate	UE			
MAC CE as specified in TS 38 321 [8], clause 6.1.3.20. This field is only applicable if				
the LIE supports recommended Bit Pate				
recommended Bit Rate Querv	LIF	No	No	No
Indicates whether the UE supports the bit rate recommendation query message from				
the UE to the gNB as specified in TS 38.321 [8]. This field is only applicable if the UE				
supports recommended BitRate.				
secondaryDRX-Group-r16	UE	No	Yes	No
Indicates whether UE supports secondary DRX group as specified in TS 38.321 [8].				

shortDRX-Cycle	UE	Yes	Yes	No
Indicates whether UE supports short DRX cycle as specified in TS 38.321 [8].				
simultaneousSR-PUSCH-DiffPUCCH-groups-r17	UE	No	No	No
Indicates whether the UE supports simultaneous transmission of SR and PUSCH in				
different PUCCH groups as specified in TS 38.321 [8].				
singlePHR-P-r16	UE	No	No	No
Indicates whether UE supports the P bit in single PHR MAC CE as specified in TS				
38.321 [8].				
skipUplinkTxDynamic	UE	No	Yes	No
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].				
spCell-BFR-CBRA-r16	UE	No	No	No
Indicates whether the UE supports sending BFR MAC CE for SpCell BFR as specified				
in TS 38.321 [8].				
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].				
sr-TriggeredBy-TA-Report-r17	UE	No	No	No
Indicates whether the UE supports triggering of SR when a TA report is triggered and				
there are no available UL-SCH resources. A UE supporting this feature shall also				
indicate the support of nonTerrestrialNetwork-r17.				
survivalTime-r17	UE	No	No	No
Indicates whether the UE supports services with survival time requirement using				
configured grant resource and PDCP duplication, as specified in TS 38.321 [8]. A UE				
supporting this feature shall support pdcp-DuplicationMCG-orSCG-DRB or pdcp-				
Duplication SplitDRB. A UE supporting this feature shall also support at least one of				
configuredUL-GrantType1, configuredUL-GrantType2, configuredUL-GrantType1-				
v1650 or configuredUL-Grant Lype2-v1650.	=			
tdd-MPE-P-MPR-Reporting-r16	UE	NO	לטו	FR2
Indicates whether the UE supports P-MPR reporting for Maximum Permissible			only	oniy
Exposure, as specified in 1538.321 [8].		<b>N</b> 1		
ui-LBI-FailureDetectionRecovery-r16	UE	NO	NO	NO
Indicates whether the UE supports consistent uplink LBT detection and recovery, as				
specified in 15 38.321 [8], for cells operating with shared spectrum channel access.				
I his field applies to all serving cells with which the UE is configured with shared				
spectrum channel access.		<b>N</b> 1		
upink-marq-woodeb-r17	UE	INO	NO	INO
indicates whether the UE supports HARQ Mode B and the corresponding LCP				
restrictions for uplink transmission. A UE supporting this feature shall also indicate the				
support of nonrefrestrialinetwork-rin.				

# 4.2.7 Physical layer parameters

4.2.7.1 *BandCombinationList* parameters

Definitions for parameters	Per	М	FDD-	FR1-
			TDD DIFF	FR2 DIFF
bandEUTRA	Band	Yes	N/A	N/A
Defines supported EUTRA frequency band by EUTRA frequency band number, as specified in TS 36.101 [14].				
<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
bandNR	Band	Yes	N/A	N/A
Defines supported NR frequency band by NR frequency band number, as specified in TS 38.101-1 [2] and TS 38.101-2 [3].				
ca-BandwidthClassDL-EUTRA	Band	No	N/A	N/A
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				
ca-BandwidthClassDI -NR	Band	No	Ν/Δ	N/Δ
Defines for DL the class defined by the aggregated transmission bandwidth	Danu	NO		
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].				
ca-BandwidthClassDL-NR-r17	Band	No	N/A	FR2
Defines for DL, additional FR2 CA bandwidth class (e.g., R, S, T, U) as specified in				only
TS 38.101-2 [3]. When all FeatureSetDownlinkId:s in the corresponding				
FeatureSetsPerBand are zero, this field is absent.				
If this field is indicated for a hand, the UE shall also get as Dandwidth Class DL ND				
It this field is indicated for a band, the UE shall also set <i>ca-bandwidthclassDL-NR</i>				
(without suffix) to the highest ballowidth class from the same failback group that it				
in case that the bandwidth combination consists of a sub-set of carriers and the				
same or a sub-set of carrier bandwidths on those carriers with respect to the				
bandwidth combination corresponding to ca-BandwidthClassDL-NR-r17; otherwise,				
it shall omit the ca-BandwidthClassDL-NR (without suffix) field.				
NOTE: If the UE includes ca-BandwidthClassDL-NR-r17 in a BandParameter the				
	Band	No	ΝΙ/Λ	ΝΙ/Λ
Defines for LIL the class defined by the aggregated transmission bandwidth	Danu	INU	IN/A	IN/A
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.				
ca-BandwidthClassUL-NR	Band	No	N/A	N/A
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 15 38.101-1 [2] and 15 38.101-2 [3]. When all FeatureSetUplinkid:s in				
value 'E' shall not be used as it is invalidated in TS 38 101-1 [2]				
ca-BandwidthClassIII -NR-r17	Band	No	Ν/Δ	FR2
Defines for UL, additional FR2 CA bandwidth class (e.g., R. S. T. U.) as specified in	Dunu		1.0/7.	only
TS 38.101-2 [3]. When all FeatureSetUplinkId:s in the corresponding				<b>,</b>
FeatureSetsPerBand are zero, this field is absent.				
If this field is indicated for a band, the LIE shall also set ca-BandwidthClassUI-NR				
(without suffix) to the highest bandwidth class from the same fallback group that it				
supports in this band combination and with the given bandwidth combination set ID				
in case that the bandwidth combination consists of a sub-set of carriers and the				
same or a sub-set of carrier bandwidths on those carriers with respect to the				
bandwidth combination corresponding to ca-BandwidthClassUL-NR-r17; otherwise,				
it shall omit the <i>ca-BandwidthClassUL-NR</i> (without suffix) field.				
NOTE: If the UE includes <i>ca-BandwidthClassUL-NR-r17</i> in a BandParameter the network ignores the <i>ca-BandwidthClassUL-NR</i> therein, if signalled.				
ca-ParametersEUTRA	BC	No	N/A	N/A
Contains the EUTRA part of band combination parameters for a given (NG)EN-				
DC/NE-DC band combination.				

ca-ParametersNR	BC	No	N/A	N/A
Contains the NR band combination parameters for a given (NG)EN-DC/NE-DC				
and/or NR CA band combination.				
ca-ParametersNRDC	BC	No	N/A	N/A
Indicates whether the UE supports NR-DC for the band combination. It contains the				
NR band combination parameters applicable across MCG and SCG. If the band				
combination includes both FR1 and FR2 bands, 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.				
featureSetCombination	BC	N/A	N/A	N/A
Indicates the feature set that the UE supports on the NR and/or MR-DC band				
combination by FeatureSetCombinationId.				
featureSetCombinationDAPS-r16	BC	N/A	N/A	N/A
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 intraFreqDAPS-r16 can only be referred to by				
featureSetCombinationDAPS-r16, not by featureSetCombination. A feature set				
without intraFreqDAPS-r16 is only applied to inter-freq DAPS handover if it is				
referred to by featureSetCombinationDAPS. Both feature sets with and without				
intraFreqDAPS-r16 can be referred to by the same featureSetCombinationDAPS-				
r16.				
intrabandConcurrentOperationPowerClass-r16	BC	No	N/A	N/A
Indicates the power class, of a particular Uu band combination and the intra-band				
PC5 band combination(s) on which the UE supports transmission of PC5				
simultaneous with Uu uplink (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 supported IxBandCombListPerBC-Sidelink-r16, the next value corresponds to				
the band combination of the particular Uu band combination and the second intra-				
band PC5 band combination included in BandCombinationListSidelinkEUTRA-INR				
which is indicated with value 1 by supported IxBandCombListPerBC-Sidelink-r16				
and so on. If this power class is higher than the power class that the UE supports on				
the individual UU or PC5 interface of this band combination, the latter determines				
	DC	No	N1/A	N1/A
Contains the hand combination parameters for a given (NC)EN DC/NE DC hand	ы	INO	IN/A	IN/A
combination				
ne-DC-BC	BC	No	Ν/Δ	Ν/Δ
Indicates whether the LIE supports NE-DC for the band combination	DC			
nowerClass_powerClass-v1610	BC	No	N/A	FR1
Indicates power class the UE supports when operating according to this band	20		14/73	only
combination. If the field is absent, the LIF supports the default power class. If this				only
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.				

scalingFactorTxSidelink-r16, scalingFactorRxSidelink-r16 Indicates, for a particular Uu band combination, the scaling factor for the PC5 band combination(s) on which the UE supports transmission/reception of PC5 simultaneous with Uu uplink/downlink respectively (as indicated by supportedTxBandCombListPerBC-Sidelink-r16 / supportedTxBandCombListPerBC- 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 / 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-Sidelink-r16 and so on. For each value of ScalingFactorSidelink-r16, value f0p4 indicates the scaling factor 0.4, f0p75 indicates 0.75, and so on.	BC	No	N/A	N/A
<ul> <li>srs-Antennas witchingBeyond4RX-r17</li> <li>Indicates whether the UE supports SRS Antenna switching for more than 4 Rx. The capability signalling comprises the following parameters: <ul> <li>supportedSRS-TxPortSwitchBeyond4Rx-r17 indicates a combination of supported xTyRs. It includes 11-bit bitmap, where starting from the leading / leftmost bit (bit 0), each bit corresponds to {t1r1, t2r2, t1r2, t4r4, t2r4, t1r4, t2r6, t1r6, t4r8, t2r8, t1r8}. For any indicated value, x shall be equal to or smaller than the one associated with the largest y.</li> <li><i>entryNumberAffectBeyond4Rx-r17</i> indicates the lowest band entry number of the UL group (see <i>entryNumberSwitchBeyond4Rx-r17</i>) that impacts the DL of this band entry;</li> <li><i>entryNumberSwitchBeyond4Rx-r17</i> indicates the lowest band entry of the UL group, which is defined as band entries with UL (see NOTE 1) that impact each other's UL (i.e. SRS TX port switching on any of the cells in the group will impact UL on all the cells in the group). This parameter is absent if an UL group contains only one band entry.</li> </ul> </li> </ul>	BC	NO	N/A	N/A
The UE indicating support of this shall indicate support of <i>srs-TxSwitch</i> .				
For entryNumberAffectBeyond4Rx-r17 and entryNumberSwitchBeyond4Rx-r17, value 1 means first entry, value 2 means second entry and so on. The UE may include entryNumberAffectBeyond4Rx-r17/entryNumberSwitchBeyond4Rx-r17 for a band entry even if all of the bits in the supportedSRS-TxPortSwitchBeyond4Rx-r17 are set to 0 for that band entry. 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.				
NOTE 1: The band with UL includes a band associated with FeatureSetUplinkId set to 0 corresponding to the support of SRS-SwitchingTimeNR				
NOTE 2: If reported for the same values of xTyR in supportedSRS- TxPortSwitchBeyond4Rx-r17 as reported with supportedSRS- TxPortSwitch/supportedSRS-TxPortSwitch-v1610, the reported values for entryNumberAffectBeyond4Rx-r17 and entryNumberSwitchBeyond4Rx-r17 are not valid.	<b>-</b>			
<i>srs-SwitchingAffectedBandsListNR-r17</i> Indicates which other bands in the band combination are affected by the SRS switch and the dropping rules / timelines apply to the indicated bands when SRS carrier switching on target CC and other UL on source CC are overlapped in the same symbol. UE indicating support of this feature shall indicate support of <i>srs-</i> <i>CarrierSwitch</i> .	BC	No	N/A	N/A
NOTE: The UE shall include the same number of entries, and listed in the same order as in <i>srs-SwitchingTimesListNR</i> . For each inter-band "source-target" pair (as indicated by <i>srs-SwitchingTimesListNR</i> ), the UE can indicate which other bands in the band combination are affected by the SRS switch. The UE shall set the BIT STRING to 0 for intra-band band pairs.				

SRS-SwitchingTimeNR	FD	No	N/A	N/A
Indicates the interruption time on DL/UL reception within a NR band pair during the PE returning for switching between a carrier on one band and another (PLISCH loss)				
carrier on the other hand to transmit SRS switchingTimeDI / switchingTimeIII :				
n0us represents 0 us, n30us represents 30us, and so on. <i>switchingTimeDL</i> /				
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				
				N1/A
SRS-Switching LimeEUTRA	FD	NO	N/A	N/A
the RF retuning for switching between a carrier on one band and another (PUSCH-				
less) carrier on the other band to transmit SRS. switchingTimeDL/				
switchingTimeUL: n0 represents 0 OFDM symbols, n0dot5 represents 0.5 OFDM				
symbols, n1 represents 1 OFDM symbol and so on. switchingTimeDL/				
switching I imeUL is mandatory present if switching between the EU I RA band pair				
combination				
srs-TxSwitch. srs-TxSwitch-v1610	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:				
<ul> <li>supportedSRS-TxPortSwitch indicates SRS Tx port switching pattern</li> </ul>				
supponed by the OE, which is manualory with capability signalling. The indicated UE antenna switching capability of 'xTvR' corresponds to a UE				
capable of SRS transmission on 'x' antenna ports over total of 'v' 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				
<i>TxPortSwitch-v1610</i> , the UE shall report the values for this as below, based				
on what is reported in <i>supportedSRS-TxPortSwitch</i> .				
supportedSRS-TXPOrtSwitch SupportedSRS-TXPortSwitch- v1610				
t1r2 t1r1-t1r2				
t1r4 t1r1-t1r2-t1r4				
t2r4 t1r1-t1r2-t2r2-t2r4				
t2r2 t1r1-t2r2				
[414 [1171-1212-1414 t1r1-t1r2-t2r2				
- <i>txSwitchImpactToRx</i> indicates the lowest band entry number of the UL group				
(see txSwitchWithAnotherBand) that impacts the DL of this band entry;				
- txSwitchWithAnotherBand indicates the lowest band entry of the UL group,				
which is defined as band entries with UL (see NOTE) that impact each				
other's UL (i.e. SRS TX port switching on any of the cells in the group will				
impact UL on all the cells in the group). This parameter is absent if an UL				
group contains only one band entry.				
For txSwitchImpactToRx and txSwitchWithAnotherBand, value 1 means first entry,				
value 2 means second entry and so on. The UE may include txSwitchImpactToRx				
and txSwitchWithAnotherBand for a band entry even if supportedSRS-TxPortSwitch				
is set to notsupported for that band entry. All DL and UL that switch together				
The entry number is the band entry number in a band combination. The UF is				
restricted not to include fallback band combinations for the purpose of indicating				
different SRS antenna switching capabilities.				
NOTE: The band with LIL includes a band conspicted with Eastware at Intight				
set to 0 corresponding to the support of SRS-SwitchingTimeNR.				

supportedAggBW-FR2-r17	BC	No	N/A	FR2
Indicates the supported maximum aggregated intra-band bandwidth for TDD DL				only
CCs and TDD UL CCs respectively in the FR2 CA bands of the band combination. It				
is also applicable to fallback band combinations of FR2 CA except for a single CC				
(i.e. non-CA) case. It is only applicable to FR2 CA band with FBG5 R2-R12 BW				
classes. UE indicating this shall report at least one <i>featureSetPerDownlinkCC</i> and				
featureSetPerUplinkCC (if applicable) with 200 MHz, and the UE is expected to				
support any combination of 100/200MHz carriers associated with the reported BW				
class (and as per TS 38.101-2 [34]) as long as the aggregated bandwidth of the				
configured carriers by the network does not exceed supportedAggBW-FR2-r17.				
supportedBandwidthCombinationSet	BC	CY	N/A	N/A
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 LIE 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 initia-frequency DAPS handover.				
Combined on Sat N for this band combination on defined in the TS 29 101 1 [2] TS				
29 101 2 [2] and TS 29 101 2 [4]. The leading / leftmeet hit (hit 0) corresponds to				
the Bandwidth Combination Set 0, the next bit corresponds to the Bandwidth				
Combination Set 1 and so on It is mandatory if				
- the band combination has more than one NR carrier (at least one SCell in an				
NR cell group):				
or is an intra-band (NG)EN-DC/NE-DC combination without additional inter-				
band NR and LTE CA component:				
- or hoth				
The corresponding bits of Bandwidth Combination Set 4 and Bandwidth				
Combination Set 5 shall not both be set to "1" for the same band combination.				

<ul> <li>supportedBandwidthCombinationSetIntraENDC</li> <li>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.</li> <li>For intra-band (NG)EN-DC with additional inter-band CA component(s) of LTE and/or NR, the field defines the bandwidth combination set for the intraband (NG)EN-DC component.</li> <li>For intra-band NE-DC with additional inter-band CA component(s) of LTE and/or NR, the field defines the bandwidth combination set for the intraband (NG)EN-DC component.</li> <li>For intra-band NE-DC with additional inter-band CA component(s) of LTE and/or NR, the field defines the bandwidth combination set for the intraband NE-DC component.</li> <li>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 38.101-3 [4]. The leading / leftmost bit (bit 0) corresponds to the Bandwidth Combination Set 0, the next bit corresponds to the Bandwidth Combination Set 0, the next bit corresponds to the Bandwidth Combination Set 1 and so on.</li> <li>For the inter-band (NG)EN-DC/NE-DC band combination with only one intra-band (NG)EN-DC/NE-DC component as defined in the TS 38.101-3 [4], table 5.3B.1.2-1 and table 5.3B.1.3-1:</li> </ul>	BC	CY	N/A	N/A
<ul> <li>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.</li> <li>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.</li> </ul>				
<ul> <li>For the inter-band (NG)EN-DC band combination with multiple intra-band (NG)EN-DC components as defined in clause 5.5B in the TS 38.101-3 [4]:</li> <li>This field is applicable only if the UE supports the same set of BCSs for all the intra-band (NG)EN-DC components.</li> <li>It is mandatory if an intra-band (NG)EN-DC component supports both UL and DL intra-band (NG)EN-DC parts and the UE supports the same set of BCSs for all the intra-band (NG)EN-DC components.</li> <li>It is optional if all the intra-band (NG)EN-DC components do not support UL in the bands of the intra-band (NG)EN-DC components. If this field and the <i>supportedIntraENDC-BandCombinationList</i> are 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 all the intra-band (NG)EN-DC components.</li> </ul>				
<ul> <li>supportedBandwidthCombinationSetIntraENDC-v1790</li> <li>Indicates the supported bandwidth combination set for the corresponding intra-band (NG)EN-DC component within the inter-band (NG)EN-DC band combination with multiple intra-band (NG)EN-DC components as defined in clause 5.5B in the TS 38.101-3 [4].</li> <li>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 38.101-3 [4]. The leading / leftmost bit (bit 0) corresponds to the Bandwidth Combination Set 0, the next bit corresponds to the Bandwidth Combination Set 0, the next bit corresponds to the Bandwidth Combination Set 1 and so on.</li> <li>It is mandatory if the intra-band (NG)EN-DC component does not support UL in both the bands of the intra-band (NG)EN-DC UL part. If not included, the network assumes the UE supports BCS0 for the intra-band (NG)EN-DC component 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 component.</li> </ul>	BC	CY	N/A	N/A
supportedTxBandCombListPerBC-Sidelink-r16, supportedRxBandCombListPerBC-Sidelink-r16 Indicates, for a particular Uu band combination, the PC5 band combination(s) on which the UE supports transmission/reception of PC5 simultaneously with Uu uplink/downlink respectively. The leading / leftmost bit (bit 0) corresponds to the first band combination included in BandCombinationListSidelinkEUTRA-NR, the next bit corresponds to the second band combination included in BandCombinationListSidelinkEUTRA-NR and so on. with value 1 indicating simultaneous transmission/reception is supported.	BC	No	N/A	N/A

supportedBandCombListPerBC-SL-RelayDiscovery-r17, supportedBandCombListPerBC-SL-NonRelayDiscovery-r17Indicates, for a particular Uu band combination, the PC5 Relay discovery and non- Relay discovery band combination(s) on which the UE supports simultaneous transmission/reception of PC5 data (Relay discovery or non-Relay discovery) and Uu uplink/downlink respectively.The leading / leftmost bit (bit 0) corresponds to the first band combination included in supportedBandCombinationListSL-RelayDiscovery- r17/supportedBandCombinationListSL-NonRelayDiscovery-r17, the next bit corresponds to the second band combination included in supportedBandCombinationListSL-RelayDiscovery- r17/supportedBandCombinationListSL-NonRelayDiscovery- r17/supportedBandCombinationListSL-NonRelayDiscovery- r17/supportedBandCombinationListSL-NonRelayDiscovery- r17/supportedBandCombinationListSL-NonRelayDiscovery- r17/supportedBandCombinationListSL-NonRelayDiscovery- r17/supportedBandCombinationListSL-NonRelayDiscovery- r17/supportedBandCombinationListSL-NonRelayDiscovery- r17/supportedBandCombinationListSL-NonRelayDiscovery- r17/supportedBandCombinationListSL-NonRelayDiscovery- r17/supportedBandCombinationListSL-NonRelayDiscovery- r17/supportedBandCombinationListSL-NonRelayDiscovery- r17/supportedBandCombinationListSL-NonRelayDiscovery- r17/supportedBandCombinationListSL-NonRelayDiscovery-	BC	No	N/A	N/A
<ul> <li>ULTxSwitchingBandPair-r16, ULTxSwitchingBandPair-v1700</li> <li>Indicates UE supports dynamic UL 1Tx-2Tx switching in case of inter-band CA, SUL, and (NG)EN-DC, and UL 2Tx-2Tx switching in case of inter-band CA and SUL as defined in TS 38.214 [12], TS 38.101-1 [2] and TS 38.101-3 [4]. The capability signalling comprises of the following parameters:</li> <li>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 indicate support for 2-layer UL MIMO capabilities on both bands in each FeatureSet entry supporting UL 2T-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].</li> <li>uplinkTxSwitchingPeriod-r16 indicates the length of UL Tx switching period of 1Tx-2Tx switching is configured, as specified in TS 38.101-1 [2] and TS 38.101-3 [4].</li> <li>uplinkTxSwitchingPeriod2T2T-r17 indicates the length of UL Tx switching period of 28.101-1 [2] and TS 38.101-3 [4].</li> <li>uplinkTxSwitchingPeriod2T2T-r17 indicates the length of UL Tx switching period of 27x-2Tx switching per pair of UL bands per 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].</li> <li>uplinkTxSwitchingPeriod2T2T-r17 indicates the length of UL Tx switching period of 2Tx-2Tx switching per pair of UL bands per band combination when dynamic UL Tx switching per pair of UL bands per band combination when dynamic UL Tx switching Period TS 38.101-3 [4].</li> <li>uplinkTxSwitchingPeriod2T2T-r17 indicates the length of UL Tx switching period of 2Tx-2Tx switching as specified in TS 38.101-1 [2] and TS 38.101-3 [4].</li> <li>uplinkTxSwitchingPeriod2T2T-r1</li></ul>	BC	FD	N/A	FR1 only
<i>uplinkTxSwitching-OptionSupport-r16</i> Indicates which option is supported for dynamic UL 1Tx-2Tx 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 both option 1 and option2 as specified in TS 38.214 [12]. UE shall not report the value <i>both</i> for (NG)EN-DC case. The field is mandatory for inter-band UL CA and (NG)EN-DC case where UE supports dynamic UL 1Tx-2Tx switching.	BC	CY	N/A	FR1 only
<i>uplinkTxSwitching-OptionSupport2T2T-r17</i> Indicates which option is supported for dynamic UL 2Tx-2Tx switching for inter-band UL CA. <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 both option 1 and option2 as specified in TS 38.214 [12]. The field is mandatory for inter-band UL CA cases where UE supports dynamic UL 2Tx-2Tx switching. The UE indicating support of this feature shall indicate support of at least one common switching option between <i>uplinkTxSwitching-OptionSupport2T2T-r17</i> and <i>uplinkTxSwitching-OptionSupport-r16</i> .	BC	CY	N/A	FR1 only
uplinkTxSwitching-PowerBoosting-r16	BC	No	N/A	FR1
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Indicates the support of 3dB boosting on the maximum output power for UE				only
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].				
UplinkTxSwitchingBandParameters-v1700	BC	No	N/A	FR1
Contains the UL Tx switching specific band parameters for a given band				only
combination.				
The capability signalling comprises of the following parameters:				
- bandIndex-r17 indicates a band on which UE supports dynamic UL Tx switching				
with another band in the band combination. bandIndex xx refers to the xxth				
band entry in the band combination.				
<ul> <li>uplinkTxSwitching2T2T-PUSCH-TransCoherence-r17 indicates support of the</li> </ul>				
uplink codebook subset for the carrier(s) on a band capable of two antenna				
connectors on which UE supports dynamic UL 2Tx-2Tx switching with another				
band in the band combination. UE indicating support of full coherent codebook				
subset shall also support non-coherent codebook subset. If this field is absent,				
the per BC UE capability reported in uplinkTxSwitching-PUSCH-				
TransCoherence-r16 is applied, and if this field and uplinkTxSwitching-PUSCH-				
TransCoherence-r16 are both absent, the UE capability reported in pusch-				
TransCoherence is applied when uplink Tx switching is triggered between last				
transmitted SRS and scheduled PUSCH transmission, as specified in TS				
38.101-1 [2].				
NOTE: If UplinkTxSwitchingBandParameters-v1700 is absent for one or more				
bands of a band combination, the per BC UE capability reported in				
uplinkTxSwitching-PUSCH-TransCoherence-r16 is applied for				
corresponding band(s), and if uplinkTxSwitching-PUSCH-				
TransCoherence-r16 is also absent, the UE capability reported in pusch-				
TransCoherence is applied for corresponding band(s) when uplink Tx				
switching is triggered between last transmitted SRS and scheduled				
PUSCH transmission, as specified in TS 38.101-1 [2].				
uplinkTxSwitching-PUSCH-TransCoherence-r16	BC	No	N/A	FR1
Indicates support of the uplink codebook subset when uplink 1Tx-2Tx switching is				only
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.				

4.2.7.2 BandNR parameters

Definitions for parameters	Per	М	FDD-	FR1-
			TDD DIFF	FR2 DIFF
ack-NACK-FeedbackForMulticastWithDCI-Enabler-r17	Band	No	N/A	N/A
Indicates whether the UE supports DCI-based enabling/disabling ACK/NACK based HARQ-ACK feedback configured per G-RNTI by RRC signalling via DCI format 4_2.		-		
A UE supporting this feature shall also indicate support of ack-NACK-				
FeedbackForMulticast-r17 and dynamicMulticastDCI-Format4-2-r17.				
ack-NACK-FeedbackForSPS-MulticastWithDCI-Enabler-r17	Band	No	N/A	N/A
Indicates whether the UE supports DCI-based enabling/disabling ACK/NACK based HARQ-ACK feedback configured per G-CS-RNTI for multicast by RRC signalling via DCI format 4_2.				
A UE supporting this feature shall also indicate support of ack-NACK- FeedbackForSPS-Multicast-r17 and sps-MulticastDCI-Format4-2-r17.				
activeConfiguredGrant-r16	Band	No	N/A	N/A
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:				
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 LIF can include this feature only if the LIF indicates support of either				
configuredUI - GrantType1 or configuredUI - GrantType1-v1650 and/or				
configuredUL-GrantType2 or configuredUL-GrantType2-v1650.				
······································				
NOTE:				
<ul> <li>For all the reported bands in FR1, a same X1 value is reported for</li> </ul>				
maxNumberConfigsAllCC-r16. For all the reported bands in FR2, a same X2				
value is reported for maxNumberConfigsAllCC-r16.				
- The total number of configured/active configured grant configurations across				
all serving cells in FR1 is no greater than X1.				
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>maxivumberActive I CI-PerBWP</i> in tci-StatePDSCH is set to				
aneriodicReamReport	Band	Yes	Ν/Δ	N/A
Indicates whether the UE supports aperiodic 'CRI/RSRP' or 'SSBRI/RSRP' reporting	Dana	100	1 1/7 1	1 1/7 1
on PUSCH. The UE provides the capability for the band number for which the report				
is provided (where the measurement is performed).				
aperiodicCSI-RS-AdditionalBandwidth-r17	Band	No	FDD	FR1
Indicates the UE supported TRS bandwidths for fast SCell activation, in addition to			only	only
52 RBs, for a 10MHz UE channel bandwidth. This field only applies for the BWPs				
configured with 52 KBS Size and 15KHZ 505, IN FDD bands and indicates the values:				
Values. Value addBW-Set1 indicates 28, 32, 36, 40, 44, 48 RBs				
Value <i>addBW-Set2</i> indicates 32, 36, 40, 44, 48 RBs.				
The UE can include this feature only if the UE indicates support of <i>aperiodicCSI-RS</i> -				
	1			

aperiodicCSI-RS-FastScellActivation-r17 Indicates whether the UE supports aperiodic CSI-RS for tracking for fast SCell activation, i.e.	Band	No	N/A	N/A
<ol> <li>Aperiodic CSI-RS for tracking for fast SCell activation is triggered by enhanced SCell activation/deactivation MAC CE;</li> </ol>				
2) Aperiodic CSI-RS for tracking for fast SCell activation is triggered within the BWP indicated by <i>firstActiveDownlinkBWP-Id</i> for the SCell.				
This field includes the following parameters: - maxNumberAperiodicCSI-RS-PerCC-r17 indicates the maximum number of				
aperiodic CSI-RS resource set configurations for tracking for fast SCell activation that can be configured to UE per CC in a reported band. Value n8 corresponds to 8, n16 corresponds to 16, and so on.				
<ul> <li>maxNumberAperiodicCSI-RS-AcrossCCs-r17 indicates the maximum number of aperiodic CSI-RS resource set configurations for tracking for fast SCell activation that can be configured to UE across CCs in a reported band. Value n8 corresponds to 8, n16 corresponds to 16, and so on.</li> </ul>				
NOTE:				
<ul> <li><i>maxNumberAperiodicCSI-RS-PerCC-TT</i> and <i>maxNumberAperiodicCSI-RS-</i> <i>AcrossCCs-r17</i> values refer to the number of RS configurations for fast SCell activation that can be indicated by the MAC CE.</li> <li>The NZP-CSI-RS configured as RS for tracking for fast SCell activation are activated by the maximum NZP COL PO services of the service of the ser</li></ul>				
CSI-RS and CSI-IM reception for CSI feedback.				
aperiodicTRS 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				
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 LIE				
supports asymmetric channel bandwidth combination set 0. If the field is absent, the OL				
bandNR	Band	Yes	N/A	N/A
Defines supported NR frequency band by NR frequency band number, as specified in TS 38.101-1 [2], TS 38.101-2 [3], and TS 38.101-5 [34].				
beamCorrespondenceCSI-RS-based-r16	Band	NO	only	FR2 only
the ability to select its uplink beam based on measurement of CSI-RS. If a UE			Only	Only
supports beam correspondence based on CSI-RS, then the network can expect the UE to also fulfil Rel-15 beam correspondence requirements.				
If LIE supports pather heamCorrespondenceSSR-based-r16				
nor <i>beamCorrespondenceCSI-RS-based-r16</i> , gNB can expect the UE to fulfill beam correspondence based on Rel-15 beam correspondence requirements.				
beamCorrespondenceSSB-based-r16	Band	No	TDD	FR2
Indicates whether the UE support for beam correspondence based on SSB has the			only	only
beam correspondence based on SSB, then the network can expect the UE to also fulfil Rel-15 beam correspondence requirements.				
If UE supports neither beamCorrespondenceSSB-based-r16				
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				only
Loj, clause o.o. The UE that fulling 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.				

<ul> <li>beamManagementSSB-CSI-RS</li> <li>Defines support of SS/PBCH and CSI-RS based RSRP measurements. The capability comprises signalling of         <ul> <li>maxNumberSSB-CSI-RS-ResourceOneTx indicates maximum total number of configured one port NZP CSI-RS resources and SS/PBCH blocks that are</li> <li>unmented by the block that are</li> </ul> </li> </ul>	Band	Yes	N/A	FD
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.				
<ul> <li>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.</li> </ul>				
<ul> <li>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).</li> </ul>				
<ul> <li>supportedCSI-RS-Density indicates density of one RE per PRB for one port NZP CSI-RS resource for RSRP reporting, if supported. On FR2, it is mandatory to report either "three" or "oneAndThree"; On FR1, it is mandatory with capability signalling to report either "three" or "oneAndThree".</li> </ul>				
<ul> <li>maxNumberAperiodicCSI-RS-Resource indicates maximum number of configured aperiodic CSI-RS resources across all serving cells (see NOTE).</li> <li>For FR1 and FR2, the UE is mandated to report at least n4.</li> </ul>				
NOTE: If the UE sets a value other than $n0$ in an FR1 band, it shall set that same value in all FR1 bands. If the UE sets a value other than $n0$ 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, beamReportTiming-v1710	Band	Yes	N/A	N/A
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				
report is provided (where the measurement is performed). The UE includes this field				
for each supported sub-carrier spacing.				
beamSwitchTiming, beamSwitchTiming-v1710	Band	No	N/A	FR2
Indicates the minimum number of OFDM symbols between the DCI triggering of				only
symbols is measured from the end of the last symbol containing the indication to the start of the first symbol of CSI-RS. The UE includes this field for each supported				
sub-carrier spacing.				
NOTE: beamSwitch Liming of Value (sym224 or sym336 for 60kHz and 120kHz SCS sym896 or sym1344 for 480kHz SCS and sym1792 or sym2688 for				
960kHz SCS) 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				
unspecified for measuring AP CSI-RS for CSI acquisition (without trs-Info				
and without repetition) and for beam management (with repetition 'off').				
beamSwitchTiming-r16, beamSwitchTiming-r17	Band	No	N/A	FR2
Indicates the minimum number of required OFDM symbols (sym224, sym336 for 60kHz and 120kHz SCS, sym896 or sym1344 for 480kHz SCS and sym1792 or				only
sym2688 for 960kHz SCS) 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.				
sym48 if beamSwitchTiming-r16 is reported and enableBeamSwitchTiming-r16 is				
configured. For CSI-RS configured without repetition and without trs-info, the UE				
applies beam switch time of sym48 if <i>beamSwitchTiming-r16</i> is reported and enableBeamSwitchTiming-r16 is configured				
	1			

<i>bfd-Relaxation-r17</i> Indicates whether the UE supports BED relaxation criteria and requirement as	Band	No	N/A	N/A
specified in TS 38.133 [5]. UE shall set the capability value consistently for all FDD-				
FR1 bands, all TDD-FR1 bands, all TDD-FR2-1 bands and all TDD-FR2-2 bands				
respectively.				
UE indicating support of this feature shall also indicate support of maxNumberCSI-				
RS-BFD, maxNumberSSB-BFD and maxNumberCSI-RS-SSB-CBD.				
bwp-DiffNumerology	Band	No	N/A	N/A
Indicates whether the UE supports BWP adaptation up to 4 BWPs with the different				
numerologies, via DCI and timer. Except for SOL, the UE only supports the same				
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 the UE which is a RedCap UE capable of this feature, the handwidth of a UE apacific RPC configured DL RWR may not include				
the bandwidth of the CORESET#0 (if configured) and SSB for PCell. 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				
numerology, via Dor and timer. Exception OOL, the OL only supports the same				
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 the UE which is a RedCap UE capable of this feature, the handwidth of a LIE-specific RRC configured DL BWP may not include				
the bandwidth of the CORESET#0 (if configured) and SSB for PCell. 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
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.	Dand	No		
Indicates whether UE supports the cancellation of the (repetition of the) PUSCHs	Бапи	INO	IN/A	IN/A
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				
applicable to, If the UE supports this feature, the UE needs to report pa-				
PhaseDiscontinuityImpacts and ul-CancellationSelfCarrier-r16.				
cg-SDT-r17	Band	No	N/A	N/A
Indicates whether the UE supports transmission of data and/or signalling over				
SDT) as specified in TS 38 331 [9] Except for NTN bands UE shall set the				
capability value consistently for all FDD-FR1 bands, all TDD-FR1 bands and all				
TDD-FR2 bands respectively. For NTN, UE shall set the capability value				
consistently for all FDD-FR1 NTN bands.				
this feature and activeConfiguredGrant-r16: otherwise LIE only supports one CG-				
SDT configuration.				
channelBW-DL-IAB-r16	Band	No	N/A	N/A
Indicates whether the IAB-MT supports channel bandwidth of 100 MHz for a given				
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		-		
SCS in FR1 for UL or whether the IAB-MT supports channel bandwidth of 200 MHz				
I IOI A GIVEN SUS IN FRZ IOF UL.	1			

<i>channelBWs-DL</i> Indicates for each subcarrier spacing the UE supported channel bandwidths. 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 <i>channelBW-DL-IAB-r16</i> . 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 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 <i>channelBW-DL- IAB-r16</i> . 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 45MHz, the third leftmost bit indicates 35MHz, the fourth leftmost bit indicates 100MHz and all the remaining bits in <i>channelBWs-DL- 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]. For each band, RedCap UEs shall indicate supporting the maximum of those channel bandwidths that are less than or equal to 20 MHz for FR1 and less than or equal to 100 Mhz for FR2, taking restrictions in TS 38.101-1 [2] and TS 38.101-2 [3] into consideration. For each band, NTN capab	Band	Yes	N/A	N/A
This feature is applicable only for FR1 and FR2-1 band, otherwise it is absent.				
<ul> <li>NOTE: To determine whether the UE supports a specific SCS for a given band, the network validates the <i>supportedSubCarrierSpacingDL</i> and the <i>scs-60kHz</i>.</li> <li>To determine whether the UE supports a channel bandwidth of 90 MHz for the band combination with other bandwidth combination set than BCS5, the network may ignore this capability and validate instead the <i>channelBW-90mhz</i>, the <i>supportedBandwidthCombinationSetIntraENDC-v1790</i>. To determine whether the UE supports a channel bandwidth of 90 MHz for the band combination with BCS5, the network may ignore this capability and validate instead the <i>channelBW-90mbz</i>, the supportedBandwidthCombinationSetIntraENDC-v1790. To determine whether the UE supports a channel bandwidth of 90 MHz for the band combination with BCS5, the network may ignore this capability and validate instead the <i>channelBW-90mhz</i>, the <i>supportedBandwidthCombinationSetIntraENDC-v1790</i>. To determine whether the UE supports a channel bandwidth of 400 MHz, the network may ignore this capability and validate the <i>supportedBandwidthCombinationSetIntraENDC-v1790</i>. To determine whether the UE supports a channel bandwidth of 400 MHz, the network may ignore this capability and validate the <i>supportedBandwidthCombinationSetIntraENDC-v1790</i>. For serving cell(s) with other channel bandwidthS:</li> <li>If <i>supportedBandwidthCombinationSetIntraENDC-v1790</i>. For serving cell(s) with other channel SetIntraENDC, the <i>asymmetricBandwidthCombinationSetIntraENDC</i>, the <i>asymmetricBandwidthCombinationSetIntraENDC</i>, the <i>asymmetricBandwidthCombinationSetIntraENDC-v1790</i>.</li> <li>Otherwise, the network validates the <i>channelBW-sDL</i>, the supportedBandwidthDC-w1780, supportedBandwidthDC-w1780, supportedBandwidthDC-w1780, <i>supportedBandwidthDC-w1780</i>, <i>supportedBandwidthCombinationSetIntraENDC-v1790</i>.</li> <li>Otherwise, the network validates the <i>channelBWs-DL</i>, the <i>supportedBandwidthCombinationSetIntraENDC</i>, the <i>asymmetric channel bandwidthDL-v1780</i>, <i>supportedBandwidthDC-w1790</i>.<!--</td--><td></td><td></td><td></td><td></td></li></ul>				

<b>channelBWs-DL-SCS-120kHz-FR2-2-r17</b> Indicates the UE supported channel bandwidths in DL for the SCS 120kHz. The bits in <i>channelBWs-DL-SCS-120kHz-FR2-2</i> starting from the leading / leftmost bit indicate 100 and 400MHz. 100 and 400 MHz are mandatory channel bandwidths if the UE supports 120 kHz SCS (i.e. the bit for 100 and 400MHz shall always be set to 1). UE supporting this feature shall also indicate support of <i>dl-FR2-2-SCS-120kHz-r17</i> .	Band	CY	N/A	N/A
NOTE: To determine whether the UE supports a SCS 120kHz for a given band, the network validates the <i>supportedSubCarrierSpacingDL</i> . To determine the supported carrier bandwidths, the network validates the <i>channelBWs-DL-SCS-120kHz-FR2-2-r17</i> , the <i>supportedBandwidthCombinationSet</i> and the <i>supportedBandwidthDL-</i> v1710.				
<ul> <li>channelBWs-DL-SCS-480kHz-FR2-2-r17</li> <li>Indicates the UE supported channel bandwidths in DL for the SCS 480kHz.</li> <li>The bits in channelBWs-DL-SCS-480kHz-FR2-2 starting from the leading / leftmost bit indicate 400, 800 and 1600MHz.</li> <li>400 MHz is a mandatory channel bandwidth if the UE supports 480 kHz SCS (i.e. the bit for 400MHz shall always be set to 1).</li> <li>UE supporting this feature shall also indicate support of dl-FR2-2-SCS-480kHz-r17.</li> <li>NOTE: To determine whether the UE supports a SCS 480kHz for a given band, the network validates the supportedSubCarrierSpacingDL.</li> <li>To determine the supported carrier bandwidths, the network validates the channelBWs-DL-SCS-480kHz-FR2-2-r17, the supportedBandwidthCombinationSet and supportedBandwidthDL-v1710.</li> </ul>	Band	CY	N/A	N/A
<ul> <li>channelBWs-DL-SCS-960kHz-FR2-2-r17</li> <li>Indicates the UE supported channel bandwidths in DL for the SCS 960kHz. The bits in channelBWs-DL-SCS-960kHz-FR2-2 starting from the leading / leftmost bit indicate 400, 800,1600 and 2000MHz.</li> <li>400 MHz is a mandatory channel bandwidth if the UE supports 960 kHz SCS (i.e. the bit for 400MHz shall always be set to 1).</li> <li>UE supporting this feature shall also indicate support of dl-FR2-2-SCS-960kHz-r17.</li> <li>NOTE: To determine whether the UE supports a SCS 960kHz for a given band, the network validates the supportedSubCarrierSpacingDL. To determine the supported carrier bandwidths, the network validates the channelBWs-DL-SCS-960kHz-FR2-2-r17, the supportedBandwidthCombinationSet and supportedBandwidthDL-v1710.</li> </ul>	Band	CY	N/A	N/A

	Dered	Vaa		
ChannelBws-OL	Band	res	IN/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				
channelBW/s-LIL (without suffix) starting from the leading / leftmost hit indicate 50				
100 and 200 MHz. The third / rightmost bit (for 200 MHz) shall be set to 1. For LAP				
MT the third / rightmost bit (in 2001/12) shall be set to 1.10 hAB-				
MT the tille ( high and the state of 200 MHz, the network checks channel BM/ / //				
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>				
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]. For each				
band, RedCap UEs shall indicate supporting the maximum of those channel				
bandwidths that are less than or equal to 20 MHz for FR1 and less than or equal to				
100 Mhz for FR2, taking restrictions in TS 38,101-1 [2] and TS 38,101-2 [3] into				
consideration. For each band, NTN capable UEs shall indicate the supported				
channel bandwidths for FR1 taking restrictions in TS 38 101-5 [34] into				
consideration				
This feature is applicable only for FR1 and FR2-1 hand, otherwise it is absent				
NOTE 1: To determine whether the LIE supports a specific SCS for a given band				
the network voltates the supported supports a specific Social II and the ass				
To determine whether the UE supports a channel bandwidth of 90 MHz				
for the band combination with other bandwidth combination set than				
BCS5, the network may ignore this capability and validate instead the				
channelBW-90mhz, the supportedBandwidthCombinationSet, the				
supportedBandwidthCombinationSetIntraENDC, and				
supportedBandwidthCombinationSetIntraENDC-v1790. To determine				
whether the UE supports a channel bandwidth of 90 MHz for the band				
combination with BCS5, the network may ignore this capability and				
validate instead the channelBW-90mhz, the				
supportedBandwidthCombinationSet, the				
supportedBandwidthCombinationSetIntraENDC. supportedAggBW-FR1-				
r17, and supportedBandwidthCombinationSetIntraENDC-v1790. To				
determine whether the UE supports a channel bandwidth of 400 MHz				
the network may ignore this canability and validate the				
supported Bandwidth Combination Set the				
supportedBandwidthCombinationSetIntraFNDC the				
supported Bandwidth II and				
supported Bandwidth Combination SotIntra ENDC v1700				
Supported Dandwidth Combination Setting a Lind C-V 1790.				
For serving cell(s) with other channel bandwidths.				
- II supported Agg bw-FR F-FF is reported, 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]), supportedBandwidthUL-v1780,				
supportedMinBandwidthUL, supportedAggBW-FR1-r17, and				
supportedBandwidthCombinationSetIntraENDC-v1790.				
<ul> <li>Otherwise, the network validates the channelBWs-UL, the</li> </ul>				
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]), supportedBandwidthUL/supportedBandwidthI II -v1710				
supported MinBandwidth II supported AgaRW-FR2-r17 and				
supportedBandwidthCombinationSetIntraENDC-v1790.				

<ul> <li>NOTE 2: For SRS carrier switching to a PUSCH-less cell, to determine whether the UE supports a channel bandwidth 90MHz/400MHz for SRS configuration, the network validates the supported DL bandwidth, e.g. if the 90MHz is supported by the downlink, the network can configure SRS with 90MHz on the PUSCH-less carrier. SRS carrier switching on PUSCH-less SCells is not supported when channel bandwidth configured for DL is not supported in UL according to <i>channelBWs-UL</i>.</li> <li><i>ChannelBWs-UL-SCS-120kHz-FR2-2-r17</i></li> <li>Indicates the UE supported channel bandwidths in UL for the SCS 120kHz. The bits in <i>channelBWs-UL-SCS-120kHz-FR2-2</i> starting from the leading / leftmost bit indicate 100 and 400MHz.</li> </ul>	Band	СҮ	N/A	N/A
SCS (i.e. the bit for 100 and 400MHz shall always be set to 1). UE supporting this feature shall also indicate support of <i>ul-FR2-2-SCS-120kHz-r17</i> .				
NOTE: To determine whether the UE supports a SCS 120kHz for a given band, the network validates the <i>supportedSubCarrierSpacingUL</i> . To determine the supported carrier bandwidths, the network validates the <i>channelBWs-UL-SCS-120kHz-FR2-2-r17</i> , the				
supportedBandwidthCombinationSet and the supportedBandwidthUL- v1710				
<i>channelBWs-UL-SCS-480kHz-FR2-2-r17</i> Indicates the UE supported channel bandwidths in UL for the SCS 480kHz. The bits in <i>channelBWs-UL-SCS-480kHz-FR2-2</i> starting from the leading / leftmost bit indicate 400, 800 and 1600MHz. 400 MHz is a mandatory channel bandwidth if the UE supports 480 kHz SCS (i.e. the bit for 400MHz shall always be set to 1). UE supporting this feature shall also indicate support of <i>ul-FR2-2-SCS-480kHz-r17</i> .	Band	CY	N/A	N/A
NOTE: To determine whether the UE supports a SCS 480kHz for a given band, the network validates the <i>supportedSubCarrierSpacingUL</i> . To determine the supported carrier bandwidths, the network validates the <i>channelBWs-UL-SCS-480kHz-FR2-2-r17</i> , the <i>supportedBandwidthCombinationSet</i> and <i>supportedBandwidthUL-v1710</i> .				
<i>channelBWs-UL-SCS-960kHz-FR2-2-r17</i> Indicates the UE supported channel bandwidths in UL for the SCS 960kHz. The bits in <i>channelBWs-UL-SCS-960kHz-FR2-2</i> starting from the leading / leftmost bit indicate 400, 800, 1600 and 2000MHz.	Band	CY	N/A	N/A
400 MHz is a mandatory channel bandwidth if the UE supports 960 kHz SCS (i.e. the bit for 400MHz shall always be set to 1). UE supporting this feature shall also indicate support of <i>ul-FR2-2-SCS-960kHz-r17</i> .				
NOTE: To determine whether the UE supports a SCS 960kHz for a given band, the network validates the <i>supportedSubCarrierSpacingUL</i> . To determine the supported carrier bandwidths, the network validates the <i>channelBWs-UL-SCS-960kHz-FR2-2-r17</i> , the <i>supportedBandwidthCombinationSet</i> and <i>supportedBandwidthUL-v1710</i> .				

<ul> <li>codebookComboParameterMixedType-r17</li> <li>Indicates the support of active CSI-RS resources and ports for mixed codebook types in any slot. The UE reports support active CSI-RS resources and ports for up to 4 mixed codebook combinations in any slot. The following are the possible mixed codebook combinations {Codebook1, Codebook2, Codebook3}: <ul> <li>type1SP-feType2PS-null-r17 indicates {Type 1 Single Panel, FeType II PS M=1, NULL}</li> <li>type1SP-feType2PS-M2R1-null-r17 indicates {Type 1 Single Panel, FeType II PS M=2 R=1, NULL}</li> <li>type1SP-feType2PS-M2R2-null-r17 indicates {Type 1 Single Panel, FeType II PS M=2 R=2, NULL}</li> <li>type1SP-Type2-feType2-PS-M1-r17 indicates {Type 1 Single Panel, FeType II PS M=2 R=2, NULL}</li> </ul> </li> </ul>	Band	No	N/A	N/A
<ul> <li>type1SP-Type2-teType2-PS-M2R1-r17 indicates {Type 1 Single Panel, Type II, FeType II PS M=2 R=1}</li> <li>type1SP-eType2R1-feType2-PS-M1-r17 indicates {Type 1 Single Panel, eType II R=1, FeType II PS M=1}</li> <li>type1SP-eType2R1-feType2-PS-M2R1-r17 indicates (Type 1 Single Panel)</li> </ul>				
<ul> <li>eType II R=1, FeType II PS M=2 R=1}</li> <li>type1MP-feType2PS-null-r17 indicates {Type 1 Multi Panel, FeType II PS M=1, NULL}</li> <li>type1MP-feType2PS-M2R1-null-r17 indicates {Type 1 Multi Panel, FeType II</li> </ul>				
<ul> <li>PS M=2 R=1, NULL}</li> <li>type1MP-feType2PS-M2R2-null-r17 indicates {Type 1 Multi Panel, FeType II PS M=2 R=2, NULL}</li> <li>type1MP-Type2-feType2-PS-M1-r17 indicates {Type 1 Multi Panel, Type II, FeType II PS M=1}</li> </ul>				
<ul> <li>type1MP-Type2-feType2-PS-M2R1-r17 indicates {Type 1 Multi Panel, Type II, FeType II PS M=2 R=1}</li> <li>type1MP-eType2R1-feType2-PS-M1-r17 indicates {Type 1 Multi Panel, eType II R=1, FeType II PS M=1}</li> <li>type1MP-eType2R1-feType2-PS-M2R1-r17 indicates {Type 1 Multi Panel, eType II R=1, FeType II PS M=2 R=1}</li> </ul>				
<ul> <li>For each mixed codebook supported by the UE, <i>supportedCSI-RS-ResourceListAdd-r16</i> indicates the list of supported CSI-RS resources in a band by referring to <i>codebookVariantsList</i>. The following parameters are included for the supported CSI-RS resource: <ul> <li><i>maxNumberTxPortsPerResource</i> indicates the maximum number of Tx ports in a resource of a band. The minimum of <i>maxNumberTxPortsPerResource</i> is 'p4';</li> <li><i>maxNumberResourcesPerBand</i> indicates the maximum number of resources across all CCs in a band;</li> <li><i>totalNumberTxPortsPerBand</i> indicates the total number of Tx ports across all CCs in a band. The minimum value of <i>totalNumberTxPortsPerBand</i> is 4.</li> </ul> </li> </ul>				
The UE supporting this feature shall indicate the support of individual codebook types in the reported mixed codebook combination among <i>fetype2basic-r17</i> , <i>etype2R1-r16</i> , <i>CodebookComboParametersAddition-r16</i> , <i>supportedCSI-RS-ResourceList</i> , <i>fetype2R1-r17</i> , <i>fetype2R2-r17</i> .				

codebookComboParameterMultiTRP-r17	Band	No	N/A	N/A
Indicates the support of active CSI-RS resources and ports in the presence of multi-				
IRP CSI. Indicates the support of active CSI-RS resources and ports for mixed codebook				
types in any slot. The UE reports supported active CSI-RS resources and ports for				
up to 4 mixed codebook combinations. The following are the possible mixed				
codebook combinations {Codebook1, Codebook2, Codebook3}:				
- nCJ1-null-null indicates (NCJ1, NULL, NULL)				
- <i>nCJT-Type2-null-r16</i> indicates {NCJT-Type 7 SF for STRF, NOLL, NOLL}				
- nCJT-Type2PS-null-r16 indicates {NCJT, Type 2 with port selection, Null}				
<ul> <li>nCJT-eType2R1-null-r16 indicates {NCJT, eType 2 with R=1, Null}</li> </ul>				
<ul> <li>nCJT-eType2R2-null-r16 indicates {NCJT, eType 2 with R=2, Null}</li> <li>nCJT-aType2R4D2 with r40 indicates (NO IT a Type 2 with R 4 and a set)</li> </ul>				
- nCJT-eType2RTPS-null-rTo Indicates {NCJT, eType 2 with R=T and port selection Null}				
- nCJT-eType2R2PS-null-r16 indicates {NCJT. eType 2 with R=2 and port				
selection, Null}				
- nCJT-Type2-Type2PS-r16 indicates {NCJT, Type 2, Type 2 with port				
selection}				
Null				
- nCJT1SP-Type2PS-null-r16 indicates {NCJT+Type 1 SP for sTRP, Type 2				
with port selection, Null}				
- nCJ11SP-eType2R1-null-r16 indicates {NCJ1+Type 1 SP for sTRP, eType 2 with P=1. Null				
- nCJT1SP-eTvpe2R2-null-r16 indicates {NCJT+Tvpe 1 SP for sTRP, eTvpe 2				
with R=2, Null}				
<ul> <li>nCJT1SP-eType2R1PS-null-r16 indicates {NCJT+Type 1 SP for sTRP,</li> </ul>				
eType 2 with R=1 and port selection, Null}				
<ul> <li>nCJTTSP-eType2R2PS-null-r16 indicates {NCJT+Type TSP for STRP, eType 2 with R=2 and port selection. Null}</li> </ul>				
- <i>nCJT1SP-Type2-Type2PS-r16</i> indicates {NCJT+Type 1 SP for sTRP, Type				
2, Type 2 with port selection}				
<ul> <li>nCJT-feType2PS-null-r17 indicates {NCJT, FeType II PS M=1, NULL}</li> <li>nCJT feType2PS M2D4 mult r17 indicates {NCJT, FeType II PS M=2 P</li> </ul>				
- Incut-letypezP3-luzR1-hull-r17 indicates (NCUT, Fetype if P3 M=2 R=1, NULL1)				
- nCJT-feType2PS-M2R2-null-r17 indicates {NCJT, FeType II PS M=2 R=2,				
NULL}				
<ul> <li>nCJT-Type2-feType2-PS-M1-r17 indicates {NCJT, Type II, FeType II PS</li> </ul>				
NI=1} - nC/IT-Type2-feType2-PS-M2R1-r17 indicates {NC/IT_Type II_FeType II_PS				
M=2 R=1				
<ul> <li>nCJT-eType2R1-feType2-PS-M1-r17 indicates {NCJT, eType II R=1,</li> </ul>				
FeType II PS M=1}				
- <i>Incuite Type2R1-le Type2-PS-INZR1-FTT</i> indicates (NCUI, eType II R=1, FeType II PS M=2 R=1)				
- <i>nCJT1SP-feType2PS-null-r17 indicates</i> {NCJT+Type 1 SP for sTRP, FeType				
II PS M=1, NULL}				
- nCJT1SP-feType2PS-M2R1-null-r17 indicates {NCJT+Type 1 SP for sTRP,				
FeType II PS M=2 K=1, NULL} - nC IT1SP-feType2PS-M2R2-null-r17 indicates {NC.IT+Type 1 SP for sTRP				
FeType II PS M=2 R=2, NULL}				
- nCJT1SP-Type2-feType2-PS-M1-r17 indicates {NCJT+Type 1 SP for sTRP,				
Type II, FeType II PS M=1}				
<ul> <li>STRP Type II FeType II PS M=2 R=13</li> </ul>				
- nCJT1SP-eType2R1-feType2-PS-M1-r17 indicates {NCJT+Type 1 SP for				
sTRP, eType II R=1, FeType II PS M=1}				
- nCJT1SP-eType2R1-feType2-PS-M2R1-r17 indicates {NCJT+Type 1 SP for				
STRP, etype II R=1, retype II PS M=2 R=1}				
For each mixed codebook supported by the UE, supportedCSI-RS-				
ResourceListAdd-r16 indicates the list of supported CSI-RS resources in a band by				
reterring to codebookVariantsList. The following parameters are included in				
- maxNumberTxPortsPerResource indicates the maximum number of Tx				
ports in a resource of a band combination.				

<ul> <li>maxNumberResourcesPerBand indicates the maximum number of resources across all CCs in a band combination.</li> <li>totalNumberTxPortsPerBand indicates the total number of Tx ports across all CCs in a band combination.</li> <li>NOTE 1: A CMR pair configured for NCJT will be counted as two activated resources, a CMR configured for sTRP will be counted as one activate resource for a triplet.</li> <li>NOTE 2: This capability is relevant only when UE is configured with NCJT CSI</li> </ul>	ed			
at least one CSI report setting in at least one CC in the band and/or bacombination. The UE indicating support of this feature shall also indicate the support of <i>mTRP</i>	and			
CSI-EnhancementPerBand-r17.				
<b>codebookComboParametersAddition-r16</b> Indicates the UE supports the mixed codebook combinations and the correspond parameters supported by the UE.	Band	No	N/A	N/A
For mixed codebook types, UE reports support active CSI-RS resources and por for up to 4 mixed codebook combinations in any slot. The following is the possibl mixed codebook combinations:	rts e			
<ul> <li>{Type 1 Single Panel, Type 2, Null}</li> <li>{Type 1 Single Panel, Type 2 with port selection, Null}</li> <li>{Type 1 Single Panel, eType 2 with R=1, Null}</li> <li>{Type 1 Single Panel, eType 2 with R=2, Null}</li> <li>{Type 1 Single Panel, eType 2 with R=1 and port selection, Null}</li> <li>{Type 1 Single Panel, eType 2 with R=2 and port selection, Null}</li> <li>{Type 1 Single Panel, Type 2, Type 2 with port selection}</li> <li>{Type 1 Multi Panel, Type 2, Null}</li> <li>{Type 1 Multi Panel, eType 2 with R=1, Null}</li> <li>{Type 1 Multi Panel, eType 2 with R=1, Null}</li> <li>{Type 1 Multi Panel, eType 2 with R=1, Null}</li> <li>{Type 1 Multi Panel, eType 2 with R=2, Null}</li> <li>{Type 1 Multi Panel, eType 2 with R=2, Null}</li> <li>{Type 1 Multi Panel, eType 2 with R=2 with port selection, Null}</li> <li>{Type 1 Multi Panel, eType 2 with R=2 with port selection, Null}</li> <li>{Type 1 Multi Panel, eType 2 with R=1 with port selection, Null}</li> <li>{Type 1 Multi Panel, eType 2 with R=2 with port selection, Null}</li> <li>{Type 1 Multi Panel, eType 2 with R=2 with port selection, Null}</li> <li>{Type 1 Multi Panel, eType 2 with R=2 with port selection, Null}</li> <li>{Type 1 Multi Panel, eType 2 with R=2 with port selection, Null}</li> </ul>				
<ul> <li>Parameters for each mixed codebook supported by the UE:</li> <li>supportedCSI-RS-ResourceListAdd-r16 indicates the list of supported CS RS resources in a band by referring to codebookVariantsList. The following parameters are included in codebookVariantsList.</li> </ul>	si- ng			
<ul> <li>For supportedCSI-RS-ResourceListAdd-r16 related to the additional codebooks:</li> <li>The minimum of maxNumberTxPortsPerResource is 'p4';</li> <li>The minimum value of totalNumberTxPortsPerBand is 4.</li> </ul>				
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 with 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. A UE that indicates support of a codebook type in the mixed codebook combination shall indicate support of the individual codebook type in the per band capability.	ithin o ion			

	<b>.</b>		<b>N</b> 1/A	<b>N</b> 1 / A
codebookParameters Indicates the codebooks and the corresponding parameters supported by the UE.	Band	FD	N/A	N/A
<ul> <li>Parameters for type I single panel codebook (type1 singlePanel) supported by the UE, which are mandatory to report: <ul> <li>supportedCSI-RS-ResourceList;</li> <li>a UE shall support a maxNumberTxPortsPerResource minimum value of 4 for codebook type I single panel in FR1 in the case of a single active CSI-resource across all bands in a band combination, regardless of what it reports in supportedCSI-RS-ResourceList with maxNumberTxPortsPerResource;</li> <li>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 supportedCSI-RS-ResourceList with maxNumberTxPortsPerResource;</li> <li>a UE shall support a maxNumberTxPortsPerResource 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;</li> <li>a UE shall support a maxNumberTxPortsPerResource 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.</li> </ul> </li> <li>modes indicates supported codebook modes (mode 1, both mode 1 and mode 2);</li> <li>maxNumberCSI-RS-PerResourceSet indicates the maximum number of CSI-RS resource in a resource set.</li> </ul>				
<ul> <li>Parameters for type I multi-panel codebook (type1 multiPanel) supported by the UE, which are optional: <ul> <li>supportedCSI-RS-ResourceList,</li> <li>modes indicates supported codebook modes (mode 1, mode 2, or both mode 1 and mode 2);</li> <li>maxNumberCSI-RS-PerResourceSet indicates the maximum number of CSI-RS resource in a resource set;</li> <li>nrofPanels indicates supported number of panels.</li> </ul> </li> </ul>				
<ul> <li>Parameters for type II codebook (type2) supported by the UE, which are optional:</li> <li>supportedCSI-RS-ResourceList;</li> <li>parameterLx indicates the parameter "Lx" in codebook generation where x is an index of Tx ports indicated by maxNumberTxPortsPerResource;</li> <li>amplitudeScalingType indicates the amplitude scaling type supported by the UE (wideband or both wideband and sub-band);</li> <li>amplitudeSubsetRestriction indicates whether amplitude subset restriction is supported for the UE.</li> </ul>				
<ul> <li>Parameters for type II codebook with port selection (type2-PortSelection) supported by the UE, which are optional: <ul> <li>supportedCSI-RS-ResourceList;</li> <li>parameterLx indicates the parameter "Lx" in codebook generation where x is an index of Tx ports indicated by maxNumberTxPortsPerResource;</li> <li>amplitudeScalingType indicates the amplitude scaling type supported by the UE (wideband or both wideband and sub-band).</li> </ul> </li> </ul>				
<ul> <li>supportedCSI-RS-ResourceList includes list of the following parameters:</li> <li>maxNumberTxPortsPerResource indicates the maximum number of Tx ports in a resource;</li> <li>maxNumberResourceSPerBand indicates the maximum number of resources across all CCs within a band simultaneously;</li> <li>totalNumberTxPortsPerBand indicates the total number of Tx ports across all CCs within a band simultaneously.</li> <li>For each codebook type, the UE may report another list of supported CSI-RS resources via supportedCSI-RS-ResourceListAlt in codebookParametersPerBand.</li> <li>For type I single panel codebook (type1 singlePanel) supportedCSI-RS-ResourceListAlt,</li> <li>a UE shall report at least one triplet in supportedCSI-RS-ResourceListAlt with maxNumberTxPortsPerResource greater than or equal to 8 for FR1;</li> </ul>				

- a UE shall report at least one triplet in supportedCSI-RS-ResourceListAlt				
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
<ul> <li>Codebook etype 2 R=1 support parameter combination 1 to 6 and rank 1 to 2. Parameters for etype 2 R=1 (<i>etype2R1-r16</i>) supported by the UE, which are optional:</li> <li>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.</li> <li>maxNumberTxPortsPerResource indicates the maximum number of Tx ports in a resource of a band;</li> <li>maxNumberResourcesPerBand indicates the maximum number of resources across all CCs in a band, simultaneously;</li> <li>totalNumberTxPortsPerResource of parameter combinations 7-8 for etype 2 R=1</li> <li>rank3-4-r16 indicates the support of rank 3,4.</li> <li>amplitudeSubsetRestriction-r16 indicates the support of amplitude subset restriction.</li> </ul>				
Parameters for etype 2 R=2 ( <i>etype2R2-r16</i> ) supported by the UE, which are optional:				
UE supporting etype2R2-r16supports also indicates support of etype2R1-r16.				
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 ( <i>etype2R1-PortSelection-r16</i> ) supported by the UE, which are optional: - <i>supportedCSI-RS-ResourceListAdd-r16</i> ; - <i>rank3-4-r16</i> 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 <i>etype2R2-PortSelection-r16</i> also indicates support of <i>etype2R1-PortSelection-r16</i> .				
<ul> <li>For supportedCSI-RS-ResourceListAdd-r16 related to the additional codebooks:</li> <li>The minimum of maxNumberTxPortsPerResource is 'p4';</li> <li>The minimum value of totalNumberTxPortsPerBand is 4.</li> </ul>				

<i>codebookParametersfetype2-r17</i> Indicates the UE support of additional codebooks and the corresponding parameters supported by the UE of Further Enhanced Port-Selection Type II Codebook (FeType-II) as specified in TS 38.214 [12] clause 5.2.2.2.7.	Band	No	N/A	N/A
<ul> <li>features of FeType-II. This capability signalling comprises the following parameters:</li> <li>indicates the list of supported CSI-RS resources in a band by referring to codebookVariantsList. The following parameters are included in codebookVariantsList.</li> </ul>				
<ul> <li>maxNumberTxPortsPerResource indicates the maximum number of Tx ports in a resource of a band</li> <li>maxNumberResourcesPerBand indicates the maximum number of resources across all CCs in a band, simultaneously</li> </ul>				
<ul> <li>totalNumber1xPortsPerBand indicates the total number of 1x ports across all CCs in a band, simultaneously</li> <li>The UE indicating <i>fetype2basic-r17</i> shall support parameter combinations with M=1 and support rank 1 and 2. UE indicating this feature shall also include <i>csi-ReportFramework</i>.</li> </ul>				
The UE optionally includes <i>fetype2R1-r17</i> to indicate whether the UE supports M=2 and R=1 for FeType-II. This capability signalling comprises the following parameters: - indicates the list of supported CSI-RS resources in a band by referring to				
codebookVariantsList. The UE indicating support of <i>fetype2R1-r17</i> shall also indicate support of <i>fetype2basic-r17</i> and parameter combinations with M=2.				
The UE optionally includes <i>fetype2R2-r17</i> to indicate whether the UE supports R=2 for FeType-II. This capability signalling comprises the following parameters: - indicates the list of supported CSI-RS resources in a band by referring to <i>codebookVariantsList.</i>				
UE indicating support of <i>fetype2R2-r17</i> shall also indicate support of <i>fetype2R1-r17</i> . The UE optionally includes <i>fetype2Rank3Rank4-r17</i> to indicate whether the UE				
supports rank = 3 and rank = 4 for FeType-II. UE indicating support of <i>fetype2Rank3Rank4-r17</i> shall indicate support of <i>fetype2basic-r17</i> .				
<ul> <li>For codebookVariantsList related to the FeType-II:</li> <li>The minimum of maxNumberTxPortsPerResource is 'p4';</li> <li>The minimum value of totalNumberTxPortsPerBand is 4.</li> </ul>				
<i>condHandover-r16</i> Indicates whether the UE supports conditional handover including execution condition, candidate cell configuration and maximum 8 candidate cells. Except for NTN bands, UE shall set the capability value consistently for all FDD-FR1 bands, all TDD-FR1 bands, all TDD-FR2-1 bands and all TDD-FR2-2 bands respectively. For NTN, UE shall set the capability value consistently for all FDD-FR1 NTN bands.	Band	No	N/A	N/A
<i>condHandoverFailure-r16</i> Indicates whether the UE supports conditional handover during re-establishment procedure when the selected cell is configured as candidate cell for condition handover. Except for NTN bands, UE shall set the capability value consistently for all FDD-FR1 bands, all TDD-FR1 bands, all TDD-FR2-1 bands and all TDD-FR2-2 bands respectively. For NTN, UE shall set the capability value consistently for all FDD-FR1 NTN bands.	Band	No	N/A	N/A
<b>condHandoverTwoTriggerEvents-r16</b> 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> . Except for NTN bands, UE shall set the capability value consistently for all FDD-FR1 bands, all TDD-FR1 bands, all TDD-FR2-1 bands and all TDD-FR2-2 bands respectively. For NTN, UE shall set the capability value consistently for all FDD-FR1 NTN bands.	Band	CY	N/A	N/A
<b>condPSCellChange-r16</b> 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, all TDD-FR2-1 bands and all TDD-FR2-2 bands respectively.	Band	No	N/A	N/A

<i>condPSCellChangeTwoTriggerEvents-r16</i> Indicates whether the UE supports 2 trigger events for same execution condition. 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, all TDD-FR2-1 bands and all TDD-FR2-2 bands respectively.	Band	CY	N/A	N/A
<b>configuredUL-Grant Type1-v1650</b> 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, <i>configuredUL-GrantType1-r16</i> applies. UE shall set the capability value consistently for all FDD-FR1 bands, all TDD-FR1 bands, all TDD-FR2-1 bands and all TDD- FR2-2 bands respectively. The UE only includes <i>configuredUL-GrantType1-v1650</i> if <i>configuredUL-GrantType1</i>	Band	No	N/A	N/A
Is absent. <b>configuredUL-GrantType2-v1650</b> 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 shall set the capability value consistently for all FDD-FR1 bands, all TDD-FR1 bands, all TDD-FR2-1 bands and all TDD- FR2-2 bands respectively. The UE only includes <i>configuredUL-GrantType2</i> -v1650 if <i>configuredUL-GrantType2</i> is absent.	Band	No	N/A	N/A
cqi-4-BitsSubbandNTN-SharedSpectrumChAccess-r17 Indicates whether the UE supports CQI reporting with 4 bits per subband for NTN and shared spectrum channel access.	Band	No	N/A	N/A
crossCarrierScheduling-SameSCS 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.	Band	No	N/A	N/A
<ul> <li>csi-ReportFramework</li> <li>Indicates whether the UE supports CSI report framework. This capability signalling comprises the following parameters: <ul> <li>maxNumberPeriodicCSI-PerBWP-ForCSI-Report indicates the maximum number of periodic CSI report setting per BWP for CSI report;</li> <li>maxNumberPeriodicCSI-PerBWP-ForBeamReport indicates the maximum number of periodic CSI report setting per BWP for beam report.</li> <li>maxNumberAperiodicCSI-PerBWP-ForCSI-Report indicates the maximum number of aperiodic CSI report setting per BWP for CSI report;</li> <li>maxNumberAperiodicCSI-PerBWP-ForBeamReport indicates the maximum number of aperiodic CSI report setting per BWP for CSI report;</li> <li>maxNumberAperiodicCSI-PerBWP-ForBeamReport indicates the maximum number of aperiodic CSI report setting per BWP for beam report;</li> <li>maxNumberAperiodicCSI-triggeringStatePerCC indicates the maximum number of aperiodic CSI triggering states in CSI-AperiodicTriggerStateList per CC;</li> <li>maxNumberSemiPersistentCSI-PerBWP-ForCSI-Report indicates the maximum number of semi-persistent CSI report setting per BWP for CSI report;</li> <li>maxNumberSemiPersistentCSI-PerBWP-ForBeamReport indicates the maximum number of semi-persistent CSI report setting per BWP for CSI report;</li> <li>maxNumberSemiPersistentCSI-PerBWP-ForBeamReport indicates the maximum number of semi-persistent CSI report setting per BWP for beam report;</li> <li>maxNumberSemiPersistentCSI-PerBWP-ForBeamReport indicates the maximum number of semi-persistent CSI report setting per BWP for beam report;</li> <li>simultaneousCSI-ReportsPerCC indicates the number of CSI report(s) for which the UE can measure and process reference signals simultaneously in a CC of the band for which this capability is provided. The CSI report comprises periodic, semi-persistent and aperiodic CSI and any latency classes and codebook types. The CSI report in simultaneousCSI-Report.</li> </ul> </li> <li>The UE is mandated to report csi-ReportFramework.</li> </ul>	Band	Yes	N/A	N/A

Indicates whether the UE supports the extension of the maximum number of configured aperiodic CSI report settings for all codebook types. The capability	Danu	INO	N/A	IN/A
signalling comprises the following:				
<i>maxNumberAperiodicCSI-PerBWP-ForCSI-ReportExt-r16</i> indicates the extended maximum number of aperiodic CSI report setting per BWP for CSI report. If present, the value of <i>maxNumberAperiodicCSI-PerBWP-ForCSI-Report-r16</i> shall replace the				
corresponding value in csi-ReportFramework.				
csi-RS-ForTracking	Band	Yes	N/A	N/A
Indicates support of CSI-RS for tracking (i.e. TRS). This capability signalling				
comprises the following parameters:				
<ul> <li>maxBurstLength indicates the TRS burst length. Value 1 indicates 1 slot and value 2 indicates both of 1 slot and 2 slots. In this release UE is mandated to report value 2;</li> </ul>				
<ul> <li>maxSimultaneousResourceSetsPerCC indicates the maximum number of TRS resource sets per CC which the UE can track simultaneously;</li> </ul>				
<ul> <li>maxConfiguredResourceSetsPerCC indicates the maximum number of TRS resource sets configured to UE per CC. It is mandated to report at least 8 for FR1 and 16 for FR2;</li> </ul>				
- maxConfiguredResourceSetsAllCC indicates the maximum number of TRS resource sets configured to UE across CCs. If the UE includes the field in an FR1 band, it shall set the same value in all FR1 bands. If the UE includes the field in an FR2 band, it shall set the same value in all 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 part that the FR2 value across the FR1 bands.				
momore than the FR2 value across all FR2 serving cells. The UE is mandated to report at least 16 for FR1 and 32 for FR2.				
The UE is mandated to report csi-RS-ForTracking.				
<ul> <li>csi-RS-IM-ReceptionForFeedback</li> <li>Indicates support of CSI-RS and CSI-IM reception for CSI feedback. This capability signalling comprises the following parameters:         <ul> <li>maxConfigNumberNZP-CSI-RS-PerCC indicates the maximum number of configured NZP-CSI-RS resources per CC:</li> </ul> </li> </ul>	Band	Yes	N/A	N/A
<ul> <li>maxConfigNumberPortsAcrossNZP-CSI-RS-PerCC indicates the maximum number of ports across all configured NZP-CSI-RS resources per CC;</li> </ul>				
<ul> <li>maxConfigNumberCSI-IM-PerCC indicates the maximum number of configured CSI-IM resources per CC;</li> </ul>				
<ul> <li>maxNumberSimultaneousNZP-CSI-RS-PerCC indicates the maximum number of simultaneous CSI-RS-resources per CC;</li> </ul>				
<ul> <li>totalNumberPortsSimultaneousNZP-CSI-RS-PerCC indicates the total number of CSI-RS ports in simultaneous CSI-RS resources per CC.</li> </ul>				
The UE is mandated to report csi-RS-IM-ReceptionForFeedback.				
csi-RS-ProcFrameworkForSRS	Band	No	N/A	N/A
Indicates support of CSI-RS processing framework for SRS. This capability	- 3.10			
signalling comprises the following parameters: - maxNumberPeriodicSRS-AssocCSI-RS-PerBWP indicates the maximum				
number of periodic SRS resources associated with CSI-RS per BWP;				
<ul> <li>maxNumberAperiodicSRS-AssocCSI-RS-PerBWP indicates the maximum number of aperiodic SRS resources associated with CSI-RS per BWP;</li> </ul>				
<ul> <li>maxNumberSP-SRS-AssocCSI-RS-PerBWP indicates the maximum number of semi-persistent SRS resources associated with CSI-RS per BWP;</li> </ul>				
- <i>simultaneousSRS-AssocCSI-RS-PerCC</i> indicates the number of SRS resources that the UE can process simultaneously in a CC, including periodic, aperiodic and semi-persistent SRS.				

defaultQCL-PerCORESETPoolIndex-r16	Band	No	N/A	FR2
Indicates whether the UE supports default QCL assumption per CORESET pool				only
index using multi-DCI based multi-TRP. The UE that indicates support of this				-
feature shall support <i>multiDCI-MultiTRP-r16</i> and <i>simultaneousReceptionDiffTypeD-</i>				
r16.				
defaultQCL-TwoTCI-r16	Band	No	N/A	FR2
Indicates whether the UE supports default QCL assumption with two TCI states				only
using single-DCI based multi-TRP. The UE can include this field only if				
simultaneousReceptionDiff I ypeD-r16 is present. Otherwise, the UE does not				
Include this field.	Pond	No	ΝΙ/Δ	NI/A
Indicator whether the LIE supports DM PS bundling for non-back to back	Бапа		IN/A	IN/A
transmission for consecutive slots for PLISCH and PLICCH only for corresponding				
supported back-to-back transmission as reported in <i>dmrs-BundlingPUSCH</i> -				
RepTypeA-r17. dmrs-BundlinaPUSCH-RepTypeB-r17. dmrs-BundlinaPUSCH-				
multiSlot-r17 or dmrs-BundlingPUCCH-Rep-r17. The UE is considered to support				
the feature in a band of a band combination if the UE indicates support of the				
feature for the corresponding band and for the band combination.				
UE indicating support of this feature shall also indicate support of at least one of				
dmrs-BundlingPUSCH-RepTypeA-r17, dmrs-BundlingPUSCH-RepTypeB-r17,				
dmrs-BundlingPUSCH-multiSlot-r17 or dmrs-BundlingPUCCH-Rep-r17.				
dmrs-BundlingPUCCH-Rep-r17	Band	No	N/A	N/A
Indicates whether the UE supports DM-RS bundling for PUCCH repetitions for				
PUCCH formats 1/3/4 over consecutive symbols. The UE is considered to support				
the feature in a band of a band combination if the UE indicates support of the				
UE indicating support of this feature shall also indicate support of				
maxDurationDMRS-Bundling-r17 and pucch-Repetition-F1-3-4.				
dmrs-BundlingPUSCH-multiSlot-r17	Band	No	N/A	N/A
Indicates whether the UE supports DM-RS bundling for TB processing over multi-				
slot PUSCH over consecutive symbols. The UE is considered to support the feature				
in a band of a band combination if the UE indicates support of the feature for the				
corresponding band and for the band combination.				
LIE indicating support of this facture shall also indicate support of				
maxDurationDMRS-Rundling-r17 and th-ProcessingMultiSlotPLISCH-r17				
dmrs-BundlingPUSCH-RepTypeA-r17	Band	No	N/A	N/A
Indicates whether the UE supports DM-RS bundling for PUSCH repetition type A	Dana		11//	1.1/7.1
over consecutive symbols. The UE is considered to support the feature in a band of				
a band combination if the UE indicates support of the feature for the corresponding				
band and for the band combination.				
UE indicating support of this feature shall also indicate support of				
maxDurationDMRS-Bundling-r17 and at least one of type1-PUSCH-				
RepetitionMultiSlots, type2-PUSCH-RepetitionMultiSlots or pusch-				
RepetitionMultiSlots.	<u> </u>			
amrs-BunalingPUSCH-RepTypeB-r17	Band	No	N/A	N/A
indicates whether the UE supports DM-RS bundling for PUSCH repetition type B				
a hand combination if the UE indicates support of the feature for the corresponding				
band and for the band combination				
UE indicating support of this feature shall also indicate support of				
maxDurationDMRS-Bundling-r17 and pusch-RepetitionTypeB-r16.				

			/ .	
dmrs-BundlingRestart-r17 Indicates whether the UE supports restarting DM-RS bundling after the events	Band	No	N/A	N/A
The LIE is considered to support the feature in a hand of a hand combination if the				
LIE indicates support of the feature for the corresponding hand and for the hand				
combination.				
UE indicating support of this feature shall also indicate support of				
maxDurationDMRS-Bundling-r17.				
NOTE: Events which are triggered by DCI or MAC CE, but do not require UE				
capability to resume maintaining power consistency and/or phase				
continuity as specified in clause 6.1.7 of TS 38.214 [12] are excluded				
from this feature.	<b>.</b>			
dynamicMulticastDCI-Format4-2-r17	Band	NO	N/A	N/A
Indicates whether the UE supports DUI format 4_2 with URU scrambled with G-				
RNTI for multicast.				
r17.				
dynamicSlotRepetitionMulticastNTN-SharedSpectrumChAccess-r17	Band	No	N/A	N/A
Indicates the maximum number of supported dynamic slot-level repetitions for				
group-common PDSCH for multicast for NTN and shared spectrum channel access.				
Value n8 corresponds to 8, and value n16 corresponds to 16.				
A UE supporting this feature shall also indicate support of dynamicMulticastPCell-				
dynamicSlotRepetitionMulticastTN-NonSharedSpectrumChAccess-r17	Band	No	N/A	N/A
Indicates the maximum number of supported dynamic slot-level repetitions for	20.10			
group-common PDSCH for multicast for TN and non-shared spectrum channel				
access. Value n8 corresponds to 8, and value n16 corresponds to 16. UE shall set				
the capability value consistently for all FDD-FR1 bands, all TDD-FR1 bands, all				
TDD-FR2 bands respectively.				
A UE supporting this feature shall also indicate support of dynamicMulticastPCell-				
r17.				
enhancedSkipUplinkTxConfigured-v1660	Band	No	N/A	N/A
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 15 38.321 [8]. UE shall set				
TDD-EP2-1 bands and all TDD-EP2-2 bands respectively				
The LIE only includes enhanced Skinl Inlink TyConfigured-y1660 if				
enhancedSkipUplinkTxConfigured-r16 is absent.				
enhancedSkipUplinkTxDvnamic-v1660	Band	No	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				
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, all TDD-FR2-1 bands and all TDD-FR2-2 bands respectively.				
The UE only includes enhancedSkipUplinkTxDynamic-v1660 if				
enhancedSkipUplinkTxDynamic-r16 is absent.				

<ul> <li>enhancedType3-HARQ-CodebookFeedback-r17</li> <li>Indicates whether the UE supports enhanced type 3 HARQ-ACK codebook feedback based on triggering information in DCI 1_1 and DCI 1_2 (for a UE supporting DCI format 1_2 as indicated in <i>dci-Format1-2And0-2-r16</i>) and also supports transmission of enhanced type 3 HARQ-ACK codebook using the first or second PUCCH configuration based on PHY priority indication in the triggering DCI (for a UE supporting two HARQ-ACK codebooks / PUCCH config as indicated in twoHARQ-ACK-Codebook-type1-r16). The capability signalling comprises the following parameters:         <ul> <li><i>enhancedType3-HARQ-Codebooks-r17</i> indicates the maximum number of supported enhanced type 3 HARQ-ACK codebooks;</li> </ul> </li> </ul>	Band	No	N/A	N/A
<ul> <li>maxinumberPUCCH-Transmissions-r17 indicates the maximum number of actual PUCCH transmissions for type 3 or enhanced type 3 HARQ-ACK codebook feedback within a slot.</li> </ul>				
UE only supports feedback of a dynamically selected enhanced type 3 HARQ-ACK codebook based on triggering information in DCI 1_1 and DCI 1_2 (for a UE supporting DCI format 1_2 as indicated in <i>dci-Format1-2And0-2-r16</i> ) if the UE supports more than one enhanced type 3 HARQ-ACK codebook to be configured (as indicated in <i>enhancedType3-HARQ-Codebooks-r17</i> ). A UE that indicates support of this capability shall also indicate support of <i>oneShotHARQ-feedback-r16</i> .				
enhancedUL-TransientPeriod-r16 Indicates whether the UE supports enhanced UL performance for the transient period as specified in clause 6.3.3 of TS 38.101-1 [2] and in clause 6.3.3 of TS 38.101-5 [34]. If not reported, the UE supports transient period of 10us.	Band	No	N/A	FR1 only
eventA4BasedCondHandover-r17 Indicates whether the UE supports Event A4 based conditional handover in NTN bands, i.e., <i>CondEvent A4</i> as specified in TS 38.331 [9]. A UE supporting this feature shall also indicate the support of <i>condHandover-r16</i> for NTN bands and the support of <i>nonTerrestrialNetwork-r17</i> . UE shall set the capability value consistently for all FDD-FR1 NTN bands.	Band	No	N/A	N/A
<b>extendedCP</b> Indicates whether the UE supports 60 kHz subcarrier spacing with extended CP length 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. A UE that indicates support of this feature shall indicate support of <i>ssb-csirs-SINR-measurement-r16</i> .	Band	No	N/A	N/A
handoverUTRA-FDD-r16 Indicates whether the UE supports NR to UTRA-FDD CELL_DCH CS handover for the 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, all TDD-FR2-1 bands and all TDD-FR2-2 bands respectively.	Band	No	N/A	N/A
<i>interSlotFreqHopInterSlotBundlingPUSCH-r17</i> Indicates whether the UE supports enhanced inter-slot frequency hopping with inter- slot bundling for PUSCH.	Band	No	N/A	N/A
UE indicating support of this feature shall also indicate support of at least one of dmrs-BundlingPUSCH-RepTypeA-r17, dmrs-BundlingPUSCH-RepTypeB-r17 or dmrs-BundlingPUSCH-multiSlot-r17.				
<i>interSlotFreqHopPUCCH-r17</i> Indicates whether the UE supports enhanced inter-slot frequency hopping for PUCCH repetitions with DMRS bundling. UE indicating support of this feature shall also indicate support of <i>dmrs</i> -	Band	No	N/A	N/A
<i>BunalingPOCCH-Rep-r17.</i> <i>jointReleaseConfiguredGrantType2-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 support of <i>activeConfiguredGrant-r16</i> .	Band	No	N/A	N/A

<i>jointReleaseSPS-r16</i> 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	Band	No	N/A	N/A
only if the UE indicates support of <i>sps-r16</i> .				
<i>k1-RangeExtension-r17</i> Indicates whether the UE supports extended K1 value range of (031) for unpaired spectrum. This field is only applicable for bands in Table 5.2.2-1 in TS 38.101-5 [34] and HAPS operation bands in clause 5.2 of TS 38.104 [35].	Band	No	N/A	N/A
<i>locationBasedCondHandover-r17</i> Indicates whether the UE supports location based conditional handover, i.e., <i>CondEvent D1</i> as specified in TS 38.331 [9]. A UE supporting this feature shall also indicate the support of <i>condHandover-r16</i> for NTN bands and the support of <i>nonTerrestrialNetwork-r17</i> . UE shall set the capability value consistently for all FDD- FR1 NTN bands.	Band	No	N/A	N/A
<i>IowPAPR-DMRS-PDSCH-r16</i> Indicates whether the UE supports low PAPR DMRS for PDSCH.	Band	No	N/A	N/A
<b>IowPAPR-DMRS-PUCCH-r16</b> Indicates whether the UE supports low PAPR DMRS for PUCCH format 3 and format 4 with transform precoding and with pi/2 BPSK modulation. A UE that 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-F1-3-4WithoutFH</i> . It is mandatory with capability signalling	Band	Yes	N/A	N/A
<i>IowPAPR-DMRS-PUSCHwithoutPrecoding-r16</i> Indicates whether the UE supports low PAPR DMRS for PUSCH without transform precoding.	Band	No	N/A	N/A
<b>IowPAPR-DMRS-PUSCHwithPrecoding-r16</b> Indicates whether the UE supports low PAPR DMRS for PUSCH with transform precoding and with pi/2 BPSK modulation. It is mandatory with capability signalling. A UE that indicates support of this feature shall indicate support of <i>pusch-HalfPi-BPSK</i>	Band	Yes	N/A	N/A
maxDurationDMRS-Bundling-r17Indicates whether the UE supports the maximum duration during which UE is ableto maintain power consistency and phase continuity to support DM-RS bundling forPUSCH/PUCCH.NOTE:DM-RS bundling is only applicable for UL transmissions with pi/2 BPSK, BPSK, and QPSK modulation orders for the corresponding physical	Band	No	N/A	N/A
channels. maxDynamicSlotRepetitionForSPS-Multicast-r17 Indicates maximum number of dynamic slot-level repetitions for SPS group- common PDSCH for multicast. For TN, the UE shall set the capability value consistently for all FDD-FR1 bands, all TDD-FR1 bands and all TDD-FR2 bands, associated with supported shared and non-shared spectrum respectively. For NTN, UE shall set the capability value consistently for all FDD-FR1 NTN bands. A UE that indicates support of this feature shall indicate support of <i>sps-Multicast-</i> r17	Band	No	N/A	N/A
<i>max-HARQ-ProcessNumber-r17</i> Indicates the maximal supported HARQ process numbers for UL and for DL respectively. For each value of <i>max-HARQ-ProcessNumber-r17</i> , value <i>u16d32</i> indicates the maximal supported HARQ process number is 16 for UL and 32 for DL, value <i>u32d16</i> indicates the maximal supported HARQ process number is 32 for UL and 16 for DL, value <i>u32d32</i> indicates the maximal supported HARQ process number is 32 for UL and 32 for DL. This field is only applicable for bands in Table 5.2.2-1 in TS 38.101-5 [34] and HAPS operation bands in clause 5.2 of TS 38.104 [35].	Band	No	N/A	N/A
<ul> <li>maxMIMO-LayersForMulti-DCI-mTRP-r16</li> <li>Indicates 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. If 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 feature shall support overlapPDSCHsFullyFreqTime-r16.</li> <li>NOTE 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.</li> </ul>	Band	No	N/A	N/A

<i>maxNumberPUSCH-TypeA-Repetition-r17</i> Indicates whether the UE supports the increased maximum number of PUSCH Type A repetitions to 32.	Band	No	N/A	N/A
A UE that indicates support of this feature shall support type1-PUSCH- RepetitionMultiSlots, type2-PUSCH-RepetitionMultiSlots, pusch-RepetitionTypeA- r16 or pusch-RepetitionTypeA-v16c0.				
NOTE: For DG PUSCH, the number of repetitions is indicated in a TDRA list. A row index of the TDRA list is indicated by a DCI. For Type 1 CG PUSCH, the number of repetitions is indicated by <i>repK-v1710</i> . For Type 2 CG PUSCH, the number of repetitions is indicated in a TDRA list or by <i>repK-v1710</i> .				
<ul> <li>mux-HARQ-ACK-DiffPriorities-r17</li> <li>Indicates whether the UE supports HARQ-ACK with different priorities multiplexing on a PUCCH/PUSCH, comprised of the following functional components:         <ul> <li>Supports multiplexing a high-priority HARQ-ACK and a low-priority HARQ-ACK into a PUCCH. Supports separate coding for the two HARQ-ACKs;</li> <li>Supports multiplexing a low-priority HARQ-ACK, a high-priority HARQ-ACK and a high-priority SR into a PUCCH;</li> <li>Supports multiplexing a low-priority HARQ-ACK in a high-priority PUSCH (conveying UL-SCH only). Supports separate beta_offset values for this priority combination;</li> <li>Supports multiplexing a low-priority HARQ-ACK in a low-priority PUSCH (conveying UL-SCH only). Supports separate beta_offset values for this priority combination;</li> <li>Supports multiplexing a low-priority HARQ-ACK, a high-priority PUSCH (conveying UL-SCH only). Supports separate beta_offset values for this priority combination;</li> <li>Supports multiplexing a low-priority HARQ-ACK, a high-priority PUSCH, a high-priority HARQ-ACK and/or CSI;</li> <li>Supports multiplexing a high-priority HARQ-ACK, a low-priority PUSCH, a low-priority HARQ-ACK and/or CSI.</li> </ul> </li> </ul>	Band	No	N/A	N/A
maxModulationOrderForMulticast-r17         Defines the maximal modulation order for multicast PDSCH. If not reported, UE supports the same modulation order as unicast.         -       For FR1, up to 1024QAM is supported.         -       For FR2, up to 256QAM is supported.         A UE supporting this feature shall also indicate support of dynamicMulticastPCell- r17.         NOTE:       A UE shall support the corresponding mandatory maximum modulation	Band	No	N/A	N/A
for unicast. <b>maxNumberActivatedTCI-States-r16</b> Indicates maximum number of activated TCI states. This capability signalling 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 UE that indicates support of this feature shall support multiDCI-MultiTRP-r16.	Band	No	N/A	N/A
<b>maxNumberCSI-RS-BFD</b> 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.	Band	CY	N/A	N/A

<b>maxNumberCSI-RS-SSB-CBD</b> 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.	Band	CY	N/A	N/A
maxNumberG-CS-RNTI-r17	Band	No	N/A	N/A
Defines maximum number of G-CS-RNTIs for SPS multicast. For TN, the UE shall set the capability value consistently for all FDD-FR1 bands, all TDD-FR1 bands and all TDD-FR2 bands, associated with supported shared and non-shared spectrum respectively. For NTN, UE shall set the capability value consistently for all FDD-FR1 NTN bands.	Dana			
A UE supporting this feature shall also indicate support of <i>sps-Multicast-r17</i> .				
maxNumberG-RNTI-r17 Defines maximum number of G-RNTIs for multicast. For TN, the UE shall set the capability value consistently for all FDD-FR1 bands, all TDD-FR1 bands and all TDD-FR2 bands, associated with supported shared and non-shared spectrum respectively. For NTN, UE shall set the capability value consistently for all FDD-FR1 NTN bands.	Band	No	N/A	N/A
A UE supporting this feature shall also indicate support of <i>dynamicMulticastPCell-</i> r17				
<b>maxNumber-NGSO-SatellitesPerCarrier-r17</b> Indicates the number of target NGSO satellites the UE can monitor per carrier. For serving carrier, the number of target NGSO satellites also includes the serving satellite. If this field is not included, the number of target satellites UE can monitor per carrier is 2. The value shall be larger than or equal to the reported value on maxNumber-NGSO-SatellitesWithinOneSMTC-r17	Band	No	FDD only	FR1 only
	David	NI-		<b>FD4</b>
Indicates the number of different NGSO satellites for target cells that the UE supports of simultaneous measurements within a SMTC with value n1 corresponds to 1, value n2 corresponds to 2 and so on.	Band	NO	only	only
maxNumberNonGroupBeamReporting Defines support of non-group based RSRP reporting using N_max RSRP values reported.	Band	Yes	N/A	N/A
maxNumberRxBeam, maxNumberRxBeam-v1720 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.	Band	CY	N/A	N/A
<i>maxNumberRxTxBeamSwitchDL, maxNumberRxTxBeamSwitchDL-v1710</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.	Band	No	N/A	FR2 only
maxNumberSCellBFR-r16	Band	No	N/A	N/A
Defines the maximum number of SCells configured for SCell beam failure recovery simultaneously. The UE indicating support of this also indicates the capabilities of <i>maxNumberCSI-RS-BFD, maxNumberSSB-BFD</i> and <i>maxNumberCSI-RS-SSB-CBD.</i>	Danu	NO	N/A	N/A
maxNumberSSB-BFD	Band	CY	N/A	N/A
Defines maximal number of different SSBs across all CCs, and across MCG and SCG in case of NR-DC, for UE to monitor PDCCH quality. In this release, the maximum value that can be signalled is 16. If the UE includes the field in an FR1 band, it shall set the same value in all FR1 bands. If the UE includes the field in an FR2 band, it shall set the same value in all FR2 bands. The UE supports a total number of resources equal to the maximum of the FR1 and FR2 value, but no more than the FR1 value across all FR1 serving cells and no more than the FR2 value across all FR2 serving cells. It is mandatory with capability signalling for FR2 and optional for FR1.				

maxUplinkDutyCycle-FR2	Band	No	N/A	FR2
Indicates the maximum percentage of symbols during 1s that can be scheduled for				only
uplink transmission at the UE maximum transmission power, so as to ensure				
compliance with applicable electromagnetic power density exposure requirements				
provided by regulatory bodies. This field is applicable for all power classes LIE in				
ER2 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 unlink				
corresponds to 20% and so on. In the field is absent of the percentage of uplink				
symbols transmitted within any 1s evaluation period is larger than				
maxupiinkDutyCycle-FR2, the UE benaviour is specified in 15 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 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 and <i>maxUplinkDutyCycle-PC2-FR1</i> are both absent,				
25% shall be applied as the upper limit of the UL duty cycle for power class 1.5.				
maxUplinkDutyCvcle-PC2-FR1	Band	No	N/A	FR1
Indicates the maximum percentage of symbols during a certain evaluation period	Bana	110	1 1/7 1	only
that can be scheduled for uplink transmission to ensure compliance with applicable				Only
that can be scheduled for uplink transmission to ensure compliance with applicable				
This field is explicable for ED1 neuronal and a scalar back for ED1 neuron				
This field is applicable for FRT power class 2 UE and also applicable for FRT power				
class 1.5 UE as specified in clause 6.2.1 of 1S 38.101-1 [2]. If the field and				
maxUplinkDutyCycle-PC1dot5-MPE-FR1-r16 are both absent, 50% shall be applied				
as the upper limit of the UL duty cycle for power class 2. Value n60 corresponds to				
60%, value n70 corresponds to 70% and so on. This capability is not applicable to				
IAB-MT.				
mn-InitiatedCondPSCellChangeNRDC-r17	Band	No	N/A	N/A
Indicates whether the UE supports MN initiated conditional PSCell change in NR-				
DC, which is configured by NR conditionalReconfiguration using MN configured				
measurement as triggering condition. The UE supporting this feature shall also				
support 2 trigger events for same execution condition in MN initiated conditional				
PSCell change in NR-DC. UE shall set the capability value consistently for all EDD-				
FR1 bands all TDD-FR1 bands and all TDD-FR2 bands respectively				
modifiedMPR-Behaviour	Band	No	N/A	N/A
Indicates whether LIE supports modified MPR behaviour defined in TS 38 101-1 [2]	Bana	110	1 1/7 1	1.1/7
TS 38 $101_2$ [3] and TS 38 $101_5$ [3/]				
mpe-Mitigation-r17	Band	No	NI/A	ED2
Indicates the support of enhanced DHP reporting which includes pairs of (D MDP	Danu	INU		only
				Only
This feature also includes following parameters:				
This realure also includes following parameters.				
- maximum -mer-riparis-riv indicates the maximum number of reported P-				
MPR and SSBRI/CRI pairs;				
- maxivumContRS-r17 indicates the maximum number of candidate RS(s)				
configured in a RRC pool for MPE mitigation.				
INUTE: maxivumContres-r17 is also counted in				
maxTotalResourcesForOneFreqRange-r16/				
maxTotalResourcesForAcrossFreqRanges-r16.				
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].				
mTRP-BFD-RS-MAC-CE-r17	Band	No	N/A	N/A
Indicates the support of MAC-CE based update of explicit BFD-RS for mTRP BFR				
with maximum number of configured candidate BFD-RS per BWP for MAC-CE				
based update.				
The UE indicating support of this feature shall also indicate the support of <i>mTRP</i> -				
BER-twoBED-RS-Set-r17				
mTRP-BER-association-PLICCH-SR-r17	Band	No	NI/A	N/A
Indicates whather the LIE supports association between a PED DS resource set on	Danu	UVI	i N/ /*\	11/71
nuclates whether the OE supports association between a DFD-RS resource set on special and a DHCCH SP resource.				
The LIE indicating support of this feature shall support mTDD DED DUCCU CD				
The OE moleating support of this feature shall support <i>III RP-BFR-POUCH-SR-</i>				
percori/. UE snall set the capability value consistently for all FDD-FR1 bands, all				
IDD-FR1 bands, all IDD-FR2-1 bands and all IDD-FR2-2 bands respectively.				

	Dand	Nia		
mikp-BFR-PUCCH-SR-perCG-r1/	Band	INO	N/A	N/A
Indicates the maximum number of supported PUCCH-SR resources for MTRP BFR				
per cell group. A UE that supports mTRP-BFR-twoBFD-RS-Set-r17 shall indicate				
support of this feature with at least 1 PUCCH-SR resources for MTRP BFR per cell				
group.				
UE shall set the capability value consistently for all FDD-FR1 bands, all TDD-FR1				
hands all TDD-ER2-1 hands and all TDD-ER2-2 hands respectively				
mTDD BED five BED DS Set #17	Dand	No	NI/A	NI/A
III RF-BFR-WOOD-RS-Sel-III	Бапа	INO	IN/A	IN/A
Indicates whether the UE supports mTRP BFR based on two BFD-RS sets. The				
capability signalling comprises the following parameters:				
- maxBFD-RS-resourcesPerSetPerBWP-r17 indicates the maximum number				
of supported measured BFD-RS resources per set per BWP.				
- maxBER-r17 indicates the maximum number of CCs per band configured				
with BER (including spCell/SCell/MTRP BER)				
- may BED-RS-rasources Across Sats Par BIVP-r17 indicates the supported				
maximum purples of management of the PS resources are supported				
maximum number of measured BFD-KS resources across two BFD-KS sets				
per BwP.				
maxBFD-RS-resourcesAcrossSetsPerBWP-r17 is also counted in				
maxTotalResourcesForOneFreqRange-r16 and				
maxTotalResourcesForAcrossFregRanges-r16.				
mTRP-CSI-additionalCSI-r17	Band	No	N/A	N/A
Indicates the maximum value of numberOfSingleTRP-CSI-Mode1	Dana			
The UE indicating support of this feature shall also indicate model or both in cSI-				
Report-mode-r17 of mTRP-CSI-EnhancementPerBand-r17.				
mTRP-CSI-CMR-r17	Band	No	N/A	FR2
Indicates the support of a NZP CSI-RS resource referred by both a CMR pair				only
configured for Rel-17 Multi-TRP CSI enhancement and a single CMR configured for				,
Single-TRP measurement in a CSI reporting setting				
Single free measurement in a controporting setting.				
The LIE indicating support of this facture shall also indicate the support of mTPP				
and the de indicating support of this feature shall also indicate the support of intervention				
CSI-EnhancementPerBand-r17.				
mTRP-CSI-EnhancementPerBand-r17	Band	No	N/A	N/A
Indicates support of CSI enhancements for multi-TRP including support of NZP CSI-				
RS resource pairs used as CMR (channel measurement resource) pairs for NCJT				
measurement hypothesis with N=1.				
This feature also includes following parameters:				
marchiumNZP_CSL_RS_r12 indicates the maximum number of NZP_CSL_RS				
and a selection with a selection of the selection and a selection. Made 1				
- cSi-Report-mode-r17 Indicates the CSI report mode selection. Mode1				
indicates mode 1 with X=0, mode2 indicates mode 2, both indicate the				
support of both mode 1 with X=0 and mode 2.				
- A list of supported combinations, up to 16, across all CCs simultaneously,				
where each combination includes:				
<ul> <li>maxNumTx-Ports-r17 indicates the maximum number of Tx ports in one</li> </ul>				
NZP CSI-RS resource associated with an NC IT measurement				
hypothasis				
may Tatal Num CMD r17 indicates the maximum total number of CMDs for				
- max rotal number of CMRS for				
NCJ1 measurement				
- max I otalNum I x-PortsNZP-CSI-RS-r17 indicates the maximum total				
number of Tx ports of NZP CSI-RS resources associated with NCJT				
measurement hypotheses				
- codebookModeNCJT-r17 indicates the supported codebook modes for NCJT				
CSI.				
mTRP-CSI-N-Max2-r17	Band	No	N/A	N/A
Indicates the support of maximum number of CMR pairs Nmay-2 configured in	Dana			
NZR CSL PS Paparene Soffer a given CSL report option				
NZI -OGI-NO-NESOUICESECIOLA GIVEN COLLEPUIL SELLING.				
The UE indicating support of this feature shall also indicate the support of <i>mTRP</i> -				
CSI-EnhancementPerBand-r17.				
mTRP-CSI-numCPU-r17	Band	No	N/A	N/A
Indicates the number of CSI processing units (CPUs) occupied by a pair of CMRs				
for NCJT CSI hypotheses. Maximum number of CPUs is reported in csi-				
ReportFramework.				
The UE indicating support of this feature shall also indicate the support of <i>mTRP</i> .				
CSI-EnhancementPerBand-r17				
	1		1	

mTRP-GroupBasedL1-RSRP-r17	Band	No	N/A	N/A
Indicates the support of group based L1-RSRP reporting enhancements.				
This feature also includes following parameters:				
- maxNumBeamGroups-r17 indicates the maximum number N of beam				
droups (M-2 beams per beam $droup)$ in a single 11-RSRP reporting				
instance based on measurement on two CMP resource sets				
- maxNumPS-WithinSlot-r17 indicates the maximum number of SSB and CSL				
- maximum Source in machine maximum number of SSB and CSP				
RS resources for measurement in both CMR sets within a slot across all				
- maxNumRS-AcrossSlot-r17 indicates the maximum number of configured				
SSB and CSI-RS resources for measurement in both CMR sets across all				
CCs.				
maxNumRS-WithinSlot-r17 and maxNumRS-AcrossSlot-r17 are also counted in				
maxTotalResourcesForOneFreqRange-r16 and				
maxTotalResourcesForAcrossFreqRanges-r16.				
mTRP-inter-Cell-r17	Band	No	N/A	N/A
Indicates the support of RRC configuration of additional PCI different from serving				
cell associated with the TCI state and/or QCL-info.				
This feature also includes following parameters:				
<ul> <li>maxNumAdditionalPCI-Case1-r17 indicates the maximum number of</li> </ul>				
configured additional PCIs per CC is X1 (Case 1) when each configuration of				
SSB time domain positions and periodicity of the additional PCIs is the same				
as SEP time domain positions and periodicity of the conting coll BCI				
as SSD time domain positions and periodicity of the serving cell FCI.				
- maxinumAdditionalPCI-Case2-r17 indicates the maximum number of				
configured additional PCIs per CC is X2 (Case 2) when the configurations of				
SSB time domain positions and periodicity of the additional PCIs is not				
according to Case 1.				
The UE indicating support of this feature shall also indicate the support of <i>multiDCI</i> -				
MultiTRP-r16.				
mTRP-PDCCH-anySpan-3Symbols-r17	Band	No	N/A	FR1
Indicates support of PDCCH repetition for PDCCH monitoring on any span of up to				only
3 consecutive OFDM symbols of a slot. It is applicable to 15kHz SCS only.				
The UE indicating support of this feature shall also indicate support of				
pdcchMonitoringSingleOccasion and mTRP-PDCCH-Repetition-r17.				
mTRP-PDCCH-individual-r17	Band	No	N/A	N/A
Indicates the support of monitoring of individual candidates when one of the linked				
PDCCH candidates uses the same set of CCEs as an individual (unlinked) PDCCH				
candidate, and they both are associated with the same DCI size, scrambling, and				
CORESET				
The UE indicating support of this feature shall also indicate support of <i>mTRP</i> -				
PDCCH-Repetition-r17.				
mTRP-PDCCH-TwoQCL-TypeD-r17	Band	No	N/A	FR2
Indicates the support of determining two QCI -TypeD for time-domain overlapping	20.10			only
CORESETs in the same CC or for intra-hand CA when LIE is configured with				onny
PDCCH repetition				
The LIE indicating support of this feature shall also indicate support of <i>mTRP</i> .				
PDCCH-Renetition-r17				
mTRP-PUICCH-CyclicManning-r17	Band	No	Ν/Δ	Ν/Δ
Indicates whether the LIE supports cyclic mapping for heam mapping/power control	Danu	INO.		
narameter set manning for PLICCH repetitions scheme 1 and/or 3 when the number				
of repetitions is larger than 2				
The LIE that indicates support of this feature shall also indicate support of <i>mTDD</i>				
DUCCH InterState r17				
	Pand	No	ΝΙ/Λ	ΝΙ/Λ
Indicates whether the LIE supports the following features:	Danu	INU	IN/A	IN/A
support of DICCH repetition scheme 1 (inter elet repetition) with accuration				
- support of FOCOT repetitions for the Conduct the South events for the South events for the South events for the South events for Conduct the South events for C				
mapping for repetitions larger than 2 and with cyclic mapping for 2				
repetitions.				
- support of up to two POCCH power control parameter sets/spatial relation				
information per PUCCH resource. The power control parameter sets only				
apply to FR1 and spatial relation information only applies to FR2.				
- Supported PUCCH formats for PUCCH repetition scheme 1.				

<i>mTRP-PUCCH-MAC-CE-r17</i> Indicates the support of updating two Spatial Relation Info's and two sets of power control parameters for a group of PUCCH resources in a CC by MAC-CE.	Band	No	N/A	N/A
The UE that indicates support of this feature shall also indicate support of <i>mTRP-PUCCH-InterSlot-r17</i> .				
mTRP-PUCCH-maxNum-PC-FR1-r17	Band	No	Ν/Δ	FR1
Indicates the maximum number of power control parameter sets configured for multi-TRP PUCCH repetition in FR1.	Build	110		only
The UE indicating support of this feature shall also indicate the support of <i>mTRP-PUCCH-InterSlot-r17</i> .				
mTRP-PUCCH-SecondTPC-r17	Band	No	N/A	N/A
Indicates whether the UE supports second TPC field for per TRP closed-loop power control for PUCCH with DCI formats 1_1 / 1_2.				
PLICCH-InterSlot-r17				
	Pond	No		ΝΙ/Λ
Indicates the support of A-CSI report on two PUSCH repetitions.	Бапо	INO	IN/A	N/A
The UE indicating support of this feature shall also indicate the support of <i>mTRP-PUSCH-TypeA-CB-r17</i>				
or mTRP-PUSCH-RepetitionTypeA-r17.				
mTRP-PUSCH-CG-r17	Band	No	N/A	N/A
Indicates the support of CG PUSCH transmission towards M-TRPs using a single CG configuration. The UE uses same beam mapping principals as dynamic grant PUSCH repetition scheme.				
The UE indicating support of this feature shall also indicate the support of <i>mTRP-PUSCH-TypeA-CB-r17</i>				
or mTRP-PUSCH-RepetitionTypeA-r17.				
mTRP-PUSCH-CSI-RS-r17	Band	No	N/A	N/A
Indicates the support of CSI-RS processing framework for SRS with two associated CSI-RS resources.				
<ul> <li>This feature also includes following parameters:</li> <li>maxNumPeriodicSRS-r17 indicates the maximum number of periodic SRS resources associated with first and second CSI-RS per BWP.</li> <li>maxNumAperiodicSRS-r17 indicates the maximum number of aperiodic SRS resources associated with first and second CSI-RS per BWP.</li> <li>maxNumSP-SRS-r17 indicates the maximum number of semi-persistent SRS resources associated with first and second CSI-RS per BWP.</li> <li>numSRS-ResourcePerCC-r17: UE can process Y SRS resources associated with first and second CSI-RS per BWP.</li> <li>numSRS-ResourceNonCodebook-r17: UE can process up to X CSI-RS resources associated with SRS for non-codebook based transmission simultaneously.</li> </ul>				
The UE indicating support of this feature shall also indicate the support of <i>mTRP-PUSCH-twoCSI-RS-r17</i> .	<b>_</b>			
IIII RF-FUSUR-CyclicWappilly-11/	вапа	INO	IN/A	IN/A
than 2 with repetition type.				
The UE indicating support of this feature shall also indicate the support of <i>mTRP-PUSCH-TypeA-CB-r17</i> or <i>mTRP-PUSCH-RepetitionTypeA-r17</i> .				
mTRP-PUSCH-secondTPC-r17	Band	No	N/A	N/A
Indicates the support of second TPC field for per TRP closed-loop power control for PUSCH with DCI formats 0_1 and 0_2.		-		
The UE indicating support of this feature shall also indicate the support of <i>mTRP-PUSCH-TypeA-CB-r17</i> or <i>mTRP-PUSCH-RepetitionTypeA-r17</i> .				

mTRP-PUSCH-SP-CSI-r17	Band	No	N/A	N/A
Indicates the support of SP-CSI report on two PUSCH repetitions.				
The LIE indicating support of this feature shall also indicate the support of <i>mTRP</i> -				
PUSCH-TypeA-CB-r17				
or mTRP-PUSCH-RepetitionTypeA-r17.				
mTRP-PUSCH-twoCSI-RS-r17	Band	No	N/A	N/A
Indicates whether the UE supports up to two NZP CSI-RS resources associated				
with the two SRS resource sets for non-codebook-based mTRP PUSCH.				
The UE that indicates support of this feature shall also indicate support of srs-				
ASSOCUSI-RS, CSI-RS-IM-RECEPTIONFOFFEEdbackPerBandComb and mTRP-				
mTRP-PUISCH-twoPHR-Reporting-r17	Band	No	N/A	Ν/Δ
Indicates the support of PHR reporting related to M-TRP PUSCH repetition	Dana		1 1/7 1	1.1/7.1
(calculate two PHRs (at least corresponding to the CC that applies m-TRP PUSCH				
repetitions), each associated with a first PUSCH occasion corresponding to each				
SRS resource set, and report two PHRs).				
The UE indicating support of this feature shall also indicate the support of <i>mTRP</i> -				
PUSCH-TypeA-CB-r17 or mTRP-PUSCH-RepetitionTypeA-r17.	David	Na	N1/A	N1/A
Indicates whether the LIE supports multi-DDSCH scheduling by single DCI for the	Band	INO	N/A	N/A
operation with 120kHz SCS in ER2-1 and HARO enhancements for both type 1 and				
type 2 HARQ codebook.				
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				
report the value larger than 2 only if LE reports the value of				
maxNumberNon-OverlapPatterns-r16 is larger than 1				
- maxNumberNon-OverlapPatterns-r16 indicates the maximum number of				
LTE-CRS non-overlapping rate matching patterns within a NR carrier using				
ТЭ КПZ 505.				
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				
indicated by to: StatePDSCH. This field shall be set to supported				
multiPUCCH-HARD-ACK-ForMulticastUnicast-r17	Band	No	Ν/Δ	Ν/Δ
Indicates whether the UE supports two non-overlapping slot-based PUCCHs for	Dana		1.1/7	1.1/7.1
ACK/NACK based HARQ-ACK feedback for multicast or for unicast and multicast				
with different priorities in a slot.				
For TN, the UE shall set the capability value consistently for all FDD-FR1 bands, all				
TDD-FRT bands and all TDD-FRZ bands, associated with supported shared and				
consistently for all FDD-FR1 NTN bands				
A UE supporting this feature shall also indicate support of <i>priorityIndicatorInDCI</i> -				
Multicast-r17 and twoHARQ-ACK-CodebookForUnicastAndMulticast-r17.				
multiPUSCH-SingleDCI-FR2-1-SCS-120kHz-r17	Band	No	N/A	N/A
Indicates whether the UE supports multi-PUSCH scheduling by single DCI for the				
operation with 120KHZ SUS IN FR2-1 with non-contiguous allocation.	Dend	Na	N1/A	NI/A
Indicates whether the LIE supports DCL-based enabling/disabling NACK only based	вапа	INO	IN/A	IN/A
HARQ-ACK feedback configured per G-RNTI by RRC signalling via DCI format 4. 2				
A UE supporting this feature shall also indicate support of <i>nack</i> -				
OnlyFeedbackForMulticast-r17 and dynamicMulticastDCI-Format4-2-r17.				

nack-OnlyFeedbackForSPS-MulticastWithDCI-Enabler-r17 Indicates whether the UE supports DCI-based enabling/disabling NACK-only based HARQ-ACK feedback configured per G-CS-RNTI by RRC signalling via DCI format 4_2. A UE that indicates support of this feature shall indicate support of nack-	Band	No	N/A	N/A
OnlyFeedbackForSPS-Multicast-r17 and sps-MulticastDCI-Format4-2-r17.				
<b>nonGroupSINR-reporting-r16</b> Indicates N_max L1-SINR values reported when UE supports non-group based L1- SINR reporting. A UE that indicates support of this feature shall indicate support of ssb-csirs-SINR-measurement-r16.	Band	No	N/A	N/A
<i>nr-UE-TxTEG-ID-MaxSupport-r17</i> Indicates the maximum number of UE TxTEG for SRS resource for positioning, which is supported and reported by UE for UL TDOA. The UE can include this field only if the UE supports <i>srs-AllPosResources-r16</i> .	Band	No	N/A	N/A
<ul> <li><i>olpc-SRS-Pos-r16</i>         Indicates whether the UE supports OLPC for SRS for positioning. The capability signalling comprises the following parameters.         <ul> <li><i>olpc-SRS-PosBasedOnPRS-Serving-r16</i> 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-DL-PRS-ProcessingCapability-r16</i> defined in TS 37.355 [22], and <i>srs-PosResources-r16</i>. Otherwise, the UE does not include this field;</li> <li><i>olpc-SRS-PosBasedOnSSB-Neigh-r16</i> 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 <i>olpc-SRS-PosBasedOnPRS-Neigh-r16</i> indicates whether 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 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 <i>olpc-SRS-PosBasedOnPRS-Serving-r16</i>. Otherwise, the UE does not include this field;</li> </ul> </li> <li><i>olpc-SRS-PosBasedOnPRS-Serving-r16</i>. Otherwise, the UE does not include this field;</li> </ul> NOTE: A PRS from a PRS-only TP is treated as PRS from a non-serving cell. <ul> <li><i>maxNumberPathLossEstimatePerServing-r16</i> indicates the maximum number of pathloss estimates that the UE can simultaneously maintain for all the SRS resource sets for positioning per serving cell in addition to the up to four pathloss estimates that the UE maintains per serving cell for the PUSCH/PUCCH/SRS transmissios. The UE shall include this field if the UE supports any of <i>olpc-SRS-PosBasedOnPRS-Serving-r16</i>, <i>olpc-SRS-PosBasedOnSB-Neigh-r16</i> and <i>olpc-SRS-PosBasedO</i></li></ul>	Band	No	N/A	N/A

<ul> <li><i>olpc-SRS-PosRRC-Inactive-r17</i></li> <li>Indicates whether the UE supports OLPC for SRS for positioning in RRC_INACTIVE. The capability signalling comprises the following parameters.</li> <li><i>olpc-SRS-PosBasedOnPRS-Serving-r16</i> 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 defined in TS 37.355 [22], and srs- PosResourcesRRC-Inactive-r17. Otherwise, the UE does not include this field;</li> </ul>	Band	No	N/A	N/A
<ul> <li>olpc-SRS-PosBasedOnSSB-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 srs- PosResourcesRRC-Inactive-r17. Otherwise, the UE does not include this field;</li> </ul>				
<ul> <li>olpc-SRS-PosBasedOnPRS-Neigh-r16 indicates whether 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 olpc- SRS-PosBasedOnPRS-Serving-r16. Otherwise, the UE does not include this field;</li> </ul>				
NOTE: A PRS from a PRS-only TP is treated as PRS from a non-serving cell.				
<ul> <li>maxNumberPathLossEstimatePerServing-r16 indicates the maximum number of pathloss estimates that the UE can simultaneously maintain for all the SRS resource sets for positioning per serving cell 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- PosBasedOnSSB-Neigh-r16 and olpc-SRS-PosBasedOnPRS-Neigh-r16. Otherwise, the UE does not include this field.</li> </ul>				
oneShotHARQ-feedbackPhy-Priority-r17	Band	No	N/A	N/A
Indicates whether the UE supports transmission of type 3 HARQ-ACK codebook using the first or second PUCCH configuration based on PHY priority indication in the triggering DCI. A UE supporting this feature shall also indicate support of <i>oneShotHARQ-feedback-</i> <i>r16</i> and <i>twoHARQ-ACK-Codebook-type1-r16</i> .				
oneShotHARQ-feedbackTriggeredByDCI-1-2-r17	Band	No	N/A	N/A
<ul> <li>Indicates whether the UE supports one-shot HARQ ACK feedback triggered by DCI format 1_2, comprised of the following functional components: <ul> <li>Supports feedback of type 3 HARQ-ACK codebook, triggered by a DCI 1_2 scheduling a PDSCH;</li> <li>Supports feedback of type 3 HARQ-ACK codebook, triggered by a DCI 1_2 without scheduling a PDSCH using a reserved FDRA value.</li> </ul> </li> </ul>				
r16 and dci-Format1-2And0-2-r16.				
oneSlotPeriodicTRS-r16 Indicates whether the UE supports one-slot periodic TRS configuration only when no two consecutive slots are indicated as downlink slots by tdd-UL-DL- ConfigurationCommon or tdd-UL-DL-ConfigDedicated. If the UE supports this feature, the UE needs to report csi-RS-ForTracking.	Band	No	TDD only	FR1 only
outOfOrderOperationDL-r16	Band	No	N/A	N/A
<ul> <li>Indicates whether the UE supports out of order operation for DL. The UE that indicates support of this feature shall support <i>multiDCI-MultiTRP-r16</i>. The capability signalling comprises the following parameters:         <ul> <li>supportPDCCH-ToPDSCH-r16 indicates support out-of-order operation for PDCCH to PDSCH;</li> <li>supportPDSCH-ToHARQ-ACK-r16 indicates support out-of-order operation for PDSCH to HARQ-ACK.</li> </ul> </li> </ul>				
outOfOrderOperationUL-r16	Band	No	N/A	N/A
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.				

overlapPDSCHsFullyFreqTime-r16 Indicates the maximal number of PDSCH scrambling sequences per serving cell when the UE supports PDSCHs with fully overlapping Resource Elements. The UE that 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	Band	No	N/A	N/A
transmissions from two TRPs is within a Cyclic Prefix				
overlapPDSCHsInTimePartiallyFreq-r16	Band	No	N/A	N/A
Indicates whether the UE supports PDSCHs with partially overlapping Resource Elements. The UE that indicates support of this feature shall support overlapPDSCHsEullyEregTime-r16				
overlapRateMatchingEUTRA-CRS-r16	Band	No	N/A	FR1
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 carrier. If the UE supports this feature, the UE needs to report <i>multipleRateMatchingEUTRA-CRS-r16</i> .	Dunu			only
parallelMeasurementWithoutRestriction-r17	Band	No	FDD	FR1
Indicates whether the UE supports measurements on cells belonging to different satellites as the serving cell in parallel with normal operation (i.e. data/control transmission and/or reception, and L1 measurements) of serving cell without scheduling restrictions. The feature is applicable only when the serving satellite is NGSO. If the serving cell belongs to GSO satellite, the scheduling restriction is not applied on the premise that a mixed type of satellites on the same frequency layer is not supported in this release. If not reported, for measurements in parallel with normal operation of serving cell scheduling restrictions shall apply.			only	only
parallelPRS-MeasRRC-Inactive-r17	Band	No	N/A	N/A
Indicates whether the UE supports performing RRM measurement and PRS measurement in parallel. UE shall set the capability value consistently for all FDD-FR1 bands, all TDD-FR1 bands, all TDD-FR2-1 bands and all TDD-FR2-2 bands respectively				
pdcch-SkippingWithoutSSSG-r17	Band	No	N/A	N/A
Indicates whether the UE supports up to 2-bit indication of PDCCH skipping by scheduling DCI if SSSG is not configured as specified in TS 38.213 [11], clause 10.4.	Dana			11/7
<i>pdcch-SkippingWithSSSG-r17</i> Indicates whether the UE supports 2-bit indication of SSSG switching between 2 SSSGs, PDCCH skipping by scheduling DCI, and timer based SSSG switching as specified in TS 38.213 [11], clause 10.4. UE supports search space set group switching capability-1 according to Table 10.4-1 of TS 38.213 [11]. UE indicating support of this feature shall also indicate support of <i>pdcch</i> -	Band	No	N/A	N/A
SkippingWithoutSSSG-r17 and sssg-Switching-1bitInd-r17.				
<b>pdsch-1024QAM-2MIMO-FR1-r17</b> Indicates whether the UE supports 1024QAM modulation scheme for PDSCH with maximum 2 MIMO layers for FR1 as defined in TS 38.211 [6], MCS and CQI feedback tables based on 1024QAM modulation order as defined in TS 38.214 [12].	Band	No	N/A	FR1 only
$\sigma$ multically support of this reduce shall also multicate support of pasch-256QAM- ER1 and shall not indicate support of pasch-1024O4M-ER1-r17				
<b>pdsch-1024QAM-FR1-r17</b> Indicates whether the UE supports 1024QAM modulation scheme for PDSCH for FR1 as defined in TS 38.211 [6], MCS and CQI feedback tables based on 1024QAM modulation order as defined in TS 38.214 [12].	Band	No	N/A	FR1 only
UE indicating support of this feature shall also indicate support of <i>pdsch-256QAM-FR1</i> and shall not indicate support of <i>pdsch-1024QAM-2MIMO-FR1-r17</i> .				
<i>pdsch-256QAM-FR2</i> Indicates whether the UE supports 256QAM modulation scheme for PDSCH for FR2 as defined in 7.3.1.2 of TS 38.211 [6].	Band	No	N/A	FR2 only
pdsch-MappingTypeB-Alt-r16	Band	No	N/A	FR1
Indicates whether the UE supports PDSCH Type B scheduling of length 9 and 10 OFDM symbols, and DMRS shift for length-10 symbols. If the UE supports this feature, the UE needs to report pdsch-MappingTypeB				only
periodicBeamReport	Band	Yes	N/A	N/A
Indicates whether UE supports periodic 'CRI/RSRP' or 'SSBRI/RSRP' reporting using PUCCH formats 2, 3 and 4 in one slot.	_ 5.10			

posSR Indicate configue	S-RRC-Inactive-OutsideInitialUL-BWP-r17 as support of Positioning SRS transmission in RRC_INACTIVE state red outside initial UL BWP. The capability signalling comprises the following ters:	Band	No	N/A	N/A
- / I S	maxSRSposBandwidthForEachSCS-withinCC-FR1-r17 Indicates the maximum SRS bandwidth supported for each SCS that UE supports within a single CC for FR1;				
- 1 1 5	maxSRSposBandwidthForEachSCS-withinCC-FR2-r17 indicates the naximum SRS bandwidth supported for each SCS that UE supports within a single CC for FR2;				
- /	<i>maxNumOfSRSposResourceSets-r17</i> indicates the max number of SRS Resource Sets for positioning supported by UE;				
- /	maxNumOfPeriodicSRSposResources-r17 indicates the max number of periodic SRS Resources for positioning;				
- 1	maxNumOfPeriodicSRSposResourcesPerSlot-r17 indicates the max number of periodic SRS Resources for positioning per slot;				
- (	differentNumerologyBetweenSRSposAndInitialBWP-r17 indicates the support of different numerology between the SRS and the initial UL BWP;				
- 3 \ (	srsPosWithoutRestrictionOnBWP-r17 indicates the support of SRS operation without restriction on the BW: BW of the SRS may not include BW of the CORESET#0 and SSB;				
- / r	maxNumOfPeriodicAndSemipersistentSRSposResources-r17 indicates the nax number of P/SP SRS Resources for positioning;				
- <i>1</i> i	maxNumOfPeriodicAndSemipersistentSRSposResourcesPerSlot-r17 ndicates the max number of P/SP SRS Resources for positioning per slot;				
- ( (	<i>differentCenterFreqBetweenSRSposAndInitialBWP-r17</i> indicates the support of a different center frequency between the SRS for positioning and the initial JL BWP;				
- 8	switchingTimeSRS-TX-OtherTX-r17 indicates the switching time between SRS TX and other TX in initial UL BWP or RX in initial DL BWP				
- 1	maxNumOfSemiPersistentSRSposResources-r17 indicates the max number of semi-persistent SRS Resources for positioning;				
- / r	maxNumOfSemiPersistentSRSposResourcesPerSlot-r17 indicates the max number of semi-persistent SRS Resources for positioning per slot.				
The UE Inactive	can include this field only if the UE supports <i>srs-PosResourcesRRC-</i> - <i>r17</i> . Otherwise, the UE does not include this field;				
NOTE 1	The BWP with SRS for positioning is defined by the parameters				
	<i>locationAndBandwidth</i> , SCS, CP in the same way as other BWPs.				
NOTE 2	2: If differentCenterFreqBetweenSRSposAndInitialBWP-r17 is not signalled,				
	the UE only supports same center frequency between the SRS for				
NOTE 3	If differentNumerologyBetweenSRSposAndInitialBWP-r17 is not				
	signalled, the UE only supports same numerology between the SRS and				
	the initial UL BWP.				
NOTE 4	only SRS BW that include the BW of the CORESET #0 and SSB				
NOTE 5	i: The fields of maxNumOfSemiPersistentSRSposResources-r17 and				
	maxNumOfSemiPersistentSRSposResourcesPerSlot-r17 shall be				
	reported together it supported by UE. One of the fields between maxSRSposBandwidthForFachSCS-withinCC-FR1-r17 and				
	maxSRSposBandwidthForEachSCS-withinCC-FR2-r17, and the fields of				
	maxNumOfSRSposResourceSets-r17,				
	maxNumOfPeriodicSRSposResources-r17,				
	maxnumOrPeriodicScSp0sResourcesPerSiot-r17, maxNumOrPeriodicAndSeminersistentSRSnosResources-r17				
	maxNumOfPeriodicAndSemipersistentSRSposResourcesPerSlot-r17.				

and <i>switchingTimeSRS-TX-OtherTX-r17</i> shall be reported together if				
NOTE 6: srsPosWithoutRestrictionOnBWP-r17 is not applicable to FDD or SUL				
bands.				
powerBoosting-pi2BPSK	Band	CY	TDD	FR1
Indicates whether UE supports power boosting for pi/2 BPSK, when applicable as			only	only
defined in 6.2 of 15 38.101-1 [2] V16.9.0. It is mandatory with capability signalling.				
nriorityIndicatorInDCI-Multicast-r17	Band	No	N/A	N/A
Indicates whether the UE supports DL priority indication for multicast in DCI.	Dana	140	1.1/7	1 1/7 1
comprised of the following functional components:				
- Support of priority indicator field configured in DCI formats 4_2 with CRC				
scrambled with G-RNTI for multicast;				
- Supports two HARQ-ACK codebooks with different priorities to be				
simultaneously constructed different priorities for multicast and multicast at a				
UE.				
For TN, the UE shall set the capability value consistently for all FDD-FR1 bands, all				
TDD-FR1 bands and all TDD-FR2 bands, associated with supported shared and				
non-shared spectrum respectively. For NTN, UE shall set the capability value				
consistently for all FDD-FR1 NTN bands.				
A LIE supporting this facture shall also indicate support of ask MACK				
A UE supporting this feature shall also indicate support of ack-ivACK-				
priorityIndicatorInDCI-SPS-Multicast-r17	Band	No	N/A	N/A
Indicates whether the UE supports priority indicator field configured in DCI format	Dunu	110		1.07.1
4_2 for multicast HARQ-ACK feedback of SPS multicast.				
For TN, the UE shall set the capability value consistently for all FDD-FR1 bands, all				
TDD-FR1 bands and all TDD-FR2 bands, associated with supported shared and				
non-shared spectrum respectively. For NIN, UE shall set the capability value				
A UE supporting this feature shall also indicate support of ack-NACK-				
FeedbackForSPS-Multicast-r17 and sps-MulticastDCI-Format4-2-r17.				
prs-MeasurementWithoutMG-r17	Band	No	N/A	N/A
Indicates whether the UE supports using the threshold to compare the Rx time				
difference between the serving cell and a neighbor cell/TRP for PRS				
the PPS from the new conving cell satisfy the condition of PPS measurement				
outside MG. The LIE can include this field only if the LIE supports one of pre-				
ProcessingWindowType1A-r17, prs-ProcessingWindowType1B-r17 and prs-				
ProcessingWindowType2-r17.				

<ul> <li>prs-ProcessingCapabilityOutsideMGinPPW-r17</li> <li>Indicates the DL-PRS Processing Capability outside MG of each of the supported PRS Processing Window (PPW) Type in the case the UE supports multiple PPW</li> <li>Types in a band and comprises the following parameters: <ul> <li>prsProcessingType-r17: Indicates the PPW Type for which the prs-ProcessingCapabilityOutsideMGinPPW-r17 are provided.</li> <li>ppw-dl-PRS-BufferType-r17: Indicates DL-PRS buffering capability. Value 'type1' indicates sub-slot/symbol level buffering and value 'type2' indicates slot level buffering.</li> <li>ppw-durationOfPRS-Processing1-r17: Indicates the duration of DL-PRS symbols N in units of ms a UE can process every T ms assuming maximum DL-PRS bandwidth provided in ppw-maxNumOfDL-Bandwidth-r17 and comprises the following parameters:</li> <li>ppw-durationOfPRS-ProcessingSymbolsN-r17: This field specifies the values for N with values msDot125 indicates 0.125ms, msDot25 indicates 0.25ms, and so on.</li> <li>ppw-durationOfPRS-Processing2-r17: Indicates the duration of DL-PRS symbols N2 in units of ms a UE can process every T2 ms assuming maximum DL-PRS bandwidth provided in ppw-maxNumOfDL-Bandwidth-r17 and comprises the following parameters:</li> <li>ppw-durationOfPRS-ProcessingSymbolsT-r17: This field specifies the values for T with values msDot125 indicates 0.125ms, msDot25 indicates 2.5ms, and so on.</li> </ul> </li> <li>ppw-durationOfPRS-ProcessingSymbolsN2-r17: This field specifies the values for T with values ms1 indicates the duration of DL-PRS symbols N2 in units of ms a UE can process every T2 ms assuming maximum DL-PRS bandwidth provided in ppw-maxNumOfDL-Bandwidth-r17 and comprises the following parameters:</li> <li>ppw-durationOfPRS-ProcessingSymbolsN2-r17: This field specifies the values for N2 with values msDot125 indicates 0.125ms, msDot25 indicates 0.25ms, and so on.</li> </ul>	Band	No	N/A	N/A
<ul> <li>ppw-durationOfPRS-Processing2-r17: Indicates the duration of DL-PRS symbols N2 in units of ms a UE can process every T2 ms assuming maximum DL-PRS bandwidth provided in ppw-maxNumOfDL-Bandwidth-r17 and comprises the following parameters:</li> <li>ppw-durationOfPRS-ProcessingSymbolsN2-r17: This field specifies the under for A0 with under a pathon of the pathon o</li></ul>				
<ul> <li>indicates 0.125 indicates 0.125 i</li></ul>				
<ul> <li>ppw-maxNumOfDL-PRS-ResProcessedPerSlot-r17: Indicates the maximum number of DL PRS bandwidth in MHz, which is supported and reported by UE for PRS measurement outside MG within the PPW.</li> <li>ppw-maxNumOfDL-Bandwidth-r17: Indicates the maximum number of DL PRS bandwidth in MHz for FR1 and FR2, which is supported and reported by UE for PRS measurement outside MG within the PPW.</li> </ul>				
ProcessingWindowType1A-r17, prs-ProcessingWindowType1B-r17 and prs- ProcessingWindowType2-r17. Otherwise, the UE does not include this field.				
NOTE 1: A UE that supports one of prs-ProcessingWindowType1A-r17, prs- ProcessingWindowType1B-r17 or prs-ProcessingWindowType2-r17 shall always include the prs-ProcessingCapabilityOutsideMGinPPW-r17.				
NOTE 2: The (N, T) in <i>ppw-durationOfPRS-Processing1-r17</i> is interpreted as in (N,T) in <i>durationOfPRS-Processing-r16</i> in TS 37.355 [22], and the UE is expected to receive the DL-PRS within the PPW but the processing of the received DL-PRS may be outside a PPW				
NOTE 3: The (N2, T2) in <i>ppw-durationOfPRS-Processing2-r17</i> is interpreted such that the UE is capable of measuring up to N2 ms DL-PRS within a PPW and is capable of completing the DL-PRS processing within the PPW, e.g., if the time duration from the last symbol of the measured DL-PRS resource(s) inside the PPW to the end of PPW is not smaller than T2 ms				
NOTE 4: A UE which supports <i>prs-ProcessingCapabilityOutsideMGinPPW-r17</i> shall support either <i>ppw-durationOfPRS-Processing1-r17</i> or <i>ppw-durationOfPRS-Processing2-r17</i> , but not both for each supported PPW type in a band.				
prs-ProcessingRRC-Inactive-r17	Band	No	N/A	N/A
Indicates whether the UE supports PRS processing in RRC_INACTIVE.				

<b>prs-ProcessingWindowType1A-r17</b> Indicates whether the UE supports PRS processing Type 1A, subject to the UE determining that DL PRS to be higher priority for PRS measurement outside MG and in a PRS processing window and the priority handling options of PRS as follows:	Band	No	N/A	N/A
- Option 1: Support of "st1" and "st3" defined in clause 5.1.6.5 of TS 38.214 [12].				
<ul> <li>Option 2: Support of "st1", "st2", and "st3" defined in clause 5.1.6.5 of TS 38.214 [12].</li> </ul>				
- Option 3: Support of "st1" only defined in clause 5.1.6.5 of TS 38.214 [12].				
The UE can include this field only if the UE supports <i>prs-</i> <i>ProcessingCapabilityBandList-r16</i> defined in TS 37.355 [22]. A UE supporting this feature shall also indicate support of <i>prs-</i> <i>ProcessingCapabilityOutsideMGinPPW-r17</i> .				
NOTE 2: Type 1A refers to the determination of prioritization between DL PRS and other DL signals/channels in all OFDM symbols within the PRS processing window. The DL signals/channels from all DL CCs (per UE) are affected across LTE and NR.				
NOTE 3: Within a PRS processing window, UE measurement is inside the active DL BWP with PRS having the same numerology as the active DL BWP.				
NOTE 4: Support of configuration of PRS processing window in RRC and support of using DL MAC CE to activate/deactivate the PRS processing window				
for PRS measurements is part of the feature. NOTE 5: When the UE determines higher priority for other DL signals/channels over the DL-PRS measurement/processing, the UE is not expected to measure/process DL-PRS.				
prs-ProcessingWindowType1B-r17	Band	No	N/A	N/A
Indicates whether the UE supports PRS processing Type 1B, subject to the UE determining that DL PRS to be higher priority for PRS measurement outside MG and in a PRS processing window and the priority handling options of PRS as follows:				
<ul> <li>Option 1: Support of "st1" and "st3" defined in clause 5.1.6.5 of TS 38.214</li> </ul>				
<ul> <li>Option 2: Support of "st1", "st2", and "st3" defined in clause 5.1.6.5 of TS 38.214 [12].</li> </ul>				
- Option 3: Support of "st1" only defined in clause 5.1.6.5 of TS 38.214 [12].				
The UE can include this field only if the UE supports <i>prs-</i> <i>ProcessingCapabilityBandList-r16</i> defined in TS 37.355 [22]. A UE supporting this feature shall also indicate support of <i>prs-</i> <i>ProcessingCapabilityOutsideMGinPPW-r17</i> .				
NOTE 2: Type 1B refers to the determination of prioritization between DL PRS and other DL signals/channels in all OFDM symbols within the PRS processing window. The DL signals/channels from a certain band are affected				
NOTE 3: Within a PRS processing window, UE measurement is inside the active DL BWP with PRS having the same numerology as the active DL BWP.				
NOTE 4: Support of configuration of PRS processing window in RRC and support of using DL MAC CE to activate/deactivate the PRS processing window				
for PRS measurements is part of the feature. NOTE 5: When the UE determines higher priority for other DL signals/channels over the DL-PRS measurement/processing, the UE is not expected to				
<i>prs-ProcessingWindowType2-r17</i> Indicates whether the UE supports PRS processing Type 2, subject to the UE determining that DL PRS to be higher priority for PRS measurement outside MG and in a PRS processing window and the priority handling options of PRS as	Band	No	N/A	N/A
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follows: - Option 1: Support of "st1" and "st3" defined in clause 5.1.6.5 of TS 38.214				
<ul> <li>[12].</li> <li>Option 2: Support of "st1", "st2", and "st3" defined in clause 5.1.6.5 of TS 38.214 [12].</li> </ul>				
<ul> <li>NOTE 1: Void.</li> <li>Option 3: Support of "st1" only defined in clause 5.1.6.5 of TS 38.214 [12].</li> </ul>				
The UE can include this field only if the UE supports <i>prs-</i> <i>ProcessingCapabilityBandList-r16</i> defined in TS 37.355 [22].				
A UE supporting this feature shall also indicate support of <i>prs-</i> <i>ProcessingCapabilityOutsideMGinPPW-r17</i> .				
NOTE 2: Type 2 refers to the determination of prioritization between DL PRS and other DL signals/channels only in DL PRS symbols within the PRS processing window.				
NOTE 3: Within a PRS processing window, UE measurement is inside the active DL BWP with PRS having the same numerology as the active DL BWP. NOTE 4: Support of configuration of PRS processing window in RRC and support				
of using DL MAC CE to activate/deactivate the PRS processing window for PRS measurements is part of the feature.				
over the DL-PRS measurement/processing, the UE is not expected to measure/process DL-PRS.				
<i>ptrs-DensityRecommendationSetDL</i> For each supported sub-carrier spacing, indicates preferred threshold sets for determining DL PTRS density. It is mandated for FR2. For each supported sub-carrier spacing, this field comprises:	Band	CY	N/A	N/A
- three values of <i>timeDensity</i> .				
<i>ptrs-DensityRecommendationSetUL</i> For each supported sub-carrier spacing, indicates preferred threshold sets for determining UL PTRS density. For each supported sub-carrier spacing, this field	Band	No	N/A	N/A
comprises: - two values of <i>frequencyDensity</i> ;				
- three values of <i>timeDensity</i> ;				
- five values of sampleDensity.				
<b>pucch-Repetition-F0-2-r17</b> Indicates whether the UE supports transmission of a PUCCH format 0 and 2 over multiple slots with the repetition factor 2, 4 or 8.	Band	No	N/A	N/A
A DE supporting this feature shall also indicate support of <i>pucch-Repetition-F1-3-4</i> . <i>pucch-SpatialRelInfoMAC-CE</i> Indicates whether the UE supports indication of <i>PUCCH-spatialrelationinfo</i> by a	Band	CY	N/A	N/A
MAC CE per PUCCH resource. It is mandatory for FR2 and optional for FR1. <i>pusch-256QAM</i>	Band	No	N/A	N/A
Indicates whether the UE supports 256QAM modulation scheme for PUSCH as defined in 6.3.1.2 of TS 38.211 [6].				
<i>pusch-RepetitionMsg3-r17</i> Indicates whether the UE supports repetition of PUSCH transmission scheduled by RAR UL grant and DCI format 0_0 with CRC scrambled by TC-RNTI.	Band	No	N/A	N/A
<b>pusch-RepetitionMultiSlots-v1650</b> Indicates whether the UE supports transmitting PUSCH scheduled by DCI format 0_1 when configured with <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-RepetitionMultiSlots-r16</i> applies. 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.	Band	Yes	N/A	N/A
The UE only includes <i>pusch-RepetitionMultiSlots-v1650</i> if <i>pusch-RepetitionMultiSlots</i> is absent.				

pusch-RepetitionTypeA-v16c0         Band         NA         NA         NA           Indicates whether the UE supports the dynamic indication of the number of repetitions for PUSCH transmission as specified in TS 38.214 [12], clause 6.1.2.1. Support at his field is reported for shared spectrum channel access and non-shared spectrum channel access, respectively. UE indicating support of this feature shall support at least one of type2-PUSCH-Repetition/MultiSlots and pusch- Repetition/MultiSlots tore shared spectrum and non-shared spectrum respectively.         Band         No         N/A         N/A           UE shall set the capability value consistently for all FDD-FR1 bands, all TDD-FR2 bands and all TDD-FR2 bands respectively.         Band         No         N/A         N/A           Pusch-TransCoherence         Band         No         N/A         N/A         N/A           Pusch-TransCoherence         Band         No         N/A         N/A         N/A           Pusch-TransCoherence         Band         No         N/A         N/A         N/A           Pusch-TypeA-RepetitionStypeA-v16201 pusch-Repetitions for dynamic and configured grant PUSCH are determined on the basis of available slots.         Band         No         N/A         N/A           A UE that indicates support of this feature shall support type1-PUSCH- Repetition/MulSiOst, pp2-PUSCH-RepetitionMultiSlots or pusch- Repetition/MultiSlots, pp2-PUSCH-RepetitionMultiSlots or pusch- Repetition/MultiSlots, pp2-PUSCH-RepetitionMultiSlots or pusch- Repetition/MultiSlots, pp2-PUSCH					1
Indicates whether the UE supports the dynamic indication of the number of repetitions for PUSCH transmission as specified in TS 33.214 [12], clause 6.1.2.1. Support of this field is reported for shared spectrum and non-shared spectrum channel access, respectively. UE shall set the capability value consistently for all FDD-FR1 bands, all TDD-FR1 bands and all TDD-FR2 bands respectively. 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>pusch-RepetitionTypeA-v16c0</i> if <i>pusch-RepetitionTypeA-r16</i> is absent. <b>Pusch-TransCoherence</b> Defines support of the uplinic 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 support of pullic coherent codebook subset. <b>Pusch-TransCoherence</b> Defines support and mon-chierent codebook subset. <b>PuschTypeA-RepetitionTypeA-v16c0</b> if pusch-RepetitionTypeA-r16 is absent. Codebook subset. Unclause for this feature shall also support partial coherent codebook subset. <b>PuschTypeA-RepetitionAvallSiter</b> : <b>1</b> That indicates switcher to codebook subset. <b>1</b> PuscH transmission as gescribing in consoling for the preptitions for dynamic and configured grant PUSCH repetitions for dynamic and configured grant PUSCH are determined on the basis of available slots. <b>2</b> Theta indicates support of this feature shall support partial esc. <b>2</b> RepetitionMultiSites, <i>type2-PUSCH</i> : RepetitionMultiSites or pusch- <b>RepetitionMultiSites</b> , <i>type2-PUSCH</i> : RepetitionMultiSites or pusch- <b>RepetitionMultiSites</b> , <i>type2-PUSCH</i> : Repetition for dynamic and configured and non-shared spectrum enspectively. For NTN, UE shall set the capability value consistently for all FDD-FR1 bands and all TDD-FR2 bands, associated with support d shared and non-shared spectrum respectively. For NTN, UE shall set the capability value consistently for all FDD-FR1 bands, and SDF. <b>1</b> Supports P2P-CSI-RS for group-common PDSCH RE-mapping patterns; <b>2</b>	pusch-RepetitionTypeA-v16c0	Band	No	N/A	N/A
repetitions for PUSCH transmission as specified in TS 38.214 [12], clause 6.1.2.1. Support of this field is reported for shared spectrum channel access and non-shared spectrum channel access, respectively. UE indicating support of this feature shall support at least one of type2-PUSCH-Repetition/MultiSlots and pusch- Repetition/MultiSlots for shared spectrum and non-shared spectrum respectively. 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>pusch-RepetitionTypeA-v16c0</i> if <i>pusch-RepetitionTypeA-r16</i> is absent. <b>Dusch-TransCoherence</b> 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 support of partial coherent codebook subset shall also support non-coherent codebook subset. UE indicated support of ful coherent codebook subset shall also support partial and non-coherent codebook subset. <b>Band</b> No N/A N/A N/A N/A ExperitionAutiSlots. A UE that indicates support of this feature shall support <i>type1-PUSCH</i> RepetitionMultiSlots. <i>type2-PUSCH-Repetitions</i> for threepetitions for dynamic and configured grant PUSCH are determined on the basis of available slots. A UE that indicates support streeiving PDSCH with resource mapping that excludes the Res determined by the higher layer configuration LTE-carrier configuring common RS2.6. <b>PUSCH-RepetitionMultiSlots or pusch</b> <b>RepetitionMultiSlots. type2-PUSCH-RepetitionSide</b> drives and all TDD-FR1 bands. A UE that indicates the supports receiving PDSCH with resource mapping that excludes the Res determined of this feature shall set the capability value consistently for all FDD-FR1 bands. and ITDD-FR2 bands. A UE that indicates the support sprocenom PDSCH RE-mapping patterns; - Supports P2-PCSI-RS for group-common PDSCH RE-mapping patterns; - Supports P2-PCSI-RS for group-common PDSCH RE-mapping patterns; - Supports P2-PCSI-RS for group-common	Indicates whether the UE supports the dynamic indication of the number of				
Support of this field is reported for shared spectrum channel access and non-shared spectrum channel access, respectively. Use production support of this fauture shall support at least one of <i>type2-PUSCH-RepetitionMultiSlots and pusch-RepetitionMultiSlots for shared spectrum and non-shared spectrum respectively.</i> Use 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>pusch-RepetitionTypeA-v16c0</i> if <i>pusch-RepetitionTypeA-v16c</i> if <i>absent.</i> Defines support of the indicated support of full coherent codebook subset by the UE for UL precoding for PUSCH transmission as described in clause 6.1.1.1 of TS 33.214 [12]. UE indicated support of full coherent codebook subset. The indicated support of full coherent codebook subset. The indicated support of full coherent codebook subset. The repetitions for dynamic and non-coherent codebook subset. Subset. The indicated support of full coherent codebook subset. The repetitions for dynamic and configured grant PUSCH repetitions for dynamic and configured grant PUSCH repetitions for dynamic and configured grant PUSCH-RepetitionMultiSlots or pusch-RepetitionMultiSlots or pusch-RepetitionMultiSlots. Transmission accessions for the repatitive of dynamic and configured grant PUSCH repetitions for dynamic and configured grant PUSCH repetitions for dynamic and configured grant PUSCH repetitionMultiSlots or pusch-RepetitionMultiSlots. PM2-PUSCH-RepetitionMultiSlots. PM2-PUSCH-RepetitionMultiSlots or pusch-RepetitionMultiSlots. PM2-PUSCH-RepetitionMultiSlots or pusch-Repetition and anon-shared spectrum respectively. For NTN, UE shall set the capability value consistently for all FDD-FR1 bands and IDD-FR2 bands. associated with supported shared and non-shared spectrum respectively. For NTN, UE shall set the capability value consistently for all FDD-FR1 bands. All TDD-FR1 bands. All TDD-FR1 bands. All TDD-FR1 bands and IDD-FR1 bands. All TDD-FR1 bands and IDD-FR1 bands. All TDD-FR1 bands and IDD	repetitions for PLISCH transmission as specified in TS 38 214 [12] clause 6.1.2.1				
Support of instruct a legible to the status of th	Support of this field is reported for shorted anothing bound in the bound of this field is reported for shorted				
spectrum channel access, respectively. Us indicating support of this feature shall support at least one of type2-PUSCH-RepetitionMUISIOs to respectively. 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>pusch-RepetitionTypeA-v16c0</i> if <i>pusch-RepetitionTypeA-r16</i> is absent. Pusch-TransCoherence Defines support of the uplink codebook subset by the UE for UL precoding for PUSCH transmission ac described in clause 6 1.1.1 of TS 38.214 [12]. UE indicated support of partial coherent codebook subset shall also support non-coherent codebook subset shall also support partial and non-coherent codebook subset. Pusch-TypeA-RepetitionS-AudiStor-IT Indicates whether UE supports dynamic and configured grant PUSCH respetitions for dynamic and configured grant PUSCH respetitions for dynamic and configured grant PUSCH-Repetitions for dynamic and configured in TS 38.214 [12]. Indicates whether UE supports receiving PDSCH with resource mapping that excludes the RE determined by the higher layer configuration LTE-carrier Configuring common PDSCH. For TN, the UE shall set the capability value consistently for all FDD-FR1 bands, all TDD-FR2 bands, associated with supports dynamic and non-shared spectrum respectively. For TN1, bute shall set the capability value consistently for all FDD-FR1 bands, all TDD-FR2 bands, associated with supports dynamic and non-shared spectrum respectively. For TN1, bute shall set the capability value consisten	Support of this field is reported for shared spectrum channel access and non-shared				
support at least one of <i>spe2-PUSCH-RepetitionMultiSlots</i> and <i>pusch-RepetitionMultiSlots</i> for shrared spectrum appectrum respectively. 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>pusch-RepetitionTypeA-v16C0</i> if <i>pusch-RepetitionTypeA-v16</i> is absent. <b>pusch-TransCoherence</b> 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 support of putilal coherent codebook subset shall also support non-coherent codebook subset. UE indicated support of full coherent codebook subset shall also support partial coherent codebook subset. <b>puschTypeA-RepetitionsAvailSiot+17</b> Indicates whether UE supports dynamic and configured grant PUSCH repetitions based on available slots. Transmission occasions for the repetitions for dynamic and configured grant PUSCH are determined on the basis of available slots. A UE that indicates support of this feature shall support <i>type1-PUSCH</i> - RepetitionMultiSlots, <i>type2-PUSCH-RepetitionMultiSlots or pusch</i> - RepetitionMultiSlots, type2-PUSCH-RepetitionMultiSlots or pusch- RepetitionMultiSlots, spe2-PUSCH-RepetitionMultiSlots or pusch- RepetitionMultiSlots, spe2-FUSCH-RepetitionMultiSlots or pusch- RepetitionMultiSlots, Spe3-F16. <b>Fet_verRetRetMathIngFOrMultiCastr171</b> Indicates whether the US supports nucleast PDCCH scrambled with CS-RNT1 to release SPS group-common PS, as a specified in TS 38.214 [12]. <b>Fet_verRetRetMathIngFOrMultiCastr171</b> Indicates whether the US supports for group-common PDSCH RE-level rate matching for multicast, comprised of the fauture shall indicate support of sps- Multicast+r17 and sps-r1	spectrum channel access, respectively. UE indicating support of this feature shall				
RepetitionMultiSlots for shared spectrum and non-shared spectrum respectively.       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         The UE only includes <i>pusch-RepetitionTypeA-v16c0</i> if <i>pusch-RepetitionTypeA-v16c0</i> if <i>pusch-TransCoherence</i> Band       No       N/A       N/A         PulSCH transmission as described in clause 61.11 of TS 38.214 [12]. UE indicated support of partial coherent codebook subset shall also support non-coherent codebook subset shall also support partial and non-coherent codebook subset shall also support partial and non-coherent codebook subset shall also support partial and non-scherent codebook subset shall also support partial and non-scherent codebook subset shall also support partial coherent codebook subset shall also support partial and non-coherent codebook subset shall also support partial coherent codebook subset shall also support partial and non-coherent codebook subset shall also support partial and non-coherent codebook subset shall also support partial and non-coherent codebook subset shall also support partial coherent codebook subset shall also support partial coherent codebook subset shall also support partial coherent codebook subset shall so support partial coherent codebook subset shall also support parterent seaseset setrenthemetitions the participation that sective	support at least one of type2-PUSCH-RepetitionMultiSlots and pusch-				
UE shall set the capability value consistently for all FDD-FR1 bands, all TDD-FR1       Image: Constraint of the con	RepetitionMultiSlots for shared spectrum and non-shared spectrum respectively.				
UE shall set the capability value consistently for all FDD-FR1 bands, all TDD-FR1 bands and all TDD-FR2 bands respectively.       Image: Construction 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 Band       Band       No       N/A       N/A         Pusch-TransCoherence 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 subset. UE indicated support of full coherent codebook subset.       Band       No       N/A       N/A         Indicates whether UE supports dynamic and configured grant PUSCH repetitions based on available slots. Transmission occasions for the repetitions for dynamic and configured grant PUSCH are determined on the basis of available slots.       Band       No       N/A       N/A         A UE that indicates support of this feature shall support (part-PUSCH- RepetitionHultiSlots, type2-PUSCH-RepetitionMultiSlots or pusch- RepetitionHultiSlots.       Band       No       N/A       N/A         Indicates whether the UE supports uncast PDCCH scrambled with CS-RNTI to release SPS group-common PDSCH. For TN, the UE shall set the capability value consistently for all PDD-FR1 bands, all TDD-FR1 bands.       Band       No       N/A       N/A         Viets shall set the capability value consistently for all FDD-FR1 bands, all TDD-FR2 bands, sascolated with supports 97.2PC-SI-RS for group-common PDSCH RE-mapping patterns; Supports PZP-CSI-RS for group-common PDSCH RE-mapping patterns; Supports PZP-CSI	· · · · · · · · · · · · · · · · · · ·				
De stands and all TOD-FR2 bands respectively. The UE only includes <i>pusch-RepetitionTypeA-v16c0</i> if <i>pusch-RepetitionTypeA-r16</i> is absent. <i>pusch-TransCoherence</i> 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 support of partial coherent codebook subset shall also support non-coherent codebook subset. UE indicated support of full coherent codebook subset shall also support partial and non-coherent codebook subset. <i>PuschTypeA-RepetitionsAvaliSlot-TT</i> Indicates whether UE supports dynamic and configured grant PUSCH repetitions based on available slots. Transmission occusions for the repetitions for dynamic and configured grant PUSCH are determined on the basis of available slots. A UE that indicates support of this feature shall support <i>type1-PUSCH</i> - <i>RepetitionMutiSlots</i> , <i>type2-PUSCH-Repetitions</i> DT <i>support type1-PUSCH</i> - <i>RepetitionMutiSlots</i> , <i>type2-PUSCH-Repetitions</i> DT <i>support type1-PUSCH</i> - <i>RepetitionMutiSlots</i> , <i>type2-PUSCH-Repetition</i> DTE-carrier configuring common PSS. For Th, the UE shall set the capability value consistently for all FDD-FR1 bands, all TDD-FR1 bands, all TDD-FR2 bands, associated with supports dyname part of pusch-Repetitions for <i>sps-Muticast three fortunates</i> and <i>transpring</i> . A UE that indicates the support of this feature shall indicate support of <i>sps-Muticast three fortunates</i> and non-shared spectrum respectively. For NTN, UE shall set the capability value consistently for all FDD-FR1 NTN bands. A UE that indicates the support of this feature shall indicate support of <i>sps-Muticast three fortunates</i> for ongrue of the following tunctional components: - Supports <i>P2P-CSI-RS</i> for group-common PDSCH RE-mapping patterns; - Supports <i>P2P-</i>	LE shall get the consplicitly value consistently for all EDD EP1 hands, all TDD EP1				
Dands and all TDD-H2 bands respectively.       Image: Construction of the second	DE shall set the capability value consistently for all PDD-FRT bands, all TDD-FRT				
The UE only includes <i>pusch-RepetitionTypeA-v16C</i> if <i>pusch-RepetitionTypeA-v16</i> Image: Constraint of the uplink codebook subset by the UE for UL precoding for PUSCH transaction of the uplink codebook subset shall also support of partial coherent codebook subset shall also support of partial coherent codebook subset shall also support of partial coherent codebook subset shall also support on-coherent codebook subset shall also support partial and non-coherent codebook subset. UE indicates support of the UE supports dynamic and configured grant PUSCH repetitions for dynamic and configured grant PUSCH repetitions for dynamic and configured grant PUSCH are determined on the basis of available slots.       Band       No       N/A       N/A         A UE that indicates support of this feature shall support <i>type1-PUSCH-RepetitionMultiSlots</i> , <i>type2-PUSCH-RepetitionMultiSlots</i> , <i>type2-PUSCH-RepetitionSlot</i> , <i>type1-PUSCH-RepetitionSlot</i> , <i>type1-PUSCH-RepetitionMultiSlots</i> , <i>type2-PUSCH-RepetitionSlot</i> , <i>type1-PUSCH-RepetitionSlot</i> , <i>type1-PU-SCH-RepetitionSlot</i> , <i>type1-PU-SCH-RepetitionSlot</i> , <i>type1-PU-SCH-RepetitionSlot</i> , <i>type1-PU-SCH-RepetitionSlot</i> , <i>type1-PU-SCH-RepetitionSlot</i> , <i>type2-PUSCH-RepetitionSlot</i> , <i>type1-PU-SCH-RepetitionSlot</i> , <i>type1-PU-SCH-RepetitionSlot</i> , <i>type1-PU-SCH-RepetitionSlot</i> , <i>type1-P</i>	bands and all TDD-FR2 bands respectively.				
The UE only includes <i>pusch-RepetitionTypeA-v16C0</i> if <i>pusch-RepetitionTypeA-v16</i> Image: Construct the construction of the constructing the construction of the construction of the construction of the					
is absent.       Band       No       N/A         pusch-TransCoherence       Band       No       N/A       N/A         Defines support of the uplink codebook subset by the UE for UL precoding for       Band       No       N/A       N/A         PUSCH transmission as described in clause 6.1.1.1 of TS 38.214 [12]. UE indicated support of no-obsent codebook subset shall also support non-coherent       Band       No       N/A       N/A         Indicates whether UE supports dynamic and configured grant PUSCH repetitions       Band       No       N/A       N/A         Indicates whether UE supports dynamic and configured grant PUSCH repetitions for dynamic and configured grant PUSCH are determined on the basis of available slots.       Band       No       N/A       N/A         A UE that indicates support of this feature shall support type1-PUSCH-Repetition/MultiSlots.       Band       Yes       N/A       N/A         Indicates whether the UE supports receiving PDSCH with resource mapping that excludes the RES determined by the higher layer configuration LTE-carrier configuring common PDSCH. For TN, the UE shall set the capability value consistently for all PDD-FR1 bands, and TDD-FR2 bands, associated with supported shared and non-shared spectrum respectively. For NTN, uE shall set the capability value consistently for all PDD-FR1 bands, and TDD-FR1 bands, and TDD-FR2 bands, associated with supported shared and non-shared spectrum respectively. For NTN, uE shall set the capability value consistently for all PDD-FR1 bands, and TDD-FR1 bands, and TDD-FR2 bands, associated with	The UE only includes pusch-RepetitionTypeA-y16c0 if pusch-RepetitionTypeA-r16				
Bandbare         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 support of partial coherent codebook subset shall also support non-coherent codebook subset. UE indicated support of full coherent codebook subset shall also support partial and non-coherent codebook subset.         Band         No         N/A         N/A           PuschTypeA-RepetitionsAvailSiO+T7         Indicates whether UE supports dynamic and configured grant PUSCH repetitions based on available slots. Transmission occasions for the repetitions for dynamic and configured grant PUSCH are determined on the basis of available slots.         Band         No         N/A         N/A           A UE that indicates support of this feature shall support type1-PUSCH- RepetitionMultiSlots.         Band         Yes         N/A         N/A           Indicates whether UE supports receiving PDSCH with resource mapping that excludes the REs determined by the higher layer configuration LTE-carrier configuring common RS, as specified in TS 38.214 [12].         Band         No         N/A         N/A           Indicates whether UE supports unicast PDCCH scrambled with CS-RNTI to release SPS group-common RS, as specified in TS 48.214 [12].         Band         No         N/A         N/A           Indicates whether UE supports of this feature shall indicate support of sps- Multicast-r17 and sps-r16.         Band         No         N/A         N/A	is absent				
Dubbins		Dand	No	NI/A	
Defines support of the uplink codebook subset by the UE for UL precoding for PUSCH transmission as described in classe 6.1.1.1 of TS 38.214 [12]. UE indicated support of partial coherent codebook subset shall also support non-coherent codebook subset. UE indicated support of full coherent codebook subset shall also support partial and non-coherent codebook subset. <b>puschTypeA-RepetitionsAvailSide-17</b> Indicates whether UE supports dynamic and configured grant PUSCH repetitions based on available slots. Transmission occasions for the repetitions for dynamic and configured grant PUSCH are determined on the basis of available slots. A UE that indicates support of this feature shall support type1-PUSCH- RepetitionMultiSlots, type2-PUSCH-RepetitionMultiSlots or pusch- RepetitionMultiSlots, type2-PUSCH-RepetitionMultiSlots or pusch- RepetitionMultiSlots. <b>releaseSPS-MulticastWinGS-RNTI-17</b> Indicates whether the UE supports receiving PDSCH with resource mapping that excludes the REs determined by the higher layer configuration LTE-carrier configuring common PDSCH. For TN, the UE shall set the capability value consistently for all FDD-FR1 bands, all TDD-FR1 bands and all TDD-FR2 bands, associated with supported shared and non-shared spectrum respectively. For NTN, UE shall set the capability value consistently for all FDD-FR1 bands, associated the following for CNR HE-napping patterns; - Supports P2-PCSI-RS for group-common PDSCH RE-napping patterns; - Supports P2-PCSI-RS for group-common PDSCH RE-mapping patterns; - Supports P2-PCSI-RS for gr	pusch-mansconerence	Бапа		IN/A	IN/A
PUSCH transmission as described in clause 6.1.1.1 of TS 38.214 [12]. UE indicated support of truit codebox subset shall also support on-coherent codebox subset. <ul> <li>PuschTypeA-RepetitionsAvailSlot-17</li> <li>Indicates whether UE supports dynamic and configured grant PUSCH repetitions for dynamic and configured grant PUSCH are determined on the basis of available slots.</li> <li>A UE that indicates support of this feature shall support type1-PUSCH-RepetitionMultiSlots, type2-PUSCH-RepetitionMultiSlots or pusch-RepetitionMultiSlots, repe2-PUSCH-RepetitionMultiSlots or pusch-RepetitionMultiSlots, type2-PUSCH-RepetitionMultiSlots or pusch-RepetitionMultiSlots or pusch-RepetitionMultiSlots, spe2-PUSCH-RepetitionMultiSlots, spe2-PUSCH-RepetitionMultiSlots, repe2-PUSCH-RepetitionMultiSlots, repe2-PUSCH-RepetitionMultiSlots, repe2-PUSCH-RepetitionMultiSlots, repe2-PUSCH-RepetitionMultiSlots, repe2-PUSCH-RepetitionMultiSlots, repe2-PUSCH-RepetitionMultiSlots, repe3-PUSCH-RepetitionMultiSlots, repe3-PUSCH-RepetitionMultiSlots, repe3-PUSCH-RepetitionMultiSlots, repe3-PUSCH-RepetitionMultiSlots, repe3-PUSCH-RepetitionMultiSlots, repe3-PUSCH-RepetitionMultiSlots, repe3-PUSCH-RepetitionMultiSlots, rep3-PUSCH-RepetitionMultiSlots, rep3-PUSCH-Rep4-PUSCH-Rep3-PUSCH-Rep4-PUSCH-RE-Rep4-PUSCH-RE-Rep4-PUSCH-Rep4-PUSCH-RE-Rep4-PUSCH-RE-Rep4-PUSCH-RE-Rep4-PUSCH-RE-Rep4-PUSCH-RE-Rep4-PUSCH-RE-Rep4-PUSCH-RE-Rep4-PUSCH-RE-Rep4-PUSCH-RE-Rep4-PUSCH-RE-Rep4-PUSCH-RE-Rep4-PUSCH-RE-Rep4-PUSCH-</li></ul>	Defines support of the uplink codebook subset by the UE for UL precoding for				
support of partial coherent codebook subset shall also support non-coherent codebook subset. UE indicated support of full coherent codebook subset shall also support partial and non-coherent codebook subset.       Band       No       N/A         puschTypeA-RepetitionsAvailSlot-r17       Indicates whether UE supports dynamic and configured grant PUSCH repetitions based on available slots.       Band       No       N/A       N/A         A UE that indicates support of this feature shall support type1-PUSCH-RepetitionMultiSlots, type2-PUSCH-RepetitionMultiSlots, type2-PUSCH-Repetitive3/EXAMPLE, and the component PUSCH Repetitive3/EXAMPLE, type3/EXAMPLE,	PUSCH transmission as described in clause 6.1.1.1 of TS 38.214 [12]. UE indicated				
codebook subset. UE indicated support of full coherent codebook subset shall also       Band       No       N/A         Support partial and non-coherent codebook subset.       Band       No       N/A       N/A         PuschT/ppeA-RepetitionsAvailSlot-r17       Indicates whether UE supports dynamic and configured grant PUSCH repetitions based on available slots.       Band       No       N/A       N/A         A UE that indicates support of this feature shall support type1-PUSCH- RepetitionMultiSlots, type2-PUSCH-RepetitionMultiSlots or pusch- RepetitionMultiSlots, type2-PUSCH-RepetitionMultiSlots or pusch- RepetitionMultiSlots, supports receiving PDSCH with resource mapping that indicates whether the E supports receiving PDSCH with resource mapping that excludes the REs determined by the higher layer configuration LTE-carrier configuring common RS, as specified in TS 38.214 [12].       Band       No       N/A       N/A         Indicates whether UE supports unicast PDCCH scrambled with CS-RNTI to release SPS group-common PDSCH. For TN, the UE shall set the capability value consistently for all FDD-FR1 bands and all TDD-FR2 bands, associated with supported shared and non-shared spectrum respectively. For NTN, UE shall set the capability value consistently for all FDD-FR1 NTN bands.       Band       No       N/A       N/A         A UE that indicates whether the UE supports group-common PDSCH RE-level rate matching for multicast, comprised of the following functional components: Supports P2-PCSI-RS for group-common PDSCH RE-mapping patterns; Supports P2-PCSI-RS for group-common PDSCH RE-mapping patterns; Supports P2-PCSI-RS for group-common PDSCH RE-mappi	support of partial coherent codebook subset shall also support non-coherent				
Band No       N/A       N/A         N/A       N/A       N/A         Indicates whether the US supports proceival congradia ton 10D-FR2 bands, and all 10D-FR2 bands, associated with	codebook subset LIE indicated support of full coherent codebook subset shall also				
Support patinal indiciduation to decode subset.       Band       No       N/A         Indicates whether UE supports dynamic and configured grant PUSCH repetitions based on available slots.       Band       No       N/A         A UE that indicates support of this feature shall support type1-PUSCH.       Band       No       N/A         RepetitionMultiSlots.       Band       Yes       N/A       N/A         Indicates whether the UE supports receiving PDSCH with resource mapping that excludes the REs determined by the higher layer configuration LTE-carrier configuring common RS, as specified in TS 38.214 [12].       Band       No       N/A       N/A         Indicates whether the UE supports receiving PDSCH with resource mapping that excludes the REs determined by the higher layer configuration LTE-carrier configuring common PDSCH. For TNI, the UE shall set the capability value consistently for all FDD-FR1 bands, all TDD-FR1 bands and all TDD-FR2 bands, associated with supported shared and non-shared spectrum respectively. For NTN, UE shall set the capability value consistently for all FDD-FR1 bands and all TDD-FR2 bands, associated with supports SP2-CSI-RS for group-common PDSCH RE-mapping patterns;       Band       No       N/A       N/A         Supports P2-PC-SI-RS for group-common PDSCH RE-mapping patterns;       Supports P2-PC-SI-RS for group-common PDSCH RE-mapping patterns;       Band       No       N/A       N/A         Supports P2-PC-SI-RS for group-common PDSCH RE-mapping patterns;       Supports P2-PC-SI-RS for group-common PDSCH RE-mapping patterns;	support partial and pan aphorant padaback subact				
pusch TypeA-RepetitionsAvailStolc+17BandNoN/AN/AIndicates whether UE supports dynamic and configured grant PUSCH repetitions based on available slots. Transmission occasions for the repetitions for dynamic and configured grant PUSCH are determined on the basis of available slots.BandNoN/AN/AA UE that indicates support of this feature shall support type1-PUSCH- RepetitionMultiSlots, type2-PUSCH-RepetitionMultiSlots or pusch- RepetitionMultiSlots.BandYesN/AN/AIndicates whether the UE supports receiving PDSCH with resource mapping that excludes the REs determined by the higher layer configuration LTE-carrier configuring common RS, as specified in TS 38.214 [12].BandNoN/AN/AIndicates whether UE supports unicast PDCCH scrambled with CS-RNTI to release SPS group-common PDSCH. For TN, the UE shall set the capability value consistently for all FDD-FR1 bands, all TDD-FR1 bands and all TDD-FR2 bands, associated with supported shared and non-shared spectrum respectively. For NTN, UE shall set the capability value consistently for all FDD-FR1 bands, all TDD-FR1 bands, all TDD-FR2 bands, associated with supported the following functional components: Supports SP ZP-CSI-RS for group-common PDSCH RE-mapping patterns; Supports PZ-CSI-RS for group-common PDSCH RE-mappin	support partial and non-content codebook subset.				
Indicates whether UE supports dynamic and configured grant PUSCH repetitions based on available slots. Transmission occasions for the repetitions for dynamic and configured grant PUSCH are determined on the basis of available slots. A UE that indicates support of this feature shall support <i>type1-PUSCH</i> . <i>RepetitionMultiSlots, type2-PUSCH-RepetitionMultiSlots or pusch</i> . <i>RepetitionMultiSlots, type2-PUSCH-RepetitionMultiSlots or pusch</i> . <i>RepetitionMultiSlots, type2-PUSCH-RepetitionMultiSlots or pusch</i> . <i>RepetitionMultiSlots, type2-PUSCH-RepetitionMultiSlots or pusch</i> . <i>RepetitionMultiSlots, type2-PUSCH</i> . Indicates whether the UE supports receiving PDSCH with resource mapping that excludes the REs determined by the higher layer configuration LTE-carrier configuring common RS, as specified in TS 38.214 [12]. <i>TeleaseSPS-MultiCastWithCS-RNTI-177</i> Indicates whether UE supports unicast PDCCH scrambled with CS-RNTI to release SPS group-common PDSCH. For TN, the UE shall set the capability value consistently for all FDD-FR1 bands, all TDD-FR1 bands and all TDD-FR2 bands, associated with supported shared and non-shared spectrum respectively. For NTN, UE shall set the capability value consistently for all FDD-FR1 NTN bands. A UE that indicates the support of this feature shall indicate support of <i>sps- Multicast-r17</i> and <i>sps-r16.</i> <i>re-LevelRateMatchingForMulticast-r17</i> Indicates whether the UE supports group-common PDSCH RE-mapping patterns; - Supports P.2P-CSI-RS for group-common PDSCH RE-mapp	puschTypeA-RepetitionsAvailSlot-r17	Band	NO	N/A	N/A
based on available slots. Transmission occasions for the repetitions for dynamic and configured grant PUSCH are determined on the basis of available slots.Image: Configure Confi	Indicates whether UE supports dynamic and configured grant PUSCH repetitions				
and configured grant PUSCH are determined on the basis of available slots.       A         A UE that indicates support of this feature shall support type1-PUSCH- RepetitionMultiSlots. type2-PUSCH-RepetitionMultiSlots or pusch- RepetitionMultiSlots.       Band       Yes       N/A         TateMatchingLTE-CRS Indicates whether the UE supports receiving PDSCH with resource mapping that excludes the REs determined by the higher layer configuration LTE-carrier configuring common RS, as specified in TS 38.214 [12].       Band       Yes       N/A       N/A         releaseSPS-MulticastWithCS-RNTI-r17 Indicates whether UE supports unicast PDCCH scrambled with CS-RNTI to release SPS group-common PDSCH. For TN, the UE shall set the capability value consistently for all FDD-FR1 bands, all TDD-FR1 bands and all TDD-FR2 bands, associated with supported shared and non-shared spectrum respectively. For NTN, UE shall set the capability value consistently for all FDD-FR1 NTN bands.       Band       No       N/A       N/A         A UE that indicates the support of this feature shall indicate support of sps- Multicast-r17 and sps-r16.       Band       No       N/A       N/A         re-LevelRateMatchingForMulticast-r17       Band       No       N/A       N/A       N/A         Indicates whether the UE supports group-common PDSCH RE-level rate matching for multicast, comprised of the following functional components: Supports PZ-P-CSI-RS for group-common PDSCH RE-mapping patterns; Supports PZ-P-CSI-RS for group-common PDSCH RE-mapping patterns; Supports PZ-P-CSI-RS for group-common PDSCH RE-mapping patterns; Supports AP ZP-CSI-RS f	based on available slots. Transmission occasions for the repetitions for dynamic				
A UE that indicates support of this feature shall support type1-PUSCH- RepetitionMultiSlots, type2-PUSCH-RepetitionMultiSlots or pusch- RepetitionMultiSlots.       Band       Yes       N/A       N/A         Indicates whether the UE supports receiving PDSCH with resource mapping that excludes the REs determined by the higher layer configuration LTE-carrier configuring common RS, as specified in TS 38.214 [12].       Band       Yes       N/A       N/A         Indicates whether the UE supports unicast PDCCH scrambled with CS-RNT1 to release SPS group-common PDSCH. For TN, the UE shall set the capability value consistently for all FDD-FR1 bands, all TDD-FR1 bands and all TDD-FR2 bands, associated with supported shared and non-shared spectrum respectively. For NTN, UE shall set the capability value consistently for all FDD-FR1 bands.       Band       No       N/A       N/A         A UE that indicates the support of this feature shall indicate support of sps- Multicast+r17 and sps-r16.       Band       No       N/A       N/A         rel-evelRateMatchingForMulticast+r17       Indicates whether the UE supports group-common PDSCH RE-level rate matching for multicast, comprised of the following functional components: - Supports PZP-CSI-RS for group-common PDSCH RE-mapping patterns; - S	and configured grant PLISCH are determined on the basis of available slots				
A UE that indicates support of this feature shall support type1-PUSCH- Repetition/MultiStots, type2-PUSCH-Repetition/MultiStots or pusch- Repetition/MultiStots, type2-PUSCH-Repetition/MultiStots       Band       Yes       N/A       N/A         Indicates whether the UE supports receiving PDSCH with resource mapping that excludes the REs determined by the higher layer configuration LTE-carrier configuring common RS, as specified in TS 38.214 [12].       Band       No       N/A       N/A         Indicates whether UE supports unicast PDCCH scrambled with CS-RNT1 to release SPS group-common PDSCH. For TN, the UE shall set the capability value consistently for all FDD-FR1 bands, all TDD-FR1 bands, and ITDD-FR2 bands, associated with supported shared and non-shared spectrum respectively. For NTN, UE shall set the capability value consistently for all FDD-FR1 bands, and Multicast-r17 and sps-r16.       Band       No       N/A       N/A <i>re-LevelRateMatchingForMulticast-r17</i> Indicates whether the UE supports group-common PDSCH RE-level rate matching for multicast, comprised of the following functional components: - Supports PZP-CSI-RS for group-common PDSCH RE-mapping patterns; - Supports PZP-CSI-RS for group-common PDSCH RE-mapping patterns; - Supports PZP-CSI-RS for group-common PDSCH RE-mapping patterns; - Supports AP ZP-CSI-RS for S	and configured grant robot rate determined on the basis of available slots.				
A UE that indicates support of this feature shall support type1-PUSCH- RepetitionMultiSlots, vpe2-PUSCH-RepetitionMultiSlots or pusch- RepetitionMultiSlots. <b>rateMatchingLTE-CRS</b> Indicates whether the UE supports receiving PDSCH with resource mapping that excludes the REs determined by the higher layer configuration LTE-carrier configuring common RS, as specified in TS 38.214 [12]. <b>releaseSPS-MulticastWithCS-RNTI-17</b> Indicates whether tUE supports unicast PDCCH scrambled with CS-RNTI to release SPS group-common PDSCH. For TN, the UE shall set the capability value consistently for all FDD-FR1 bands, all TDD-FR1 bands and all TDD-FR2 bands, associated with supported shared and non-shared spectrum respectively. For NTN, UE shall set the capability value consistently for all FDD-FR1 NTN bands. A UE that indicates the support of this feature shall indicate support of <i>sps- Multicast-r17</i> and <i>sps-r16</i> . <b>re-LevelRateMatchingForMulticast-r17</b> Indicates whether the UE supports group-common PDSCH RE-level rate matching for multicast, comprised of the following functional components: - Supports PZP-CSI-RS for group-common PDSCH RE-mapping patterns; - Supports AP ZP-CSI-RS for group-common PDSCH RE-mapping patterns; - Supports AP ZP-CSI-RS for group-common PDSCH RE-mapping patterns. For TN, the UE shall set the capability value consistently for all FDD-FR1 bands, all TDD-FR1 bands and all TDD-FR2 bands, shall also indicate support of <i>dyach-RE-MappingFR1-PerSymbol</i> or <i>dsch-RE-MappingFR1-PerSlot</i> . A UE supporting this feature in TR1 bands shall also indicate support of <i>dyach-RE-MappingFR2-PerSlot</i> . A UE supporting this feature in FR1 bands shall also indicate support					
Repetition/MultiSlots, type2-PUSCH-Repetition/MultiSlots or pusch- Repetition/MultiSlots.       Band       Yes       N/A       N/A         Indicates whether the UE supports receiving PDSCH with resource mapping that excludes the REs determined by the higher layer configuration LTE-carrier configuring common RS, as specified in TS 38.214 [12].       Band       Yes       N/A       N/A         Indicates whether UE supports incise PDCCH scrambled with CS-RNT1 to release SPS group-common PDSCH. For TN, the UE shall set the capability value consistently for all FDD-FR1 bands, all TDD-FR1 bands and all TDD-FR2 bands, associated with supported shared and non-shared spectrum respectively. For NTN, UE shall set the capability value consistently for all FDD-FR1 bands and all TDD-FR2 bands.       Band       No       N/A       N/A         A UE that indicates the support of this feature shall indicate support of sps- Multicastr-17 and sps-r16.       Band       No       N/A       N/A         Pe-LevelRateMatchingForMulticast-17       Indicates whether the UE supports group-common PDSCH RE-nevel rate matching for multicast, comprised of the following functional components: - Supports P.2P-CSI-RS for group-common PDSCH RE-mapping patterns; - Supports AP ZP-CSI-RS for group-common PD	A UE that indicates support of this feature shall support type1-PUSCH-				
RepetitionMultiSlots       Band       Ves       N/A         rateMatchingLTE-CRS       Band       Yes       N/A         Indicates whether the UE supports receiving PDSCH with resource mapping that excludes the REs determined by the higher layer configuration LTE-carrier configuring common RS, as specified in TS 38.214 [12].       Band       Yes       N/A       N/A         releaseSPS-MulticastWithCS-RNTI+T7       Indicates whether UE supports unicast PDCCH scrambled with CS-RNTI to release SPS group-common PDSCH. For TN, the UE shall set the capability value consistently for all FDD-FR1 bands, and all TDD-FR2 bands, associated with supported shared and non-shared spectrum respectively. For NTN, UE shall set the capability value consistently for all FDD-FR1 bands.       Band       No       N/A       N/A         A UE that indicates the support of this feature shall indicate support of sps-Multicast-r17       Band       No       N/A       N/A         Indicates whether the UE supports group-common PDSCH RE-level rate matching for multicast, comprised of the following functional components:       Band       No       N/A       N/A         Supports P ZP-CSI-RS for group-common PDSCH RE-mapping patterns;       Supports PZ-CSI-RS for group-common PDSCH RE-mapping patterns;       Band       No       N/A       N/A       N/A       N/A       <	RepetitionMultiSlots, type2-PUSCH-RepetitionMultiSlots or pusch-				
Top InstrumentsBandYesN/AN/AIndicates whether the UE supports receiving PDSCH with resource mapping that excludes the REs determined by the higher layer configuration LTE-carrier configuring common RS, as specified in TS 38.214 [12].BandYesN/AN/A <i>releaseSPS-MulticastWithCS-RNT+17T</i> Indicates whether UE supports unicast PDCCH scrambled with CS-RNT1 to release SPS group-common PDSCH. For TN, the UE shall set the capability value consistently for all FDD-FR1 bands, all TDD-FR1 bands and all TDD-FR2 bands, associated with supported shared and non-shared spectrum respectively. For NTN, UE shall set the capability value consistently for all FDD-FR1 NTN bands.BandNoN/AN/AA UE that indicates the support of this feature shall indicate support of <i>sps-Multicast-r17</i> Indicates whether the UE supports group-common PDSCH RE-level rate matching for multicast, comprised of the following functional components: Supports P ZP-CSI-RS for group-common PDSCH RE-mapping patterns; Supports P ZP-CSI-RS for group-common PDSCH RE-mapping patterns; Support and IDD-FR1 ban	RepetitionMultiSlots				
PatienationDataDataTesN/AN/AIndicates whether the UE supports receiving PDSCH with resource mapping that excludes the REs determined by the higher layer configuration LTE-carrier configuring common RS, as specified in TS 38.214 [12].DataTesN/AN/A <i>TeleaseSPS-MulticastWithCS-RNTr+17</i> Indicates whether UE supports unicast PDCCH scrambled with CS-RNT1 to release SPS group-common PDSCH. For TN, the UE shall set the capability value consistently for all FDD-FR1 bands, all TDD-FR1 bands and all TDD-FR2 bands, associated with supported shared and non-shared spectrum respectively. For NTN, UE shall set the capability value consistently for all FDD-FR1 NTN bands.BandNoN/AN/AA UE that indicates the support of this feature shall indicate support of sps- Multicast-171 and sps-r16.BandNoN/AN/A <i>re-LevelRateMatchingForMulticast-r17</i> Indicates whether the UE supports group-common PDSCH RE-napping patterns; • Supports PZP-CSI-RS for group-common PDSCH RE-mapping feature shall also indicate support		Bond	Voc	ΝΙ/Λ	Ν/Δ
Indicates whether the UE supports receiving PDSCH with resource mapping that excludes the REs determined by the higher layer configuration LTE-carrier configuring common RS, as specified in TS 38.214 [12]. <b>releaseSPS-MulticastWithCS-RNTI-17</b> Indicates whether UE supports uncast PDCCH scrambled with CS-RNTI to release SPS group-common PDSCH. For TN, the UE shall set the capability value consistently for all FDD-FR1 bands, all TDD-FR1 bands and all TDD-FR2 bands, associated with supported shared and non-shared spectrum respectively. For NTN, UE shall set the capability value consistently for all FDD-FR1 bands and all TDD-FR1 NTN bands. A UE that indicates the support of this feature shall indicate support of <i>sps-Multicast-r17</i> and <i>sps-r16.</i> <b>re-LevelRateMatchingForMulticast-r17</b> Indicates whether the UE supports group-common PDSCH RE-level rate matching for multicast, comprised of the following functional components: Supports PZP-CSI-RS for group-common PDSCH RE-mapping patterns; Supports PZP-CSI-RS for group-common PDSCH RE-mapping fract-patter and and non-shared spectrum respectively. For NTN, UE shall set the capability		Danu	res	IN/A	IN/A
excludes the REs determined by the higher layer configuration LTE-carrier configuring common RS, as specified in TS 38.214 [12].BandNoN/A <i>releaseSPS-MulticastWithCS-RNTI-r17</i> Indicates whether UE supports unicast PDCCH scrambled with CS-RNTI to release SPS group-common PDSCH. For TN, the UE shall set the capability value consistently for all FDD-FR1 bands, all TDD-FR1 bands and all TDD-FR2 bands, associated with supported shared and non-shared spectrum respectively. For NTN, UE shall set the capability value consistently for all FDD-FR1 NTN bands.BandNoN/AN/AA UE that indicates the support of this feature shall indicate support of <i>sps-Multicast-r17</i> and <i>sps-r16</i> .BandNoN/AN/A <i>re-LevelRateMatchingForMulticast-r17</i> Indicates whether the UE supports group-common PDSCH RE-level rate matching for multicast, comprised of the following functional components: Supports <i>P2P-CSI-RS</i> for group-common PDSCH RE-mapping patterns; Supports <i>P2P-CSI-RS</i> for group-common PDSCH RE-mapping patterns; Support and all	Indicates whether the UE supports receiving PDSCH with resource mapping that				
configuring common RS, as specified in TS 38.214 [12].releaseSPS-MulticastWithCS-RNTI-r17BandNoN/AIndicates whether UE supports unicast PDCCH scrambled with CS-RNTI to releaseBandNoN/ASPS group-common PDSCH. For TN, the UE shall set the capability valueConsistently for all FDD-FR1 bands, all TDD-FR1 bands and all TDD-FR2 bands, associated with supported shared and non-shared spectrum respectively. For NTN, UE shall set the capability value consistently for all FDD-FR1 bands and all TDD-FR1 NTN bands.BandNoN/AA UE that indicates the support of this feature shall indicate support of sps- Multicast-r17 and sps-r16.BandNoN/AN/ArelevelRateMatchingForMulticast-r17 Indicates whether the UE supports group-common PDSCH RE-level rate matching for multicast, comprised of the following functional components: - Supports PZ-CSI-RS for group-common PDSCH RE-mapping patterns; - Supports AP ZP-CSI-RS for group-common PDSCH RE-mapping patterns; - Supports PZ-CSI-RS for group-common PDSCH RE-mapping patterns; - Supports PZ-CSI-RS for group-common PDSCH RE-mapping patterns; - Supports AP ZP-CSI-RS for group-common PDSCH RE-mapping patterns; - Supports PZ-CSI-RS for group-common PDSCH RE-mapping patterns; - Supports PZ-CSI-RS for group-common PDSCH RE-mapping patterns; - Supports PZ-CSI-RS for group-common PDSCH RE-mapping patterns; - Supports patterns; 	excludes the REs determined by the higher layer configuration LTE-carrier				
releaseSPS-MulticastWithCS-RNTI-r17       Band       No       N/A       N/A         Indicates whether UE supports unicast PDCCH scrambled with CS-RNTI to release SPS group-common PDSCH. For TN, the UE shall set the capability value consistently for all FDD-FR1 bands, all TDD-FR1 bands and all TDD-FR2 bands, associated with supported shared and non-shared spectrum respectively. For NTN, UE shall set the capability value consistently for all FDD-FR1 NTN bands.       Band       No       N/A       N/A         A UE that indicates the support of this feature shall indicate support of sps- Multicast-r17 and sps-r16.       Band       No       N/A       N/A <i>re-LevelRateMatchingForMulticast-r17</i> Indicates whether the UE supports group-common PDSCH RE-level rate matching for multicast, comprised of the following functional components: - Supports P ZP-CSI-RS for group-common PDSCH RE-mapping patterns; - Supports P ZP-CSI-RS for group-common PDSCH RE-mapping patterns; - Supports P-ZP-CSI-RS for group-common PDSCH RE-mapping patterns.       Band       No       N/A       N/A         For TN, the UE shall set the capability value consistently for all FDD-FR1 bands, and IDD-FR1 bands and all TDD-FR2 bands, associated with supported shared and non-shared spectrum respectively. For NTN, UE shall set the capability value consistently for all FDD-FR1 NTN bands.       A UE supporting this feature in FR1 bands shall also indicate support of pdsch- RE-MappingFR1-PerSymbol or pdsch-RE-MappingFR1-PerSlot. A UE supporting this feature in FR2 bands shall also indicate support of pdsch- RE-MappingFR1-PerSymbol or pdsch-RE-MappingFR2-PerSlot.       WIE supporting this the same as for unicast in ReI-16.       WIE	configuring common RS, as specified in TS 38.214 [12].				
Indicates whether UE supports unicast PDCCH scrambled with CS-RNTI to release SPS group-common PDSCH. For TN, the UE shall set the capability value consistently for all FDD-FR1 bands, all TDD-FR1 bands and all TDD-FR2 bands, associated with supported shared and non-shared spectrum respectively. For NTN, UE shall set the capability value consistently for all FDD-FR1 NTN bands.       Band       No       N/A         A UE that indicates the support of this feature shall indicate support of <i>sps- Multicast-r17</i> and <i>sps-r16</i> .       Band       No       N/A       N/A         re-LevelRateMatchingForMulticast-r17       Indicates whether the UE supports group-common PDSCH RE-level rate matching for multicast, comprised of the following functional components: Supports SP ZP-CSI-RS for group-common PDSCH RE-mapping patterns; Supports P ZP-CSI-RS for group-common PDSCH RE-mapping patterns; Supports AP ZP-CSI-RS for group-common PDSCH RE-mapping patterns.       Image: state s	releaseSPS-MulticastWithCS-RNTI-r17	Band	No	N/A	N/A
Indicates whether UP solves that PDCC shall set the capability value consistently for all FDD-FR1 bands, all TDD-FR1 bands and all TDD-FR2 bands, associated with supported shared and non-shared spectrum respectively. For NTN, UE shall set the capability value consistently for all FDD-FR1 NTN bands.         A UE that indicates the support of this feature shall indicate support of sps-Multicast-r17 and sps-r16.       Band       No       N/A       N/A <i>re-LevelRateMatchingForMulticast-r17</i> Indicates whether the UE supports group-common PDSCH RE-level rate matching for multicast, comprised of the following functional components:       Band       No       N/A       N/A         Supports P ZP-CSI-RS for group-common PDSCH RE-mapping patterns;       Supports PZP-CSI-RS for group-common PDSCH RE-mapping patterns;       Band       No       N/A       N/A         For TN, the UE shall set the capability value consistently for all FDD-FR1 bands, all TDD-FR1 bands, and all TDD-FR2 bands, associated with supported shared and non-shared spectrum respectively. For NTN, UE shall set the capability value consistently for all FDD-FR1 bands, all TDD-FR1 bands and all TDD-FR2 bands, associated with supported shared and non-shared spectrum respectively. For NTN, UE shall set the capability value consistently for all FDD-FR1 bands, all TDD-FR1 bands, all TDD-FR1 bands and all TDD-FR2 bands, associated with supported shared and non-shared spectrum respectively. For NTN, UE shall set the capability value consistently for all FDD-FR1 NTN bands.       A UE supporting this feature in FR1 bands shall also indicate support of <i>pdsch-RE-MappingFR1-PerSlot</i> . A UE supporting this feature in FR1 bands shall also indicate support of <i>pdsch-RE-MappingFR2-PerSlot</i> .	Indicates whather LE supports unicest PDCCH exampled with CS PNTI to release	Bana			
SPS group-common PDSCH. For TN, the UE shall set the capability Value       consistently for all FDD-FR1 bands, all TDD-FR2 bands, associated with supported shared and non-shared spectrum respectively. For NTN, UE shall set the capability value consistently for all FDD-FR1 NTN bands.         A UE that indicates the support of this feature shall indicate support of sps- Multicast-r17 and sps-r16.       Band       No       N/A       N/A <b>re-LevelRateMatchingForMulticast-r17</b> Indicates whether the UE supports group-common PDSCH RE-level rate matching for multicast, comprised of the following functional components: <ul> <li>Supports SP ZP-CSI-RS for group-common PDSCH RE-mapping patterns;</li> <li>Supports P ZP-CSI-RS for group-common PDSCH RE-mapping patterns.</li> </ul> <li>For TN, the UE shall set the capability value consistently for all FDD-FR1 bands, all TDD-FR1 bands and all TDD-FR2 bands, associated with supported shared and non-shared spectrum respectively. For NTN, UE shall set the capability value consistently for all FDD-FR1 NTN bands.</li> <li>A UE supporting this feature shall also indicate support of <i>pasch-RE-MappingFR1-PerSlot</i>. A UE supporting this feature in FR2 bands shall also indicate support of <i>pasch-RE-MappingFR2-PerSlot</i>.</li> <li>NOTE: The total number of semi-persistent ZP-CSI-RS-ResourceSet that a UE can be configured with is the same as for unicast in Rel-16.</li>	indicates whether DE supports unicast PDCCh schambled with CS-RMT to release				
associated with supported shared and non-shared spectrum respectively. For NTN, UE shall set the capability value consistently for all FDD-FR1 NTN bands.BandNoN/AA UE that indicates the support of this feature shall indicate support of sps- Multicast-r17 and sps-r16.BandNoN/AN/A <i>re-LevelRateMatchingForMulticast-r17</i> Indicates whether the UE supports group-common PDSCH RE-level rate matching for multicast, comprised of the following functional components: <ul><li>Supports P ZP-CSI-RS for group-common PDSCH RE-mapping patterns;          Supports P ZP-CSI-RS for group-common PDSCH RE-mapping patterns;          Supports P-ZP-CSI-RS for group-common PDSCH RE-mapping patterns.BandNoN/AFor TN, the UE shall set the capability value consistently for all FDD-FR1 bands, all          TDD-FR1 bands and all TDD-FR2 bands, associated with supported shared and          non-shared spectrum respectively. For NTN, UE shall set the capability value          consistently for all FDD-FR1 NTN bands.Image: Supporting this feature in FR1 bands shall also indicate support of <i>dynamicMulticastPCell- r17</i>. A UE supporting this feature in FR1 bands shall also indicate support of <i>dysch-RE-MappingFR1-PerSlot</i>. A UE supporting          this feature in FR2 bands shall also indicate support of <i>dysch-RE-MappingFR2-PerSlot</i>.NOTE:The total number of semi-persistent ZP-CSI-RS-ResourceSet that a UE          ca</li></ul>	SPS group-common PDSCH. For TN, the UE shall set the capability value				
associated with supported shared and non-shared spectrum respectively. For NTN, UE shall set the capability value consistently for all FDD-FR1 NTN bands.Image: Construct the construct of the constru	consistently for all FDD-FR1 bands, all TDD-FR1 bands and all TDD-FR2 bands,				
UE shall set the capability value consistently for all FDD-FR1 NTN bands.       A UE that indicates the support of this feature shall indicate support of sps- Multicast+r17 and sps-r16.       Band       No       N/A         re-LevelRateMatchingForMulticast-r17 Indicates whether the UE supports group-common PDSCH RE-level rate matching for multicast, comprised of the following functional components:       Band       No       N/A       N/A         Supports P ZP-CSI-RS for group-common PDSCH RE-mapping patterns;       Supports p-ZP-CSI-RS for group-common PDSCH RE-mapping patterns;       Band       No       N/A       N/A         Supports P ZP-CSI-RS for group-common PDSCH RE-mapping patterns;       Supports p-ZP-CSI-RS-ResourceSet configured in PDSCH-Config;       Band       No       N/A       N/A         For TN, the UE shall set the capability value consistently for all FDD-FR1 bands, all TDD-FR1 bands and all TDD-FR2 bands, associated with supported shared and non-shared spectrum respectively. For NTN, UE shall set the capability value consistently for all FDD-FR1 NTN bands.       A       UE supporting this feature in FR1 bands shall also indicate support of pdsch- RE-MappingFR1-PerSymbol or pdsch-RE-MappingFR1-PerSlot. A UE supporting this feature in FR2 bands shall also indicate support of pdsch-RE-MappingFR2- PerSymbol or pdsch-RE-MappingFR2-PerSlot.       UE supporting this is the same as for unicast in Rel-16.       UE supporting this is the same as for unicast in Rel-16.	associated with supported shared and non-shared spectrum respectively. For NTN,				
A UE that indicates the support of this feature shall indicate support of <i>sps</i> - <i>Multicast-r17</i> and <i>sps-r16</i> . <b>re-LevelRateMatchingForMulticast-r17</b> Indicates whether the UE supports group-common PDSCH RE-level rate matching for multicast, comprised of the following functional components: - Supports SP ZP-CSI-RS for group-common PDSCH RE-mapping patterns; - Supports P-ZP-CSI-RS for group-common PDSCH RE-mapping patterns. For TN, the UE shall set the capability value consistently for all FDD-FR1 bands, all TDD-FR1 bands and all TDD-FR2 bands, associated with supported shared and non-shared spectrum respectively. For NTN, UE shall set the capability value consistently for all FDD-FR1 NTN bands. A UE supporting this feature shall also indicate support of <i>dynamicMulticastPCell- r17</i> . A UE supporting this feature in R1 bands shall also indicate support of <i>pdsch-RE-MappingFR1-PerSlot</i> . A UE supporting this feature in FR2 bands shall also indicate support of <i>pdsch-RE-MappingFR2-PerSlot</i> . NOTE: The total number of semi-persistent ZP-CSI-RS-ResourceSet that a UE can be configured with is the same as for unicast in Rel-16.	LIE shall set the canability value consistently for all EDD-ER1 NTN bands				
A UE that indicates the support of this feature shall indicate support of sps- Multicast-r17 and sps-r16.BandNoN/Are-LevelRateMatchingForMulticast-r17 Indicates whether the UE supports group-common PDSCH RE-level rate matching for multicast, comprised of the following functional components: 					
A UE that indicates the support of this feature shall indicate support of sps-       Multicast-r17 and sps-r16. <i>Re-LevelRateMatchingForMulticast-r17</i> Band       No       N/A         Indicates whether the UE supports group-common PDSCH RE-level rate matching for multicast, comprised of the following functional components:       Band       No       N/A         · Supports P ZP-CSI-RS for group-common PDSCH RE-mapping patterns;       · Supports p-ZP-CSI-RS for group-common PDSCH RE-mapping patterns;       Band       No       N/A         · Supports P ZP-CSI-RS for group-common PDSCH RE-mapping patterns;       · Supports p-ZP-CSI-RS for group-common PDSCH RE-mapping patterns;       Band       No       N/A         · Supports P ZP-CSI-RS for group-common PDSCH RE-mapping patterns;       · Supports PZP-CSI-RS for group-common PDSCH RE-mapping patterns;       · Supports PZP-CSI-RS for group-common PDSCH RE-mapping patterns;         · Supports AP ZP-CSI-RS for group-common PDSCH RE-mapping patterns;       · Supports AP ZP-CSI-RS for group-common PDSCH RE-mapping patterns.       · Supports patterns;         · Supports AP ZP-CSI-RS for group-common PDSCH RE-mapping patterns;       · Supports ap ZP-CSI-RS for group-common PDSCH RE-mapping patterns;       · Supports ap ZP-CSI-RS for group-common PDSCH RE-mapping patterns;       · Supports ap ZP-CSI-RS for group-common PDSCH RE-mapping patterns;       · Supports ap ZP-CSI-RS for group-common PDSCH RE-mapping patterns;       · Supports ap ZP-CSI-RS for group-common PDSCH RE-mapping patterns;       · Supporting this feature appainting					
Multicast-r17 and sps-r16.BandNoN/Are-LevelRateMatchingForMulticast-r17BandNoN/AN/AIndicates whether the UE supports group-common PDSCH RE-level rate matching for multicast, comprised of the following functional components: - Supports SP ZP-CSI-RS for group-common PDSCH RE-mapping patterns; - Supports p-ZP-CSI-RS for group-common PDSCH RE-mapping patterns; - Supports p-ZP-CSI-RS. For group-common PDSCH RE-mapping patterns; - Supports p-ZP-CSI-RS. For group-common PDSCH RE-mapping patterns; - Supports p-ZP-CSI-RS. For group-common PDSCH RE-mapping patterns; - Supports PZP-CSI-RS. For group-common PDSCH RE-mapping patterns; - Supports AP ZP-CSI-RS for group-common PDSCH RE-mapping patterns.BandNoN/AFor TN, the UE shall set the capability value consistently for all FDD-FR1 bands, all TDD-FR1 bands and all TDD-FR2 bands, associated with supported shared and non-shared spectrum respectively. For NTN, UE shall set the capability value consistently for all FDD-FR1 NTN bands.HeHeA UE supporting this feature shall also indicate support of dynamicMulticastPCell- r17. A UE supporting this feature in FR1 bands shall also indicate support of pdsch- RE-MappingFR1-PerS/lot. A UE supporting this feature in FR2 bands shall also indicate support of pdsch-RE-MappingFR2- PerSymbol or pdsch-RE-MappingFR2-PerSlot.HeHeNOTE: C The total number of semi-persistent ZP-CSI-RS-ResourceSet that a UE can be configured with is the same as for unicast in Rel-16.HeHe	A UE that indicates the support of this feature shall indicate support of sps-				
re-LevelRateMatchingForMulticast-r17BandNoN/AN/AIndicates whether the UE supports group-common PDSCH RE-level rate matching for multicast, comprised of the following functional components: 	Multicast-r17 and sps-r16.				
<ul> <li>Indicates whether the UE supports group-common PDSCH RE-level rate matching for multicast, comprised of the following functional components: <ul> <li>Supports SP ZP-CSI-RS for group-common PDSCH RE-mapping patterns;</li> <li>Supports P ZP-CSI-RS for group-common PDSCH RE-mapping patterns;</li> <li>Supports <i>p-ZP-CSI-RS</i> for group-common PDSCH RE-mapping patterns;</li> <li>Supports <i>p-ZP-CSI-RS</i> for group-cost onfigured in <i>PDSCH-Config-Multicast</i> same as or different from the <i>p-ZP-CSI-RS-ResourceSet</i> configured in <i>PDSCH-Config</i>;</li> <li>Supports AP ZP-CSI-RS for group-common PDSCH RE-mapping patterns.</li> </ul> </li> <li>For TN, the UE shall set the capability value consistently for all FDD-FR1 bands, all TDD-FR1 bands and all TDD-FR2 bands, associated with supported shared and non-shared spectrum respectively. For NTN, UE shall set the capability value consistently for all FDD-FR1 bands.</li> <li>A UE supporting this feature in FR1 bands shall also indicate support of <i>dynamicMulticastPCell-r17</i>. A UE supporting this feature in FR1 bands shall also indicate support of <i>pdsch-RE-MappingFR1-PerSlot</i>. A UE supporting this feature in FR1 bands shall also indicate support of <i>pdsch-RE-MappingFR2-PerSlot</i>.</li> <li>NOTE: The total number of semi-persistent ZP-CSI-RS-ResourceSet that a UE can be configured with is the same as for unicast in Rel-16.</li> </ul>	re-LevelRateMatchingForMulticast-r17	Band	No	N/A	N/A
<ul> <li>for multicast, comprised of the following functional components:</li> <li>Supports SP ZP-CSI-RS for group-common PDSCH RE-mapping patterns;</li> <li>Supports P-ZP-CSI-RS for group-common PDSCH RE-mapping patterns;</li> <li>Supports p-ZP-CSI-RS-ResourceSet configured in PDSCH-Config-Multicast same as or different from the p-ZP-CSI-RS-ResourceSet configured in PDSCH-Config;</li> <li>Supports AP ZP-CSI-RS for group-common PDSCH RE-mapping patterns.</li> </ul> For TN, the UE shall set the capability value consistently for all FDD-FR1 bands, all TDD-FR1 bands and all TDD-FR2 bands, associated with supported shared and non-shared spectrum respectively. For NTN, UE shall set the capability value consistently for all FDD-FR1 bands. A UE supporting this feature shall also indicate support of dynamicMulticastPCell-r17. A UE supporting this feature in FR1 bands shall also indicate support of pdsch-RE-MappingFR1-PerSlot. A UE supporting this feature in FR1 bands shall also indicate support of pdsch-RE-MappingFR2-PerSlot. NOTE: The total number of semi-persistent ZP-CSI-RS-ResourceSet that a UE can be configured with is the same as for unicast in Rel-16.	Indicates whether the UE supports group-common PDSCH RE-level rate matching				
<ul> <li>Supports SP ZP-CSI-RS for group-common PDSCH RE-mapping patterns;</li> <li>Supports P ZP-CSI-RS for group-common PDSCH RE-mapping patterns;</li> <li>Supports <i>p-ZP-CSI-RS-ResourceSet</i> configured in <i>PDSCH-Config-Multicast</i> same as or different from the <i>p-ZP-CSI-RS-ResourceSet</i> configured in <i>PDSCH-Config</i>;</li> <li>Supports AP ZP-CSI-RS for group-common PDSCH RE-mapping patterns.</li> </ul> For TN, the UE shall set the capability value consistently for all FDD-FR1 bands, all TDD-FR1 bands and all TDD-FR2 bands, associated with supported shared and non-shared spectrum respectively. For NTN, UE shall set the capability value consistently for all FDD-FR1 bands. A UE supporting this feature shall also indicate support of <i>dynamicMulticastPCell-r17</i> . A UE supporting this feature in FR1 bands shall also indicate support of <i>pdsch-RE-MappingFR1-PerSymbol</i> or <i>pdsch-RE-MappingFR1-PerSlot</i> . A UE supporting this feature in FR1 bands shall also indicate support of <i>pdsch-RE-MappingFR2-PerSymbol</i> or <i>pdsch-RE-MappingFR2-PerSlot</i> . NOTE: The total number of semi-persistent ZP-CSI-RS-ResourceSet that a UE can be configured with is the same as for unicast in Rel-16.	for multipact, comprised of the following functional components:				
<ul> <li>Supports SP ZP-CSI-RS for group-common PDSCH RE-mapping patterns;</li> <li>Supports P ZP-CSI-RS for group-common PDSCH RE-mapping patterns;</li> <li>Supports P-ZP-CSI-RS-ResourceSet configured in PDSCH-Config-Multicast same as or different from the <i>p-ZP-CSI-RS-ResourceSet</i> configured in <i>PDSCH-Config</i>;</li> <li>Supports AP ZP-CSI-RS for group-common PDSCH RE-mapping patterns.</li> </ul> For TN, the UE shall set the capability value consistently for all FDD-FR1 bands, all TDD-FR1 bands and all TDD-FR2 bands, associated with supported shared and non-shared spectrum respectively. For NTN, UE shall set the capability value consistently for all FDD-FR1 bands. A UE supporting this feature shall also indicate support of <i>dynamicMulticastPCell-r17</i> . A UE supporting this feature in FR1 bands shall also indicate support of <i>pdsch-RE-MappingFR1-PerSymbol</i> or <i>pdsch-RE-MappingFR1-PerSlot</i> . A UE supporting this feature in FR2 bands shall also indicate support of <i>pdsch-RE-MappingFR2-PerSymbol</i> or <i>pdsch-RE-MappingFR2-PerSlot</i> . NOTE: The total number of semi-persistent ZP-CSI-RS-ResourceSet that a UE can be configured with is the same as for unicast in Rel-16.	for multicast, comprised of the following functional components.				
<ul> <li>Supports P ZP-CSI-RS for group-common PDSCH RE-mapping patterns;</li> <li>Supports <i>p-ZP-CSI-RS-ResourceSet</i> configured in <i>PDSCH-Config-Multicast</i> same as or different from the <i>p-ZP-CSI-RS-ResourceSet</i> configured in <i>PDSCH-Config</i>;</li> <li>Supports AP ZP-CSI-RS for group-common PDSCH RE-mapping patterns.</li> </ul> For TN, the UE shall set the capability value consistently for all FDD-FR1 bands, all TDD-FR1 bands and all TDD-FR2 bands, associated with supported shared and non-shared spectrum respectively. For NTN, UE shall set the capability value consistently for all FDD-FR1 bands and all TDD-FR1 NTN bands. A UE supporting this feature shall also indicate support of <i>dynamicMulticastPCell-r17</i> . A UE supporting this feature in FR1 bands shall also indicate support of <i>pdsch-RE-MappingFR1-PerSymbol</i> or <i>pdsch-RE-MappingFR1-PerSlot</i> . A UE supporting this feature in FR2 bands shall also indicate support of <i>pdsch-RE-MappingFR2-PerSlot</i> . NOTE: The total number of semi-persistent ZP-CSI-RS-ResourceSet that a UE can be configured with is the same as for unicast in Rel-16.	- Supports SP ZP-CSI-RS for group-common PDSCH RE-mapping patterns;				
<ul> <li>Supports <i>p-ZP-CSI-RS-ResourceSet</i> configured in <i>PDSCH-Config-Multicast</i> same as or different from the <i>p-ZP-CSI-RS-ResourceSet</i> configured in <i>PDSCH-Config</i>;</li> <li>Supports AP ZP-CSI-RS for group-common PDSCH RE-mapping patterns.</li> <li>For TN, the UE shall set the capability value consistently for all FDD-FR1 bands, all TDD-FR1 bands and all TDD-FR2 bands, associated with supported shared and non-shared spectrum respectively. For NTN, UE shall set the capability value consistently for all FDD-FR1 NTN bands.</li> <li>A UE supporting this feature shall also indicate support of <i>dynamicMulticastPCell-r17</i>. A UE supporting this feature in FR1 bands shall also indicate support of <i>pdsch-RE-MappingFR1-PerSymbol</i> or <i>pdsch-RE-MappingFR1-PerSlot</i>. A UE supporting this feature in FR2 bands shall also indicate support of <i>pdsch-RE-MappingFR2-PerSlot</i>.</li> <li>NOTE: The total number of semi-persistent ZP-CSI-RS-ResourceSet that a UE can be configured with is the same as for unicast in Rel-16.</li> </ul>	<ul> <li>Supports P ZP-CSI-RS for group-common PDSCH RE-mapping patterns;</li> </ul>				
<ul> <li>same as or different from the <i>p-ZP-CSI-RS-ResourceSet</i> configured in <i>PDSCH-Config</i>;</li> <li>Supports AP ZP-CSI-RS for group-common PDSCH RE-mapping patterns.</li> <li>For TN, the UE shall set the capability value consistently for all FDD-FR1 bands, all TDD-FR1 bands and all TDD-FR2 bands, associated with supported shared and non-shared spectrum respectively. For NTN, UE shall set the capability value consistently for all FDD-FR1 bands and IFDD-FR1 NTN bands.</li> <li>A UE supporting this feature shall also indicate support of <i>dynamicMulticastPCell-r17</i>. A UE supporting this feature in FR1 bands shall also indicate support of <i>pdsch-RE-MappingFR1-PerSymbol</i> or <i>pdsch-RE-MappingFR1-PerSlot</i>. A UE supporting this feature in FR2 bands shall also indicate support of <i>pdsch-RE-MappingFR2-PerSymbol</i> or <i>pdsch-RE-MappingFR2-PerSlot</i>.</li> <li>NOTE: The total number of semi-persistent ZP-CSI-RS-ResourceSet that a UE can be configured with is the same as for unicast in Rel-16.</li> </ul>	- Supports <i>p-ZP-CSI-RS-ResourceSet</i> configured in <i>PDSCH-Config-Multicast</i>				
<ul> <li>Supports AP ZP-CSI-RS for group-common PDSCH RE-mapping patterns.</li> <li>For TN, the UE shall set the capability value consistently for all FDD-FR1 bands, all TDD-FR1 bands and all TDD-FR2 bands, associated with supported shared and non-shared spectrum respectively. For NTN, UE shall set the capability value consistently for all FDD-FR1 NTN bands.</li> <li>A UE supporting this feature shall also indicate support of <i>dynamicMulticastPCell-r17</i>. A UE supporting this feature in FR1 bands shall also indicate support of <i>pdsch-RE-MappingFR1-PerSymbol</i> or <i>pdsch-RE-MappingFR1-PerSlot</i>. A UE supporting this feature in FR1 bands shall also indicate support of <i>pdsch-RE-MappingFR2-PerSlot</i>.</li> <li>NOTE: The total number of semi-persistent ZP-CSI-RS-ResourceSet that a UE can be configured with is the same as for unicast in Rel-16.</li> </ul>	same as or different from the p-ZP-CSI-RS-ResourceSet configured in				
<ul> <li>Supports AP ZP-CSI-RS for group-common PDSCH RE-mapping patterns.</li> <li>For TN, the UE shall set the capability value consistently for all FDD-FR1 bands, all TDD-FR1 bands and all TDD-FR2 bands, associated with supported shared and non-shared spectrum respectively. For NTN, UE shall set the capability value consistently for all FDD-FR1 NTN bands.</li> <li>A UE supporting this feature shall also indicate support of <i>dynamicMulticastPCell-r17</i>. A UE supporting this feature in FR1 bands shall also indicate support of <i>pdsch-RE-MappingFR1-PerSymbol</i> or <i>pdsch-RE-MappingFR1-PerSlot</i>. A UE supporting this feature in FR2 bands shall also indicate support of <i>pdsch-RE-MappingFR2-PerSlot</i>.</li> <li>NOTE: The total number of semi-persistent ZP-CSI-RS-ResourceSet that a UE can be configured with is the same as for unicast in Rel-16.</li> </ul>					
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<ul> <li>TDD-FR1 bands and all TDD-FR2 bands, associated with supported shared and non-shared spectrum respectively. For NTN, UE shall set the capability value consistently for all FDD-FR1 NTN bands.</li> <li>A UE supporting this feature shall also indicate support of <i>dynamicMulticastPCell-r17</i>. A UE supporting this feature in FR1 bands shall also indicate support of <i>pdsch-RE-MappingFR1-PerSymbol</i> or <i>pdsch-RE-MappingFR1-PerSlot</i>. A UE supporting this feature in FR2 bands shall also indicate support of <i>pdsch-RE-MappingFR2-PerSlot</i>.</li> <li>NOTE: The total number of semi-persistent ZP-CSI-RS-ResourceSet that a UE can be configured with is the same as for unicast in Rel-16.</li> </ul>	For TN, the UE shall set the capability value consistently for all FDD-FR1 bands, all				
non-shared spectrum respectively. For NTN, UE shall set the capability value consistently for all FDD-FR1 NTN bands. A UE supporting this feature shall also indicate support of <i>dynamicMulticastPCell-</i> <i>r17.</i> A UE supporting this feature in FR1 bands shall also indicate support of <i>pdsch-</i> <i>RE-MappingFR1-PerSymbol</i> or <i>pdsch-RE-MappingFR1-PerSlot.</i> A UE supporting this feature in FR2 bands shall also indicate support of <i>pdsch-RE-MappingFR2-</i> <i>PerSymbol</i> or <i>pdsch-RE-MappingFR2-PerSlot.</i> NOTE: The total number of semi-persistent ZP-CSI-RS-ResourceSet that a UE can be configured with is the same as for unicast in Rel-16.	TDD-FR1 bands and all TDD-FR2 bands, associated with supported shared and				
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A UE supporting this feature shall also indicate support of <i>dynamicMulticastPCell-</i> <i>r17.</i> A UE supporting this feature in FR1 bands shall also indicate support of <i>pdsch-</i> <i>RE-MappingFR1-PerSymbol</i> or <i>pdsch-RE-MappingFR1-PerSlot.</i> A UE supporting this feature in FR2 bands shall also indicate support of <i>pdsch-RE-MappingFR2-</i> <i>PerSymbol</i> or <i>pdsch-RE-MappingFR2-PerSlot.</i> NOTE: The total number of semi-persistent ZP-CSI-RS-ResourceSet that a UE can be configured with is the same as for unicast in Rel-16.	interstated spectrum respectively. For NTN, OE shall set the capability value				
A UE supporting this feature shall also indicate support of <i>dynamicMulticastPCell-</i> <i>r17.</i> A UE supporting this feature in FR1 bands shall also indicate support of <i>pdsch-</i> <i>RE-MappingFR1-PerSymbol</i> or <i>pdsch-RE-MappingFR1-PerSlot.</i> A UE supporting this feature in FR2 bands shall also indicate support of <i>pdsch-RE-MappingFR2-</i> <i>PerSymbol</i> or <i>pdsch-RE-MappingFR2-PerSlot.</i> NOTE: The total number of semi-persistent ZP-CSI-RS-ResourceSet that a UE can be configured with is the same as for unicast in Rel-16.	consistently for all FDD-FRT NTN bands.				
A UE supporting this feature shall also indicate support of <i>dynamicMulticastPCell-</i> <i>r17.</i> A UE supporting this feature in FR1 bands shall also indicate support of <i>pdsch-</i> <i>RE-MappingFR1-PerSymbol</i> or <i>pdsch-RE-MappingFR1-PerSlot.</i> A UE supporting this feature in FR2 bands shall also indicate support of <i>pdsch-RE-MappingFR2-</i> <i>PerSymbol</i> or <i>pdsch-RE-MappingFR2-PerSlot.</i> NOTE: The total number of semi-persistent ZP-CSI-RS-ResourceSet that a UE can be configured with is the same as for unicast in Rel-16.					
<ul> <li>r17. A UE supporting this feature in FR1 bands shall also indicate support of <i>pdsch</i>- <i>RE-MappingFR1-PerSymbol</i> or <i>pdsch-RE-MappingFR1-PerSlot</i>. A UE supporting this feature in FR2 bands shall also indicate support of <i>pdsch-RE-MappingFR2-</i> <i>PerSymbol</i> or <i>pdsch-RE-MappingFR2-PerSlot</i>.</li> <li>NOTE: The total number of semi-persistent ZP-CSI-RS-ResourceSet that a UE can be configured with is the same as for unicast in Rel-16.</li> </ul>	A UE supporting this feature shall also indicate support of <i>dynamicMulticastPCell</i> -				
RE-MappingFR1-PerSymbol or pdsch-RE-MappingFR1-PerSlot. A UE supporting this feature in FR2 bands shall also indicate support of pdsch-RE-MappingFR2-PerSymbol or pdsch-RE-MappingFR2-PerSlot.         NOTE:       The total number of semi-persistent ZP-CSI-RS-ResourceSet that a UE can be configured with is the same as for unicast in Rel-16.	r17. A UE supporting this feature in FR1 bands shall also indicate support of pdsch-				
this feature in FR2 bands shall also indicate support of <i>pdsch-RE-MappingFR2-</i> <i>PerSymbol</i> or <i>pdsch-RE-MappingFR2-PerSlot</i> . NOTE: The total number of semi-persistent ZP-CSI-RS-ResourceSet that a UE can be configured with is the same as for unicast in Rel-16.	RE-ManningER1-PerSymbol or pdsch-RE-ManningER1-PerSlot A LIE supporting				
PerSymbol or pdsch-RE-MappingFR2-PerSlot.         NOTE:       The total number of semi-persistent ZP-CSI-RS-ResourceSet that a UE can be configured with is the same as for unicast in Rel-16.	this facture in ED2 hands shall also indicate support of indeeh DE ManningED2				
PerSymbol or pasch-RE-Mapping-R2-PerSlot.         NOTE:       The total number of semi-persistent ZP-CSI-RS-ResourceSet that a UE can be configured with is the same as for unicast in Rel-16.	This realister in FRZ parties shall also indicate support of puscif-RE-MappingFRZ-				
NOTE: The total number of semi-persistent ZP-CSI-RS-ResourceSet that a UE can be configured with is the same as for unicast in Rel-16.	Persymbol or pascn-RE-MappingFR2-PerSlot.				
NOTE: The total number of semi-persistent ZP-CSI-RS-ResourceSet that a UE can be configured with is the same as for unicast in Rel-16.					
can be configured with is the same as for unicast in Rel-16.	NOTE: The total number of semi-persistent ZP-CSI-RS-ResourceSet that a UE				
	can be configured with is the same as for unicast in Rel-16.				

rlm-Relaxation-r17	Band	No	N/A	N/A
Indicates whether the LIE supports RI M relaxation criteria and requirement as	Danu	NO		
anagified in TS 22 122 [5] LIE shall get the consplictly value consistently for all EDD				
Specified in 15 56, 155 [5]. UE shall set the capability value consistently for all FDD-				
FRT bands, all TDD-FRT bands, all TDD-FR2-T bands and all TDD-FR2-2 bands				
respectively.				
UE indicating support of this feature shall also indicate support of <i>ssb-RLM</i> and/or				
csi-RS-RLM.				
searchSpaceSetGrp-switchCap2-r17	Band	No	N/A	FR1
Indicates whether UE supports search space set group switching capability 2 for				only
FR1 according to Table 10.4-1 of TS 38.213 [11] for SSSG switching.				
UE indicating support of this feature shall also indicate support of sssg-Switching-				
billad-r17				
NOTE: For UE supporting this facture and also approx Switching (Bidled r17)				
NOTE. For DE supporting this feature and also sssg-Switching- Diumo-17,				
sssg-Switching-2BitInd-r17, and/or pdcch-SkippingWithSSSG-r17,				
search space set group switching Capability-2 is applied to sssg-				
Switching-1BitInd-r17, sssg-Switching-2BitInd-r17, and/or pdcch-				
SkippingWithSSSG-r17.				
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				
LIE indicating support of this feature shall include at least one of the following				
canadity support of this realistic shall model at reast one of the following				
cupacification automation and a second state and a second state automatication automatic				
- support eport - ornar - 2 OFDW-syms- to indicates support of report on				
POCCH formats over 1 – 2 OFDM symbols once per slot (or plggybacked on				
a POSCH)				
<ul> <li>supportReportFormat4-14OFDM-syms-r16 indicates support of report on</li> </ul>				
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 ssb-csirs-				
SINR-measurement-r16.				
semi-Persistenti 1-SINR-Report-PUSCH-r16	Band	No	N/A	N/A
Indicates whether the LIE supports semi-persistent L1-SINR report on PLISCH. The	Dunu	110	1.1/7	1.1/7.1
LIE indicating support of this feature shall also indicate support of schoosing SINP-				
manufacture support of this reactive shall also indicate support of ssp-cs//s-cs//s-				
neasurement-110.	Dond	No	ΝΙ/Δ	
separate whether the UE supports rate metals around configured CBC netterns	Danu	INO	IN/A	
Indicates whether the UE supports rate match around configured CRS patterns				oniy
which is associated with CORESE Poolindex (if configured) and are applied to the				
PDSCH scheduled with a DCI detected on a CORESET with the same value of				
CORESETPoolIndex. The UE that indicates support of this feature shall support				
multiDCI-MultiTRP-r16 and overlapRateMatchingEUTRA-CRS-r16. This is only				
applicable for 15kHz SCS.				
sfn-DefaultDL-BeamSetup-r17	Band	No	N/A	N/A
Indicates whether the UE supports the following features:				
- For FR2 only, PDSCH reception using default beam for enhanced SFN				
scheme when PDSCH is scheduled with offset less than threshold				
- For FR1 and FR2_PDSCH recention using default beam for enhanced SEN				
scheme when TCI field is not present in DCI format 1 0/1 1/1 2 when				
DDSCH is schoduled with offset equal or larger than the threshold if				
r DSCITIS Scieduled with onset equal of larger than the threshold, if				
applicable.				
- For FR2 only, apenodic CSI-RS reception using default beam for enhanced				
SFN scheme when scheduling offset is less than threshold.				
The UE indicating support of this feature shall also indicate stn-schemeA-r17 or stn-				
schemeB-r17.				
sfn-DefaultUL-BeamSetup-r17	Band	No	N/A	FR2
Indicates whether the UE supports the following features:				only
- Support of single-TRP PUCCH transmission using default beam when				
enhanced SFN PDCCH transmission scheme is configured.				
- Support of single-TRP PUSCH transmission using default beam when				
enhanced SFN PDCCH transmission scheme is configured.				
- Support of single-TRP SRS resource transmission using default beam when				
enhanced SEN PDCCH transmission scheme is configured				
The LIE indicating support of this feature shall also indicate of a scheme 4 r17 or of the				
schome R r17 or sfn Schome A PDCCH only r17				
	Devid	NI -	N1/A	N1/A
	Band	INO	IN/A	IN/A
Indicates whether the UE supports KS(s) with two TCI states configured implicitly				
I IOI DEALITING DETECTION ENHANCEMENT FOR HS I.				

sfn-QCL-TypeD-Collision-twoTCI-r17	Band	No	N/A	N/A
Indicates whether the UE supports identification of two QCL-TypeD properties for				
multiple overlapping CORESETs when a CORESET is activated with two TCI states				
which overlaps with another CORESET.				
sfn-SimulTwoTCI-AcrossMultiCC-r17	Band	No	N/A	N/A
Indicates whether the UE supports simultaneous activation of two TCI states for				
CORESETs with the same CORESET ID in all BWPs across a set of configured				
component carriers by single MAC-CE. The UE indicating support of this feature				
shall also indicate sfn-schemeA-r17 or sfn-schemeB-r17 or sfn-SchemeA-PDCCH-				
only-r17.				
The UE shall set the capability value consistently for all FDD-FR1 bands, all TDD-				
FR1 bands, all IDD-FR2-1 bands and all IDD-FR2-2 bands respectively.	<u> </u>			
simul-SpatialRelationUpdatePUCCHResGroup-r16	Band	No	N/A	N/A
Indicates whether the UE support PUCCH resource groups per BWP for				
simultaneous spatial relation update. The UE indicating support of this also				
indicates the capabilities of supported SRS resources and maximum supported				
spallal relations for the supported barries and puech Spatial Polleformaces,				
simulSPS_MIMO_TransWithinBand_r16	Pond	No	ΝΙ/Δ	NI/A
Simulara-inimo-manavianimbano-mo	Бапо	INO	IN/A	IN/A
an a symbol within a hand across multiple CCs. The LE can include this field only if				
the LIE supports srs. Pos Resources, r16 Otherwise, the LIE 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 hand	Dana	110	11/7	1 1/7 1
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	20110			only
D reference signal as specified in TS38.213 [11].				,
simulTX-SRS-AntSwitchingIntraBandUL-CA-r16	Band	No	N/A	N/A
Indicates 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				
least one of the following capabilities:				
<ul> <li>supportSRS-xTyR-xLessThanY-r16 indicates support transmission of SRS</li> </ul>				
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.				
<ul> <li>supportSRS-xTyR-xEqualToY-r16 indicates support transmission of SRS for</li> </ul>				
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				
ovenapped symbol(s) for intra-band UL CA.				
NOTE: Ear simultaneously optages switching and optages switching SPS in				
intra band CAs with bands whose LIL are switched together according to				
the reported supportSRS-AntennaSwitching-r16 the UE expects the				
same configuration of xTvR across the different CCs and the SRS				
resources overlapped in time domain from LIE perspective are from the				
same UE antenna ports.				
sn-InitiatedCondPSCellChangeNRDC-r17	Band	No	N/A	N/A
Indicates whether the UE supports SN initiated inter-SN conditional PSCell change			, , ,	
in NR-DC, which is configured by NR conditionalReconfiguration using SN				
configured measurement as triggering condition. The UE supporting this feature				
shall also support 2 trigger events for same execution condition in SN initiated inter-				
SN conditional PSCell change in NR-DC. UE shall set the capability value				
consistently for all FDD-FR1 bands, all TDD-FR1 bands and all TDD-FR2 bands				
respectively.				

<ul> <li>spatialRelations, spatialRelations-v1640</li> <li>Indicates whether the UE supports spatial relations. The capability signalling comprises the following parameters.</li> <li>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 per CC for PUCCH and SRS with UE supporting the configured spatial relations per CC for PUCCH and SRS with UE supporting the configuration of maximum 64 PUCCH spatial relations per BWP per CC;</li> <li>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;</li> </ul>	Band	FD	N/A	FD
<ul> <li>additionalActiveSpatialRelationPUCCH indicates support of one additional active spatial relation for PUCCH. It is mandatory with capability signalling if maxNumberActiveSpatialRelations is set to n1;</li> <li>maxNumberDL-RS-QCL-TypeD indicates the maximum number of downlink</li> </ul>				
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				
maxNumberConfiguredSpatialRelations-v1640 is reported, UE shall report value n96 in maxNumberConfiguredSpatialRelations.				
<ul> <li>spatialRelationsSRS-Pos-r16</li> <li>Indicates whether the UE supports spatial relations for SRS for positioning. The capability signalling comprises the following parameters.</li> <li>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;</li> <li>spatialRelation-SRS-PosBasedOnCSI-RS-Serving-r16 indicates whether the 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 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 spatialRelation-SRS-PosBasedOnPRS-Serving-r16 indicates whether the UE does not include this field;</li> <li>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;</li> <li>spatialRelation-SRS-PosBasedOnSSB-Neigh-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;</li> <li>spatialRelation-SRS-PosBasedOnSSB-Neigh-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;</li> <li>spatialRelation-SRS-PosBasedOnSSB-Neigh-r16 indicates whether the UE supports spatial relation for SRS for positioning based on SRS from the neighbouring cell in the same band. The UE can include this field only if the UE supports spatial</li></ul>	Band	No	N/A	FR2 only
NOTE: A PRS from a PRS-only TP is treated as PRS from a non-serving cell.				

spatialRelationsSRS-PosRRC-Inactive-r17	Band	No	N/A	FR2
Indicates whether the UE supports spatial relations for SRS for positioning in				only
RRC_INACTIVE. 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 indicating support of this feature shall also indicate support of srs-PosResourcesRPC-Inactive-r17				
also indicate support of sis-roshesourceshho-inactive-in,				
- spatialRelation-SRS-PosBasedOnCSI-RS-Serving-r16 indicates whether the				
UE supports spatial relation for SRS for positioning based on CSI-RS from				
the serving cell in the same band. The UE indicating support of this feature				
shall also indicate support of spatialRelation-SRS-PosBasedOnSSB-				
Serving-r16;				
- 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 indicating support of this feature shall				
also indicate support 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-PosResourcesRRC-Inactive-r17;				
- spatialRelation-SRS-PosBasedOnSRS-r16 indicates whether the UE				
supports spatial relation for SRS for positioning based on SRS in the same				
band. The UE indicating support of this feature shall also indicate support of				
srs-PosResourcesRRC-Inactive-r17;				
spatial Polation SPS Des Pasad On SSP Noigh r16 indicates whether the LIE				
supports spatial relation for SRS for positioning based on SSB from the				
neighbouring cell in the same band. The UE indicating support of this feature				
shall also indicate support of spatialRelation-SRS-PosBasedOnSSB-				
Serving-r16;				
- spatialRelation-SRS-PosBasedUnPRS-Neigh-r16 indicates whether the UE				
supports spatial relation for SRS for positioning based on PRS from the				
shall also indicate support of spatialRelation-SRS-PosBasedOnPRS-				
Serving-r16.				
NOTE: A PRS from a PRS-only TP is treated as PRS from a non-serving cell.	Band	No	Ν/Λ	Ν/Λ
Indicates support of semi-persistent 'CRI/RSRP' or 'SSBRI/RSRP' reporting using	Danu	NU		
PUCCH formats 2, 3 and 4 in one slot.				
sp-BeamReportPUSCH	Band	No	N/A	N/A
Indicates support of semi-persistent 'CRI/RSRP' or 'SSBRI/RSRP' reporting on				
sps-MulticastDCI-Format4-2-r17	Band	No	Ν/Δ	Ν/Δ
Indicates whether the UE supports transmission and retransmission scheduled by	Dana	140	1 1/7 1	1 1/7 1
DCI format 4_2 with CRC scrambled with G-CS-RNTI for multicast SPS scheduling.				
A UE that indicates support of this feature shall indicate support of sps-Multicast-				
sps-MulticastMultiConfig-r17	Band	No	N/A	N/A
Indicates whether the UE supports up to 8 SPS group-common PDSCH				,
configurations per CFR for multicast on PCell. The value indicates the maximum				
number of activated SPS group-common PDSCH configurations per CFR for				
multicast.				
The total number of SPS configurations for both multicast and unicast is no larger				
than o in a BWP of a serving cell. The total number of SPS configurations for both multicast and unicast in a cell group is no larger than 22.				
municasi and unicasi in a cen group is no larger than 32.				
For TN, the UE shall set the capability value consistently for all FDD-FR1 bands, all				
TDD-FR1 bands and all TDD-FR2 bands, associated with supported shared and				
non-shared spectrum respectively. For NTN, UE shall set the capability value				
consistently for all FDD-FR1 NTN bands.				
A LIE that indicates support of this feature shall indicate support of sps-Multicost				
r17.				

sns-r16	Band	No	Ν/Δ	Ν/Δ
Indicates whether the LIE support of up to 8 configured SPS configurations in a	Danu	NO		
This cases whether the DE support of up to a configured SFS 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:				
<ul> <li>maxNumberConfigsPerBWP-r16 indicates the maximum number of active</li> </ul>				
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 NB-DC				
The LIE can include this feature only if the LIE indicates support of downlinkSPS				
NOTE				
NOTE.				
- For all the reported ballos in FRT, a same XT value is reported for				
maxNumberConfigsAllCC-r16. For all the reported bands in FR2, a same X2				
value is reported for <i>maxNumberConfigsAllCC-r16</i> .				
- 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 ER1 and some serving cell(s) in ER2				
the total number of active SPS configurations across all conving colls in po				
the total humber of active SFS configurations across an serving cells is no				
greater than max(X1, X2).	<u> </u>			<b>N</b> 1/A
srs-AssocuSI-RS	Band	NO	N/A	N/A
Parameters for the calculation of the precoder for SRS transmission based on				
channel measurements using associated NZP CSI-RS resource (srs-AssocCSI-RS)				
as described in clause 6.1.1.2 of TS 38.214 [12]. UE supporting this feature shall				
also indicate support of non-codebook based PUSCH transmission				
This canability signalling includes list of the following parameters:				
movel when the development of the normal parameters.				
in a resource;				
maxNumberPassuresePerPandindiastes the maximum number of resources				
- maximum number of resources repaired indicates the maximum number of resources				
across all CCs within a band simultaneously;				
- totalNumber1xPortsPerBand indicates the total number of 1x ports across all				
CCs within a band simultaneously.				
srs-combEight-r17	Band	No	N/A	N/A
Indicates whether the UE supports comb-8 for SRS other than for positioning.				
srs-increasedRepetition-r17	Band	No	N/A	N/A
Indicates whether the UE supports increased repetition patterns (8, 10, 12, 14				
symbols) for SRS resource				
The LIE supporting this feature shall also indicate the support of are Start AnyOEDM				
The DE support of sis-stantary OPDivi-				
Symbol-116.	<u> </u>			
srs-partialFreqSounding-r17	Band	No	N/A	N/A
Indicates the support of partial frequency sounding for SRS for non-frequency				
hopping case.				
in oppining eacer				
The UE indicating support of this feature shall also indicate the support of srs-				
The UE indicating support of this feature shall also indicate the support of srs- partialFrequencySounding-r17.				
The UE indicating support of this feature shall also indicate the support of srs- partialFrequencySounding-r17.	Band	No	N/A	N/A
The UE indicating support of this feature shall also indicate the support of srs- partialFrequencySounding-r17. srs-partialFrequencySounding-r17 Indicates whether the UE supports partial frequency sounding for SRS with	Band	No	N/A	N/A
The UE indicating support of this feature shall also indicate the support of srs- partialFrequencySounding-r17. srs-partialFrequencySounding-r17 Indicates whether the UE supports partial frequency sounding for SRS with frequency bonning	Band	No	N/A	N/A
The UE indicating support of this feature shall also indicate the support of <i>srs-partialFrequencySounding-r17</i> . <i>srs-partialFrequencySounding-r17</i> Indicates whether the UE supports partial frequency sounding for SRS with frequency hopping.	Band	No	N/A	N/A
The UE indicating support of this feature shall also indicate the support of srs- partialFrequencySounding-r17. srs-partialFrequencySounding-r17 Indicates whether the UE supports partial frequency sounding for SRS with frequency hopping. srs-PortReport-r17	Band Band	No	N/A N/A	N/A N/A
The UE indicating support of this feature shall also indicate the support of <i>srs-partialFrequencySounding-r17</i> . <i>srs-partialFrequencySounding-r17</i> Indicates whether the UE supports partial frequency sounding for SRS with frequency hopping. <i>srs-PortReport-r17</i> Indicates the maximum number of SRS ports for each UE reported quantity in	Band Band	No	N/A N/A	N/A N/A
The UE indicating support of this feature shall also indicate the support of <i>srs-partialFrequencySounding-r17</i> . <i>srs-partialFrequencySounding-r17</i> Indicates whether the UE supports partial frequency sounding for SRS with frequency hopping. <i>srs-PortReport-r17</i> Indicates the maximum number of SRS ports for each UE reported quantity in <i>reportQuantity-r17</i> .	Band Band	No	N/A N/A	N/A N/A
The UE indicating support of this feature shall also indicate the support of <i>srs-partialFrequencySounding-r17</i> . <i>srs-partialFrequencySounding-r17</i> Indicates whether the UE supports partial frequency sounding for SRS with frequency hopping. <i>srs-PortReport-r17</i> Indicates the maximum number of SRS ports for each UE reported quantity in <i>reportQuantity-r17</i> . <i>srs-PortReportSP-AP-r17</i>	Band Band Band	No	N/A N/A N/A	N/A N/A N/A
The UE indicating support of this feature shall also indicate the support of <i>srs-partialFrequencySounding-r17</i> . <i>srs-partialFrequencySounding-r17</i> Indicates whether the UE supports partial frequency sounding for SRS with frequency hopping. <i>srs-PortReport-r17</i> Indicates the maximum number of SRS ports for each UE reported quantity in <i>reportQuantity-r17</i> . <i>srs-PortReportSP-AP-r17</i> Indicates that the UE supports the maximum number of SRS ports with semi-	Band Band Band	No No	N/A N/A N/A	N/A N/A N/A
The UE indicating support of this feature shall also indicate the support of <i>srs-partialFrequencySounding-r17</i> . <i>srs-partialFrequencySounding-r17</i> Indicates whether the UE supports partial frequency sounding for SRS with frequency hopping. <i>srs-PortReport-r17</i> Indicates the maximum number of SRS ports for each UE reported quantity in <i>reportQuantity-r17</i> . <i>srs-PortReportSP-AP-r17</i> Indicates that the UE supports the maximum number of SRS ports with semi- persistent/aperiodic capability value reporting.	Band Band Band	No No	N/A N/A N/A	N/A N/A N/A
The UE indicating support of this feature shall also indicate the support of <i>srs-partialFrequencySounding-r17</i> . <i>srs-partialFrequencySounding-r17</i> Indicates whether the UE supports partial frequency sounding for SRS with frequency hopping. <i>srs-PortReport-r17</i> Indicates the maximum number of SRS ports for each UE reported quantity in <i>reportQuantity-r17</i> . <i>srs-PortReportSP-AP-r17</i> Indicates that the UE supports the maximum number of SRS ports with semi- persistent/aperiodic capability value reporting. The UE supporting this feature shall also indicate support of <i>srs-PortReport-r17</i> and	Band Band Band	No No	N/A N/A N/A	N/A N/A N/A
The UE indicating support of this feature shall also indicate the support of <i>srs-partialFrequencySounding-r17</i> . <i>srs-partialFrequencySounding-r17</i> Indicates whether the UE supports partial frequency sounding for SRS with frequency hopping. <i>srs-PortReport-r17</i> Indicates the maximum number of SRS ports for each UE reported quantity in <i>reportQuantity-r17</i> . <i>srs-PortReportSP-AP-r17</i> Indicates that the UE supports the maximum number of SRS ports with semi- persistent/aperiodic capability value reporting. The UE supporting this feature shall also indicate support of <i>srs-PortReport-r17</i> and one of <i>aperiodicBeamReport</i> , <i>sp-BeamReportPUCCH</i> , <i>sp-BeamReportPUSCH</i>	Band Band Band	No No	N/A N/A N/A	N/A N/A N/A
The UE indicating support of this feature shall also indicate the support of <i>srs-partialFrequencySounding-r17</i> . <i>srs-partialFrequencySounding-r17</i> Indicates whether the UE supports partial frequency sounding for SRS with frequency hopping. <i>srs-PortReport-r17</i> Indicates the maximum number of SRS ports for each UE reported quantity in <i>reportQuantity-r17</i> . <i>srs-PortReportSP-AP-r17</i> Indicates that the UE supports the maximum number of SRS ports with semi- persistent/aperiodic capability value reporting. The UE supporting this feature shall also indicate support of <i>srs-PortReport-r17</i> and one of <i>aperiodicBeamReport</i> , <i>sp-BeamReportPUCCH</i> , <i>sp-BeamReportPUSCH</i> , <i>ssb-csirs-SINR-measurement-r16</i> , <i>semi-Persistent</i> , <i>1-SINR-Report-PUCCH</i> , <i>ff</i> , or	Band Band Band	No No	N/A N/A N/A	N/A N/A N/A

srs-PosResourcesRRC-Inactive-r17         Indicates support of positioning SRS transmission in RRC_INACTIVE for initial UL         BWP. The capability signalling comprises the following parameters:         - maxNumberSRS-PosResourceSetPerBWP-r17 Indicates the max number of SRS Resource Sets for positioning supported by UE;         - maxNumberSRS-PosResourceSPerBWP-r17 indicates the max number of P/SP SRS Resources for positioning;         - maxNumberSRS-ResourcesPerBWP-r17 indicates the max number of P/SP SRS Resources for positioning;	Band	No	N/A	N/A
<ul> <li>of P/SP SRS Resources for positioning per slot;</li> <li>maxNumberPeriodicSRS-PosResourcesPerBWP-r17 indicates the max number of periodic SRS Resources for positioning;</li> <li>maxNumberPeriodicSRS-PosResourcesPerBWP-PerSlot-r17 indicates the max number of periodic SRS Resources for positioning per slot.</li> </ul>				
NOTE: OLPC for SRS for positioning based on SSB from the last serving cell (the cell that releases UE from connection) is part of this feature. No dedicated capability signalling is intended for this component				
srs-SemiPersistent-PosResourcesRRC-Inactive-r17         Indicates support of positioning SRS transmission in RRC_INACTIVE for initial UL         BWP with semi-persistent SRS. UE indicating support of this feature shall indicate         support of srs-PosResourcesRRC-Inactive-r17.         The capability signalling comprises the following parameters:         - maxNumOfSemiPersistentSRSposResources-r17 indicates the max number of semi-persistent SRS Resources for positioning;         - maxNumOfSemiPersistentSRSposResourcesPerSlot-r17 indicates the max number of semi-persistent SRS Resources for positioning;	Band	No	N/A	N/A
<ul> <li>srs-startRB-locationHoppingPartial-r17</li> <li>Indicates whether the UE supports start RB location hopping in partial frequency SRS transmission across different SRS frequency hopping periods for periodic/semi-persistent/aperiodic SRS.</li> <li>The UE supporting this feature shall also indicate the support of srs-</li> </ul>	Band	No	N/A	N/A
<i>partial-requencySounding-r17.</i> <i>srs-TriggeringDCI-r17</i> Indicates whether the UE supports triggering SRS in DCI 0_1/0_2 without data and without CSI	Band	No	N/A	N/A
srs-TriggeringOffset-r17 Indicates the maximum number of configured available slots offsets for determining aperiodic SRS location based on available slot.	Band	No	N/A	N/A

ssb-csirs-SINR-measurement-r16 Indicates the limitations of the UE support of SSB/CSI-RS for L1-SINR	Band	No	N/A	N/A
measurement. This capability signalling includes list of the following parameters:				
<ul> <li>maxNumberSSB-CSIRS-OneTx-CMR-r16 indicates the maximum number of SSB/CSI-RS (1TX) across all CCs within a band for Channel Measurement</li> </ul>	:			
<ul> <li>Report</li> <li>maxNumberCSI-IM-NZP-IMR-res-r16 indicates the maximum number of CSI-IM/NZP-IMR resources across all CCs within a band</li> <li>maxNumberCSIRS-2Tx-res-r16 indicates the maximum number of CSI-RS (2TX) resources across all CCs within a band for Channel Measurement</li> </ul>				
Report Memory limitations:				
<ul> <li>maxNumberSSB-CSIRS-res-r16 indicates the max number of SSB/CSI-RS resources across all CCs within a band as Channel Measurement Report</li> <li>maxNumberCSI-IM-NZP-IMR-res-mem-r16 indicates the maximum number of CSI-IM/NZP-IMR resources across all CCs within a band</li> </ul>				
Other limitations:				
<ul> <li>supportedCSI-RS-Density-CMR-r16 indicates supported density of CSI-RS for Channel Measurement Report</li> </ul>				
<ul> <li>maxNumberAperiodicCSI-RS-Res-r16 indicates the maximum number of aperiodic CSI-RS resources across all CCs within a band configured to measure L1-SINR (including CMR and IMR)</li> </ul>				
- supportedSINR-meas indicates the supported SINR measurements.				
<ul> <li>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</li> </ul>				
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 supporting this feature shall also indicate support of CSI-RS as CMR with				
dedicated CSI-IM. UE indicating support of this feature shall also indicate support of				
BeamReportPUSCH. UE indicating support of ssb-csirs-SINR-measurement-r16				
shall support periodic and aperiodic L1-SINR report.				
NOTE 1: The reference slot duration is the shortest slot duration defined for the				
NOTE 2: For <i>maxNumberSSB-CSIRS-res-r16</i> and <i>maxNumberCSI-IM-NZP-IMR-</i> res-mem-r16 the configured CSI-RS resources for both active and				
inactive BWPs are counted.				
<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-				
IMR-res-r16, maxNumberCSIRS-2Tx-res-r16, maxNumberAperiodicCSI- RS-Res-r16, 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-				
KS-Kes-r16, If one resource used for L1-SINK measurement is referred N times by one or more CSI reporting settings with reportOuentity r16 -				
ssb-Index-SINR-r16 or cri-SINR-r16, it is counted N times.				
NOTE 6: If more than one type of SINR measurement is indicated in				
supported SINR-meas-v1670, it is left to UE implementation which SINR measurement to indicate in supported SINR-meas-r16.				

sssg-Switching-1BitInd-r17 Indicates whether the UE supports 1-bit indication of SSSG switching between 2 SSSGs by scheduling DCI, and timer based SSSG switching, if <i>pdcch-SkippingDurationList</i> is not configured as specified in TS 38.213 [11], clause 10.4. UE supports search space set group switching capability-1 according to Table 10.4-1 of TS 38.213 [11].	Band	No	N/A	N/A
<ul> <li>sssg-Switching-2BitInd-r17</li> <li>Indicates whether the UE supports 2-bit indication of SSSG switching among 3</li> <li>SSSGs by scheduling DCI and timer based SSSG switching, if <i>pdcch-SkippingDurationList</i> is not configured as specified in TS 38.213 [11], clause 10.4.</li> <li>UE supports search space set group switching capability-1 according to Table 10.4-1 of TS 38.213 [11].</li> <li>UE indicating support of this feature shall also indicate support of sssg-Switching-</li> </ul>	Band	No	N/A	N/A
1bitInd-r17.				
support64CandidateBeamRS-BFR-r16 Indicates UE support of configuring maximum 64 candidate beam RSs per BWP per CC. UE indicating support of this feature shall also indicate support of maxNumberCSI-RS-BFD, maxNumberSSB-BFD and maxNumberCSI-RS-SSB- CBD.	Band	No	N/A	N/A
supportCodeWordSoftCombining-r16 Indicates whether UE supports codeword soft combining for FDMSchemeB. UE indicates support of this feature depends on whether the supportFDM-SchemeB-r16 is also supported.	Band	No	N/A	N/A
supportFDM-SchemeA-r16	Band	No	N/A	N/A
supportInter-slotTDM-r16	Band	No	N/A	N/A
<ul> <li>Indicates whether UE supports single-DCI based inter-slot TDM. This capability signalling includes the following:</li> <li>supportRepNumPDSCH-TDRA-r16 indicates support of repetitionNumber-r16 in PDSCH-TimeDomainResourceAllocation-r16 and the maximum value of repetitionNumber-r16</li> <li>maxTBS-Size-r16 indicates maximum TBS size.</li> <li>maxNumberTCI-states-r16 indicates the maximum number of TCI states.</li> </ul>				
supportNewDMRS-Port-r16	Band	No	N/A	N/A
Indicates whether UE supports new DMRS port entry {0,2,3}. UE supports this feature should indicate support <i>singleDCI-SDM-scheme-r16</i> for the band.				
supportRepNumPDSCH-TDRA-DCI-1-2-r17 Indicates support of repetitionNumber-v1730 in PDSCH- TimeDomainResourceAllocation for DCI format 1_2 and the maximum value of repetitionNumber-v1730. The UE indicating support of this field shall also indicate support of dci-Format1-2And0-2-r16.	Band	No	N/A	N/A
supportTDM-SchemeA-r16 Indicates whether UE supports single DCI based TDMSchemeA. The capability signalling includes the maximum TBS size.	Band	No	N/A	N/A
supportTwoPortDL-PTRS-r16 Indicates whether UE supports 2-port DL PT-RS. UE supports this feature should indicate support singleDCI-SDM-scheme-r16 for the band.	Band	No	N/A	N/A
<i>ta-BasedPDC-NTN-SharedSpectrumChAccess-r17</i> Indicates whether the UE supports propagation delay compensation based on Rel- 15 TA procedure for NTN and shared spectrum channel access.	Band	No	N/A	N/A
<i>tb-ProcessingMultiSlotPUSCH-r17</i> Indicates whether UE supports TB processing over multi-slot PUSCH for DG and Type 2 CG without repetition in RRC connected mode.	Band	No	N/A	N/A
<i>tb-ProcessingRepMultiSlotPUSCH-r17</i> Indicates whether UE supports repetition of TB processing over multi-slot PUSCH in RRC connected mode.	Band	No	N/A	N/A
ProcessingMultiSlotPUSCH-r17.				

tci-StatePDSCH	Band	Yes	N/A	N/A
Defines support of TCI-States for PDSCH. The capability signalling comprises the			,	
following parameters:				
- maxNumberConfiguredTCI-StatesPerCC 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 LIE is mandeted to report to State RDSCH				
time De is manualed to report ici-SidlerDSCH.	Dond	No	Ν1/A	N1/A
Indicates whether the LIE supports time based conditional handover is	Бапо	INO	IN/A	IN/A
CondEvent T1 as specified in TS 22 221 [0] A LIE supporting this feature shall also				
indicate the support of cond Handover r16 for NTN bands and the support of				
nonTorrostrialNotwork r17 LIE shall set the capability value consistently for all EDD				
FR1 NTN bands				
triggeredHARQ-CodebookRetx-r17	Band	No	N/A	N/A
Indicates whether the LIE supports triggered HARO-ACK codebook re-transmission	Bana	110	1.1/7.1	1 1/7 1
from an earlier PUCCH slot based on the triggering information in DCI format 1 1				
and DCI format 1 2 (for a UE supporting DCI format 1 2 as indicated in dci-				
Format1-2And0-2-r16) and support the related PHY priority handling in terms of				
HARQ-ACK codebook selection and the applicable PUCCH configuration (for a UE				
supporting two HARQ-ACK codebooks / PUCCH config as indicated in twoHARQ-				
ACK-Codebook-type1-r16). The capability signalling comprises the following				
parameters:				
- minHARQ-Retx-Offset-r17 indicates minimum value for the HARQ re-tx				
offset. Value <i>n</i> -7 corresponds to -7, value <i>n</i> -5 corresponds to -5, and so on.				
- maxHARQ-Retx-Offset-r17 indicates maximum value for the HARQ re-tx				
offset.				
NOTE: The minimum requirement for <i>minHARQ-Retx-Offset-r17</i> and <i>maxHARQ-</i>				
Retx-Offset-r17 is valid for HARQ CBs consisted of HARQ Processes				
With a single HARQ bit per HARQ Process ID.	Davad	Na		
trs-AdditionalBandwidth-r10	Band	INO	FDD	FRI
indicates the DE supported TRS bandwidths, in addition to 52 Rbs, for a Tumine DE			only	only
channel bandwidth. This field only applies for the BWPS configured with 52 RBs				
Value $trs_A dd RW_s$ Sat1 indicates 28, 32, 36, 40, 44, 48 RBs				
Value $trs$ -AddBW-Set2 indicates 20, 52, 50, 40, 44, 40 NDS.				
twoHARO-ACK-CodebookEorl InicastAndMulticast-r17	Band	No	Ν/Δ	Ν/Δ
Indicates whether the LIE supports two HARO-ACK codebooks simultaneously	Danu	NO		
constructed for supporting HARQ-ACK codebooks with different priorities for unicast				
and multicast at a UF.				
For TN, the UE shall set the capability value consistently for all FDD-FR1 bands, all				
TDD-FR1 bands and all TDD-FR2 bands, associated with supported shared and				
non-shared spectrum respectively. For NTN, UE shall set the capability value				
consistently for all FDD-FR1 NTN bands.				
A UE supporting this feature shall also indicate support of <i>priorityIndicatorInDCI</i> -				
Multicast-r17.				
twoPortsPTRS-UL	Band	No	N/A	N/A
Defines whether UE supports PI-RS with 2 antenna ports for UL transmission.		• •	<b>N1/6</b>	N1/4
type1-HARQ-Codebook-r17	Band	No	N/A	N/A
Indicates whether the UE supports Type-1 HARQ codebook enhancements when				
there are record ack-disabled HARQ processes. UE indicating support of this feature				
shall also indicate support of <i>narq-reedbackDisabled-r17</i> . This field is only				
applicable for barlos in Table 5.2.2-1 In 15.38.101-5 [34] and HAPS operation bands in clause 5.2 of TS 38.104 [35]				
1 Datus it Clause 3.2 01 13 30.104 [33].	1			

<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-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 FDD-FR1 bands, all TDD-FR1 bands, all TDD-FR2-1 bands and all TDD-FR2-2 bands respectively.	Band	No	N/A	N/A
RepetitionMultiSlots is absent type2-HARQ-Codebook-r17 Indicates whether the UE supports Type-2 HARQ codebook enhancements when there are feedback-disabled HARQ processes. UE indicating support of this feature shall also indicate support of <i>harq-FeedbackDisabled-r17</i> . This field is only applicable for bands in Table 5.2.2-1 in TS 38.101-5 [34] and HAPS operation bands in clause 5.2 of TS 38.104 [35].	Band	No	N/A	N/A
<i>type2-PUSCH-RepetitionMultiSlots-v1650</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 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-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, <i>type2-PUSCH-RepetitionMultiSlots-r16</i> applies. UE shall set the capability value consistently for all FDD-FR1 bands, all TDD-FR1 bands, all TDD-FR2-1 bands and all TDD-FR2-2 bands respectively.	Band	No	N/A	N/A
<i>type3-HARQ-Codebook-r17</i> Indicates whether the UE supports Type-3 HARQ codebook enhancements when there are feedback-disabled HARQ processes. UE indicating support of this feature shall also indicate support of <i>harq-FeedbackDisabled-r17</i> . This field is only applicable for bands in Table 5.2.2-1 in TS 38.101-5 [34] and HAPS operation bands in clause 5.2 of TS 38.104 [35].	Band	No	N/A	N/A
<i>txDiversity-r16</i> Indicates whether the UE supports transparent Tx diversity requirements as specified in the suffix G clauses of TS 38.101-1 [2] (see also clauses 4.2 and 4.3 of TS38.101-1 [2]).	Band	No	N/A	FR1 only
<b>ue-OneShotUL-TimingAdj-r17</b> Indicates whether the UE supports one shot large UL timing adjustment. UE indicating support of this feature shall indicate support of <i>ue-PowerClass-v1700</i> set to ' <i>pc6</i> '.	Band	No	N/A	FR2 only
<i>ue-PowerClass, ue-PowerClass-v1610, ue-PowerClass-v1700</i> For FR1, if the UE supports the different UE power class than the default UE power class as defined in clause 6.2 of TS 38.101-1 [2], or in clause 6.2 of TS 38.101-5 [34], the UE shall report the supported UE power class in this field. For FR2, UE shall report the supported UE power class as defined in clause 6 and 7 of TS 38.101-2 [3] in this field. UE indicating support for <i>pc6</i> supports the enhanced intra-NR RRM and demodulation processing requirements for FR2 to support high speed up to 350 km/h as specified in TS 38.133 [5]. This capability is not applicable to IAB-MT. The power class pc7 is only applicable for RedCap UEs operation in FR2.	Band	Yes	N/A	N/A

ue-specific-K-Offset-r17	Band	No	N/A	N/A
Indicates whether the LIE supports the reception of LIE specific K offset comprised	Danu	110		
indicates whether the DE supports the reception of DE-specific K-onset comprised				
of the following functional components:				
<ul> <li>Support of reception of Differential K-offset via MAC-CE</li> </ul>				
- Support of determining the timing of PUSCH, PUCCH, CSI reference				
resource transmission of aperiodic SRS activation of TA command first				
PLISCH transmission in CG Type 2 with Differential K-offset				
FOSCH transmission in CG Type 2 with Differential K-onset				
UE indicating support of this feature shall also indicate support of				
<i>uplinkPreCompensation-r17</i> and <i>uplink-TA-Reporting-r17</i> for this band. This field is				
only applicable for bands in Table 5.2.2-1 in TS 38.101-5 [34] and HAPS operation				
bands in clause 5.2 of TS 38 104 [35]				
	Dand	Nia	Ne	ED0
	вапа	INO	INO	FRZ
Indicates whether the UE supports FR2 UL gap to perform BPS sensing for Tx				only
power management by the use of uplink gap patterns as specified in TS 38.133 [5]				
if UE supports a band in FR2.				
unified lointTCI-BeamAlignDLRS-r17	Band	No	Ν/Δ	FR2
Indicates the support of beam medianment between the DL source DS in the TCL	Danu	NO		only
Indicates the support of beam misalignment between the DL source RS in the TCI				oniy
state to provide spatial relation indication and the PL-RS.				
The UE indicating support of this feature shall also indicate support of				
unified JointTCI-r17				
unified lointTCL commonMultiCC-r17	Band	No	ΝΙ/Δ	ΝΙ/Δ
	Danu	INU	IN/A	IN/A
Indicates the support of common multi-CC TCI state ID update and activation.				
The UE indicating support of this feature shall also indicate support of				
unifiedJointTCI-r17.				
unified JointTCI-InterCell-r17	Band	No	N/A	Ν/Δ
Indicates the support of Unified TCL with joint DL/UL TCL undets for inter call beam	Dana	110		
indicates the support of onlined TCI with joint DE/DE TCI update for inter-cell beam				
management including following parameters:				
- additionalMAC-CE-PerCC-r17 indicates the number of K additional MAC-				
CEs to indicate joint TCI states per CC in a band.				
- additionalMAC-CE-AcrossCC-r17 indicates the number of K additional MAC-				
CE activitation of TCI actes across all CC(a) in a band				
CE activated joint TCI states across all CC(s) in a band.				
A UE indicating support of this shall also indicate support of <i>unifiedJointTCI-r17</i> and				
unified JointTCI-mTRP-InterCell-BM-r17.				
NOTE: A LIE that supports unified laintTCL InterColl #17 supports K additional				
NOTE. A DE that supports uninedsoniti Ci-interCentry supports R additional				
MAC-CE activated joint TCI states across all CC(s) in a band in addition				
to the maximum number of MAC-CE activated joint TCI states across all				
CC(s) in a band signalled in <i>unified JointTCI-r17</i> . The signalled value in				
additional MAC-CE-Across CC-r17 plus the signalled value in				
may Activated TCLA cross CC +17 determine the maximum number of				
maxactivated i ClacrossCC-r // determine the maximum number of				
MAC-CE activated joint TCI states across all CC(s) in a band that are				
applied to intra and inter-cell beam management jointly.				
unified JointTCI-Legacy-CORESET0-r17	Band	No	N/A	N/A
Indicates the sum of a disctice (and investigates of D47 TOL states for OODEOET #0	Danu	NO		
Indicates the support of indication/configuration of R17 TCI states for CORESET #0				
and the respective PDSCH reception reusing the Rel-15/16 signalling/configuration				
design(s).				
The UE indicating support of this feature shall also indicate support of				
unified lointTCI-r17				
	David	N. 1 -		
unineajoint i Ci-Legacy-r1 /	вала	INO	IN/A	IN/A
Indicates the support of indication/configuration of R17 TCI states for aperiodic CSI-				
RS, PDCCH, PDSCH (except for TRS and for CORESET #0 and the respective				
PDSCH reception) reusing the Rel-15/16 signalling/configuration design(s)				
The LIE indicating support of this feature shall also indicate support of				
unifiedJointTCI-Legacy-SRS-r17	Band	No	N/A	N/A
Indicates the support of indication/configuration of R17 TCI states for SRS (except				
for periodic/semi-persistent SRS for BM) reusing the Rel-15/16				
cianalling/configuration decian(c)				
signaling/configuration design(s).				
The UE indicating support of this feature shall also indicate support of				
unifiedJointTCI-r17.				

<i>unifiedJointTCI-ListSharingCA-r17</i> Indicates the support of reference BWP/serving cell index to indicate reference TCI state list shared by multiple BWPs/serving cells. The value indicates the maximum number of configured joint TCI state lists across all BWPs and all Serving cells in a band.	Band	No	N/A	N/A
The UE indicating support of this feature shall also indicate support of <i>unifiedJointTCI-r17</i> . A UE that supports CA and <i>unifiedJointTCI-r17</i> shall indicate support of this feature.				
<i>unifiedJointTCI-mTRP-InterCell-BM-r17</i> Indicates the support of inter-cell beam measurement and reporting for inter-cell BM and mTRP. This feature includes support of L1-RSRP measurement and reporting on SSB(s) with PCI(s) different from serving cell PCI (additional PCI) and support of up to K SSBRI-RSRP pairs in one report where a pair is associated with a PCI different from serving cell PCI can be reported, where K is equal to <i>maxNumberNonGroupBeamReporting</i> .	Band	No	N/A	N/A
<ul> <li>This feature also includes following parameters:</li> <li>maxNumAdditionalPCI-L1-RSRP-r17 indicates the maximum number of RRC-configured] PCI(s) different from serving cell PCI for L1-RSRP measurement.</li> <li>maxNumSSB-ResourceL1-RSRP-AcrossCC-r17 indicates the maximum number of SSB resources configured to measure L1-RSRP within a slot with PCI(s) same as or different from serving cell PCI [across all CC].</li> </ul>				
NOTE: maxNumSSBResource-L1-RSRP-AcrossCC-r17 is also counted in maxTotalResourcesForOneFreqRange-r16/ maxTotalResourcesForAcrossFreqRanges-r16.				
<ul> <li>unifiedJointTCI-multiMAC-CE-r17</li> <li>Indicates the support of unified TCI state operation with joint DL/UL TCI update for intra- and inter-cell beam management with more than one MAC-CE activated joint TCI state per CC with MAC CE and DCI based TCI state indication in DCI formats 1_1 and 1_2 with and without DL assignment.</li> <li>This capability signalling includes the following parameters:         <ul> <li>minBeamApplicationTime-r17 indicates the minimum beam application time in Y symbols per SCS indicated only for FR2.</li> <li>maxNumMAC-CE-PerCC-r17 indicates the maximum number of MAC-CE activated joint TCI states per CC in a band.</li> </ul> </li> <li>The UE indicating support of this feature shall also indicate support of unifiedJointTCI-r17.</li> </ul>	Band	No	N/A	N/A
<ul> <li>NOTE 1: The maximum number of MAC-CE activated joint TCI states across all CC(s) in a band for more than one MAC-CE activated joint TCI state is signaled in <i>unifiedJointTCI-r17</i>.</li> <li>NOTE 2: Activated joint TCI state(s) include all PDCCH/PDSCH receptions and PUSCH/PUCCH.</li> </ul>				
<i>unifiedJointTCI-PC-association-r17</i> Indicates the support of association between TCI state and UL PC settings except for PL RS for PUCCH, PUSCH, and SRS. The UE indicating support of this feature shall also indicate support of <i>unifiedJointTCI-r17</i> .	Band	No	N/A	N/A
unifiedJointTCI-perBWP-CA-r17	Band	No	N/A	N/A
Indicates the support of TCI state list configuration per BWP when CA is configured. The UE indicating support of this feature shall also indicate support of <i>unifiedJointTCI-r17</i> .				

Unified Joint 1 CI-r17 Indicates the support of unified TCI state operation with joint DI /UL TCI undate for	Band	INO	N/A	N/A
intra-cell beam management including the support of				
- One MAC-CE activated joint TCI state per CC in a hand				
- TCI state indication for update and activation of MAC CE based TCI state				
indication for one active TCI state				
The capability signalling comprises the following parameters:				
<ul> <li>maxConfiguredJointTCI-r17 indicates the maximum number of configured</li> </ul>				
joint TCI states per BWP per CC in a band				
<ul> <li>maxActivatedTCIAcrossCC-r17 indicates the maximum number of MAC-CE</li> </ul>				
activated joint TCI states across all CC(s) in a band				
If a UE supports unified joint I CI-interCell-r17, the signalied component values				
NOTE: Activated joint TCI state(s) include all PDCCH/PDSCH recentions and				
PUSCH/PUCCH transmissions				
unifiedJointTCI-SCellBFR-r17	Band	No	N/A	N/A
Indicates the support of SCell BFR with unified TCI operation. The maximum				
number of CCs configured with SCell BFR with unified TCI framework in a band				
with SpCell BFR is given by maxNumberSCellBFR-r16. The UE supporting this				
feature assumes that maxNumberSCellBFR-r16 includes SpCell.				
unifiedSeparateTCI-commonMultiCC-r17	Band	No	N/A	N/A
Indicates the Common multi-CC DL/UL-TCI state ID update and activation.				
The UE indication concerns of this facture chall also indicate concerns of				
I ne UE indicating support of this feature shall also indicate support of				
unifiedSeparateTCL InterCell #17	Pond	No	ΝΙ/Δ	NI/A
Indicates the support of unified TCI with separate DI /UIL TCI undate for inter-cell	Danu	INU	IN/A	IN/A
beam management with more than one MAC-CE activated separate TCI state per				
CC				
This feature also includes following parameters:				
<ul> <li>k-DL-PerCC-r17 indicates the number of additional MAC-CE activated DL</li> </ul>				
TCI states per CC in a band				
<ul> <li>k-UL-PerCC-r17 indicates the number of additional MAC-CE activated UL</li> </ul>				
TCI states per CC in a band				
- <i>k-DL-AcrossCC-r11</i> indicates the number of additional MAC-CE activated DL				
I CI states across all CC(s) in a band				
- K-UL-ACTOSSCC-177 Indicates the number of additional MAC-CE activated OL				
The UE indicating support of this feature shall also indicate support of				
unifiedSeparateTCI-r17.				
NOTE: A UE that supports this feature supports K additional MAC-CE activated				
DL and K additional MAC-CE activated UL TCI states across all CC(s) in				
a band in addition to the maximum number of MAC-CE activated DL and				
UL I UI states across all UU(s) in a band signalled in <i>unitiedSeparate I CI</i> -				
the signalied value in <i>k-DL-AcrossCC-r17</i> ( <i>k-UL-AcrossCC-r17</i> ) plus				
(maxActivated) II -TCIAcrossCC-r17) determine the maximum number of				
MAC-CE activated DL (UL) TCL states across all CC(s) in a band that are				
applied to intra and inter-cell beam management iointly.				
unifiedSeparateTCI-ListSharingCA-r17	Band	No	N/A	N/A
Indicates the support of reference BWP/serving cell configured with reference TCI			,, .	
state pool shared by a set of BWPs/serving cells. The value indicates the maximum				
number of configured DL/UL TCI state pools across all BWPs and all serving cells in				
a band.				

<i>unifiedSeparateTCI-multiMAC-CE-r17</i> Indicates TCI state indication for update and activation a) MAC-CE+DCI-based TCI state indication (use of DCI formats 1_1/1_2 with DL assignment) And b) MAC-CE+DCI-based TCI state indication (use of DCI formats 1_1/1_2 without DL assignment).	Band	No	N/A	N/A
<ul> <li>This capability signalling includes the following parameters:</li> <li><i>minBeamApplicationTime-r17</i> indicates the minimum beam application time in Y symbols per SCS.</li> <li><i>maxActivatedDL-TCIPerCC-r17</i> indicates the maximum number of MAC-CE activated DL TCI states per CC in a band</li> <li><i>maxActivatedUL-TCIPerCC-r17</i> indicates the maximum number of MAC-CE activated UL TCI states per CC in a band</li> </ul>				
The UE indicating support of this feature shall also indicate support of unifiedSeparateTCI-r17.				
<i>unifiedSeparateTCI-perBWP-CA-r17</i> Indicates the support of DL/UL TCI state pool configuration per BWP for CA mode. The UE indicating support of this feature shall also indicate support of <i>unifiedSeparateTCI_r17</i>	Band	No	N/A	N/A
<ul> <li>unifiedSeparateTCI-r17</li> <li>Indicates the support of unified TCI state operation with joint DL/UL TCI update for intra-cell beam management including the support of:         <ul> <li>One MAC-CE activated DL TCI state per CC in a band</li> <li>One MAC-CE activated UL TCI state per CC in a band</li> <li>TCI state indication for update and activation including MAC CE based TCI state indication for one active DL/UL TCI state</li> </ul> </li> </ul>	Band	No	N/A	N/A
<ul> <li>The capability signalling comprises the following parameters:</li> <li>maxConfiguredDL-TCl-r17 indicates the maximum number of configured DL TCl states per BWP per CC</li> <li>maxConfiguredUL-TCl-r17 indicates the maximum number of configured UL TCl states per BWP per CC</li> <li>maxActivatedDL-TClAcrossCC-r17 indicates the maximum number of MAC-CE activated DL TCl states across all CC(s) in a band</li> <li>maxActivatedUL-TClAcrossCC-r17 indicates the maximum number of MAC-CE activated UL TCl states across all CC(s) in a band</li> </ul>				
The UE indicating support of this feature shall also indicate support of <i>unifiedJointTCI-r17</i> . If a UE supports <i>unifiedSeparateTCI-InterCell-r17</i> , the <i>maxConfiguredDL-TCI-r17</i> and <i>maxConfiguredUL-TCI-r17</i> apply to intra- and inter- cell beam management jointly.				

uplinkBeamManagement Defines support of beam management	for UL. This capability signalling comprises	Band	No	N/A	FR2 only
the following parameters: - maxNumberSRS-ResourcePer SRS resources per SRS resources	Set-BM indicates the maximum number of ce set configurable for beam management,				
supported by the UE. - maxNumberSRS-ResourceSet resource sets configurable for b If the UE does not set beamCorrespor supported, the UE shall report this cap supports beam correspondence withou 6.6, TS 38.101-2 [3].	indicates the maximum number of SRS beam management, supported by the UE. IndenceWithoutUL-BeamSweeping to ability. This feature is optional for the UE that at uplink beam sweeping as defined in clause				
NOTE: The network uses <i>maxNum</i> maximum number of SRS re for periodic/semi-persistent/	<i>berSRS-ResourceSet</i> to determine the esource sets that can be configured to the UE aperiodic configurations as below:				
Maximum number of SRS resource sets across all time domain behaviour (periodic/semi- persistent/aperiodic) reported in <i>maxNumberSRS-ResourceSet</i>	Additional constraint on the maximum number of SRS resource sets configured to the UE for each supported time domain behaviour (periodic/semi-persistent/aperiodic)				
1	1				
2	1				
3	1				
4	2				
5	2				
0	2				
1	4				
8	4	<b>.</b>			
<ul> <li>Indicates whether the UE supports the and timing relationship enhancements components: <ul> <li>Support of UE specific TA calculated and the serving satellite ephements</li> <li>Support of common TA calculated the network (UE considers comprovided)</li> <li>For TA update in RRC_CONNED open (i.e. UE autonomous TA endoted closed (i.e., received TA comments)</li> <li>Support of pre-compensation o</li> <li>Support of requency pre-compression of the service link</li> <li>Support of determining timing of PDCCH ordered PRACH, CSI IN SRS activation of TA command cell-specific K_offset if indicated and determining the the search space using K-mac duri</li> <li>Support of UE receiving cell-sp Support of this feature in NTN bands is nonTerrestrialNetwork-r17. This field is TS 38.101-5 [34] and HAPS operation</li> </ul> </li> </ul>	uplink time and frequency pre-compensation comprised of the following functional ulation based on its GNSS-acquired position eris. tion according to the parameters provided by mon TA as 0 if the parameters are not ECTED state, support of combination of both estimation, and common TA estimation) and ands) control loops f the calculated TA in its uplink transmissions RTT and delaying the start of RAR window by ensation to counter shift the Doppler f the scheduling of PUSCH, PUCCH and reference resource, transmission of aperiodic , first PUSCH transmission in CG Type 2 with d f the UE action and assumption on a by MAC CE command by K_mac if it is ming of PDCCH monitoring in recovery ng beam failure recovery procedure ecific K_offset/K_mac in system information a mandatory for UE supporting only applicable for bands in Table 5.2.2-1 in bands in clause 5.2 of TS 38.104 [35].				
uplink-TA-Reporting-r17	bando in blause J.2 01 10 30.104 [33].	Band	No	N/A	N/A
Indicates whether the UE supports UE	reporting of information related to TA pre-				
compensation as specified in TS 38.32	21 [8]. UE indicating support of this feature				
shall also indicate support of <i>uplinkPre</i>	Compensation-r17 for this band. This field is				
bands in clause 5.2 of TS 38.104 [35].	2-1 11 13 30.101-3 [34] and HAPS operation				

## 4.2.7.2a SharedSpectrumChAccessParamsPerBand

Definitions for parameters	Per	М	FDD-	FR1-
			TDD	FR2
			DIFF	DIFF
ul-DynamicChAccess-r16	Band	CY	N/A	N/A
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.				
ul-Semi-StaticChAccess-r16	Band	CY	N/A	N/A
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				
ssh-RRM-DynamicChAccess-r16	Band	CY	N/A	N/A
Indicates whether the UE supports SSB-based RRM for dynamic channel access	Dana	01	1 1/7 1	1 1/7 1
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.				
ssb-RRM-Semi-StaticChAccess-r16	Band	CY	N/A	N/A
Indicates whether the UE supports SSB-based RRM for semi-static channel access				
Support of this feature is mandatory if LE supports any of the deployment scenarios				
A 1 A 2 B C D and F in Annex B 3 of TS 38 300 [28] with semi-static channel				
access mode.				
mib-Acquisition-r16	Band	CY	N/A	N/A
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].				
ssb-RLM-DynamicChAccess-r16	Band	CY	N/A	N/A
Indicates whether the UE supports SSB-based RLM for dynamic channel access				
Induce. Support of this feature is mandatory if LIE supports any of the deployment scenarios				
B C D and F in Annex B 3 of TS 38 300 [28] with dynamic channel access mode				
ssb-RLM-Semi-StaticChAccess-r16	Band	CY	N/A	N/A
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				
sib1-Acquisition-r16	Band	CY	Ν/Δ	Ν/Δ
Indicates whether the LIE supports acquiring SIB1 on an unlicensed cell for PCell	Danu	01		IN/A
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].				
extRA-ResponseWindow-r16	Band	CY	N/A	N/A
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 DE supports any of the deployment scenarios B, C, D and E in Annex B.3 of TS				
ssh-BED-CBD-dynamicChannelAccess-r16	Band	No	Ν/Δ	N/A
Indicates whether the UE supports SSB based Beam Failure Detection and	Danu	NO		
Candidate Beam Detection with N <sub>SSB</sub> <sup>QCL</sup> for dynamic channel access mode.				
ssb-BFD-CBD-semi-staticChannelAccess-r16	Band	No	N/A	N/A
Indicates whether the UE supports SSB based Beam Failure Detection and				
Candidate Beam Detection with N <sub>SSB</sub> <sup>QCL</sup> for semi-static channel access mode.	_			-
csi-RS-BFD-CBD-r16	Band	No	N/A	N/A
Indicates whether the UE supports CSI-RS based Beam Failure Detection and				
Candidate Beam Detection for shared spectrum operation.	Dere -1	Ne	N1/A	N1/A
Indicates whether the LIE supports 10 MHz of LRT handwidth for an SCall A LIE	Band	INO	IN/A	IN/A
that supports this feature shall also support <i>ul-DynamicChAccess-r16</i> or <i>ul-Semi-</i>				
StaticChAccess-r16.				

rssi-ChannelOccupancyReporting-r16	Band	No	N/A	N/A
Indicates whether the UE supports RSSI measurements and channel occupancy				
reporting.				
srs-StartAnyOFDM-Symbol-r16	Band	No	N/A	N/A
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.				
searchSpaceFreqMonitorLocation-r16	Band	No	N/A	N/A
Indicates the maximum number of frequency domain locations supported by the UE,				
for a search space set configuration with <i>freqMonitorLocations-r16</i> .				
coreset-RB-Offset-r16	Band	No	N/A	N/A
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.				
cgi-Acquisition-r16	Band	No	N/A	N/A
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.				
configuredUL-Tx-r16	Band	No	N/A	N/A
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.				
prach-Wideband-r16	Band	No	N/A	N/A
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.				
dci-AvailableRB-Set-r16	Band	No	N/A	N/A
Indicates whether the UE supports monitoring DCI 2_0 to read available RB set				
indicator.				
dci-ChOccupancyDuration-r16	Band	No	N/A	N/A
Indicates whether the UE supports monitoring DCI 2_0 to read COT duration.				
typeB-PDSCH-length-r16	Band	No	N/A	N/A
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.				
searchSpaceSwitchWithDCI-r16	Band	No	N/A	N/A
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:				
<ul> <li>Monitor DCI 2_0 with a search space set switching field;</li> </ul>				
<ul> <li>Support switching the search space set group with PDCCH decoding in</li> </ul>				
group 1;				
- Support a timer to switch back to original search space set group;				
<ul> <li>Monitor DCI 2_0 for channel occupancy time and use the end of channel</li> </ul>				
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 jointSearchSpaceSwitchAcrossCells-r16. The UE supports search				
space set group switching capability-1: $P=25/25/25$ symbols for $\mu=0/1/2$ , unless the				
UE supports searchSpaceSwitchCapability2-r16. The UE supports search space				
switching triggers to be configured for up to 4 cells or 4 cell groups.				
extendedSearchSpaceSwitchWithDCI-r16	Band	No	N/A	N/A
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 searchSpaceSwitchWithDCI-r16.				

<ul> <li>searchSpaceSwitchWithoutDCI-r16</li> <li>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 the following functional components:         <ul> <li>Support switching the search space set group with PDCCH decoding in group 1;</li> </ul> </li> </ul>	Band	No	N/A	N/A
- 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
716 indicating an inapplicable time to report HARQ ACK.				
<ul> <li>enhancedDynamicHARQ-codebook-r16</li> <li>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:         <ul> <li>Support of bit fields signalling PDSCH HARQ group index and NFI in DCI</li> <li>1, 1 (configuration of of in TataIDAL Included);</li> </ul> </li> </ul>	Band	No	N/A	N/A
I_I (conliguration of nil-rotalDAI-included),				
<ul> <li>Support of bit field in DCI 0_1 for other group total DAI if configured. (configuration of ul-TotalDAI-Included);</li> </ul>				
<ul> <li>Support the retransmission of HARQ ACK (pdsch-HARQ-ACK-Codebook = enhancedDynamic-r16).</li> </ul>				
This capability is also applicable to a frequency band that does not require shared spectrum access.				
<ul> <li>oneShotHARQ-feedback-r16         Indicates whether the UE supports one shot HARQ ACK feedback comprised of the following functional components:         <ul> <li>Support feedback of type 3 HARQ-ACK codebook, triggered by a DCI 1_1 scheduling a PDSCH;</li> <li>Support feedback of type 3 HARQ-ACK codebook, triggered by a DCI 1_1 without scheduling a PDSCH using a reserved FDRA value.</li> </ul> </li> <li>This capability is also applicable to a frequency band that does not require shared</li> </ul>	Band	No	N/A	N/A
spectrum access				
multiPUSCH-UI - 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.	Dana			
csi-RS-RLM-r16	Band	No	N/A	N/A
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	Dana		1.1/7 (	1.077
associated SS/PBCH in shared spectrum channel access.				
<i>csi-RSRP-AndRSRQ-MeasWithoutSSB-r16</i> Indicates whether the UE can perform CSI-RSRP and CSI-RSRQ measurement as specified in TS 38.215 [13], where CSI-RS resource is configured for a cell that transmits SS/PBCH block and without an associated SS/PBCH block in shared spectrum channel access.	Band	No	N/A	N/A
<i>csi-SINR-Meas-r16</i> Indicates whether the UE can perform CSI-SINR measurements based on 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 <i>maxNumberCSI-RS-RRM-RS-SINR</i> . UE indicating support of this feature shall indicate support of <i>csi-RSRP-AndRSRQ-MeasWithSSB-r16</i> .	Band	No	N/A	N/A

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.				
UE indicating support of this feature shall indicate support of csi-RS-RLM-r16 and				
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		-	-	
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				
nusch-PRB-interlace-r16	Band	No	N/A	N/A
Indicates whether the LIF supports PRB interlace frequency domain resource	Dana	110	1.1/7.1	1.1/7
allocation for PLISCH				
nucch-E0-E1-PRB-Interlace-r16	Band	No	NI/A	NI/A
Indicates whether the LIE supports DRB interlace frequency domain resource	Danu	INU		
allocation for PLICCH format 0, 1, 2 and 3				
and and and a second se	Band	No	NI/A	NI/A
Indicates whether the LIE supports OCC for DPR interface mapping for DLICCH	Danu	INU		
format 2 and 2. If the UE supports this feature, the UE needs to report purch E0 E1				
DPP Interface r16				
PRD-Interlace-110.	Dond	No	N1/A	NI/A
Indicator whather the LIE supports generating a CP extension of length longer than	Danu	INO	IN/A	IN/A
1 symbol for Configured Grant DUSCH transmission. If the UE supports this feature				
the LIE poods to report configured II. GrantType1 or configured II. GrantType1				
the OE needs to report configured UL CrontType? or configured UL CrontType?				
vioso and/or configuredoL-Grant rypez or configuredoL-Grant rypez-vioso.	Dond	No	N1/A	NI/A
Indicates whether the UE supports configured grant with retransmission in	Бапи	INO	IN/A	IN/A
Indicates whether the OE supports configured grant with retransmission in				
Configured grant resource, comprised of retransmission timer, DFT monitoring and				
cG-UCI III CG-PUSCH. II the UE supports this realure, the UE needs to report				
Configured OL-Grant Type 1 of Configured OL-Grant Type 1-V 1050 and/of Configured OL-				
Grant Typez of configured of -Grant Typez-V 1650.	David	NI	N1/A	N1/A
ea-inresnoia-rib	Band	NO	N/A	N/A
Indicates whether the DE supports using ED threshold given by give for DL to DL				
COT sharing. A DE that supports this feature shall also support <i>ui</i> -				
DynamicCnAccess-r16.	<u> </u>			
ul-DL-COT-Sharing-r16	Band	No	N/A	N/A
Indicates whether the UE supports UL to DL COT sharing. A UE that supports this				
teature shall also support ui-DynamicChAccess-r16.				
mux-CG-UCI-HARQ-ACK-r16	Band	No	N/A	N/A
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	Band	No	N/A	N/A
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 or configuredUL-GrantType1-v1650 and/or				
configuredUL-GrantType2 or configuredUL-GrantType2-v1650.				/ .
dl-ReceptionLBT-subsetRB-r16	Band	No	N/A	N/A
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.				
dl-ReceptionIntraCellGuardband-r16	Band	No	N/A	N/A
Indicates whether the UE supports reception in the non-zero intra-cell guardband				
between contiguous RB sets in DL wideband carrier operation wider than 20MHz				
when LBT is successful only in a subset of RB sets. A UE that indicates support of				
this capability shall also indicate support of <i>dl-ReceptionLBT-subsetRB-r16</i> .	1			

ul-Semi-StaticChAccessDependentConfig-r17	Band	No	Ν/Δ	N/A
Indicates whether the LIE supports initiating a semi-static channel occupancy with	Dana		1 1/7 1	1.1/1
configurations dependent on gNB semi-static channel access configurations,				
comprised of the following functional components:				
<ul> <li>Support initiating a semi-static channel access occupancy by the UE where</li> </ul>				
the corresponding period is the same as, integer multiple of, or inter-factor of				
the period configured for a semi-static channel occupancy that can be				
initiated by gNB;				
- Sensing to initiate a semi-static CO or transmit after a gap greater than 16us				
from any transmission burst within a UE-initiated CO;				
- Determination of COT initiator assumption based on rules for configured UL;				
<ul> <li>Validating COT initiator assumption indicated in UL scheduling DCI.</li> </ul>				
A UE supporting this feature shall also indicate support of <i>ul-Semi-StaticChAccess</i> -				
r16.				
ul-Semi-StaticChAccessIndependentConfig-r17	Band	No	N/A	N/A
Indicates whether the UE supports initiating a semi-static channel access				
occupancy by the UE where the corresponding period is independently configured				
from the period configured for a semi-static channel occupancy that can be initiated				
by gNB. A UE supporting this feature shall also indicate support of <i>ul-Semi</i> -				
StaticChAccess-r16 and ul-Semi-StaticChAccessDependentConfig-r17.				

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4.2.7.2b FR2-2-AccessParamsPerBand

dI-FR2-2-SCS-120kHz-r17 Band CY N/A N/A
Indicates whether the UE supports reception of 120kHz subcarrier spacing for DL
data and control channels, SSB, and reference signals in FR2-2 for non-initial
access.
It is mandatory for LIE supporting at least one ER2-2 frequency hand
dI-FR2-2-SCS-480kHz-r17 Band No N/A N/A
Indicates whether the UE supports the following:
- Reception of 480kHz subcarrier spacing for DL data and control channels,
SSB, and reference signals in FR2-2 for non-initial access.
<ul> <li>Multiple-slot PDCCH monitoring for 480kHz with (Xs,Ys) = (4,1)</li> </ul>
<ul> <li>Multi-PDSCH scheduling by single DCI for the operation with 480 kHz SCS</li> </ul>
- Within the Vs – 1 slot (with Xs–4) monitoring of type 1 CSS with dedicated
RRC configuration, type 3 CSS, and UE-SS with a maximum of two
monitoring spans per slot with a span duration of Y symbols and a minimum
gap of X symbols between the start of two spans, where $(X,Y) = (4, 3)$ and
(7, 3) are supported.
Processing one unicast DCI scheduling DL and one unicast DCI scheduling
- Processing one unicast DCI scheduling DL and 2 unicast DCI scheduling LI
per slot group of Xs slots per scheduled CC for TDD.
- For type 1 CSS without dedicated RRC configuration and for type 0, 0A, and
2 CSS, the configured monitoring occasion(s) can be any OFDM symbol(s)
of any slot(s) of the slot group, and the actual monitoring occasions for any
one of Type 1- CSS without dedicated RRC configuration, or Types 0, 0A, or
single slot of the slot group
UE indicating support of this feature shall also indicate support of <i>dl-FR2-2-SCS</i> -
120kHz-r17.
dI-FR2-2-SCS-960kHz-r17 Band No N/A N/A
Indicates whether the UE supports the following:
SSB, and reference signals in FR2-2 for non-initial access
- Multiple-slot PDCCH monitoring for 960kHz with (Xs,Ys) = (8,1).
- Multi-PDSCH scheduling by single DCI for the operation with 960 kHz SCS
and corresponding HARQ enhancements.
- Within the Ys = 1 slot (with Xs=8), monitoring of type 1 CSS with dedicated
monitoring spans per slot with a span duration of Y symbols and a minimum
gap of X symbols between the start of two spans, where $(X,Y) = (7, 3)$ is
supported.
Processing one unicast DCI scheduling DL and one unicast DCI scheduling
UL per slot group of Xs slots per scheduled CC for FDD.
Processing one unicast DCI scheduling DL and 2 unicast DCI scheduling UL     per slot group of Xs slots per scheduled CC for TDD
- For type 1 CSS without dedicated RRC configuration and for type 0, 0A, and
2 CSS, the configured monitoring occasion(s) can be any OFDM symbol(s)
of any slot(s) of the slot group, and the actual monitoring occasions for any
one of Type 1- CSS without dedicated RRC configuration, or Types 0, 0A, or
2 CSS is within a single span of three consecutive OFDM symbols within a
UE indicating support of this feature shall also indicate support of <i>dl-FR2-2-SCS</i> -
120kHz-r17.
enhancedPDCCH-monitoringSCS-480kHz-r17 Band No N/A N/A
with dedicated RRC configuration, type 3 CSS, and UE-SS in the first 3 OEDM
symbols of each slot within each of the Ys=2 slots (with Xs=4) for 480kHz with
(Xs,Ys)=(4,2).
UE indicating support of this feature shall also indicate support of <i>dl-FR2-2-SCS-</i>

enhancedPDCCH-monitoringSCS-960kHz-r17	Band	No	N/A	N/A
Indicates whether the UE supports multiple-slot PDCCH monitoring for one or more				
of $(X_s, Y_s) = \{(4,1), (4,2), (8,4)\}$ for 960kHz:				
- Type 1 CSS with dedicated RRC configuration, type 3 CSS, and UE-SS in				
the first 3 OFDM symbols of each slot within each of the Ys=2 slots (with				
Xs=4) or $Ys=4$ slots (with $Xs=8$ ).				
- Type 1 CSS with dedicated RRC configuration, type 3 CSS, and UE-SS with				
a span duration of Y symbols and a minimum gap of X symbols between the				
start of two spans where $(X Y) = (7, 3)$ within the Ys=1 slot (with Xs=4)				
UE indicating support of this feature shall also indicate support of <i>dl-ER2-2-SCS</i> -				
960kHz-r17 and shall include at least one of pdcch-monitoring4-1, pdcch-				
monitoring4-2, or pdcch-monitoring8-4.				
modulation64-QAM-PUSCH-FR2-2-r17	Band	No	N/A	N/A
Indicates whether the UE supports 64-QAM modulation for FR2-2 PUSCH.	20110			
ul-FR2-2-SCS-120kHz-r17	Band	No	N/A	N/A
Indicates whether the UE supports PRACH with 120kHz SCS and length 139 and	Dana			
transmission of 120kHz subcarrier spacing for LIL data and control channels and				
reference signals in FR2-2				
LIE indicating support of this feature shall also indicate support of <i>dl-ER</i> 2-2-SCS-				
$120kH_{7-r17}$				
120012-117.	Band	No	NI/A	NI/A
Indicates whether the LIE supports the following:	Danu	NO		
- PRACH with 180kHz SCS and length 139				
Transmission of 4800kHz subcarrier spacing for LIL data and control				
channels and reference signals in ER2-2				
- Multi-DI ISCH scheduling by single DCI for the operation with 480 kHz SCS				
LIE indicating support of this feature shall also indicate support of <i>dLER</i> 2-2-SCS-				
$A80kHz$ -r17 and $\mu$ -R2-2-SCS-120kHz-r17				
ul-FR2-2-SCS-060kHz-r17	Band	No	NI/A	NI/A
Indicates whether the LIE supports the following:	Danu	NO		
- PRACH with 960kHz SCS and length 139				
- Transmission of 960kHz subcarrier snacing for LIL data and control channels				
and reference signals in FR2-2				
- Multi-PLISCH scheduling by single DCI for the operation with 960 kHz SCS				
LIE indicating support of this feature shall also indicate support of <i>dl-ER</i> 2-2-SCS-				
960kHz-r17 and ul-ER2-2-SCS-120kHz-r17				
initialAccessSSB-120kHz-r17	Band	No	N/A	N/A
Indicates whether the LIE supports 120kHz SSB for initial access in ER2-2	Danu	NO		
LIE indicating support of this feature shall also indicate support of <i>dl-ER</i> 2-2-SCS-				
120kHz-r17 and ul-ER2-2-SCS-120kHz-r17				
initialAccessSSB-480kHz-r17	Band	No	N/A	N/A
Indicates whether the LIE supports 480kHz SSB for initial access in ER2-2	Dana	110	1 1/7 1	1 1/7 1
LIE indicating support of this feature shall also indicate support of <i>initial</i> AccessSSR-				
120kHz-r17 dl-ER2-2-SCS-480kHz-r17 and ul-ER2-2-SCS-480kHz-r17				
multiPDSCH-SingleDCI-FR2-2-SCS-120kHz-r17	Band	No	N/A	N/A
Indicates whether the LIE supports multi-PDSCH scheduling by single DCI for the	Dana	110	1 1/7 1	1 1/7 1
operation with 120 kHz SCS in FR2-2 and HARO enhancements for both type 1 and				
type 2 HARO codebook				
UE indicating support of this feature shall also indicate support of <i>dl-ER2-2-SCS</i> -				
120kHz-r17.				
multiPUSCH-SingleDCI-FR2-2-SCS-120kHz-r17	Band	No	N/A	N/A
Indicates whether the LIF supports multi-PLISCH scheduling by single DCI for the	Dana	110		
operation with 120 kHz SCS in FR2-2				
UE indicating support of this feature shall also indicate support of <i>ul-ER2-2-SCS</i> -				
120kHz-r17.				

multiRB-PUCCH-SCS-120kHz-r17Indicates whether the UE supports multi-RB PUCCH format 0/1/4 for 120kHz SCS.This feature is only applicable when PSD limitation applies within FR2-2 based on the regional regulations.UE indicating support of this feature shall also indicate support of <i>ul-FR2-2-SCS-120kHz-r17</i> .	Band	No	N/A	N/A
multiRB-PUCCH-SCS-480kHz-r17         Indicates whether the UE supports multi-RB PUCCH format 0/1/4 for 480kHz SCS.         This feature is only applicable when PSD limitation applies within FR2-2 based on the regional regulations.         UE indicating support of this feature shall also indicate support of ul-FR2-2-SCS-	Band	No	N/A	N/A
480kHz-r17. <b>multiRB-PUCCH-SCS-960kHz-r17</b> Indicates whether the UE supports multi-RB PUCCH format 0/1/4 for 960kHz SCS. This feature is only applicable when PSD limitation applies within FR2-2 based on the regional regulations.	Band	No	N/A	N/A
UE indicating support of this feature shall also indicate support of <i>ul-FR2-2-SCS-960kHz-r17</i> .				
<b>reduced-BeamSwitchTiming-FR2-2-r17</b> Indicates whether the UE supports reduced beam switching time delay d = 56 symbols for 480 kHz SCS as specified in TS 38.214 [12], clause 5.2.1.5.1a. If this capability is not reported and the UE supports both <i>dl-FR2-2-SCS-480kHz-r17</i>	Band	No	N/A	N/A
and <i>dl-FR2-2-SCS-960kHz-r17</i> , the default value of 112 symbols is assumed.	<b>_</b>		N1/A	N1/A
Support32-DL-HARQ-ProcessPerSCS-r17 Indicates whether the UE supports 32 HARQ processes in DL for each SCS in FR2- 2 (i.e. SCS 120kHz/480kHz/960kHz).	Band	NO	N/A	N/A
A UE supporting 32 HARQ processes for 480/960 kHz SCS for DL shall support 32 as the maximum number of HARQ processes for 120 kHz SCS for DL in FR2-2. UE indicating support of this feature shall indicate support of <i>dl-FR2-2-SCS-120kHz-r17</i> .				
support32-UL-HARQ-ProcessPerSCS-r17 Indicates whether the UE supports 32 HARQ processes in UL for each SCS in FR2- 2 (i.e. SCS 120kHz/480kHz/960kHz). A UE supporting 32 HARQ processes for 480/960 kHz SCS for UL shall support 32 as the maximum number of HARQ processes for 120 kHz SCS for UL shall support 32	Band	No	N/A	N/A
indicating support of this feature shall indicate support of <i>dl-FR2-2-SCS-120kHz-r17</i> .				
<i>type1-ChannelAccess-FR2-2-r17</i> Indicates whether the UE supports Type 1 channel access procedure in uplink for FR2-2 with shared spectrum channel access and supports LBT performed per channel, as defined in TS 37.213 [32], clause 4.4. UE indicating support of this feature shall also indicate support of <i>ul-FR2-2-SCS</i> -	Band	CY	N/A	N/A
<i>120kHz-r17.</i> It is mandatory for UE supporting FR2-2 frequency band to indicate this when required by regulation.				
<i>type2-ChannelAccess-FR2-2-r17</i> Indicates whether the UE supports Type 2 channel access procedure in uplink for FR2-2 with shared spectrum channel access and supports LBT performed per channel, as defined in TS 37.213 [32], clause 4.4.	Band	CY	N/A	N/A
UE indicating support of this feature shall also indicate support of <i>ul-FR2-2-SCS-120kHz-r17</i> and type1-ChannelAccess-FR2-2-r17. It is mandatory for UE supporting FR2-2 frequency band to indicate this when required by regulation.				
WIGEDANDPRACH-SCS-120KHz-r17 Indicates whether the UE supports enhanced PRACH design for operation by adopting a single long ZC sequence, with ZC sequence equal to 1151 and 571 for 120kHz SCS.	Band	No	N/A	N/A
This feature is only applicable when PSD limitation applies within FR2-2 based on the regional regulations.				
UE indicating support of this feature shall also indicate support of <i>ul-FR2-2-SCS-120kHz-r17</i> .				

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<i>widebandPRACH-SCS-480kHz-r17</i> Indicates whether the UE supports enhanced PRACH design for operation with ZC sequence equal to 571 for 480kHz SCS.	Band	No	N/A	N/A
This feature is only applicable when PSD limitation applies within FR2-2 based on the regional regulations.				
UE indicating support of this feature shall also indicate support of <i>ul-FR2-2-SCS-</i> 480kHz-r17.				

## 4.2.7.3 CA-ParametersEUTRA

Definitions for parameters	Per	M	FDD-	FR1-
additionalRy-Ty-PerformanceReg	BC	No	N/A	N/Δ
additionalRx-Tx-PerformanceReg defined in 4 3 5 22 TS 36 306 [15]			1 1/7 1	1 1/7 1
dl-1024QAM-TotalWeightedl avers	BC	No	N/A	N/A
Indicates total number of weighted layers for the LTE part of the concerned				
(NG)EN-DC/NE-DC band combination the UE can process for 1024QAM, as				
described in TS 36.306 [15] equation 4.3.5.31-1. Actual value = (10 + indicated				
value x 2), i.e. value 0 indicates 10 layers, value 1 indicates 12 layers and so on.				
For an (NG)EN-DC/NE-DC band combination for which this field is not included, <i>dl</i> -				
1024QAM-TotalWeightedLayers-r15 as described in TS 36.331 [17] applies, if				
included.				
multipleTimingAdvance	BC	No	N/A	N/A
multipleTimingAdvance defined in 4.3.5.3, TS 36.306 [15].				
simultaneousRx-Tx	BC	No	N/A	N/A
<i>simultaneousRx-Tx</i> 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 LIE 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 LIE carrier, the UE shall support at least one bandwidth				
combination for the supported LTE part.	50		<b>N</b> 1/A	
supportedNAICS-2CRS-AP	BC	NO	N/A	N/A
supportedivA/CS-2CRS-AP defined in 4.3.5.8, TS 36.306 [15].	<b>D</b> O			N1/A
ra-initiation total weighted Layers	BC	NO	N/A	N/A
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 30.306 [15] equation 4.3.28.13-1 and TS 30.331 [17] clause 6.3.6,				
hore on <i>UE-EUTRA-Capability</i> field descriptions. For all (NG)EN-DC/NE-DC				
described in TS 26 221 [17] applies if included				
	BC	No	ΝΙ/Λ	Ν/Λ
$\mu$ e-CA-PowerClass-N defined in 4 3 5 1 3 TS 36 306 [15]			IN/A	IN/A

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4.2.7.4 CA-ParametersNR

Definitions for parameters	Per	М	FDD-	FR1-
			TDD	FR2
			DIFF	DIFF
ack-NACK-FeedbackForMulticast-r17	BC	No	N/A	N/A
Indicates whether the UE supports ACK/NACK based HARQ-ACK feedback and				
RRC-based enabling/disabling ACK/NACK-based feedback for dynamic scheduling				
for multicast, comprised of the following functional components:				
- Supports ACK/NACK based HARQ-ACK feedback, and support of				
enabling/disabling ACK/NACK based HARQ-ACK feedback configured by				
RRU signalling;				
- Supports PTM retransmission for multicast, Supports Type 1 and Type 2 HARO ACK CP for multicast feedback only:				
- Supports type-1 and Type-2 HARQ-ACK CB for multicast regulation with unicast.				
- Supports Shared POCCH resource configurations with unicast, - Supports Type-2 HARO-ACK codebook for multicast on PUSCH/PUCCH				
with max number of G-RNTIs indicated in maxNumberG-RNTI-HARQ-ACK-				
Codebook-r17, which is not larger than max number of G-RNTIs indicated in				
maxNumberG-RNTI-r17.				
A UE supporting this feature shall also indicate support of dynamicMulticastPCell-				
r17.				
ack-NACK-FeedbackForSPS-Multicast-r17	BC	No	N/A	N/A
Indicates whether the UE supports ACK/NACK based HARQ-ACK feedback and				
RRC-based enabling/disabiling ACK/NACK-based reedback for SPS group-common				
- Support of ACK/NACK based HARO-ACK feedback enabling/disabling				
ACK/NACK based HARQ-ACK feedback configured by RRC signalling for				
SPS group-common PDSCH without PDCCH scheduling and first PDSCH				
after SPS activation;				
- Support of PTM retransmission for SPS multicast associated with G-CS-				
RNTI;				
<ul> <li>Support of Type-1 and Type-2 HARQ-ACK CB for SPS multicast feedback</li> </ul>				
only;				
- Support of shared SPS-PUCCH-AN-List configuration from unicast SPS.				
A LIE supporting this feature shall also indicate support of sps-Multicast-r17				
beamManagementType-r16. beamManagementType-CBM-r17	BC	Yes	TDD	FR2
Indicates the supported beam management type for inter-band CA within FR2.			only	only
Beam management type can be independent beam management (IBM) or common				
beam management (CBM). The UE can support independent beam management				
(IBM) only or common beam management (CBM) only or both.				
NOTE: beaminanagement i ype-CBIN-r17 is only applicable to the band				
blindDetectEactor_r16	BC	No	Ν/Δ	Ν/Δ
Defines the value of factor R for blind detection as specified in Clause 10.1 [11]	DC	NO		
The UE that indicates support of this feature shall support <i>multiDCI-MultiTRP-r16</i> .				
codebookComboParametersAdditionPerBC-r16	BC	No	N/A	N/A
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				
moluced in codebook variantsList for each code book type:				
<ul> <li>maximumber i xronsrei resource indicates the maximum number of 1x pons in a resource across all hands within a hand combination;</li> </ul>				
- 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.				

<ul> <li>codebookParametersAdditionPerBC-r16</li> <li>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:         <ul> <li>maxNumberTxPortsPerResource indicates the maximum number of Tx ports in a resource across all bands within a band combination;</li> <li>maxNumberResourcesPerBand indicates the maximum number of resources across all CCs within a band combination, simultaneously;</li> <li>totalNumberTxPortsPerBand indicates the total number of Tx ports across all CCs within a band combination, simultaneously.</li> </ul> </li> <li>For each band in a band combination, supported values for these three parameters are determined in conjunction with codebookParametersAddition-r16 reported in MIMO-ParametersPerBand.</li> </ul>	BC	No	N/A	N/A
<ul> <li>codebookParametersfetype2perBC-r17</li> <li>Indicates the list of supported CSI-RS resources across all bands in a band combination by referring to <i>codebookVariantsList</i> for the additional codebook types. The following parameters are included in <i>codebookVariantsList</i> for each code book type: <ul> <li><i>maxNumberTxPortsPerResource</i> indicates the maximum number of Tx ports in a resource across all bands within a band combination;</li> <li><i>maxNumberResourcesPerBand</i> indicates the maximum number of resources across all CCs within a band combination, simultaneously;</li> <li><i>totalNumberTxPortsPerBand</i> indicates the total number of Tx ports across all CCs within a band combination, simultaneously.</li> </ul> </li> <li>For each band in a band combination, supported values for these three parameters are determined in conjunction with <i>CodebookParametersfetyp2-r17</i> reported in <i>MIMO-ParametersPerBand</i>.</li> </ul> For codebookVariantsList related to the FeType-II: <ul> <li>The minimum of <i>maxNumberTxPortsPerResource</i> is 'p4';</li> <li>The minimum value of <i>totalNumberTxPortsPerBand</i> is 4.</li> </ul>	BC	No	N/A	N/A

codebookComboParameterMixedTypePerBC-r17 Indicates the support of active CSI-RS resources and ports for mixed codebook	BC	No	N/A	N/A
types in any slot. The DE reports supported active CSI-RS resources and ports for				
up to 4 mixed codebook combinations in any slot. The following are the possible				
mixed codebook combinations {Codebook1, Codebook2, Codebook3}:				
<ul> <li>type1SP-feType2PS-null-r17 indicates {Type 1 Single Panel, FeType II PS M=1, NULL}</li> </ul>				
<ul> <li>type1SP-feType2PS-M2R1-null-r17 indicates {Type 1 Single Panel, FeType II PS M=2 R=1, NULL}</li> </ul>				
<ul> <li>type1SP-feType2PS-M2R2-null-r17 indicates {Type 1 Single Panel, FeType II PS M=2 R=2, NULL}</li> </ul>				
<ul> <li>type1SP-Type2-feType2-PS-M1-r17 indicates {Type 1 Single Panel, Type II, FeType II PS M=1}</li> </ul>				
<ul> <li>type1SP-Type2-feType2-PS-M2R1-r17 indicates {Type 1 Single Panel, Type II, FeType II PS M=2 R=1}</li> </ul>				
<ul> <li>type1SP-eType2R1-feType2-PS-M1-r17 indicates {Type 1 Single Panel, eType II R=1, FeType II PS M=1}</li> </ul>				
<ul> <li>type1SP-eType2R1-teType2-PS-M2R1-r17 indicates {Type1 Single Panel, eType II R=1, FeType II PS M=2 R=1}</li> </ul>				
- type1MP-teType2PS-null-r17 indicates {Type 1 Multi Panel, FeType II PS M=1, NULL}				
- type1MP-feType2PS-M2R1-null-r17 indicates {Type 1 Multi Panel, FeType II PS M=2 R=1, NULL}				
<ul> <li>type IMP-reType2PS-M2R2-null-r17 indicates {Type 1 Multi Panel, FeType if PS M=2 R=2, NULL}</li> <li>type1MULT me2 foT me2 RS M1 r17 indicates (Type 1 Multi Panel, Type II)</li> </ul>				
<ul> <li>type IMP-Type2-reType2-reType2-reType I Multi Panel, Type II, FeType II PS M=1}</li> <li>type1MP Type2 foType2 PS M2P1 r17 indicates (Type 1 Multi Panel, Type II)</li> </ul>				
II, FeType II PS M=2 R=1}				
eType II R=1, FeType II PS M=1}				
eType II R=1, FeType II PS M=2 R=1}				
For each mixed codebook supported by the UE, <i>supportedCSI-RS-ResourceListAdd-r16</i> indicates the list of supported CSI-RS resources in a band by referring to <i>codebookVariantsList</i> . The following parameters are included in				
- maxNumberTxPortsPerResource indicates the maximum number of Tx				
<ul> <li>maxNumberResourcesPerBand indicates the maximum number of resources across all CCs in a hand combination with the minimum value</li> </ul>				
of 4.				
across all CCs in a band combination.				
The UE supporting this feature shall indicate the support of individual codebook types in the reported mixed codebook combination(s) among <i>fetype2basic-r17</i> , <i>etype2R1-r16</i> , <i>codebookParameters</i> ( <i>type1-singlePanel</i> , <i>type1-multiPanel</i> , <i>type2</i> ), <i>fetype2P1-r17</i> , <i>fetype2P2-r17</i> .				

codebookComboParameterMultiTRP-PerBC-r17	BC	No	N/A	N/A
Indicates the support of active CSI-RS resources and ports in the presence of multi-	_			-
TRP CSI.				
Indicates the support of active CSI-RS resources and ports for mixed codebook				
types in any slot. The UE reports supported active CSI-RS resources and ports for				
up to 4 mixed codebook combinations. The following are the possible mixed				
codebook combinations {Codebook1, Codebook2, Codebook3}:				
- <i>ICJT-Null-Null Indicates</i> (NCJT, NULL, NULL)				
- nCJTTSP-null-null indicates (NCJT+Type TSP for STRP, NOLL, NOLL)				
- nCIT-Type2PS-null-r16 indicates (NCIT, Type 2, Null)				
- nCJT-eType2R1-null-r16 indicates {NCJT, eType 2 with point selection, rulli}				
- $nCJT$ - $eTvpe2R2$ - $null$ - $r16$ indicates {NCJT, $eTvpe2$ with R=2, Null}				
- nCJT-eType2R1PS-null-r16 indicates {NCJT, eType 2 with R=1 and port				
selection, Null}				
<ul> <li>nCJT-eType2R2PS-null-r16 indicates {NCJT, eType 2 with R=2 and port</li> </ul>				
selection, Null}				
<ul> <li>nCJT-Type2-Type2PS-r16 indicates {NCJT, Type 2, Type 2 with port</li> </ul>				
selection}				
- nCJ11SP-Type2-null-r16 indicates {NCJ1+Type 1 SP for sTRP, Type 2,				
NUII}				
- nCJTTSP-Type2PS-null-rTo indicates {NCJT+Type TSP for STRP, Type 2 with part coloction. Null)				
$pO(15) = pC [T_1SP_P_O_1] = 0$				
with R=1 Null}				
- nCJT1SP-eTvpe2R2-null-r16 indicates {NCJT+Tvpe 1 SP for sTRP, eTvpe 2				
with R=2. Null}				
- nCJT1SP-eType2R1PS-null-r16 indicates {NCJT+Type 1 SP for sTRP,				
eType 2 with R=1 and port selection, Null}				
<ul> <li>nCJT1SP-eType2R2PS-null-r16 indicates {NCJT+Type 1 SP for sTRP,</li> </ul>				
eType 2 with R=2 and port selection, Null}				
<ul> <li>nCJT1SP-Type2-Type2PS-r16 indicates {NCJT+Type 1 SP for sTRP, Type</li> </ul>				
2, Type 2 with port selection}				
- nCJT-feType2PS-null-r17 indicates {NCJT, FeType II PS M=1, NULL}				
- nCJT-reType2PS-M2R1-null-r17 indicates {NCJT, FeType ITPS M=2 R=1,				
NULL}				
NITE IS $N = 2 N $				
- nC/IT-Type2-feType2-PS-M1-r17 indicates {NC/IT_Type II_FeType II_PS				
M=1				
- nCJT-Type2-feType2-PS-M2R1-r17 indicates {NCJT, Type II, FeType II PS				
M=2 R=1}				
- nCJT-eType2R1-feType2-PS-M1-r17 indicates {NCJT, eType II R=1,				
FeType II PS M=1}				
<ul> <li>nCJT-eType2R1-feType2-PS-M2R1-r17 indicates {NCJT, eType II R=1,</li> </ul>				
- nCJTTSP-reType2PS-null-r17 Indicates {NCJT+Type1 SP for STRP, FeType				
II FO IVIEI, INULL) - nC IT1SP-feTune2PS-M2R1-null-r17 indicates (NIC IT+Tune 1 SD for aTPD				
= 1001101 + 1019 + 21021(1+100) + 1711000 + 10000 + 1990 + 3110131(1, 1) = 10000 + 100000 + 10000 + 100000 + 100000 + 10000 + 1000000 + 1000000 + 1000000 + 100000 + 10000000 + 10000000 + 1000000 + 100000000				
- nC/T1SP-feType2PS-M2R2-null-r17 indicates {NC/T+Type 1 SP for sTRP				
FeTvpe II PS M=2 R=2. NULL}				
- <i>nCJT1SP-Type2-feType2-PS-M1-r17</i> indicates {NCJT+Type 1 SP for sTRP,				
Type II, FeType II PS M=1}				
<ul> <li>nCJT1SP-Type2-feType2-PS-M2R1-r17 indicates {NCJT+Type 1 SP for</li> </ul>				
sTRP, Type II, FeType II PS M=2 R=1}				
- nCJT1SP-eType2R1-feType2-PS-M1-r17 indicates {NCJT+Type 1 SP for				
STRP, eType II R=1, FeType II PS M=1}				
- IIUJITSP-eTypeZKT-IETypeZ-PS-INZKT-ITT INDICATES (NUJI+Type 1 SP for sTPR, aType II P=1, EaType II PS M=2 P=1)				
51 RF, E1 YPE 11 R=1, FE1 YPE 11 P3 M=2 R=1}				
For each mixed codebook supported by the LIF supported CSI-RS-				
ResourceListAdd-r16 indicates the list of supported CSI-RS resources in a band by				
referring to codebook Variants List. The following parameters are included in				
codebookVariantsList.				
- maxNumberTxPortsPerResource indicates the maximum number of Tx				
ports in a resource of a band combination.				

-	<i>maxNumberResourcesPerBand</i> indicates the maximum number of resources across all CCs in a band combination. <i>totalNumberTxPortsPerBand</i> indicates the total number of Tx ports across all CCs in a band combination.				
NOTE 1:	A CMR pair configured for NCJT will be counted as two activated resources, a CMR configured for sTRP will be counted as one activated resource for a triplet				
NOTE2:	his capability is relevant only when UE is configured with NCJT CSI in at least one CSI report setting in at least one CC in the band and/or band combination.				
The UE ir CSI-Enha	dicating support of this feature shall also indicate the support of <i>mTRP-</i> <i>ncementPerBand-r17</i> .				
crossCar	rierA-CSI-trigDiffSCS-r16	BC	No	N/A	N/A
Indicates aperiodic different c of PDCCF SCS indic lower SCS this featur feedback	the UE support of handling cross-carrier aperiodic CSI report with CSI-RS where triggering PDCCH and triggered CSI-RS resource are on cells with different SCS. Value <i>higherA-CSI-SCS</i> indicates the UE support I cell of lower SCS and CSI RS cell of higher SCS and value <i>lowerA-CSI</i> - cates the UE support of PDCCH cell of higher SCS and CSI RS cell of S, and value <i>both</i> indicates the support of both variations. A UE supporting re shall also indicate support of CSI-RS and CSI-IM reception for CSI using <i>csi-RS-IM-ReceptionForFeedback</i>				
crossCar	rierSchedulingDefaultOCI -r16	BC	No	Ν/Δ	Ν/Δ
Indicates default QC numerolog crossCarr Value diff	whether the UE can be configured with <i>enabledDefaultBeamForCCS</i> for CL assumption for cross-carrier scheduling for same/different gies. A UE supporting this feature shall either indicate support of <i>ierScheduling-SameSCS</i> or <i>crossCarrierSchedulingDL-DiffSCS-r16</i> .				
Value bot	<i>h</i> indicates UE supports this feature for same SCS and for different SCS				
crossCar	rierSchedulingDl -DiffSCS-r16	BC	No	Ν/Δ	Ν/Δ
Indicates with carrie the sched	the UE supports cross carrier scheduling for the different numerologies or indicator field (CIF) in DL carrier aggregation where numerologies for uling CC and scheduled CC are different.	ЪС			
Value <i>low</i> CC of hig Value <i>hig</i>	<i>to-high</i> indicates UE supports scheduling CC of lower SCS to scheduled her SCS; <i>h-to-low</i> indicates UE supports scheduling CC of higher SCS to scheduled				
Value bot CC of high SCS.	er SCS; <i>h</i> indicates UE supports both scheduling CC of lower SCS to scheduled her SCS and scheduling CC of higher SCS to scheduled CC of lower				
NOTE 1:	<ul> <li>Following components are applicable to cross carrier scheduling from lower SCS to higher SCS when the UE reports this feature:</li> <li>Processing one unicast DCI scheduling DL per scheduling CC slot per scheduled CC for FDD scheduling DL per scheduling CC slot</li> <li>Processing one unicast DCI scheduling DL per scheduling CC slot</li> </ul>				
NOTE 2:	<ul> <li>Following components are applicable to cross carrier scheduling from higher SCS to lower SCS when the UE reports this feature:</li> <li>Processing one unicast DCI scheduling DL per N consecutive scheduling CC slot per scheduled CC for FDD scheduling CC</li> <li>Processing one unicast DCI scheduling DL per N consecutive scheduling CC slot per scheduled CC for TDD scheduling CC</li> <li>Processing one unicast DCI scheduling DL per N consecutive scheduling CC slot per scheduled CC for TDD scheduling CC</li> <li>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)</li> </ul>				

crossCarrierSchedulingSCell-SpCellTypeB-r17	BC	No	N/A	FR1
Indicates whether the UE supports cross-carrier scheduling from SCell configured				only
with cross-carrier scheduling to PCell/PSCell (sSCell) to PCell/PSCell				
(Type B). This capability signalling comprises the following parameters:				
- supportedSCS-Combinations-r17 indicates which {PCell/PSCell SCS in kHz,				
sSCell SCS in kHz} combinations are supported. For {PCell/PSCell SCS in				
kHz. sSCell SCS in kHz} combinations = {(30,30), (30, 60), (60,60)}, the				
capability also indicates the band pair(s) that are supported. The band-pair is				
encoded as a bitmap with size $1 * (1 - 1) / 2$ and bit N (leftmost bit is				
indexed as hit $\Omega$ is set to "1" if the LIF supports cross-carrier scheduling from				
Scell to PCell/PSCell for the hand pair $(x, y)$ where L is the number of hand				
entries in the band combination x and y are the indices of the band entry in				
the band combination (the first band entry is indexed as 0), $x < y$ and $N =$				
the band combination (the first band entry is indexed as 0), $x < y$ , and $N = x^{*}(2^{*})$				
X (2 L - X - 1)/2 + y - X - 1.				
- Soceil USS sel(s) (101 CUS from soceil to Puell/PSUell) and search space				
sets on PCell/PSCell can be conligured so that the DE monitors them in				
overlapping slot of PCell/PSCell and SSCell.				
- Configuration of scaling factor a for BD and CCE limit handling and PDCCH				
overbooking handling on P(S)Cell				
- The number of unicast DCI limits for PCell/PSCell scheduling				
<ul> <li>Processing K1 unicast DCI scheduling DL on PCell/PSCell per</li> </ul>				
PCell/PSCell slot and its aligned N consecutive sSCell slot(s)				
<ul> <li>Processing K2 unicast DCI scheduling UL on PCell/PSCell per</li> </ul>				
PCell/PSCell slot and its aligned N consecutive sSCell slot(s)				
<ul> <li>N is based on pair of (PCell/PSCell SCS, sSCell SCS): N=1 for (15,15),</li> </ul>				
(30,30), (60,60) and N=2 for (15,30), (30,60) and N=4 for (15, 60)				
<ul> <li>(K1, K2) = {(1,1) for FDD P(S)Cell; (K1, K2) = (1,2) for TDD P(S)Cell}</li> </ul>				
<ul> <li>Same numerology between sSCell and P(S)Cell or sSCell SCS is larger than</li> </ul>				
P(S)Cell SCS.				
- USS set(s) for DCI format 0_1,1_1 configured on sSCell for CCS from sSCell				
to PCell/PSCell and USS set(s) for DCI format 0_2,1_2 configured on sSCell				
for CCS from sSCell to PCell/PSCell if UE supports dci-Format1-2And0-2-				
r16				
<ul> <li>pdcch-MonitoringOccasion-r17 indicates the PDCCH monitoring occasion(s)</li> </ul>				
on sSCell for cross-carrier scheduling to Pcell/PSCell. There are 2 values				
{val1, val2} where val1 = within the first 3 OFDM symbols of sSCell slot				
overlapping with the first 3 OEDM symbols of PCell/PSCell slot and val2 =				
within the first 3 OFDM symbols of any sSCell slot overlapping with a				
PCell/PSCell slot				
<ul> <li>Frame boundary alignment between PCell/PSCell and sSCell</li> </ul>				
NOTE 1: A UE supporting this EG does not imply that the UE can be configured				
with sSCell in shared channel access spectrum				
NOTE 2. The CCS from sSCell to PCell is applicable to FR1 only but there can be				
other SCells in FR2 configured for the LIF				
NOTE 3: Parameters in CSI-MeasConfig of P(S)Cell and sSCell are configured				
such that combination of P(S)Cell and sCCell configurations does not				
result in exceeding any of the LIF's canabilities for A-/SP-CSI reporting				
on PLISCH on P(S)Cell				

cross-carrier's checkling/sCell-SpCell/typeA-f17       BC       No       NA       FR1         indicates where the UE supports cross-carrier scheduling from SCell configured with cross-carrier scheduling to PCell/PSCell (SCell) to PCell/PSCell SCS in kHz, spce restrictions (Type A). This capability signaling comprises the following parameters:       Supported/SCS-Combinations-r17 indicates which (PCell/PSCell SCS in kHz, sSCell SCS in kHz, sSCell SCS in kHz (combinations are supported. The branch pairs) with the companies are supported. The branch pairs is companies are supported. The branch pairs is companies are supported. The branch pairs is companies are bit 0 is set of '1' file UE supports cross-carrier scheduling from SCell to PCell/PSCell To band pair (x, y), where L is the number of band entry in the band combination, xnd yr are the indices of the band entry in the band combination, xnd yr are the indices of the band entry in the band combination, xnd yr are the indices of the band entry in the band combination (xnd yr are the indices of the band entry in the band combination (xnd yr are the indices of the band entry in the band combination (xnd yr are the indices of the band entry in the band combination (xnd yr are the indices of the band entry in the band combination (xnd yr are the indices of the band entry in the band combination (xnd yr are the indices of the band entry in the band combination (xnd yr are the indices of the band entry in the band combination (xnd yr are the indices of the band entry in the band pairs) that are supported.         • V2ClarPSCell and ObClar Band CCE limit bandling and PDCCH         • Configuration of scaling factor or 0F Dand CCE limit bandling and PDCCH         • vertices and the single N consecutive sSCell stot(s).         • Procell/PSCell stot and its aligned N c					
Indicates whether the UE supports cross-carrier scheduling from SCell configured with cross-carrier scheduling to PCell/PSCell (SSC) in VE2 (SSC) in	crossCarrierSchedulingSCell-SpCellTypeA-r17	BC	No	N/A	FR1
<ul> <li>with cross-carrier scheduling to PCell/PSCell (SCell) to PCell/PSCell with search space restrictions (Type A). This capability signaling comprises the following parameters:</li> <li>supportedSCS-Combinations-r17 indicates which (PCell/PSCell SCS in KHz, SCell SCS in KHz) combinations are supported. For (PCell/PSCell SCS in KHz) combinations are supported. For (PCell/PSCell SCS in KHz) combinations are supported. For (PCell/PSCell The band-pair is encoded as a bitmap with size 1 · 1 · 1 / 2, and bit N (leftmost bit is in indexed as bitmap with size 1 · 1 · 1 / 2, and bit N (leftmost bit is indexed as bitmap with size 1 · 1 · 1 / 2, and bit N (leftmost bit is indexed as bitmap with size 1 · 1 · 1 / 2, and bit N (leftmost bit is indexed as bitmap with size 1 · 1 · 1 / 2, and bit N (leftmost bit is indexed as bitmap with size 1 · 1 · 1 / 2, and bit N (leftmost bit is indexed as bitmap with is indexed as 0, x &lt; y, and N = Scell PSCell PSCell is an only be configured such that UE does not monitor them in overlapping slot of PCell/PSCell and slot (PSCell) and following search space sets on PCell/PSCell and only be configured such that UE does not monitor them in overlapping slot of PCell/PSCell slot and is aligned N consecutive sSCell slot scheduling:</li> <li>USS sets for DCI formats 0, 1, 1, 0, 2, 1, 2.</li> <li>USS sets for DCI formats 0, 1, 1, 0, 2, 1, 2.</li> <li>USS sets for DCI formats 0, 1, 1, 0, 2, 1, 2.</li> <li>USS sets for DCI formats 0, 1, 1, 0, 2, 1, 2.</li> <li>USS sets for DCI formats 0, 1, 1, 0, 2, 1, 2.</li> <li>USS sets for DCI formats 0, 1, 1, 0, 2, 1, 2.</li> <li>USS sets for DCI formats 0, 1, 1, 0, 2, 1, 2.</li> <li>USS sets for DCI formats 0, 1, 1, 1, 0, 2, 1, 2.</li> <li>USS sets for DCI formats 0, 1, 1, 1, 0, 2, 1, 2.</li> <li>USS sets for DCI formats 0, 1, 1, 1, 0, 2, 1, 2.</li> <li>USS sets for DCI formats 0, 2, 3, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2,</li></ul>	Indicates whether the UE supports cross-carrier scheduling from SCell configured				only
<ul> <li>space restrictions (Type A). This capability signalling comprises the following parameters:</li> <li>supported/SCS-combinations are supported. For (PCeIIPSCeII SCS in KHz, sSCeII SCS in KHz) combinations are supported. The DecIIPSCeII SCS in KHz, sSCeII SCS in KHz) combinations are supported. The DecIIPSCeII SCS in KHz is the band pair (b) that are supported. The Dan-Pair is encoded as a bit may with size 1 * (L - 1)/2, and bit N (lettmost bit is indexed as bit 0) is set of "1 if the UE supports cross-carrier scheduling from SCeII to PCeIIPSCeII for band pair (x, y), where L is the number of band entry in the band combination, x and y are the indices of the band entry in the band combination (x and y are the indices of the band entry in the band combination, x and y are the indices of the band entry in the band combination, x and y are the indices of the band entry in the band combination (x and y are the indices of the band entry in the band combination (x and y are the indices of the band entry in the band combination (x and y are the indices of the band entry in the band combination (x and y are the indices of the band entry in the band combination (x and y are the indices of the band entry in the band combination (x and y are the indices of the band entry in the band combination are to 1, 1, 1, 0, 2, 1, 2.</li> <li>USS sets to DCI tormats 0, 1, 1, 1, 0, 2, 1, 2.</li> <li>USS sets to DCI tormats 0, 1, 1, 1, 0, 2, 1, 2.</li> <li>USS sets to DCI tormats 0, 1, 1, 1, 0, 2, 1, 2.</li> <li>USS sets to DCI tormats 0, 1, 1, 1, 0, 2, 1, 2.</li> <li>USS sets to DCI tormats 0, 1, 1, 0, 2, 1, 2.</li> <li>USS sets to DCI tormats 0, 1, 1, 0, 2, 1, 2.</li> <li>USS sets (T) DCI tormats 0, 1, 1, 1, 0, 2, 1, 2.</li> <li>USS sets (T) DCI tormats 0, 1, 1, 1, 0, 2, 1, 2.</li> <li>USS sets (T) PCIPSCEII ScS, SCEII ScCS is List(C); C. Crifturas DCI scheduling U on PCIPSCEII processing K1 unicas DCI scheduling U on PCIPIPSCEII processing K1 unicas DCI scheduling U on PCIPIPSCEII</li></ul>	with cross-carrier scheduling to PCell/PSCell (sSCell) to PCell/PSCell with search				
<ul> <li>parameters:</li> <li>supported/SCS-Combinations are supported. For (PCell/PSCell SCS in KHz, SCell SCS in KHz) combinations are supported. For (PCell/PSCell SCS in KHz) combinations are supported. The band-pair is encoded as a bitmap with size L<sup>+</sup> (1 - 1)/2, and bit N (elfmost bit is in indexed as bit to '1' if the UE supports cross-carrier scheduling from SCell IPCell/PSCell To shart (b) is set to '1' if the UE supports cross-carrier scheduling from SCell IPCell/PSCell on antibiated as a bitmap with size L<sup>+</sup> (1 - 1)/2, and bit N (elfmost bit is in indexed as bitmap with size L<sup>+</sup> (1 - 1)/2, and bit N (elfmost bit is and combination, x and y are the indices of the band entry in the band combination, x and y are the indices of the band entry in the band combination, stand y are the indices of the band entry in the band combination incs: SCell USS set(s) (for CCS from sSCell to PCell/PSCell and sSCell - 2000 and - 200</li></ul>	space restrictions (Type A). This capability signalling comprises the following				
<ul> <li>supported/SCS-combinations are supported. For (PocIIPSCeII SCS in kHz, SCeII SCS in kHz) combinations are supported. The (PocIIPSCeII SCS in kHz) combinations are (30.30), (30.60), (60.60)), the capability also indicates the band paricy that are supported. The band-pari is encoded as a bit on is set to 1' if the UE supports cross-carrier scheduling from SceII to PCeI/PSCeII for hard pari (x, y), where L is the number of band entry in the band combination, and y are the indices of the band entry in the band combination, and y are the indices of the band entry in the band combination (and y) are the indices of the band entry in the band combination (and y) are the indices of the band entry in the band combination (and y) are the indices of the band entry in the band combination (and y) are the indices of the band entry in the band combination (and y) are the indices of the band entry in the band combination (and y) are the indices of the band entry in the band combination (and y) are the indices of the band entry in the band combination (and y) are the indices of the band entry in the band combination (and y) are the indices of the band entry in the band combination (and y) are the indices of the band entry in the band combination (and y) are the indices of the band (and y).</li> <li>Search space restrictions: SSCeII USS set(I) (Gr CCS from SCeII to CEI/PSCeII and SCeII: Contrast 0.1.1.1.0.2.1.2.</li> <li>USS sets for DCI formats 0.1.1.1.0.2.1.2.</li> <li>USS sets for DCI formats 0.1.1.1.0.2.1.2.</li> <li>USS sets for DCI formats 0.0.1.0.1.0.1.1.1.0.2.1.2.</li> <li>USS sets for DCI formats 0.0.1.0.1.1.1.0.2.1.2.</li> <li>USS sets for DCI formats 0.0.1.0.1.1.1.0.2.1.2.</li> <li>USS sets for DCI formats 0.0.1.0.1.1.1.0.2.1.2.</li> <li>USS sets for DCI formats 0.0.1.1.1.0.2.1.2.</li> <li>Proceil/PSCeII and this aligned N consecutive sSCeII stock (s).</li> <li>Proceil/PSCeII and the aligned N consecutive sSCeII stock (s).</li> <li>Proceil/PSCeII and the aligned</li></ul>	parameters:				
<ul> <li>SC/ell SCS in LH2) combinations are supported. For (PCell/PSCell SCS in LH2) combinations (03.09, 00.09, (66.09)), the capability also indicates the band pair(s) that are supported. The band-pair is encoded as a bitmap with size L '(L = 1) / 2, and bit N (lettmost bit is indicates the band combination, x and bit N (lettmost bit is and combination, x and bit N (lettmost bit is and combination, x and bit N (lettmost of the band entry in the band combination, x and y are the indicates of the band entry in the band combination, x and y are the indices of the band entry in the band combination, x and y are the indices of the band entry in the band combination, x and y are the indices of the band entry in the band combination is a science of the band entry in the band combination is a science of the band entry in the band combination is a science of the band entry in the band combination is a science of the band entry in the band combination is a science of the band entry in the band combination is a science of the band entry in the band combination is a science of the band entry in the band entry is indicated by the combination is a science of the band entry in the band entry in the band entry is indicated by the combination is a science of the band entry in the band entry in the band entry is indicated by the combination is a science of the band entry is indicated by the combination is a science of the band entry in the band entry is the science of the band entry in the ba</li></ul>	supportedSCS-Combinations-r17 indicates which {PCell/PSCell SCS in kHz				
<ul> <li>Social SCS in KHz combinations are (30,30), (30, 60), (60,00), the capability also indicates the band pair(s) that are supported. The band-pair is encoded as a bitmay with size 1: (1 - (1 / 2, and bit N (leftmost bit is indexed as bit to for band pair(s), that are supported. The band-pair is encoded as a bitmay with size 1: (1 - (1 / 2, and bit N (leftmost bit is indexed as bit to for band pair(s), where L is the number of band entry in the band combination, x and y are the indices of the band entry in the band combination, x and y are the indices of the band entry in the band combination, x and y are the indices of the band entry in the band combination. Sociel USS sets on PCeIIPSCeII and N = X (2L - X - 1)2 + y - X - 1.</li> <li>Search space restrictions: sSCeII USS set(s) (for CCS from sSCeII to PCeIIPSCeII and bit UE does not monitor them in overlapping slot of PCeIIPSCeII and sSCeII.</li> <li>USS sets for DCI formats 0, 0, 1, 0.</li> <li>Type-CSS set(s) for DCI formats 1_00_0 with C-RNTI/CS-RNTI/MCS-CG-RNTI.</li> <li>Configuration of scaling factor for BD and CCE limit handling and PDCCH overboking handling on P(S)CeII</li> <li>The mather of unicat DCI indicating DL on PCeIIPSCeII per PCeIIPSCeI is charduling:</li> <li>Problemst of unicat DCI indicating DL on PCeIIPSCeII per PCeIIPSCE is lot and its aligned N inoscitute sSCeII lod(s);</li> <li>Problemst of unicat DCI indications (SG) and N=4 for (15, 16);</li> <li>(30, 30), (6, 60) and N=2 for (15, 30), (30, 80) and N=4 for (15, 60);</li> <li>(K1, K2) = ((1, 1) for FDD P(S)CeII in SS SceII SCS) is larger than (SCEII N = SCeII I CCS Form sSCeII to PCeIIPSCeII and PCIIPSCeII and SCeII in PCIIPSCeII is charduling).</li> <li>MC1, (K1, (K2) = (1, 2) to FDD P(S)CeII in SS SceII SCS is larger than (SCEII SS SceII and PS) and N=2 for (15, 50);</li> <li>(K1, K2) = (K1, K2) = (K2) in TDD P(S)CeII in SCEII SCS SceII in To (SCEII SS SceII SCE) is larger than (SCEII SS SceII and PS)CeII and SCeII in TCCS from sSC</li></ul>	scool SCS in kHz, combinations are supported for (PColl/PSColl SCS in kHz,				
<ul> <li>NH2, SSUERISCH, NR22 Combinations 4 (30,30), (30, 60), (60,50), the capability also indicates the band pair (s) that are supported. The band-pair is encoded as a bit 0) is set to "1" if the Usupports cross-carrier scheduling from SCell to PCell/PSCell for band pair (x, y), where L is the number of band entry in the band combination, x and y are the indices of the band entry in the band combination, x and y are the indices of the band entry in the band combination. Yand y are the indices of the band entry in the band combination, x and y are the indices of the band entry in the band combination. Yand y are the indices of the band entry in the band combination (the first band entry is indexed as 0), x &lt; y, and N = X'(2'', - X + 1/2 + Y + - 1.</li> <li>Search space restrictions: SCell USS set(s) (for CCS from SCell to PCell/PSCell and SCell:</li> <li>USS sets for DCI formats 0, 1, 1, 10, 2, 1, 2.</li> <li>USS sets for DCI formats 0, 1, 0, 1, 0.</li> <li>Type3-CSS set(s) for DCI formats 1_0/0, 0 with C-RNTI/CS-RNTI/MCS-C-RNTI.</li> <li>Configuration of scaling factor a for BD and CCE limit handling and PDCCH overbooking handling on P(S)Cell.</li> <li>The number of unicast DCI scheduling DL on PCell/PSCell per PCell/PSCell stot and its aligned N consecutive SCell Slot(s).</li> <li>Procesning K1 unicast DCI scheduling DL on PCell/PSCell per PCell/PSCell stot and its aligned N consecutive SCell Slot(s).</li> <li>N is based on pair of (PCell/PSCell SCS). SCell SCI is regrer than P(S)Cell SC.</li> <li>USS set(s) for DCI format 0_1, 1_1 configured on SCell SC is larger than P(S)Cell SC.</li> <li>USS set(s) for DCI format 0_1, 1_1 configured on SCell SC is larger than P(S)Cell SCS.</li> <li>USS set(s) for DCI format 0_1, 1_1 configured on SCell SC is larger than P(S)Cell SC.</li> <li>USS set(s) for DCI format 0_2, 1_1_1 configured on SCell SC is larger than P(S)Cell SC.</li> <li>USS set(s) for DCI format 0_2, 1_1_1 configured on SCell SC is larger than P(S)C</li></ul>	social score in the combinations are supported. For (FOCE) (00,00) the				
<ul> <li>capability also indicates the band part(s) that are supported. The band-pair is encoded as a bitmap with size 1. <sup>1</sup> (<i>L</i> - 1) (<i>L</i>, and bit N (letimots bit is indexed as bit o) is set to "1" if the UE supports cross-carrier scheduling from SCeII toPCeII/PSCeII for band pair (<i>V</i>, y), where L is the number of band entry in the band combination, x and y are the indices of the band entry in the band combination (the first band entry is indexed as 0), x &lt; y, and N = X*(2*L - x - 1)2 + y - x - 1.</li> <li>Search space restrictions: sSCeII USS set(s) (for CCS from sSCeII to PCeII/PSCeII and sSCeII:</li> <li>Case and space restrictions: sSCeII USS set(s) (for CCS from sSCeII to PCeII/PSCeII and sSCeII:</li> <li>USS sets for DCI formats 0, 1, 1. 0. 2, 1. 2.</li> <li>USS sets for DCI formats 0, 1, 1. 1. 0, 2, 1. 2.</li> <li>USS sets for DCI formats 0, 0, 1. 0.</li> <li>Typea-CSS set(s) for DCI formats 1, 0/0_0 with C-RNTI/CS-RNTI/MCS-C-RNTI.</li> <li>Configuration of scaling factor a for BD and CCE limit handling and PDCCH overbooking handling on P(S)CeII.</li> <li>The number of unicast DCI limits for PCeII/PSCeII scheduling:</li> <li>Processing K1 unicast DCI scheduling U on PCeII/PSCeII per PCeII/PSCeII scheduling.</li> <li>Processing K2 unicast DCI scheduling U on PCeII/PSCeII per PCeII/PSCeII scheduling U on PCeII/PSCeII per PCeII/PSCeII scheduling U on SCeII for (15, 15), (30, 30), (06, 60) and ha-2 for (15, 50), (30, 30), (06, 60) and ha-2 for (15, 50), (30, 60</li></ul>	$kHz$ , sSCell SCS in $kHz$ } combinations = {(30,30), (30, 60), (60,60)}, the				
<ul> <li>encoded as a bit map with size L* (L – 1) / 2, and bit N (leftmost bit is indexed as bit 0) is set 0*1* if the Usuports cross-carrier scheduling from SCell toPCell/PSCell for band pair (x, y), where L is the number of band entry in the band combination, x and y are the indices of the band entry is in the band combination. X and y are the indices of the band entry is in the band combination. Sciell USS set(s) (for CCS from SSCell to PCell/PSCell and SCell: + -1/2 + y - x - 1.</li> <li>Search space restrictions: SCell USS set(s) (for CCS from SSCell to PCell/PSCell and SCell:</li></ul>	capability also indicates the band pair(s) that are supported. The band-pair is				
<ul> <li>indexed as bit 0) is set to "1" if the UE supports cross-carrier scheduling from SCell toPCell/PSCell for band pair (x, y), where L is the number of band entries in the band combination, x and y are the indices of the band entry in the band combination (the first band entry is indexed as 0), x &lt; y, and N = x'(2'L - x - 1/2 + y - x - 1.</li> <li>Search space restrictions: sSCell USS set(s) (for CCS from sSCell to PCell/PSCell) and following search space sets on PCell/PSCell can only be configured such that UE does not monitor them in overlapping slot of PCell/PSCell and sSCell:</li> <li>USS sets for DCI formats 0, 1, 1, 0, 2, 1, 2.</li> <li>USS sets for DCI formats 0, 1, 1, 0, 2, 1, 2.</li> <li>USS sets for DCI formats 0, 0, 1, 0.</li> <li>Type3-CSS set(s) for DCI formats 1, 0/0_0 with C-RNTI/CS-RNTI/MCS- C-RNTI.</li> <li>Configuration of scaling factor of ror BD and CCE limit handling and PDCCH overbooking handling on P(S)Cell.</li> <li>The number of unicast DCI limits for PCell/PSCell scheduling;</li> <li>Processing K1 unicast DCI scheduling UL on PCell/PSCell per PCell/PSCell slot and its aligned N consecutive sSCell sch(s).</li> <li>Processing K2 unicast DCI scheduling UL on PCell/PSCell per PCell/PSCell slot and its aligned N consecutive sSCell sch(s).</li> <li>N is based on pair of (PCell/PSCell iSCS) sSCell SCS): N=1 for (15, 15), (30, 30), (6, 60) and N=2 for (15, 30), (30, 60) and N=4 for (15, 60), (30, 40, (14, K2) = (11, 1) for DD P(S)Cell or SSCell SCS is larger than P(S)Cell SCS.</li> <li>USS set(s) for DCI form sSCell in DCS if nerget CS is set(s) for CS from sSCell to PCell/PSCell and USS set(s) for DCI form sCC 2, 1, 2 configured on sSCell to PCS from sSCell in D PCell/PSCell in DSCell in DCI formati 2, 40, 40, 41, 42, 41, 41, 41, 41, 41, 41, 41, 41, 41, 41</li></ul>	encoded as a bitmap with size L * $(L - 1) / 2$ , and bit N (leftmost bit is				
<ul> <li>SCell toPCell/PSCell for band pair (x, y), where L is the number of band entry in the band combination, and y are the indices of the band entry in the band combination. And y are the indices of the band entry in the band combination, and y are the indices of the band entry in the band combination. And y are the indices of the band entry in the band combination. And y are the indices of the band entry in the band combination. And y are the indices of the band entry in the band combination. And y are the indices of the band entry in the band combination of the provide the space sets on PCell/PSCell can only be configured such that UE does not monitor them in overlapping slot of PCell/PSCell is of SCell.</li> <li>USS sets for DCI formats 0_1,1_10_2,1_2.</li> <li>USS sets for DCI formats 0_1,0_0_0 with C-RNTI/CS-RNTI/MCS-CC-RNTI.</li> <li>Configuration of scaling factor a for BD and CCE limit handling and PDCCH overbooking handling on P(S)Cell.</li> <li>The number of unicast DCI limits for PCell/PSCell scheduling:</li> <li>Processing K1 unicast DCI scheduling DL on PCell/PSCell socks(s).</li> <li>Processing K2 unicast DCI scheduling UL on PCell/PSCell socks(s).</li> <li>N is based on pair of (PCell/PSCell SCS, SSCell SCS): N=1 for (15, 60).</li> <li>(K1, K2) = (1,1) for FDD P(S)Cell (K1, K2) = (1,2) for TDD P(S)Cell).</li> <li>Same numerology between sSCell and N=4 for (15, 60).</li> <li>(K1, K2) = (1,1) for FDD P(S)Cell (K1, K2) = (1,2) for TDD P(S)Cell).</li> <li>Same numerology between sSCell in OCI format 0_1, 1_1 configured on sSCell for CCS from sSCell to PCell/PSCell and USS set(s) for DCI format 0_1, 1_1 configured on sSCell for CCS from sSCell to PCell/PSCell and TSpe 0/0A/1/2 CSS sets on PCell/PSCell and TSP e0/0A/1/2 CSS sets on PCell/PSCell and TSP e0/0A/1/2 CSS sets on PCell/PSCell and SCell on the Cell/PSCell and TSP e0/0A/1/2 CSS sets on PCell/PSCell and SCell in or scheduling to n sSCell for CCS from sSCell to PCell/PSCell and SCell in the fir</li></ul>	indexed as bit 0) is set to "1" if the UE supports cross-carrier scheduling from				
<ul> <li>entries in the band combination, x and y are the indices of the band entry in the band combination (the first band entry is indexed as 0), x &lt; y, and N = x'(2'L - x - 1)/2 + y - x - 1.</li> <li>Search space restrictions: sSCell USS set(s) (for CCS from sSCell to PCell/PSCell) and following search space sets on PCell/PSCell can only be configured such that UE does not monitor them in overlapping slot of PCell/PSCell and SCell:</li> <li>USS sets for DCI formats 0_11_10_2.1_2.</li> <li>USS sets for DCI formats 0_11_10_2.1_2.</li> <li>USS sets for DCI formats 0_1.1_0.2_10</li> <li>Type3-CSS set(s) for DCI formats 1_0/0_0 with C-RNTVCS-RNTI/MCS-C-RNTI.</li> <li>Configuration of scaling factor a for BD and CCE limit handling and PDCCH overbooking handling on P(S)Cell.</li> <li>The number of unicast DCI limits for PCell/PSCell scheduling:</li> <li>Processing K1 unicast DCI should be consecutive sSCell solt(s).</li> <li>Processing K1 unicast DCI scheduling UL on PCell/PSCell per PCell/PSCell solt and its aligned N consecutive sSCell solt(s).</li> <li>N is based on pair of (PCell/PSCell SCS): SCell SCI: N=1 for (15.15), (30.30), (80.60) and M=2 for (15.30), (30.60) and N=4 for (15.60), (X1, X2) = ((1,1) for FDD P(S)Cell).</li> <li>Same numerology between sSCell and P(S)Cell or SC Sell SCI: N=1 for (15.15), (30.30), (80.60) and M=2 for (15.30), (30.60) and N=4 for (15.60), (X1, X2) = (10 format 0_1, 1_1 configured on sSCell for CCS from sSCell to PCell/PSCell and USS set(s) for DCI format 0_1, 2_1 2 configured on sSCell for PCell/PSCell and USS set(s) for DCI format 0_1, 2_1, 2_configured on SCell for PCell/PSCell and USS set(s) for PCS sets on PCS)Cell for CCS from sSCell to PCell/PSCell and USS set(s) for PCS sets on PCS)Cell for DCI formats with CPC scrambled by C-RNTI/MCS-C-RNTI'.</li> <li>Social and Type 0/0A/12 CSS sets on P(S)Cell for DCI formats with CPC scrambled by C-RNTI/MCS-C-RNTI'.</li> <li>social for cross-carrier scheduling to PCell/PSCell and SCell.</li> <li>no simultaneous monitoring between '</li></ul>	SCell to PCell/PSCell for band pair $(x, y)$ , where L is the number of band				
<ul> <li>the band combination (the first band entry is indexed as 0), x &lt; y, and N = x'(2'L - x - 1)/2 + y - x - 1.</li> <li>Search space restrictions: sSCell USS set(s) (for CCS from sSCell to PCell/PSCell and tollowing search space sets on PCell/PSCell can only be configured such that UE does not monitor them in overlapping slot of PCell/PSCell and sSCell:</li> <li>USS sets for DCI formats 0_1_1_1_0_2_1_2.</li> <li>The number of unicast DCI limits for PCell/PSCell scheduling:</li> <li>Processing K1 unicast DCI scheduling DL on PCell/PSCell per PCell/PSCell stot and its aligned N consecutive sSCell slot(s).</li> <li>Processing K1 unicast DCI scheduling UL on PCell/PSCell per PCell/PSCell stot and its aligned N consecutive sSCell slot(s).</li> <li>No based on pair of (PCell/PSCell SCS, SCCI SCS): N=1 for (15, 15), (30, 30), (60, 60) and N=2 for (15, 30), (30, 60) and N=4 for (15, 60).</li> <li>(K1, K2) = ((1, 1) for PDD P(S)Cell (K1, K2) = (1, 2) for TDD P(S)Cell).</li> <li>Same numerology between sSCell and P(S)Cell or sSCell SCS is larger than P(S)Cell SCS.</li> <li>USS set(s) for DCI format 0_1_1_1 configured on sSCell SC from sSCell for CCS from sSCell to PCell/PSCell and USS set(s) for DCI format 0_1_2_1 configured on sSCell for CCS from sSCell for CCS from sSCell to PCell/PSCell and SSCell for CCS from sSCell to PCell/PSCell and SSCell for CCS from sSCell to PCell/PSCell and SSCell for DCI format 0_1_2_2_2_2_2_2_2_2_2_2_2_2_2_2_2_2_2_2_</li></ul>	entries in the band combination, x and y are the indices of the band entry in				
<ul> <li>x*(2*L - x - 1)(2 + y - x - 1)</li> <li>Search space restrictions: sSCell USS set(s) (for CCS from sSCell to PCell/PSCell and following search space sets on PCell/PSCell can only be configured such that UE does not monitor them in overlapping slot of PCell/PSCell and SCell:</li> <li>USS sets for DCI formats 0_1,1_10_2,1_2.</li> <li>USS sets for DCI formats 0_1,0_0.</li> <li>Type3-CSS set(s) for DCI formats 1_00_0 with C-RNTI/CS-RNTI/MCS- C-RNTI.</li> <li>Configuration of scaling factor o for BD and CCE limit handling and PDCCH overbooking handling on P(S)Cell.</li> <li>The number of unicast DCI limits for PCell/PSCell scheduling:</li> <li>Processing K1 unicast DCI stored by DCell/PSCell scheduling:</li> <li>Processing K1 unicast DCI scheduling L0 on PCell/PSCell per PCell/PSCell slot and its aligned N consecutive sSCell slot(s).</li> <li>N is based on pair of (PCell/PSCell SCS): SCHE (SCI): N=1 for (15.15), (30.30), (60.60) and N=2 for (15.30), (30.60) and N=4 for (15.60), (30.30), (60.60) and N=2 for (15.30), (30.60) and N=4 for (15.60), (30.30), (60.60) and N=2 for (15.30), (30.60) and N=4 for (15.60), (30.30), (60.60) and N=2 for (15.30), (30.60) and N=4 for (15.60), (30.30), (60.60) and N=2 for (15.30), (30.60) and N=4 for (15.60), (30.30), (60.60) and N=2 for (15.30), (30.60) and N=4 for (15.60), (30.30), (60.60) and N=2 for (15.30), (30.60) and N=4 for (15.60), (30.30), (60.60) and N=2 for (15.30), (30.60) and N=4 for (15.60), (30.30), (60.60) and N=2 for (15.30), (30.60) and N=4 for (15.60), (30.30), (60.60) and N=2 for (15.30), (30.60) and N=4 for (15.60), (30.30), (60.60) and N=2 for (15.30), (30.60) and N=4 for (15.60), (30.30), (60.60) and N=2 for (15.30), (30.60) and N=4 for (15.60), (30.30), (60.60) and N=2 for (15.30), (30.60) and N=4 for (15.60), (30.30), (60.60) and N=2 for (15.30), (30.60) and N=2 for (15.60), (30.30), (60.60) and N=2 for (15.30), (30.60) and N=4 for (15.60), (30.30), (60.60) and N=2 for (15.30), (30.60) and N=4 for (15.60), (30.</li></ul>	the band combination (the first band entry is indexed as 0) $x < y$ and N =				
<ul> <li>Search space restrictions: sSCell USS set(s) (for CCS from sSCell to PCell/PSCell and following search space sets on PCell/PSCell can only be configured such that UE does not monitor them in overlapping slot of PCell/PSCell and sSCell:</li> <li>USS sets for DCI formats 01.102.12.</li> <li>USS sets for DCI formats 00.10.</li> <li>Type3-CSS set(s) for DCI formats 10'/00 with C-RNTI/CS-RNTI/MCS- C-RNTI.</li> <li>Configuration of scaling factor a for BD and CCE limit handling and PDCCH overbooking handling on P(S)Cell.</li> <li>The number of unicast DCI isothed ling UL on PCell/PSCell per PCell/PSCell slot and its aligned N consecutive sSCell slot(s).</li> <li>Processing K1 unicast DCI scheduling UL on PCell/PSCell per PCell/PSCell slot and its aligned N consecutive sSCell slot(s).</li> <li>No is based on pair of (PCell/PSCell SCS). SCell SCS): N=1 for (15, 15), (30,30), (60,60) and N=2 for (15,30), (30,60) and N=4 for (15, 60).</li> <li>(K1, K2) = ((11, 10 frDD P(S)Cell): (K1, K2) = ((11, 10 frDD P(S)Cell): (K1, K2) = ((11, 10 frDD P(S)Cell).</li> <li>Same numerology between sSCell and P(S)Cell or sSCell SCS is larger than P(S)Cell SCS.</li> <li>USS set(s) for CCI form sCell if O FCB/PSCell and Type0/0A/1/2 CSS set(s) for DCI format 01, 1_ configured on sSCell for CCS from sSCell for CCS from sSCell to PCell/PSCell and SCell</li> <li>sSCell USS set(s) (for CCS sets on P(S)Cell and SCell</li> <li>no simultaneous monitoring between USS sets (for P(S)Cell and Type0/0A/1/2 CSS sets on PCell/PSCell and sSCell for DCI format 01, 2, 2 ontigured on sSCell for CCS from sSCell to PCell/PSCell and SCell</li> <li>no simultaneous monitoring between USS sets (for P(S)Cell SCH between) overlapping slot of PCell/PSCell and sSCell</li> <li>no simultaneous monitoring between USS sets (for P(S)Cell for DCI formats with CRC scrambled by C-RNTI/MCSC-RNTICS-RNTI</li> <li>gdcb-MonitoringOccasion-r17 indicates the PDCCH monitoring occasion(s) on</li></ul>	$y^*(2^*) = y = 1/2 + y = y = 1$				
<ul> <li>Search space results is Sociel OS set(s) (of CCS Iron Sociel to Configured such that UE does not monitor them in overlapping slot of PCell/PSCell and SSCell:</li> <li>USS sets for DCI formats 0_1,1_1,0_2,1_2.</li> <li>USS sets for DCI formats 0_1,0_1.0.</li> <li>Type3-CSS set(s) for DCI formats 1_0/0_0 with C-RNTI/CS-RNTI/MCS-C-RNTI.</li> <li>Configuration of scaling factor a for BD and CCE limit handling and PDCCH overbooking handling on P(S)Cell.</li> <li>The number of unicast DCI Imits for PCell/PSCell scheduling:         <ul> <li>Processing K1 unicast DCI scheduling DL on PCell/PSCell per PCell/PSCell store to an to saling factor a for SS.</li> <li>Processing K2 unicast DCI scheduling UL on PCell/PSCell Stores).</li> <li>Processing K2 unicast DCI scheduling UL on PCell/PSCell Stores).</li> <li>N is based on pair of (PCell/PSCell SCS, SSCell SCS): N=1 for (15,15), (30,30), (60,60) and N=2 for (15,30), (30,30) and N=4 for (15,50).</li> <li>(K1, K2) = (1,1) for FDD P(S)Cell; (K1, K2) = (1,2) for TDD P(S)Cell).</li> </ul> </li> <li>Same numerology between sSCell and P(S)Cell or sSCell for CCS from SSCell to PCell/PSCell is CS.</li> <li>USS set(s) for DCI format 0_1,1_1 configured on sSCell for CCS from SSCell to PCell/PSCell and USS set(s) for DCI format 0_2,1_2 configured on SCell for CCS from SSCell to PCell/PSCell and SSCell or PCI/PSCell and Type0/0A/12 CSS sets on P(S)Cell for DCI formats with CRC scrambled by C-RNTI/MCS-C-RNTICS-RNTI.</li> <li>n overlapping slot of PCell/PSCell and SSCell for DCI formats with CRC scrambled by C-RNTI/MCS-C-RNTICS-RNTI.</li> <li>pdcch-Monitoring/Occasion-r17 indicates the PDCCH monitoring occasion(s) on sSCell and Type 0/0A/12 CSS sets on P(S)Cell for DCI formats with CRC scrambled by C-RNTI/MCS-C-RNTICS-RNTI.</li> <li>pdccl-Monitoring/Cccasion of any sSCell slot overlapping with the first 3 OFDM symbols of any SSCell slot and val2 = within the first</li></ul>	$\lambda (2 - \lambda - 1)/2 + y - \lambda - 1$				
<ul> <li>PCell/PSCell and SCell:</li> <li>USS sets for DCI formats 0.1,1,1,0,2,1,2.</li> <li>USS sets for DCI formats 0.1,1,1,0,2,1,2.</li> <li>USS sets for DCI formats 0.0,1,0.</li> <li>Type3-CSS set(s) for DCI formats 1.0/0,0 with C-RNTI/CS-RNTI/MCS-C-RNTI.</li> <li>Configuration of scaling factor of or BD and CCE limit handling and PDCCH overbooking handling on P(S)Cell.</li> <li>The number of unicast DC Ischeduling Lo n PCell/PSCell per PCell/PSCell solt and its aligned N consecutive sSCell solt(s).</li> <li>Processing K1 unicast DC Ischeduling Lo n PCell/PSCell per PCell/PSCell solt and its aligned N consecutive sSCell solt(s).</li> <li>Ni based on pair of (PCell/PSCell SCH SCS): Net for (15,15), (30,30), (60,60) and N=2 tor (15,30), (30,60) and N=4 tor (15,60).</li> <li>(K1, K2) = ((1,1) for FDD P(S)Cell; K1, K2) = (1,2) for TDD P(S)Cell).</li> <li>Same numerology between sSCell and P(S)Cell or sSCell SC is larger than P(S)Cell and USS set(s) for DCI format 0_1,1_1 configured on sSCell for CCS from sSCell to PCell/PSCell and P(S)Cell and P(S)Cell and P(S)Cell and PCC).</li> <li>uSS set(s) for DCI format 0_1,1_1 configured on sSCell for CCS from sSCell for CCS from sSCell to PCell/PSCell and be configured so that the UE monitors them in overlapping slot of PCell/PSCell and be sCell.</li> <li>sSCell USS set(s) for CCS from sSCell to PCell/PSCell for DCI formats with CRC carambled by C-RNTI/MCS-C-RNTI'CS-RNTI'.</li> <li>simultaneous monitoring between USS sets (for P(S)Cell scheduling) on sSCell and Type 0/0A/1/2 CSS sets on P(S)Cell for DCI formats with CRC carambled by C-RNTI/MCS-C-RNTI'CS-RNTI'.</li> <li><i>pdcch-MonitoringOccasion-171</i> indicates the PDCCH monitoring occasion(s) on sSCell and Type 0/0A/1/2 CSS sets on P(S)Cell for DCI formats with CRC not scrambled by C-RNTI/MCS-C-RNTI'CS-RNTI'.</li> <li><i>pdcch-MonitoringOccasion-171</i> indicates the PDCCH monitoring occasion(s) on sSCell and Type 0/0A/1/2 CSS sets on P(S)Cell for DCI formats wit</li></ul>	- Search space restrictions: sSCell USS set(s) (for CCS from sSCell to				
<ul> <li>configured such that UE does not monitor them in overlapping slot of PCell/PSCell and sSCell:</li> <li>USS sets for DCI formats 0_1,1_1,0_2,1_2.</li> <li>USS sets for DCI formats 0_1,0_0 with C-RNTI/CS-RNTI/MCS-C-RNTI.</li> <li>Configuration of scaling factor o for BD and CCE limit handling and PDCCH overbooking handling on P(S)Cell.</li> <li>The number of unicast DCI limits for PCell/PSCell scheduling:</li> <li>Processing K1 unicast DCI scheduling DL on PCell/PSCell per PCell/PSCell stort and its aligned N consecutive sSCell slot(s).</li> <li>Processing K2 unicast DCI scheduling UL on PCell/PSCell slot(s).</li> <li>N is based on pair of (PCell/PSCell SCS Scell SCS): N-1 for (15,15), (30,30), (60,60) and N=2 for (15,30), (30,60) and N=4 for (15,60).</li> <li>(K1, K2) = ((1,1) for FDD P(S)Cell, (K1, K2) = (1,2) for TDD P(S)Cell).</li> <li>Same numerology between sSCell and P(S)Cell or SSCell for CSC is larger than P(S)Cell and SSCell and DLSS set(s) for DCI format 0_1,1_1 configured on sSCell for CCS from sSCell for CCS from sSCell to PCell/PSCell and SSCell or CSC is set on SCell for CCS from sSCell to PCell/PSCell and SSCell or CSC is set on SCell for CCS from sSCell for CCS from SCell for CCS from structure in overlapping slot of CPCell/PSCell and SCell for CCI formats with CRC scrambied by C-RNTI/MCS-C-RNTI'CS-RNTI'</li> <li>soSCell and Type 0/0A/1/2 CSS sets on P(S)Cell for DCI formats with CRC carabided by C-RNTI/MCS-C-RNTI'CS-RNTI'</li> <li>on simultaneous monitoring of USS sets (for P(S)Cell scheduling) on sSCell and Type 0/0A/1/2 CSS sets on P(S)Cell for DCI formats with CRC carabided b</li></ul>	PCell/PSCell) and following search space sets on PCell/PSCell can only be				
<ul> <li>PCell/PSCell and sSCell:         <ul> <li>USS sets for DCI formats 0.1,1.1,0.2,1.2.</li> <li>USS sets for DCI formats 0.0,1.0.</li> <li>Type3-CSS set(s) for DCI formats 1.0/0.0 with C-RNTI/CS-RNTI/MCS-C/RNTI.</li> </ul> </li> <li>Configuration of scaling factor a for BD and CCE limit handling and PDCCH overbooking handling on P(S)Cell.</li> <li>The number of unicast DCI limits for PCell/PSCell scheduling:         <ul> <li>Processing K1 unicast DCI scheduling DL on PCell/PSCell per PCell/PSCell solt and its aligned N consecutive sSCell solt(s).</li> <li>Processing K1 unicast DCI scheduling UL on PCell/PSCell per PCell/PSCell solt and its aligned N consecutive sSCell solt(s).</li> <li>N is based on pair of (PCell/PSCell SCS, SCell SCS): N-16 for (15,15), (30,30), (60,60) and N=2 for (15,30), (30,60) and N=4 for (15,60).</li> <li>(K1, K2) = ((1,1) for FDD P(S)Cell (K1, K2) = (1,2) for TDD P(S)Cell).</li> </ul> </li> <li>Same numerology between sSCell and P(S)Cell or sSCell SCS is larger than P(S)Cell and USS set(s) for DCI format 0_1,1_1 configured on sSCell for CCS from sSCell to PCell/PSCell and PCell/PSCell and SCell CS is larger than P(S)Cell SCB is DCI format 0_1,1_1 configured on sSCell for CCS from sSCell to PCell/PSCell and be configured so that the UE monitors them in overlapping slot of PCell/PSCell and SCell I' DCell/PSCell and T2,And0-2-r16.</li> <ul> <li>sSCell USS set(s) for CCS from sSCell to PCell/PSCell on addition on sSCell for CCS from sSCell i to PCell/PSCell and SCell.</li> <li>o sSCell and Type 0/0A/1/2 CSS sets on P(S)Cell for DCI formats with CRC not scrambled by C-RNTI/MCS-C-RNTI/CS-RNTI.</li> <li>simultaneous monitoring between USS sets (for P(S)Cell scheduling) on sSCell and Type 0/0A/1/2 CSS sets on PCS)Cell for DCI formats with CRC not scrambled by C-RNTI/MCS-C-RNTI/CS-RNTI.</li> <li>pdcach-Monitorin</li></ul></ul>	configured such that UE does not monitor them in overlapping slot of				
<ul> <li>USS sets for DCI formats 0_111_0_2,1_2.</li> <li>USS sets for DCI formats 0_01_0.</li> <li>Type3-CSS set(s) for DCI formats 1_0/0_0 with C-RNTI/CS-RNTI/MCS- C-RNTI.</li> <li>Configuration of scaling factor o for BD and CCE limit handling and PDCCH overbooking handling on P(S)Cell.</li> <li>The number of unicast DCI insits for PCell/PSCell scheduling:         <ul> <li>Processing K1 unicast DCI insits for PCell/PSCell scheduling:</li> <li>Processing K2 unicast DCI insits for PCell/PSCell solutive sSCell slot(s).</li> <li>Processing K2 unicast DCI insits for SCell VSCell Solutive sSCell slot(s).</li> <li>N is based on pair of (PCell/PSCell SC, SSCell SCS): N=1 for (15,15), (30,30), (60,60) and N=2 for (15,30), (30,60) and N=4 for (15, 60).</li> <li>(K1, K2) = ((1,1) for FDD P(S)Cell; (K1, K2) = (1,2) for TDD P(S)Cell).</li> </ul> </li> <li>Same numerology between sSCell and P(S)Cell or sSCell SCS is larger than P(S)Cell SCS.</li> <li>USS set(s) for DCI format 0_1,1_1 configured on sSCell for CCS from sSCell for CCS from sSCell to PCell/PSCell in UE supports dci-format1-2And0-2- r16.</li> <li>sSCell USS set(s) (for CCS from sSCell to PCell/PSCell) and Type0/0A/1/2 CSS sets on PCell/PSCell and sSCell</li> <li>no simultaneous monitoring between 'USS sets (for P(S)Cell scheduling) on sSCell and Type 0/0A/1/2 CSS sets on P(S)Cell for DCI formats with CRC scrambled by C-RNTI/MCS-C-RNTI'CS-RNTI'</li> <li>simultaneous monitoring of 'USS sets (for P(S)Cell scheduling) on sSCell and Type 0/0A/12 CSS sets on P(S)Cell scheduling) on sSCell and Type 0/0A/12 CSS sets on P(S)Cell scheduling) on sSCell and Type 0/0A/12 CSS sets on P(S)Cell scheduling) on sSCell and Type 0/0A/12 CSS sets on P(S)Cell scheduling) on sSCell and Type 0/0A/12 CSS sets on P(S)Cell scheduling) on sSCell and Type 0/0A/12 CSS sets on P(S)Cell scheduling) on sSCell and Type 0/0A/12 CSS sets on P(S)Cell scheduling) on sSCell and Type 0/0</li></ul>	PCell/PSCell and sSCell:				
<ul> <li>USS sets for DCI formats 0_0,1_0.</li> <li>Type3-CSS set(s) for DCI formats 1_0//0 with C-RNTI/CS-RNTI/MCS-C-RNTI.</li> <li>Configuration of scaling factor of for BD and CCE limit handling and PDCCH overbooking handling on P(S)Cell.</li> <li>The number of unicast DCI limits for PCell/PSCell scheduling:         <ul> <li>Processing K1 unicast DCI scheduling DL on PCell/PSCell per PCell/PSCell slot and its aligned N consecutive sSCell slot(s).</li> <li>Processing K2 unicast DCI scheduling UL on PCell/PSCell per PCell/PSCell slot and its aligned N consecutive sSCell slot(s).</li> <li>N is based on pair of (PCell/PSCell SCS, SSCell SCS): N=1 for (15,15), (30,30), (60.60) and N=4 for (15,30), (30.60) and N=4 for (15,50), (30.30), (60.60) and N=4 for (15,30), (30.60) and N=4 for (15,50), (30.30), (60.60) and N=4 for (15,30), (30.60) and N=4 for (15,50), (30.30), (60.60) and N=4 for (15,30), (30.60) and N=4 for (15,50), (30.30), (60.60) and N=4 for (15,30), (30.60) and N=4 for (15,50), (30.30), (60.60) and N=4 for (15,50), (30.30), (60.60) and N=4 for (15,30), (30.60) and N=4 for (15,50), (30.30), (60.60) and N=4 for (15,30), (30.60) and N=4 for (15,50), (30.70), (30.60</li></ul></li></ul>	- USS sets for DCI formats 0_1,1_1,0_2,1_2.				
<ul> <li>Type3-CSS set(s) for DCI formats 1_0/0_0 with C-RNTI/CS-RNTI/MCS-C-RNTI.</li> <li>Configuration of scaling factor u for BD and CCE limit handling and PDCCH overbooking handling on P(S)Cell.</li> <li>The number of unicast DCI instituts for PCell/PSCell scheduling:         <ul> <li>Processing K1 unicast DCI scheduling DL on PCell/PSCell per PCell/PSCell slot and its aligned N consecutive sSCell slot(s).</li> <li>Processing K2 unicast DCI insteaduling UL on PCell/PSCell per PCell/PSCell slot and its aligned N consecutive sSCell slot(s).</li> <li>N is based on pair of (PCell/PSCell SCS, SSCell SCS). N=1 for (15,15), (30.30), (60.60) and N=2 for (15,30), (30.60) and N=4 for (15, 60).</li> <li>(K1, K2) = ((1,1) for FDD P(S)Cell; (K1, K2) = (1,2) for TDD P(S)Cell).</li> </ul> </li> <li>Same numerology between sSCell and P(S)Cell or SSCell SCS is larger than P(S)Cell SCS.</li> <li>USS set(s) for DCI format 0_1,1_1 configured on sSCell for CCS from sSCell to PCell/PSCell and USS set(s) for DCI format 0_2,1_2 configured on sSCell for CCS from SSCell to PCell/PSCell and the LE monitors them in overlapping slot of PCell/PSCell and SSCell to PCell/PSCell and Type0/0A/1/2 CSS sets on PC(S)Cell Scheduling) on ssCell and Type 0/0A/1/2 CSS sets on P(S)Cell for DCI formats with CRC scrambled by C-RNTI/MCS-RNTI'CS-RNTI'</li> <li>simultaneous monitoring of USS sets (or PC(S)Cell scheduling) on sSCell and Type 0/0A/1/2 CSS sets on P(S)Cell for DCI formats with CRC scrambled by C-RNTI/MCS-RNTI'.</li> <li><i>pdcch-MonitoringOccasion-r17</i> indicates the PDCCH monitoring occasion(s) on sSCell and Type 0/0A/1/2 CSS sets on P(S)Cell for DCI formats with CRC scrambled by C-RNTI/MCS-RNTI'.</li> <li><i>pdcch-MonitoringOccasion-r17</i> indicates the PDCCH monitoring occasion(s) on sSCell in the first 3 OFDM symbols of a SCell.</li> <li>NOTE 1: A UE supporting this FG does not imply that the UE can be configured with sSCell in shared channel accee</li></ul>	- USS sets for DCI formats 0, 0,1,0.				
<ul> <li>CRNTI.</li> <li>Configuration of scaling factor of or BD and CCE limit handling and PDCCH overbooking handling on P(S)Cell.</li> <li>The number of unicast DCI limits for PCell/PSCell scheduling:</li> <li>Processing K1 unicast DCI scheduling DL on PCell/PSCell per PCell/PSCell slot and its aligned N consecutive sSCell slot(s).</li> <li>Processing K2 unicast DCI scheduling DL on PCell/PSCell per PCell/PSCell slot and its aligned N consecutive sSCell slot(s).</li> <li>N is based on pair of (PCell/PSCell SCS, SSCell SCS): N=1 for (15,15), (30,30), (60,60) and N=2 for (15,30), (30,60) and N=1 for (15,30), (30,60) and N=1 for (15,30), (30,30), and (N=4 for (15,60), (30,30), (60,60) and N=4 for (15,30), (30,30), and (N=4 for (15,30), (30,30), and (N=4 for (15,50), (30,30), and (N=4 for (15,50), (30,30), and N=4 for (15,30), (30,30), and N=4 for (15,50), (30,30), and N=4 for (15,50), (30,30), and N=4 for (15,30), (30,30), and N=4 for (15,50), (30,30), and N=4 for (15,30), (30,30), and N=4 for (15,50), (30,30), and N=4 for (15,50), (30,30), and N=4 for (15,50), (30,30), (60,60) and N=4 for (15,30), (30,50), and N=4 for (15,50), (30,30), and N=4 for (15,50), (30,30), (60,60) and N=4 for (15,30), (30,50), and N=4 for (15,50), (30,30), (60,60) and N=4 for (15,50), (30,30), (60,60) and N=4 for (15,50), (30,30), (60,60) and N=4 for (15,50), (30,30), and N=4 for (15,50), (30,30), (60,60), and N=4 for (15,50), (30,30), (60,60), and N=4 for (15,50), (30,30), (60,60), and N=4 for (15,50), (30,30), (30,60), and N=4 for (15,50), (30,30), (30,60), and N=4 for (15,50), (30,30), (30,60), and N=4 for (15,50), (30,30), and N=4 for (15,50), (30,30), (30,60), and N=4 for (15,50), (30,30), (30,60), and N=4 for (15,50), (30,30), (30,60), and N=4 for (30,50), (30,30), (30,60), and N=4 for (30,50), (30,30), (30,60), and N=4 for (30,50), (</li></ul>	- Type3-CSS set(s) for DCI formats 1, 0/0, 0 with C-RNTI/CS-RNTI/MCS-				
<ul> <li>Configuration of scaling factor q for BD and CCE limit handling and PDCCH overbooking handling on P(S)Cell.</li> <li>The number of unicast DCI instits for PCell/PSCell scheduling:         <ul> <li>Processing K1 unicast DCI scheduling UL on PCell/PSCell per PCell/PSCell slot and its aligned N consecutive sSCell slot(s).</li> <li>Processing K2 unicast DCI scheduling UL on PCell/PSCell per PCell/PSCell slot and its aligned N consecutive sSCell slot(s).</li> <li>N is based on pair of (PCell/PSCell Scs, SSCell SCS): N=1 for (15, 15), (30,30), (60,60) and N=2 for (15, 30), (30,60) and N=4 for (15, 60).</li> <li>(K1, K2) = ((1,1) for FDD P(S)Cell; (K1, K2) = (1,2) for TDD P(S)Cell).</li> </ul> </li> <li>Same numerology between sSCell and P(S)Cell or SSCell for CCS from sSCell for PCell/PSCell and USS set(s) for DCI format 01,1_ configured on sSCell for CCS from sSCell to PCell/PSCell in and Type0/0A/1/2</li> <li>CSS set(s) for DCI format 01,1_ configured on sSCell for CCS from sSCell for CCS from sSCell to PCell/PSCell in Scell to PCell/PSCell and SCell</li> <li>o simultaneous monitoring between USS sets (for P(S)Cell scheduling) on sSCell and Type 0/0A/1/2 CSS sets on PCell/PSCell and SSCell</li> <li>o no simultaneous monitoring between USS sets (for P(S)Cell scheduling) on sSCell and Type 0/0A/1/2 CSS sets on P(S)Cell for DCI formats with CRC scrambled by C-RNTI/MCS-C-RNTI/CS-RNTI'.</li> <li><i>pdcch-MonitoringOccasion-r17</i> indicates the PDCCH monitoring occasion(s) on sSCell and Type 0/0A/1/2 CSS sets on P(S)Cell scheduling) on sSCell for cross-carrier scheduling to PCell/PSCell stot.</li> <li><i>pdcch-MonitoringOccasion-r17</i> indicates the PDCCH monitoring occasion(s) on sSCell and Type 0/0A/1/2 CSS sets on P(S)Cell scheduling) on sSCell for cross-carrier scheduling to PCell/PSCell stot.</li> <li><i>pdcch-MonitoringOccasion-r17</i> indicates the PDCCH monitoring occasion(s) on sSCell and Type 0/0A/1/2 CSS sets on P(S</li></ul>					
<ul> <li>Computation of scaling raction of the Darth CCE limit framining and PDCCH overbooking handling on P(S)Cell.</li> <li>The number of unicast DCI limits for PCell/PSCell scheduling:         <ul> <li>Processing K1 unicast DCI scheduling DL on PCell/PSCell per PCell/PSCell slot and its aligned N consecutive sSCell slot(s).</li> <li>Processing K2 unicast DCI scheduling UL on PCell/PSCell per PCell/PSCell slot and its aligned N consecutive sSCell slot(s).</li> <li>N is based on pair of (PCell/PSCell SCS, sSCell SCS): N=1 for (15,15), (30,30), (60,60) and N=2 for (15,30), (30,60) and N=4 for (15, 60).</li> <li>(K1, K2) = (1,1) for FDD P(S)Cell; (K1, K2) = (1,2) for TDD P(S)Cell).</li> </ul> </li> <li>Same numerology between sSCell and P(S)Cell or SCell SCS is larger than P(S)Cell SCS.</li> <li>USS set(s) for DCI format 0_1,1_1 configured on sSCell for CCS from sSCell for CCS from sSCell to PCell/PSCell if u CCS from sSCell to PCell/PSCell) and Type0/0A/1/2 CSS sets on PCell/PSCell and be configured so that the UE monitors them in overlapping slot of PCell/PSCell and SSCell</li> <li>sSCell USS set(s) (for CCS from sSCell to PCell/PSCell) and Type0/0A/1/2 CSS sets on PCell/PSCell and SCell</li> <li>on simultaneous monitoring between USS sets (for P(S)Cell scheduling) on sSCell and Type 0/0A/1/2 CSS sets on P(S)Cell for DCI formats with CRC not scrambled by C-RNTI/CS-RNTI'</li> <li>simultaneous monitoring of USS sets on P(S)Cell for DCI formats with CRC not scramble by C-RNTI/MCS-C-RNTI'CS-RNTI'</li> <li>pdcch-Monitoring/Ccasion-r17 indicates the PDCCH monitoring occasion(s) on sSCell for DCM symbols of SCell slot and val2 = within the first 3 OFDM symbols of SCell slot and val2 = within the first 3 OFDM symbols of SCell slot and val2 = within the first 3 OFDM symbols of PCell/PSCell and sSCell slot overlapping with a PCell/PSCell slot.</li> <li>Frame boundary alignment between PCell/PSCell and sSCell slot and val2 = w</li></ul>	Online of appling factors of far DD and COE limit handling and DDCOU				
<ul> <li>Overbooking handling of P(S)Cell.</li> <li>The number of unicast DCI limits for PCell/PSCell scheduling:</li> <li>Processing K1 unicast DCI scheduling DL on PCell/PSCell per PCell/PSCell slot and its aligned N consecutive sSCell slot(s).</li> <li>Processing K2 unicast DCI scheduling UL on PCell/PSCell slot(s).</li> <li>N is based on pair of (PCell/PSCell SS, SCell SCS). N=1 for (15, 15), (30,30), (60,60) and N=2 for (15,30), (30,60) and N=4 for (15, 60).</li> <li>(K1, K2) = (1,1) for FDD P(S)Cell: (K1, K2) = (1,2) for TDD P(S)Cell).</li> <li>Same numerology between sSCell and P(S)Cell or sSCell for CCS from sSCell for CCS from SSCell to PCell/PSCell SC is larger than P(S)Cell SCS.</li> <li>USS set(s) for DCI format 01,1_1 configured on sSCell for CCS from sSCell for CCS from SSCell to PCell/PSCell is Usuports dci-Format1-2And0-2- r16.</li> <li>sSCell USS set(s) (for CCS from sSCell to PCell/PSCell) and Type0/04/1/2 CSS sets on PCell/PSCeli can be configured so that the UE monitors them in overlapping slot of PCell/PSCell and SSCell</li> <li>on simultaneous monitoring between USS sets (for P(S)Cell scheduling) on sSCell' and Type 0/0A/1/2 CSS sets on P(S)Cell for DCI formats with CRC scrambled by C-RNTI/MCS-C-RNTI/CS-RNTI'</li> <li>simultaneous monitoring to VSS sets (for P(S)Cell scheduling) on sSCell and Type 0/0A/1/2 CSS sets on P(S)Cell for DCI formats with CRC not scrambled by C-RNTI/MCS-C-RNTI/CS-RNTI.</li> <li><i>pdcch-MonitoringOccasion-r17</i> indicates the PDCCH monitoring occasion(s) on sSCell and Type 0/0A/1/2 CSS sets on P(S)Cell scheduling) on sSCell for cross-carrier scheduling to Cell/PSCell scheduling on sSCell Sot</li> <li>or sSCell Sot</li> <li>or cross-carrier scheduling to Cell/PSCell scheduling and social sot</li> <li>or sSCell Sot</li> <li>or sSCell Sot</li> <li>or cross-carrier scheduling to Cell/PSCell scheduling and social sot</li> <li>or statistic scheduling to Cell/PSCell scheduling and social sot</li> <li>or statistic scheduling to Cell/PSCell scheduling an social social social</li></ul>	- Configuration of scaling factor of or BD and CCE limit handling and PDCCH				
<ul> <li>The number of unicast DCI limits for PCeII/PSCeII scheduling:         <ul> <li>Processing K1 unicast DCI scheduling DL on PCeII/PSCeII per PCeII/PSCeII slot and its aligned N consecutive sSCeII slot(s).</li> <li>Processing K2 unicast DCI scheduling UL on PCeII/PSCeII per PCeII/PSCeII slot and its aligned N consecutive sSCeII slot(s).</li> <li>N is based on pair of (PCeII/PSCeII SCS, SSCeII SCS): N=1 for (15,15), (30,30), (60,60) and N=2 for (15,30), (30,60) and N=2 for (15, 60).</li> <li>(K1, K2) = ((1,1) for FDD P(S)CeII; (K1, K2) = (1,2) for TDD P(S)CeII).</li> </ul> </li> <li>Same numerology between sSCeII and P(S)CeII or SSCeII for CCS from sSCeII for PCeII/PSCeII and USS set(s) for DCI format 01,2 configured on sSCeII for CCS from sSCeII to PCeII/PSCeII if UE supports dci-Format1-2And0-2- r16.</li> <li>sSCeII USS set(s) (for CCS from SSCeII to PCeII/PSCeII) and Type0/0A/1/2 CSS sets on PCeII/PSCeII can be configured so that the UE monitors them in overlapping slot of PCeII/PSCeII and SSCeII</li> <li>n o simultaneous monitoring between 'USS sets (for P(S)CeII scheduling) on sSCeII' and 'Type 0/0A/1/2 CSS sets on P(S)CeII for DCI formats with CRC scrambled by C-RNTI/MCS-C-RNTI/CS-RNTI'</li> <li>simultaneous monitoring of 'USS sets (for P(S)CeII scheduling) on sSCeII' and 'Type 0/0A/1/2 CSS sets on P(S)CeII for DCI formats with CRC not scrambled by C-RNTI/MCS-C-RNTI/CS-RNTI'.</li> <li>pdcch-MonitoringOccasion-r17 indicates the PDCCH monitoring occasion(s) on sSCeII for cross-carrier scheduling to PCeII/PSCeII. There are 2 values (val., val2) where val1 = within the first 3 OFDM symbols of SCeII slot and val2 = within the first 3 OFDM symbols of any sSCeII slot overlapping with a PCeII/PSCeII slot.</li> <li>Frame boundary alignment between PCeII/PSCeII and sSCeII.</li> </ul> <li>NOTE 1: A UE supporting this FG does not imply that the UE can be configured with sSCe</li>	overbooking handling on P(S)Cell.				
<ul> <li>Processing K1 unicast DCI scheduling DL on PCell/PSCell per PCell/PSCell slot and its aligned N consecutive sSCell slot(s).</li> <li>Processing K2 unicast DCI scheduling UL on PCell/PSCell per PCell/PSCell slot and its aligned N consecutive sSCell slot(s).</li> <li>N is based on pair of (PCell/PSCell SC, SSCell SCS): N=1 for (15,15), (30,30), (60,60) and N=2 for (15,30), (30,60) and N=4 for (15, 60).</li> <li>(K1, K2) = ((1,1) for FDD P(S)Cell; (K1, K2) = (1,2) for TDD P(S)Cell).</li> <li>same numerology between sSCell and P(S)Cell or SSCell SCS is larger than P(S)Cell SCS.</li> <li>USS set(s) for DCI format 0_1,1_1 configured on sSCell for CCS from sSCell for CCS from sSCell to PCell/PSCell if UE supports dci-Format1-2And0-2- r16.</li> <li>sSCell USS set(s) for CCS from sSCell if DC Evell/PSCell) and Type0/0A/1/2 CSS sets on PCell/PSCell and sSCell</li> <li>no simultaneous monitoring between 'USS sets (for P(S)Cell scheduling) on sSCell and Type 0/0A/1/2 CSS sets on P(S)Cell for DCI formats with CRC scrambled by C-RNTI/MCS-C-RNTI/CS-RNTI'.</li> <li>simultaneous monitoring of 'USS sets (for P(S)Cell for DCI formats with CRC not scrambled by C-RNTI/MCS-C-RNTI/CS-RNTI'.</li> <li>pdcch-Monitoring/Occasion-r17 indicates the PDCCH monitoring occasion(s) on sSCell and Type 0/0A/1/2 CSS sets on P(S)Cell for DCI formats with CRC not scrambled by C-RNTI/MCS-C-RNTI/CS-RNTI'.</li> <li>pdcch-Monitoring/Cassion-r17 indicates the PDCCH monitoring occasion(s) on sSCell for CDM symbols of PCell/PSCell slot and val2 = within the first 3 OFDM symbols of SCell/Scell slot overlapping with the first 3 OFDM symbols of SCell and val2 = within the first 3 OFDM symbols of PCell/PSCell and sSCell.</li> <li>NOTE 1: A UE supporting this FG does not imply that the UE can be configured with sSCell in shared channel access spectrum.</li> <li>NOTE 1: A UE supporting this FG does not imply that the UE can be configured such that combination of P(S)Cell and SCell and SCell are configu</li></ul>	- The number of unicast DCI limits for PCell/PSCell scheduling:				
<ul> <li>PCell/PSCell slot and its aligned N consecutive sSCell slot(s).</li> <li>Processing K2 unicast DCI scheduling UL on PCell/PSCell per PCell/PSCell slot and its aligned N consecutive sSCell slot(s).</li> <li>N is based on pair of (PCell/PSCell SCS, SSCell SCS): N=1 for (15,15), (30,30), (60,60) and N=2 for (15,30), (30,60) and N=4 for (15, 60).</li> <li>(K1, K2) = ((1,1) for FDD P(S)Cell; (K1, K2) = (1,2) for TDD P(S)Cell).</li> <li>Same numerology between sSCell and P(S)Cell or sSCell for CCS from sSCell to PCell/PSCell and USS set(s) for DCI format 0_2,1_2 configured on sSCell for CCS from sSCell to PCell/PSCell in UE supports dci-Format1-2And0-2- r16.</li> <li>sSCell USS set(s) (for CCS from sSCell to PCell/PSCell) and Type0/0A/1/2 CSS sets on PCell/PSCell can be configured so that the UE monitors them in overlapping slot of PCell/PSCell and sSCell</li> <li>no simultaneous monitoring between VSS sets (for P(S)Cell scheduling) on sSCell' and Type 0/0A/1/2 CSS sets on P(S)Cell for DCI formats with CRC scrambled by C-RNTI/MCS-C-RNTI'.</li> <li>simultaneous monitoring of USS sets (for P(S)Cell scheduling) on sSCell and Type 0/0A/12 CSS sets on P(S)Cell for DCI formats with CRC on scrambled by C-RNTI/MCS-C-RNTI'.</li> <li>simultaneous monitoring of USS sets (for P(S)Cell scheduling) on sSCell and Type 0/0A/12 CSS sets on P(S)Cell for DCI formats with CRC not scrambled by C-RNTI/MCS-C-RNTI'.</li> <li>pdch-MonitoringOccasion-r17 indicates the PDCCH monitoring occasion(s) on sSCell for cross-carrier scheduling to PCell/PSCell. There are 2 values (val1, val2) where val1 = within the first 3 OFDM symbols of SSCell slot overlapping with the first 3 OFDM symbols of SCell slot and val2 = within the first 3 OFDM symbols of PCell/PSCell. There are 2 values (val1, val2) where val1 = within the first 3 OFDM symbols of sSCell slot overlapping with the first 3 OFDM symbols of SCell and val2 = within the first 3 OFDM symbols of PCell/PSCell slot and val2 = within the first 3 OFDM symbols of any sSCell slot overlapping wi</li></ul>	<ul> <li>Processing K1 unicast DCI scheduling DL on PCell/PSCell per</li> </ul>				
<ul> <li>Processing K2 unicast DCI scheduling UL on PCeII/PSCeII per PCeII/PSCeII slot and its aligned N consecutive sSCeII stot(s).</li> <li>N is based on pair of (PCeII/PSCeII SCS, sSCeII SCS): N=1 for (15,15), (30,30), (60,60) and N=2 for (15,30), (30,60) and N=4 for (15, 60).</li> <li>(K1, K2) = {(1,1) for FDD P(S)CeII; (K1, K2) = (1,2) for TDD P(S)CeII).</li> <li>Same numerology between sSCeII and P(S)CeII or sSCeII for CCS from sSCeII to PCeII/PSCeII and USS set(s) for DCI format 0_1,1_1 configured on sSCeII for CCS from sSCeII to PCeII/PSCeII and USS set(s) for DCI format 0_2,1_2 configured on sSCeII for CCS from sSCeII to PCeII/PSCeII if UE supports dci-Format1-2And0-2- r16.</li> <li>sSCeII USS set(s) (for CCS from sSCeII to PCeII/PSCeII) and Type0/0A/1/2 CSS sets on PCeII/PSCeII and sSCeII</li> <li>no simultaneous monitoring between 'USS sets (for P(S)CeII scheduling) on sSCeII and 'Type 0/0A/1/2 CSS sets on P(S)CeII for DCI formats with CRC scrambled by C-RNTI/MCS-C-RNTI/CS-RNTI'.</li> <li>simultaneous monitoring between 'USS sets (for P(S)CeII scheduling) on sSCeII and 'Type 0/0A/1/2 CSS sets on P(S)CeII scheduling) on sSCeII and 'Type 0/0A/1/2 CSS sets on P(S)CeII scheduling) on sSCeII and 'Type 0/0A/1/2 CSS sets on P(S)CeII scheduling) on sSCeII and 'Type 0/0A/1/2 CSS sets on P(S)CeII scheduling) on sSCeII for cross-carrier scheduling to PCeII/PSCeII. There are 2 values (val1, val2) where val1 = within the first 3 OFDM symbols of SCEII stot overlapping with the first 3 OFDM symbols of SCEII and val2 = within the first 3 OFDM symbols of any sSCeII and sSCeII.</li> <li>NOTE 1: A UE supporting this FG does not imply that the UE can be configured with sSCeII in shared channel access spectrum.</li> <li>NOTE 1: A UE supporting this FG does not imply that the UE can be configured such that combination of P(S)CeII and sSCeII are configured such that combination of PCI/PCI is applicable to FR1 only but there can be other SCeII in FR2 configured for the UE.</li> <li>NO</li></ul>	PCell/PSCell slot and its aligned N consecutive sSCell slot(s).				
<ul> <li>PCell/PSCell slot and its aligned N consecutive sSCell slot(s).</li> <li>N is based on pair of (PCell/PSCell SCS, SCell SCS).N=1 for (15,15), (30,30), (60,00) and N=2 for (15,30), (30,60) and N=4 for (15, 60).</li> <li>(K1, K2) = ((1,1) for FDD P(S)Cell; (K1, K2) = (1,2) for TDD P(S)Cell).</li> <li>Same numerology between sSCell and P(S)Cell or SSCell SCS is larger than P(S)Cell SCS.</li> <li>USS set(s) for DCI format 0_1,1_1 configured on sSCell for CCS from sSCell to PCell/PSCell and USS set(s) for DCI format 0_2,1_2 configured on sSCell to PCell/PSCell and USS set(s) for DCI format 0_2,1_2 configured on sSCell to PCell/PSCell and USS set(s) for DCI form sSCell to PCell/PSCell in UE supports dci-Format1-2And0-2-r16.</li> <li>sSCell USS set(s) (for CCS from sSCell to PCell/PSCell) and Type0/0A/1/2 CSS sets on PCell/PSCell and sSCell</li> <li>on simultaneous monitoring between 'USS sets (for P(S)Cell scheduling) on sSCell' and 'Type 0/0A/1/2 CSS sets on P(S)Cell for DCI formats with CRC scrambled by C-RNTI/MCS-C-RNTI/CS-RNTI'.</li> <li>simultaneous monitoring of 'USS sets (for P(S)Cell scheduling) on sSCell' and 'Type 0/0A/1/2 CSS sets on P(S)Cell for DCI formats with CRC not scrambled by C-RNTI/MCS-C-RNTI/CS-RNTI'.</li> <li>pdcch-MonitoringOccasion-r17 indicates the PDCCH monitoring occasion(s) on sSCell for cross-carrier scheduling to PCell/PSCell. There are 2 values (val1, val2) where val1 = within the first 3 OFDM symbols of PCell/PSCell solt and val2 = within the first 3 OFDM symbols of PCell/PSCell and SSCell.</li> <li>NOTE 1: A UE supporting this FG does not imply that the UE can be configured with sSCell is not scCell to PCell is applicable to FR1 only but there can be other SCell is in FR2 configured for the UE.</li> <li>NOTE 2: The CCS from sSCell to PCell and SSCell and SSCell are configured such that combination of P(S)Cell and SSCell and SSCell reconfigured not pressult in exceeding any of the UEs capabilities for A-/SP-CSI reporting on PUSCH on P(S)Cell.</li> </ul>	<ul> <li>Processing K2 unicast DCI scheduling UL on PCell/PSCell per</li> </ul>				
<ul> <li>N is based on pair of (Pcell/PSCell SCS, sSCell SCS): N=1 for (15,15), (30,30), (60,60) and N=2 for (15,30), (30,60) and N=4 for (15, 60).</li> <li>(K1, K2) = ((1,1) for FDD P(S)Cell; (K1, K2) = (1,2) for TDD P(S)Cell).</li> <li>Same numerology between sSCell and P(S)Cell or sSCell SCS is larger than P(S)Cell SCS.</li> <li>USS set(s) for DCI format 0_1,1_1 configured on sSCell for CCS from sSCell to PCell/PSCell and USS set(s) for DCI format 0_2,1_2 configured on sSCell for CCS from sSCell to PCell/PSCell if UE supports dci-Format1-2And0-2-r16.</li> <li>sSCell USS set(s) (for CCS from sSCell to PCell/PSCell) and Type0/0A/1/2 CSS sets on PCell/PSCell and USS sets (for P(S)Cell and Type0/0A/1/2 CSS sets on PCell/PSCell and SSCell</li> <li>no simultaneous monitoring between 'USS sets (for P(S)Cell scheduling) on sSCell' and 'Type 0/0A/1/2 CSS sets on P(S)Cell for DCI formats with CRC scrambled by C-RNTI/MCS-C-RNTI/CS-RNTI'</li> <li>simultaneous monitoring of 'USS sets (for P(S)Cell scheduling) on sSCell' and 'Type 0/0A/1/2 CSS sets on P(S)Cell for DCI formats with CRC nor scrambled by C-RNTI/MCS-C-RNTI/CS-RNTI'</li> <li><i>pdcch-MonitoringOccasion-r17</i> indicates the PDCCH monitoring occasion(s) on sSCell for cross-carrier scheduling to PCell/PSCell slot and val2 = within the first 3 OFDM symbols of PCell/PSCell slot and val2 = within the first 3 OFDM symbols of any SSCell slot overlapping with a PCell/PSCell is of any SCell slot overlapping with a PCell/PSCell is of any SCell slot overlapping with a PCell/PSCell is of any SCell slot overlapping with a PCell/PSCell is of any SCell slot overlapping with a PCell/PSCell is not score to the SCell slot overlapping with a SCell is not score to the PCell/PSCell and SCell.</li> <li>NOTE 1: A UE supporting this FG does not imply that the UE can be configured with sSCell is not channel access spectrum.</li> <li>NOTE 2: The CCS from SCell to PCell is applicable to FR1 only but there can be other SCells in FR2 configured for the UE.</li> <li>NOTE 3: Parameters in CSI-M</li></ul>	PCell/PSCell slot and its aligned N consecutive sSCell slot(s)				
<ul> <li>(30,30), (60,60) and N=2 for (15,30), (30,60) and N=4 for (15, 60).</li> <li>(K1, K2) = ((1,1) for FDD P(S)Cell; (K1, K2) = (1,2) for TDD P(S)Cell).</li> <li>Same numerology between sSCell and P(S)Cell or sSCell SCS is larger than P(S)Cell SCS.</li> <li>USS set(s) for DCI format 0_1,1_1 configured on sSCell for CCS from SSCell for CCS from sSCell to PCell/PSCell and USS set(s) for DCI format 0_2,1_2 configured on sSCell for CCS from sSCell to PCell/PSCell if UE supports dci-Format1-2And0-2-r16.</li> <li>sSCell USS set(s) (for CCS from sSCell to PCell/PSCell) and Type0/0A/1/2 CSS sets on PCell/PSCell and exceed and sSCell</li> <li>no simultaneous monitoring between 'USS sets (for P(S)Cell scheduling) on sSCell' and Type 0/0A/1/2 CSS sets on PCell/PSCell and sSCell</li> <li>no simultaneous monitoring between 'USS sets (for P(S)Cell scheduling) on sSCell' and Type 0/0A/1/2 CSS sets on P(S)Cell for DCI formats with CRC scrambled by C-RNTI/MCS-C-RNTI/CS-RNTI'</li> <li>simultaneous monitoring 0'USS sets (for P(S)Cell for DCI formats with CRC not scrambled by C-RNTI/MCS-C-RNTI/CS-RNTI'.</li> <li><i>pdcch-MonitoringOccasion-r17</i> indicates the PDCCH monitoring occasion(s) on sSCell for coss-carrier scheduling to PCell/PSCell slot and val2 = within the first 3 OFDM symbols of sSCell slot aval2 = within the first 3 OFDM symbols of sSCell slot aval2 = within the first 3 OFDM symbols of any SSCell and SSCell.</li> <li>NOTE 1: A UE supporting this FG does not imply that the UE can be configured with sSCell in shared channel access spectrum.</li> <li>NOTE 2: The CCS from SSCell to PCell is applicable to FR1 only but there can be other SCells in FR2 configured for the UE.</li> <li>NOTE 3: Parameters in CS/-MaesConfig or P(S)Cell and sSCell are configured such that combination of P(S)Cell and SSCell configurations does not result in exceeding any of the UE's capabilities for A-/SP-CSI reporting on PUSCH on P(S)Cell.</li> </ul>	- N is based on pair of (PCell/PSCell SCS, sSCell SCS): N=1 for (15.15)				
<ul> <li>(b) (b) (b) (b) (b) (b) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c</li></ul>	(30, 30) (60, 60) and N=2 for (15, 30) (30, 60) and N=4 for (15, 60)				
<ul> <li>Same numerology between sSCell and P(S)Cell or SSCell SCS is larger than P(S)Cell SCS.</li> <li>USS set(s) for DCI format 0_1,1_1 configured on sSCell for CCS from sSCell to PCell/PSCell and USS set(s) for DCI format 0_2,1_2 configured on sSCell for CCS from sSCell to PCell/PSCell if UE supports dci-Format1-2And0-2-r16.</li> <li>sSCell USS set(s) (for CCS from sSCell to PCell/PSCell) and Type0/0A/1/2 CSS sets on PCell/PSCell can be configured so that the UE monitors them in overlapping slot of PCell/PSCell and SSCell</li> <li>no simultaneous monitoring between 'USS sets (for P(S)Cell scheduling) on sSCell and 'Type 0/0A/1/2 CSS sets on PCell/PSCell and sSCell</li> <li>no simultaneous monitoring between 'USS sets (for P(S)Cell scheduling) on sSCell and 'Type 0/0A/1/2 CSS sets on P(S)Cell for DCI formats with CRC scrambled by C-RNTI/MCS-C-RNTI/CS-RNTI'</li> <li>simultaneous monitoring of 'USS sets (for P(S)Cell scheduling) on sSCell and 'Type 0/0A/1/2 CSS sets on P(S)Cell for DCI formats with CRC not scrambled by C-RNTI/MCS-C-RNTI/CS-RNTI'.</li> <li><i>pdcch-MonitoringOccasion-r17</i> indicates the PDCCH monitoring occasion(s) on sSCell for cross-carrier scheduling to PCell/PSCell slot and val2 = within the first 3 OFDM symbols of any sSCell slot and val2 = within the first 3 OFDM symbols of any sSCell slot and val2 = within the first 3 OFDM symbols of any sSCell and sSCell.</li> <li>NOTE 1: A UE supporting this FG does not imply that the UE can be configured with sSCell in shared channel access spectrum.</li> <li>NOTE 2: The CCS from sSCell to PCell is applicable to FR1 only but there can be other SCells in FR2 configured for the UE.</li> <li>NOTE 3: Parameters in CSI-MeasConfig of P(S)Cell and sSCell are configured such that combination of P(S)Cell and sSCell are configured such that combination of P(S)Cell and sSCell are configured such that combination of P(S)Cell and sSCell are configured such that combination of P(S)Cell and sSCell are configured such that combination of P(S)Cell and sSCell are configur</li></ul>	(50,50), (50,50) and $14-2$ for $(15,50), (50,50)$ and $14-4$ for $(15,50).$				
<ul> <li>Same numerology between SSCell and P(S)Cell of SSCell SCS is larger than P(S)Cell SCS.</li> <li>USS set(s) for DCI format 0_1,1_1 configured on sSCell for CCS from sSCell to PCell/PSCell and USS set(s) for DCI format 0_2,1_2 configured on sSCell for CCS from sSCell to PCell/PSCell if UE supports dci-Format1-2And0-2- r16.</li> <li>sSCell USS set(s) (for CCS from sSCell to PCell/PSCell) and Type0/0A/1/2 CSS sets on PCell/PSCell can be configured so that the UE monitors them in overlapping slot of PCell/PSCell and sSCell</li> <li>no simultaneous monitoring between 'USS sets (for P(S)Cell scheduling) on sSCell' and Type 0/0A/1/2 CSS sets on P(S)Cell for DCI formats with CRC scrambled by C-RNTI/MCS-C-RNTI'.</li> <li>simultaneous monitoring of 'USS sets (for P(S)Cell scheduling) on sSCell' and Type 0/0A/1/2 CSS sets on P(S)Cell for DCI formats with CRC not scrambled by C-RNTI/MCS-C-RNTI'.</li> <li>pdcch-MonitoringOccasion-r17 indicates the PDCCH monitoring occasion(s) on sSCell for cross-carrier scheduling to PCell/PSCell. There are 2 values (val1, val2) where val1 = within the first 3 OFDM symbols of sSCell slot overlapping with the first 3 OFDM symbols of any sSCell slot and val2 = within the first 3 OFDM symbols of any sSCell slot and val2 = within the first 3 OFDM symbols of any sSCell slot overlapping with a PCell/PSCell slot.</li> <li>Frame boundary alignment between PCell/PSCell and sSCell.</li> <li>NOTE 1: A UE supporting this FG does not imply that the UE can be configured with sSCell in shared channel access spectrum.</li> <li>NOTE 2: The CCS from SSCell to PCell is applicable to FR1 only but there can be other SCells in FR2 configured for the UE.</li> <li>NOTE 3: Parameters in CSI-MeasConfig of P(S)Cell and sSCell are configured such that combination of P(S)Cell and sSCell configurations does not result in exceeding any of the UE's capabilities for A-/SP-CSI reporting on PUSCH on P(S)Cell.</li> </ul>	- $(K1, K2) = \{(1, 1)   10  FDD P(5) Cell, (K1, K2) = (1, 2)   10  TDD P(5) Cell \}.$				
<ul> <li>P(S)Cell SCS.</li> <li>USS set(s) for DCI format 0_1,1_1 configured on sSCell for CCS from sSCell to PCell/PSCell and USS set(s) for DCI format 0_2,1_2 configured on sSCell for CCS from sSCell to PCell/PSCell if UE supports dci-Format1-2And0-2-r16.</li> <li>sSCell USS set(s) (for CCS from sSCell to PCell/PSCell) and Type0/0A/1/2 CSS sets on PCell/PSCell can be configured so that the UE monitors them in overlapping slot of PCell/PSCell and sSCell</li> <li>no simultaneous monitoring between 'USS sets (for P(S)Cell scheduling) on sSCell' and 'Type 0/0A/1/2 CSS sets on P(S)Cell for DCI formats with CRC scrambled by C-RNTI/MCS-C-RNTI/CS-RNTI'</li> <li>simultaneous monitoring of 'USS sets (for P(S)Cell scheduling) on sSCell' and 'Type 0/0A/1/2 CSS sets on P(S)Cell for DCI formats with CRC not scrambled by C-RNTI/MCS-C-RNTI/CS-RNTI'.</li> <li><i>pdcch-Monitor</i> (SCC) and 'Type 0/0A/1/2 CSS sets on P(S)Cell for DCI formats with CRC not scrambled by C-RNTI/MCS-C-RNTI/CS-RNTI'.</li> <li><i>pdcch-Monitor</i> (SCC) and 'Type 0/0A/1/2 CSS sets on P(S)Cell scheduling) on sSCell' and 'Type 0/0A/1/2 CSS sets on P(S)Cell scheduling) on sSCell for cross-carrier scheduling to PCell/PSCell. There are 2 values (val.1, val2) where val.1 = within the first 3 OFDM symbols of sSCell slot overlapping with the first 3 OFDM symbols of sSCell slot overlapping with the first 3 OFDM symbols of any SSCell slot and val2 = within the first 3 OFDM symbols of any SSCell and SSCell.</li> <li>Frame boundary alignment between PCell/PSCell and sSCell.</li> </ul> NOTE 1: A UE supporting this FG does not imply that the UE can be configured with sSCell in shared channel access spectrum. NOTE 2: The CCS from sSCell to PCell is applicable to FR1 only but there can be other SCells in FR2 configured for the UE. NOTE 3: Parameters in CS/-MeasConfig of P(S)Cell and sSCell are configured such that combination of P(S)Cell and sSCell configurations does not result in exceeding any of the UE's capabilities for A-/SP-CSI reporting on PUSCH on P(S	- Same numerology between SSCell and P(S)Cell or SSCell SCS is larger than				
<ul> <li>USS set(s) for DCI format 0_1,1_1 configured on sSCell for CCS from sSCell to PCell/PSCell and USS set(s) for DCI format 0_2,1_2 configured on sSCell for CCS from sSCell to PCell/PSCell if UE supports dci-Format1-2AndO-2-r16.</li> <li>sSCell USS set(s) (for CCS from sSCell to PCell/PSCell) and Type0/0A/1/2 CSS sets on PCell/PSCell can be configured so that the UE monitors them in overlapping slot of PCell/PSCell and sSCell</li> <li>no simultaneous monitoring between 'USS sets (for P(S)Cell scheduling) on sSCell' and 'Type 0/0A/1/2 CSS sets on P(S)Cell for DCI formats with CRC scrambled by C-RNTI/MCS-C-RNTI/CS-RNTI'</li> <li>simultaneous monitoring of 'USS sets (for P(S)Cell scheduling) on sSCell' and 'Type 0/0A/1/2 CSS sets on P(S)Cell for DCI formats with CRC not scrambled by C-RNTI/MCS-C-RNTI/CS-RNTI'.</li> <li><i>pdcch-MonitoringOccasion-r17</i> indicates the PDCCH monitoring occasion(s) on sSCell for cross-carrier scheduling to PCell/PSCell. There are 2 values {val1, val2} where val1 = within the first 3 OFDM symbols of SSCell slot and val2 = within the first 3 OFDM symbols of any SSCell slot overlapping with a PCell/PSCell slot.</li> <li>Frame boundary alignment between PCell/PSCell and sSCell.</li> <li>NOTE 1: A UE supporting this FG does not imply that the UE can be configured with sSCell in shared channel access spectrum.</li> <li>NOTE 2: The CCS from sSCell to PCell is applicable to FR1 only but there can be other SCells in FR2 configured for the UE.</li> <li>NOTE 3: Parameters in CSI-MeasConfig of P(S)Cell and sSCell are configured such that combination of P(S)Cell and sSCell are configured such that combination of P(S)Cell and sSCell configurations does not result in exceeding any of the UE's capabilities for A-/SP-CSI reporting on PUSCH on P(S)Cell.</li> </ul>	P(S)Cell SCS.				
<ul> <li>to PCell/PSCell and USS set(s) for DCI format 0_2,1_2 configured on sSCell for CCS from sSCell to PCell/PSCell if UE supports dci-Format1-2And0-2-r16.</li> <li>sSCell USS set(s) (for CCS from sSCell to PCell/PSCell) and Type0/0A/1/2 CSS sets on PCell/PSCell can be configured so that the UE monitors them in overlapping slot of PCell/PSCell and sSCell</li> <li>no simultaneous monitoring between 'USS sets (for P(S)Cell scheduling) on sSCell' and 'Type 0/0A/1/2 CSS sets on P(S)Cell for DCI formats with CRC scrambled by C-RNTI/MCS-C-RNTI/CS-RNTI'</li> <li>simultaneous monitoring of 'USS sets (for P(S)Cell scheduling) on sSCell' and 'Type 0/0A/1/2 CSS sets on P(S)Cell for DCI formats with CRC not scrambled by C-RNTI/MCS-C-RNTI/CS-RNTI'.</li> <li><i>pdcch-Monitoring Occasion-r17</i> indicates the PDCCH monitoring occasion(s) on sSCell for cross-carrier scheduling to PCell/PSCell. There are 2 values (val1, val2) where val1 = within the first 3 OFDM symbols of sSCell slot overlapping with the first 3 OFDM symbols of PCell/PSCell slot and val2 = within the first 3 OFDM symbols of any sSCell slot overlapping with a PCell/PSCell slot.</li> <li>Frame boundary alignment between PCell/PSCell and sSCell.</li> <li>NOTE 1: A UE supporting this FG does not imply that the UE can be configured with sSCell in shared channel access spectrum.</li> <li>NOTE 2: The CCS from sSCell to PCell is applicable to FR1 only but there can be other SCells in FR2 configured for the UE.</li> <li>NOTE 3: Parameters in <i>CSI-MeasConfig</i> of P(S)Cell and sSCell are configured such that combination of P(S)Cell and sSCell configurations does not result in exceeding any of the UE's capabilities for A-/SP-CSI reporting on PUSCH on P(S)Cell.</li> </ul>	<ul> <li>USS set(s) for DCI format 0_1,1_1 configured on sSCell for CCS from sSCell</li> </ul>				
<ul> <li>for CCS from sSCell to PCell/PSCell if UE supports dci-Format1-2And0-2- r16.</li> <li>sSCell USS set(s) (for CCS from sSCell to PCell/PSCell) and Type0/0A/1/2 CSS sets on PCell/PSCell can be configured so that the UE monitors them in overlapping slot of PCell/PSCell and sSCell</li> <li>no simultaneous monitoring between 'USS sets (for P(S)Cell scheduling) on sSCell' and 'Type 0/0A/1/2 CSS sets on P(S)Cell for DCI formats with CRC scrambled by C-RNTI/MCS-C-RNTI/CS-RNTI'</li> <li>simultaneous monitoring of 'USS sets (for P(S)Cell scheduling) on sSCell' and 'Type 0/0A/1/2 CSS sets on P(S)Cell for DCI formats with CRC not scrambled by C-RNTI/MCS-C-RNTI/CS-RNTI'.</li> <li><i>pdcch-MonitoringOccasion-r17</i> indicates the PDCCH monitoring occasion(s) on sSCell for cross-carrier scheduling to PCell/PSCell. There are 2 values {val1, val2} where val1 = within the first 3 OFDM symbols of sSCell slot overlapping with the first 3 OFDM symbols of PCell/PSCell slot and val2 = within the first 3 OFDM symbols of any sSCell slot overlapping with a PCell/PSCell slot.</li> <li>Frame boundary alignment between PCell/PSCell and sSCell.</li> </ul> NOTE 1: A UE supporting this FG does not imply that the UE can be configured with sSCell in shared channel access spectrum. NOTE 2: The CCS from SSCell to PCell is applicable to FR1 only but there can be other SCells in FR2 configured for the UE. NOTE 3: Parameters in <i>CS1-MeasConfig</i> of P(S)Cell and sSCell are configured such that combination of P(S)Cell and sSCell configurations does not result in exceeding any of the UE's capabilities for A-/SP-CSI reporting on PUSCH on P(S)Cell.	to PCell/PSCell and USS set(s) for DCI format 0_2,1_2 configured on sSCell				
<ul> <li>r16.</li> <li>sSCell USS set(s) (for CCS from sSCell to PCell/PSCell) and Type0/0A/1/2 CSS sets on PCell/PSCell can be configured so that the UE monitors them in overlapping slot of PCell/PSCell and sSCell</li> <li>no simultaneous monitoring between 'USS sets (for P(S)Cell scheduling) on sSCell' and 'Type 0/0A/1/2 CSS sets on P(S)Cell for DCI formats with CRC scrambled by C-RNTI/MCS-C-RNTI/CS-RNTI'</li> <li>simultaneous monitoring of 'USS sets (for P(S)Cell scheduling) on sSCell' and 'Type 0/0A/1/2 CSS sets on P(S)Cell for DCI formats with CRC not scrambled by C-RNTI/MCS-C-RNTI/CS-RNTI'.</li> <li><i>pdcch-MonitoringOccasion-r17</i> indicates the PDCCH monitoring occasion(s) on sSCell for cross-carrier scheduling to PCell/PSCell. There are 2 values {val1, val2} where val1 = within the first 3 OFDM symbols of sSCell slot overlapping with the first 3 OFDM symbols of PCell/PSCell slot and val2 = within the first 3 OFDM symbols of any sSCell slot overlapping with a PCell/PSCell slot.</li> <li>Frame boundary alignment between PCell/PSCell and sSCell.</li> <li>NOTE 1: A UE supporting this FG does not imply that the UE can be configured with sSCell in shared channel access spectrum.</li> <li>NOTE 2: The CCS from SCell to PCell is applicable to FR1 only but there can be other SCells in FR2 configured for the UE.</li> <li>NOTE 3: Parameters in <i>CSI-MeasConfig</i> of P(S)Cell and sSCell are configured such that combination of P(S)Cell and sSCell are configured such that combination of p(S)Cell and sSCell are porting on PUSCH on P(S)Cell.</li> </ul>	for CCS from sSCell to PCell/PSCell if UE supports dci-Format1-2And0-2-				
<ul> <li>SCell USS set(s) (for CCS from sSCell to PCell/PSCell) and Type0/0A/1/2 CSS sets on PCell/PSCell can be configured so that the UE monitors them in overlapping slot of PCell/PSCell and sSCell</li> <li>no simultaneous monitoring between 'USS sets (for P(S)Cell scheduling) on sSCell' and 'Type 0/0A/1/2 CSS sets on P(S)Cell for DCI formats with CRC scrambled by C-RNTI/MCS-C-RNTI/CS-RNTI'</li> <li>simultaneous monitoring of 'USS sets (for P(S)Cell scheduling) on sSCell' and 'Type 0/0A/1/2 CSS sets on P(S)Cell scheduling) on sSCell' and 'Type 0/0A/1/2 CSS sets on P(S)Cell for DCI formats with CRC not scrambled by C-RNTI/MCS-C-RNTI/CS-RNTI'.</li> <li><i>pdcch-MonitoringOccasion-r17</i> indicates the PDCCH monitoring occasion(s) on sSCell for cross-carrier scheduling to PCell/PSCell. There are 2 values {val1, val2} where val1 = within the first 3 OFDM symbols of SCell slot overlapping with the first 3 OFDM symbols of PCell/PSCell slot and val2 = within the first 3 OFDM symbols of any sSCell slot overlapping with a PCell/PSCell slot.</li> <li>Frame boundary alignment between PCell/PSCell and sSCell.</li> </ul> NOTE 1: A UE supporting this FG does not imply that the UE can be configured with sSCell in shared channel access spectrum. NOTE 2: The CCS from SCell to PCell is applicable to FR1 only but there can be other SCells in FR2 configured for the UE. NOTE 3: Parameters in <i>CSI-MeasConfig</i> of P(S)Cell and sSCell are configured such that combination of P(S)Cell and sSCell configurations does not result in exceeding any of the UE's capabilities for A-/SP-CSI reporting on PUSCH on P(S)Cell.	r16.				
<ul> <li>CSS sets on PCell/PSCell can be configured so that the UE monitors them in overlapping slot of PCell/PSCell and sSCell</li> <li>no simultaneous monitoring between 'USS sets (for P(S)Cell scheduling) on sSCell' and 'Type 0/0A/1/2 CSS sets on P(S)Cell for DCI formats with CRC scrambled by C-RNTI/CS-C-RNTI/CS-RNTI'</li> <li>simultaneous monitoring of 'USS sets (for P(S)Cell scheduling) on sSCell' and 'Type 0/0A/1/2 CSS sets on P(S)Cell for DCI formats with CRC not scrambled by C-RNTI/MCS-C-RNTI/CS-RNTI'.</li> <li><i>pdcch-MonitoringOccasion-r17</i> indicates the PDCCH monitoring occasion(s) on sSCell for cross-carrier scheduling to PCell/PSCell. There are 2 values {val1, val2} where val1 = within the first 3 OFDM symbols of SSCell slot overlapping with the first 3 OFDM symbols of PCell/PSCell slot and val2 = within the first 3 OFDM symbols of any sSCell slot and val2 = within the first 3 OFDM symbols of any sSCell slot and PCell/PSCell slot.</li> <li>Frame boundary alignment between PCell/PSCell and SSCell.</li> <li>NOTE 1: A UE supporting this FG does not imply that the UE can be configured with sSCell in shared channel access spectrum.</li> <li>NOTE 2: The CCS from SSCell to PCell is applicable to FR1 only but there can be other SCells in shared channel access spectrum.</li> <li>NOTE 3: Parameters in <i>CSI-MeasConfig</i> of P(S)Cell and sSCell are configured such that combination of P(S)Cell and sSCell configurations does not result in exceeding any of the UE's capabilities for A-/SP-CSI reporting on PUSCH on P(S)Cell.</li> </ul>	- sSCell USS set(s) (for CCS from sSCell to PCell/PSCell) and Type0/0A/1/2				
<ul> <li>in overlapping slot of PCell/PSCell and sSCell</li> <li>no simultaneous monitoring between 'USS sets (for P(S)Cell scheduling) on sSCell' and 'Type 0/0A/1/2 CSS sets on P(S)Cell for DCI formats with CRC scrambled by C-RNTI/MCS-C-RNTI/CS-RNTI'</li> <li>simultaneous monitoring of 'USS sets (for P(S)Cell scheduling) on sSCell' and 'Type 0/0A/1/2 CSS sets on P(S)Cell for DCI formats with CRC not scrambled by C-RNTI/MCS-C-RNTI/CS-RNTI'.</li> <li><i>pdcch-MonitoringOccasion-r17</i> indicates the PDCCH monitoring occasion(s) on sSCell for cross-carrier scheduling to PCell/PSCell. There are 2 values {val1, val2} where val1 = within the first 3 OFDM symbols of SCell slot overlapping with the first 3 OFDM symbols of PCell/PSCell slot and val2 = within the first 3 OFDM symbols of any sSCell slot overlapping with a PCell/PSCell slot.</li> <li>Frame boundary alignment between PCell/PSCell and sSCell.</li> <li>NOTE 1: A UE supporting this FG does not imply that the UE can be configured with sSCell in shared channel access spectrum.</li> <li>NOTE 2: The CCS from sSCell to PCell is applicable to FR1 only but there can be other SCells in FR2 configured for the UE.</li> <li>NOTE 3: Parameters in <i>CSI-MeasConfig</i> of P(S)Cell and sSCell are configured such that combination of P(S)Cell and sSCell configurations does not result in exceeding any of the UE's capabilities for A-/SP-CSI reporting on PUSCH on P(S)Cell.</li> </ul>	CSS sets on PCell/PSCell can be configured so that the LIE monitors them				
<ul> <li>no simultaneous monitoring between 'USS sets (for P(S)Cell scheduling) on sSCell' and 'Type 0/0A/1/2 CSS sets on P(S)Cell for DCI formats with CRC scrambled by C-RNTI/MCS-C-RNTI/CS-RNTI'</li> <li>simultaneous monitoring of 'USS sets (for P(S)Cell scheduling) on sSCell' and 'Type 0/0A/1/2 CSS sets on P(S)Cell for DCI formats with CRC not scrambled by C-RNTI/MCS-C-RNTI/CS-RNTI'.</li> <li><i>pdcch-MonitoringOccasion-r17</i> indicates the PDCCH monitoring occasion(s) on sSCell for cross-carrier scheduling to PCell/PSCell. There are 2 values {val1, val2} where val1 = within the first 3 OFDM symbols of sSCell slot overlapping with the first 3 OFDM symbols of PCell/PSCell slot and val2 = within the first 3 OFDM symbols of any sSCell slot overlapping with a PCell/PSCell slot.</li> <li>Frame boundary alignment between PCell/PSCell and sSCell.</li> </ul> NOTE 1: A UE supporting this FG does not imply that the UE can be configured with sSCell in shared channel access spectrum. NOTE 2: The CCS from sSCell to PCell is applicable to FR1 only but there can be other SCells in FR2 configured for the UE. NOTE 3: Parameters in <i>CSI-MeasConfig</i> of P(S)Cell and sSCell are configured suct that combination of P(S)Cell and sSCell configurations does not result in exceeding any of the UE's capabilities for A-/SP-CSI reporting on PUSCH on P(S)Cell.	in overlapping clot of PCell/DSCell and sSCell				
<ul> <li>A DESTINUTATION OF THE STREAM O</li></ul>	no venapping siou or u dell/Fodell and sodell no simultancous monitoring batwoon 'LISS sate (for D(S)Coll sate duling)				
<ul> <li>on SSCell and Type 0/04/1/2 CSS sets on P(S)Cell for DCI formats with CRC scrambled by C-RNTI/MCS-C-RNTI/CS-RNTI'</li> <li>simultaneous monitoring of 'USS sets (for P(S)Cell scheduling) on SSCell' and 'Type 0/04/1/2 CSS sets on P(S)Cell for DCI formats with CRC not scrambled by C-RNTI/MCS-C-RNTI/CS-RNTI'.</li> <li><i>pdcch-MonitoringOccasion-r17</i> indicates the PDCCH monitoring occasion(s) on SSCell for cross-carrier scheduling to PCell/PSCell. There are 2 values {val1, val2} where val1 = within the first 3 OFDM symbols of SSCell slot overlapping with the first 3 OFDM symbols of PCell/PSCell slot and val2 = within the first 3 OFDM symbols of any sSCell slot overlapping with a PCell/PSCell slot.</li> <li>Frame boundary alignment between PCell/PSCell and sSCell.</li> <li>NOTE 1: A UE supporting this FG does not imply that the UE can be configured with sSCell in shared channel access spectrum.</li> <li>NOTE 2: The CCS from sSCell to PCell is applicable to FR1 only but there can be other SCells in FR2 configured for the UE.</li> <li>NOTE 3: Parameters in <i>CSI-MeasConfig</i> of P(S)Cell and sSCell are configured such that combination of P(S)Cell and sSCell configurations does not result in exceeding any of the UE's capabilities for A-/SP-CSI reporting on PUSCH on P(S)Cell.</li> </ul>	- no simulaneous monitoring between USS sets (IDI P(S)Cell Scheduling)				
<ul> <li>CKC scrambled by C-RNTI/MCS-C-RNTI/CS-RNTI'</li> <li>simultaneous monitoring of 'USS sets (for P(S)Cell scheduling) on sSCell' and 'Type 0/0A/1/2 CSS sets on P(S)Cell for DCI formats with CRC not scrambled by C-RNTI/MCS-C-RNTI/CS-RNTI'.</li> <li><i>pdcch-MonitoringOccasion-r17</i> indicates the PDCCH monitoring occasion(s) on sSCell for cross-carrier scheduling to PCell/PSCell. There are 2 values {val1, val2} where val1 = within the first 3 OFDM symbols of sSCell slot overlapping with the first 3 OFDM symbols of PCell/PSCell slot and val2 = within the first 3 OFDM symbols of any sSCell slot overlapping with a PCell/PSCell slot.</li> <li>Frame boundary alignment between PCell/PSCell and sSCell.</li> </ul> NOTE 1: A UE supporting this FG does not imply that the UE can be configured with sSCell in shared channel access spectrum. NOTE 2: The CCS from sSCell to PCell is applicable to FR1 only but there can be other SCells in FR2 configured for the UE. NOTE 3: Parameters in <i>CSI-MeasConfig</i> of P(S)Cell and sSCell are configured such that combination of P(S)Cell and sSCell configurations does not result in exceeding any of the UE's capabilities for A-/SP-CSI reporting on PUSCH on P(S)Cell.	on soceil and Type U/UA/1/2 CSS sets on P(S)Cell for DCI formats with				
<ul> <li>simultaneous monitoring of 'USS sets (for P(S)Cell scheduling) on sSCell' and 'Type 0/0A/1/2 CSS sets on P(S)Cell for DCI formats with CRC not scrambled by C-RNTI/MCS-C-RNTI'.</li> <li><i>pdcch-MonitoringOccasion-r17</i> indicates the PDCCH monitoring occasion(s) on sSCell for cross-carrier scheduling to PCell/PSCell. There are 2 values {val1, val2} where val1 = within the first 3 OFDM symbols of SSCell slot overlapping with the first 3 OFDM symbols of PCell/PSCell slot and val2 = within the first 3 OFDM symbols of any sSCell slot overlapping with a PCell/PSCell slot.</li> <li>Frame boundary alignment between PCell/PSCell and sSCell.</li> <li>NOTE 1: A UE supporting this FG does not imply that the UE can be configured with sSCell in shared channel access spectrum.</li> <li>NOTE 2: The CCS from sSCell to PCell is applicable to FR1 only but there can be other SCells in FR2 configured for the UE.</li> <li>NOTE 3: Parameters in <i>CSI-MeasConfig</i> of P(S)Cell and sSCell are configured such that combination of P(S)Cell and sSCell configurations does not result in exceeding any of the UE's capabilities for A-/SP-CSI reporting on PUSCH on P(S)Cell.</li> </ul>	CRC scrambled by C-RN11/MCS-C-RN11/CS-RNT1				
<ul> <li>sSCell' and 'Type 0/0A/1/2 CSS sets on P(S)Cell for DCI formats with CRC not scrambled by C-RNTI/MCS-C-RNTI/CS-RNTI'.</li> <li><i>pdcch-MonitoringOccasion-r17</i> indicates the PDCCH monitoring occasion(s) on sSCell for cross-carrier scheduling to PCell/PSCell. There are 2 values {val1, val2} where val1 = within the first 3 OFDM symbols of sSCell slot overlapping with the first 3 OFDM symbols of PCell/PSCell slot and val2 = within the first 3 OFDM symbols of any sSCell slot overlapping with a PCell/PSCell slot.</li> <li>Frame boundary alignment between PCell/PSCell and sSCell.</li> </ul> NOTE 1: A UE supporting this FG does not imply that the UE can be configured with sSCell in shared channel access spectrum. NOTE 2: The CCS from SSCell to PCell is applicable to FR1 only but there can be other SCells in FR2 configured for the UE. NOTE 3: Parameters in <i>CSI-MeasConfig</i> of P(S)Cell and sSCell are configured such that combination of P(S)Cell and sSCell configurations does not result in exceeding any of the UE's capabilities for A-/SP-CSI reporting on PUSCH on P(S)Cell.	<ul> <li>simultaneous monitoring of 'USS sets (for P(S)Cell scheduling) on</li> </ul>				
<ul> <li>CRC not scrambled by C-RNTI/MCS-C-RNTI/CS-RNTI'.</li> <li><i>pdcch-MonitoringOccasion-r17</i> indicates the PDCCH monitoring occasion(s) on sSCell for cross-carrier scheduling to PCell/PSCell. There are 2 values {val1, val2} where val1 = within the first 3 OFDM symbols of sSCell slot overlapping with the first 3 OFDM symbols of PCell/PSCell slot and val2 = within the first 3 OFDM symbols of PCell/PSCell slot and val2 = within the first 3 OFDM symbols of any sSCell slot overlapping with a PCell/PSCell slot.</li> <li>Frame boundary alignment between PCell/PSCell and sSCell.</li> </ul> NOTE 1: A UE supporting this FG does not imply that the UE can be configured with sSCell in shared channel access spectrum. NOTE 2: The CCS from sSCell to PCell is applicable to FR1 only but there can be other SCells in FR2 configured for the UE. NOTE 3: Parameters in <i>CSI-MeasConfig</i> of P(S)Cell and sSCell are configured such that combination of P(S)Cell and sSCell configurations does not result in exceeding any of the UE's capabilities for A-/SP-CSI reporting on PUSCH on P(S)Cell.	sSCell' and 'Type 0/0A/1/2 CSS sets on P(S)Cell for DCI formats with				
<ul> <li><i>pdcch-MonitoringOccasion-r17</i> indicates the PDCCH monitoring occasion(s) on sSCell for cross-carrier scheduling to PCell/PSCell. There are 2 values {val1, val2} where val1 = within the first 3 OFDM symbols of sSCell slot overlapping with the first 3 OFDM symbols of PCell/PSCell slot and val2 = within the first 3 OFDM symbols of any sSCell slot overlapping with a PCell/PSCell slot.</li> <li>Frame boundary alignment between PCell/PSCell and sSCell.</li> <li>NOTE 1: A UE supporting this FG does not imply that the UE can be configured with sSCell in shared channel access spectrum.</li> <li>NOTE 2: The CCS from sSCell to PCell is applicable to FR1 only but there can be other SCells in FR2 configured for the UE.</li> <li>NOTE 3: Parameters in <i>CSI-MeasConfig</i> of P(S)Cell and sSCell are configured such that combination of P(S)Cell and sSCell configurations does not result in exceeding any of the UE's capabilities for A-/SP-CSI reporting on PUSCH on P(S)Cell.</li> </ul>	CRC not scrambled by C-RNTI/MCS-C-RNTI/CS-RNTI'.				
<ul> <li>on sSCell for cross-carrier scheduling to PCell/PSCell. There are 2 values {val1, val2} where val1 = within the first 3 OFDM symbols of sSCell slot overlapping with the first 3 OFDM symbols of PCell/PSCell slot and val2 = within the first 3 OFDM symbols of any sSCell slot overlapping with a PCell/PSCell slot.</li> <li>Frame boundary alignment between PCell/PSCell and sSCell.</li> </ul> NOTE 1: A UE supporting this FG does not imply that the UE can be configured with sSCell in shared channel access spectrum. NOTE 2: The CCS from sSCell to PCell is applicable to FR1 only but there can be other SCells in FR2 configured for the UE. NOTE 3: Parameters in <i>CSI-MeasConfig</i> of P(S)Cell and sSCell are configured such that combination of P(S)Cell and sSCell configurations does not result in exceeding any of the UE's capabilities for A-/SP-CSI reporting on PUSCH on P(S)Cell.	- pdcch-MonitoringOccasion-r17 indicates the PDCCH monitoring occasion(s)				
<ul> <li>{val1, val2} where val1 = within the first 3 OFDM symbols of sSCell slot overlapping with the first 3 OFDM symbols of PCell/PSCell slot and val2 = within the first 3 OFDM symbols of any sSCell slot overlapping with a PCell/PSCell slot.</li> <li>Frame boundary alignment between PCell/PSCell and sSCell.</li> <li>NOTE 1: A UE supporting this FG does not imply that the UE can be configured with sSCell in shared channel access spectrum.</li> <li>NOTE 2: The CCS from sSCell to PCell is applicable to FR1 only but there can be other SCells in FR2 configured for the UE.</li> <li>NOTE 3: Parameters in <i>CSI-MeasConfig</i> of P(S)Cell and sSCell are configured such that combination of P(S)Cell and sSCell configurations does not result in exceeding any of the UE's capabilities for A-/SP-CSI reporting on PUSCH on P(S)Cell.</li> </ul>	on sSCell for cross-carrier scheduling to PCell/PSCell. There are 2 values				
<ul> <li>NOTE 1: A UE supporting this FG does not imply that the UE can be configured with sSCell in shared channel access spectrum.</li> <li>NOTE 2: The CCS from sSCell to PCell is applicable to FR1 only but there can be other SCells in FR2 configured for the UE.</li> <li>NOTE 3: Parameters in <i>CSI-MeasConfig</i> of P(S)Cell and sSCell are configured such that combination of P(S)Cell and sSCell configurations does not result in exceeding any of the UE's capabilities for A-/SP-CSI reporting on PUSCH on P(S)Cell.</li> </ul>	$\{v_{a}  1, v_{a}  2\}$ where $v_{a}  1 = within the first 3 OEDM symbols of sSCell slot$				
<ul> <li>NOTE 1: A UE supporting this FG does not imply that the UE can be configured with sSCell in shared channel access spectrum.</li> <li>NOTE 2: The CCS from sSCell to PCell is applicable to FR1 only but there can be other SCells in FR2 configured for the UE.</li> <li>NOTE 3: Parameters in <i>CSI-MeasConfig</i> of P(S)Cell and sSCell are configured such that combination of P(S)Cell and sSCell configurations does not result in exceeding any of the UE's capabilities for A-/SP-CSI reporting on PUSCH on P(S)Cell.</li> </ul>	overlapping with the first 3 OFDM symbols of PCell/PSCell slot and val2 –				
<ul> <li>PCell/PSCell slot.</li> <li>Frame boundary alignment between PCell/PSCell and sSCell.</li> <li>NOTE 1: A UE supporting this FG does not imply that the UE can be configured with sSCell in shared channel access spectrum.</li> <li>NOTE 2: The CCS from sSCell to PCell is applicable to FR1 only but there can be other SCells in FR2 configured for the UE.</li> <li>NOTE 3: Parameters in <i>CSI-MeasConfig</i> of P(S)Cell and sSCell are configured such that combination of P(S)Cell and sSCell configurations does not result in exceeding any of the UE's capabilities for A-/SP-CSI reporting on PUSCH on P(S)Cell.</li> </ul>	within the first 3 OFDM symbols of any sSCall slot overlapping with a				
<ul> <li>Frame boundary alignment between PCell/PSCell and sSCell.</li> <li>NOTE 1: A UE supporting this FG does not imply that the UE can be configured with sSCell in shared channel access spectrum.</li> <li>NOTE 2: The CCS from sSCell to PCell is applicable to FR1 only but there can be other SCells in FR2 configured for the UE.</li> <li>NOTE 3: Parameters in <i>CSI-MeasConfig</i> of P(S)Cell and sSCell are configured such that combination of P(S)Cell and sSCell configurations does not result in exceeding any of the UE's capabilities for A-/SP-CSI reporting on PUSCH on P(S)Cell.</li> </ul>					
<ul> <li>Frame boundary alignment between PCell/PSCell and SSCell.</li> <li>NOTE 1: A UE supporting this FG does not imply that the UE can be configured with sSCell in shared channel access spectrum.</li> <li>NOTE 2: The CCS from sSCell to PCell is applicable to FR1 only but there can be other SCells in FR2 configured for the UE.</li> <li>NOTE 3: Parameters in <i>CSI-MeasConfig</i> of P(S)Cell and sSCell are configured such that combination of P(S)Cell and sSCell configurations does not result in exceeding any of the UE's capabilities for A-/SP-CSI reporting on PUSCH on P(S)Cell.</li> </ul>	Futil/FOUGII Sill.				
<ul> <li>NOTE 1: A UE supporting this FG does not imply that the UE can be configured with sSCell in shared channel access spectrum.</li> <li>NOTE 2: The CCS from sSCell to PCell is applicable to FR1 only but there can be other SCells in FR2 configured for the UE.</li> <li>NOTE 3: Parameters in <i>CSI-MeasConfig</i> of P(S)Cell and sSCell are configured such that combination of P(S)Cell and sSCell configurations does not result in exceeding any of the UE's capabilities for A-/SP-CSI reporting on PUSCH on P(S)Cell.</li> </ul>	- Frame boundary alignment between PCell/PSCell and SSCell.				
<ul> <li>NOTE 1: A UE supporting this FG does not imply that the UE can be configured with sSCell in shared channel access spectrum.</li> <li>NOTE 2: The CCS from sSCell to PCell is applicable to FR1 only but there can be other SCells in FR2 configured for the UE.</li> <li>NOTE 3: Parameters in <i>CSI-MeasConfig</i> of P(S)Cell and sSCell are configured such that combination of P(S)Cell and sSCell configurations does not result in exceeding any of the UE's capabilities for A-/SP-CSI reporting on PUSCH on P(S)Cell.</li> </ul>					
<ul> <li>NOTE 1: A GE supporting this FG does not imply that the UE can be configured with sSCell in shared channel access spectrum.</li> <li>NOTE 2: The CCS from sSCell to PCell is applicable to FR1 only but there can be other SCells in FR2 configured for the UE.</li> <li>NOTE 3: Parameters in <i>CSI-MeasConfig</i> of P(S)Cell and sSCell are configured such that combination of P(S)Cell and sSCell configurations does not result in exceeding any of the UE's capabilities for A-/SP-CSI reporting on PUSCH on P(S)Cell.</li> </ul>	NOTE 4. A LIE supporting this EO does not imply that the LIE and have the				
<ul> <li>with SSCell in shared channel access spectrum.</li> <li>NOTE 2: The CCS from sSCell to PCell is applicable to FR1 only but there can be other SCells in FR2 configured for the UE.</li> <li>NOTE 3: Parameters in <i>CSI-MeasConfig</i> of P(S)Cell and sSCell are configured such that combination of P(S)Cell and sSCell configurations does not result in exceeding any of the UE's capabilities for A-/SP-CSI reporting on PUSCH on P(S)Cell.</li> </ul>	NOTE 1. A UE supporting this FG does not imply that the UE can be configured				
NOTE 2: The CCS from sSCell to PCell is applicable to FR1 only but there can be other SCells in FR2 configured for the UE.         NOTE 3: Parameters in CSI-MeasConfig of P(S)Cell and sSCell are configured such that combination of P(S)Cell and sSCell configurations does not result in exceeding any of the UE's capabilities for A-/SP-CSI reporting on PUSCH on P(S)Cell.	with sSCell in shared channel access spectrum.				
other SCells in FR2 configured for the UE. NOTE 3: Parameters in <i>CSI-MeasConfig</i> of P(S)Cell and sSCell are configured such that combination of P(S)Cell and sSCell configurations does not result in exceeding any of the UE's capabilities for A-/SP-CSI reporting on PUSCH on P(S)Cell.	NOTE 2: The CCS from sSCell to PCell is applicable to FR1 only but there can be				
NOTE 3: Parameters in CSI-MeasConfig of P(S)Cell and sSCell are configured such that combination of P(S)Cell and sSCell configurations does not result in exceeding any of the UE's capabilities for A-/SP-CSI reporting on PUSCH on P(S)Cell.	other SCells in FR2 configured for the UE.				
such that combination of P(S)Cell and sSCell configurations does not result in exceeding any of the UE's capabilities for A-/SP-CSI reporting on PUSCH on P(S)Cell.	NOTE 3: Parameters in CSI-MeasConfig of P(S)Cell and sSCell are configured				
result in exceeding any of the UE's capabilities for A-/SP-CSI reporting on PUSCH on P(S)Cell.	such that combination of P(S)Cell and sSCell configurations does not				
on PUSCH on P(S)Cell.	result in exceeding any of the UE's capabilities for A-/SP-CSI reporting				
	on PUSCH on P(S)Cell.				
crossCar Indicates with carrie the sched	<b>rierSchedulingUL-DiffSCS-r16</b> the UE supports cross carrier scheduling for the different numerologies er indicator field (CIF) in UL carrier aggregation where numerologies for uling CC and scheduled CC are different.	BC	No	N/A	N/A
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Value <i>low</i> CC of higl Value <i>higl</i> CC of low Value <i>bot</i> CC of higl SCS.	<i>h-to-high</i> indicates UE supports scheduling CC of lower SCS to scheduled her SCS; <i>h-to-low</i> indicates UE supports scheduling CC of higher SCS to scheduled er SCS; <i>h</i> indicates UE supports both scheduling CC of lower SCS to scheduled her SCS and scheduling CC of higher SCS to scheduled CC of lower				
NOTE 1:	<ul> <li>Following components are applicable to cross carrier scheduling from lower SCS to higher SCS when the UE reports this feature:</li> <li>Processing one unicast DCI scheduling UL per scheduling CC slot per scheduled CC for FDD scheduling CC</li> <li>Processing 2 unicast DCI scheduling UL per scheduling CC slot per scheduled CC for TDD scheduling CC</li> </ul>				
NOTE 2.	<ul> <li>Processing components are applicable to closs carrier scheduling from higher SCS to lower SCS when the UE reports this feature:</li> <li>Processing one unicast DCI scheduling UL per N consecutive scheduling CC slot per scheduled CC for FDD scheduling CC</li> <li>Processing 2 unicast DCI scheduling UL per N consecutive scheduling CC slot per scheduled CC for TDD scheduling CC</li> <li>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)</li> </ul>				

<i>csi-ReportingCrossPUCCH-Grp-r16</i> Indicates the support of CSI reporting cross PUCCH group, comprised of the following functional components:	BC	No	N/A	N/A
<ul> <li>Support reporting CSI of an SCell belonging to secondary PUCCH group by PUSCH or PUCCH of active serving cells belonging to primary PUCCH group, for both during and after SCell activation procedure;</li> <li>Support reporting CSI of an SCell belonging to primary PUCCH group by PUSCH or PUCCH of active serving cells belonging to secondary PUCCH group, for both during and after SCell activation procedure;</li> <li>Support for P-CSI and A-CSI for cross-PUCCH group CSI reporting;</li> <li><i>computationTimeForA-CSI-r16</i> indicates the CSI computation time for A-CSI; if 'relaxed is reported, the additionalSymbols-r16 shall be reported to indicate for each supported SCS the required additional number of symbols in addition to existing Z and Z' for aperiodic CSI report for cross-PUCCH group CSI reporting (the same SCS set definition as in clause 5.4 of TS 38.214 [12]). The value s14 indicates 14 symbols, and so on. For FR2-2 bands, the time relaxation values of the required additional number of symbols for SCS 480/960 kHz (µ=5 and µ=6) are the same amount of absolute time as UE reported for SCS 120kHz (µ=3).</li> <li><i>sp-CSI-ReportingOnPUCCH-r16</i> indicates whether the UE supports SP-CSI reporting on PUSCH for cross-PUCCH group CSI reporting;</li> <li><i>sp-CSI-ReportingOnPUSCH-r16</i> indicates whether the UE supports SP-CSI reporting on PUSCH for cross-PUCCH group CSI reporting;</li> <li><i>sp-CSI-ReportingOnPUSCH-r16</i> indicates whether the UE supports SP-CSI reporting on PUSCH for cross-PUCCH group CSI reporting;</li> <li><i>carrierTypePairList-r16</i> indicates one or multiple supported carrier type pairs(s). For each supported carrier type pair in <i>carrierTypePairList-r16</i>:</li> <li>carrierForCSI-Measurement-r16 indicates the carrier type in a PUCCH group in which CSI measurement is performed;</li> <li>carrierForCSI-Reporting-r16 indicates the carrier type in the other PUCCH group in which CSI report is performed,</li> <li>where a carrier type is one of {<i>fr1-NonSharedTDD-r16</i></li></ul>				
UE indicating support of this feature shall indicate <i>csi-ReportFramework</i> and indicate support of at least one of <i>twoPUCCH-Group, diffNumerologyAcrossPUCCH-Group</i> and <i>twoPUCCH-Grp-ConfigurationsList-r16.</i>				
NOTE 1: For a band combination with SUL, the SUL band is counted as one of the bands.				
NOTE 2: For a band combination with SDL, the SDL band is counted as one of the 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/PUSCH transmission location for CSI measurement or CSI reporting, the SUL in the same cell as in the NUL can also be configured for PUCCH/PUSCH transmission				
csi-RS-IM-ReceptionForFeedbackPerBandComb	BC	Yes	N/A	N/A
<ul> <li>Indicates support of CSI-RS and CSI-IM reception for CSI feedback. This capability signalling comprises the following parameters:</li> <li>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 MIMO-ParametersPerBand-&gt; maxNumberSimultaneousNZP-CSI-RS-PerCC and in Phy-ParametersFRX-Diff-&gt; maxNumberSimultaneousNZP-CSI-RS-PerCC;</li> </ul>				
<ul> <li>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-&gt;</i> <i>totalNumberPortsSimultaneousNZP-CSI-RS-PerCC</i> and in <i>Phy-</i> <i>ParametersFRX-Diff-&gt; totalNumberPortsSimultaneousNZP-CSI-RS-PerCC</i>.</li> </ul>				
The UE is mandated to report csi-RS-IM-ReceptionForFeedbackPerBandComb.				

dci-FormatsPCellPSCellUSS-Sets-r17	BC	No	N/A	FR1
Indicates whether UE supports the monitoring DCI formats 0_1,1_1,0_2 (if				only
supported),1_2 (if supported) on PCell/PSCell USS set(s).				
UE indicating support of this feature shall indicate support of				
crossCarrierSchedulingSCell-SpCellTypeA-r17.				
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 LIE 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 crossCarrierA-				
CSI-trigDiffSCS-r16.				
demodulationEnhancementCA-r17	BC	NO	NO	FR1
indicates whether the UE supports the enhanced demodulation processing for carrier aggregation for HST-SEN joint transmission scheme with velocity up to				oniy
500km/h as specified in TS 38.101-4 [18].				
UE indicating support of this feature shall indicate support of				
demodulationEnhancement-r16.				
diffNumerologyAcrossPUCCH-Group	BC	No	N/A	N/A
Indicates whether different numerology across two NR PUCCH groups for data and				
the LIE				
diffNumerologyAcrossPUCCH-Group-CarrierTypes-r16	BC	No	N/A	N/A
Indicates whether different numerology across two NR PUCCH groups for data and	20			
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-ConfigurationsList-r16.				
diffNumerologyWithinPUCCH-GroupLargerSCS	BC	No	N/A	N/A
PLICCH group and a same numerology between DL and LL 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 POCCH groups, it indicates whether the				
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				
same numerology across NR carriers in SCG (in FR2).				
diffNumerologyWithinPUCCH-GroupLargerSCS-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 larger SCS for data/control channel at a given time in NR CA for UE supporting				
indicating support of this feature shall indicate support of twoPUCCH_Gro				
Configurations list-r16.				
NOTE: PUCCH is sent on a carrier with SCS not smaller than SCS of any DL				
carriers corresponding to the PUCCH group.				

<i>diffNumerologyWithinPUCCH-GroupSmallerSCS</i> Indicates whether UE supports different numerology across carriers within a PUCCH group and a same numerology between DL and UL per carrier for data/control channel at a given time in NR CA, (NG)EN-DC/NE-DC and NR-DC. In case of NR CA and (NG)EN-DC/NE-DC with one NR PUCCH group and in case of NR CA with two NR PUCCH groups, it also indicates whether the UE supports different numerologies across NR carriers within the same NR PUCCH group up to two different numerologies within the same NR PUCCH group, wherein NR PUCCH is sent on the carrier with smaller SCS for data and control channel at a given time. In case of (NG)EN-DC/NE-DC with two NR PUCCH groups, it indicates whether the UE supports different numerologies across NR carriers up to two different numerologies within an NR PUCCH group in FR1, wherein NR PUCCH is sent on the carrier with smaller SCS, and same numerology across NR carriers within another NR PUCCH group in FR2 for data and control channel at a given time. In case of NR-DC, it indicates whether the UE supports different numerologies across NR carriers within the same NR PUCCH group in MCG (in FR1) up to two different numerologies within the same NR PUCCH group wherein NR PUCCH is sent on the carrier with smaller SCS for data/control channel at a given time.	BC	No	N/A	N/A
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> <i>ConfigurationsList-r16.</i> NOTE: NR PUCCH is sent on a carrier with SCS not larger than SCS of any DL				11/74
carriers corresponding to the NR PUCCH group.				
disablingScalingFactorDeactSCell-r17 Indicates whether UE supports disabling scaling factor α for Cross-carrier scheduling (CCS) from SCell configured with cross-carrier scheduling to PCell/PSCell (sSCell) to PCell/PSCell(Type A or Type B) when sSCell is deactivated (i.e. scaling factor α is not applied for PDCCH overbooking/BD/CCE limit computation when sSCell is deactivated). UE indicating support of this feature shall indicate support of crossCarrierSchedulingSCell-SpCellTypeA-r17 or crossCarrierSchedulingSCell- SpCellTypeB-r17.	BC	No	N/A	FR1 only
disablingScalingFactorDormantSCell-r17 Indicates whether UE supports disabling scaling factor α for Cross-carrier scheduling (CCS) from SCell configured with cross-carrier scheduling to PCell/PSCell (sSCell) to PCell/PSCell(Type A or Type B) when sSCell is switched to dormant BWP (i.e. scaling factor α is not applied for PDCCH overbooking/BD/CCE limit computation when sSCell is switched to dormant BWP). UE indicating support of this feature shall indicate support of crossCarrierSchedulingSCell-SpCellTypeA-r17 or crossCarrierSchedulingSCell- SpCellTypeB-r17.	BC	No	N/A	FR1 only
dmrs-BundlingNonBackToBackTX-PerBC-r17	BC	No	Ν/Δ	N/A
Indicates whether the UE supports DM-RS bundling for non-back-to-back transmission for consecutive slots for PUSCH and PUCCH only for corresponding supported back-to-back transmission as reported in <i>dmrs-BundlingPUSCH-</i> <i>RepTypeAPerBC-r17</i> , <i>dmrs-BundlingPUSCH-RepTypeBPerBC-r17</i> , <i>dmrs-</i> <i>BundlingPUSCH-multiSlotPerBC-r17</i> or <i>dmrs-BundlingPUCCH-RepPerBC-r17</i> . UE indicating support of this feature shall also indicate support of at least one of <i>dmrs-BundlingPUSCH-RepTypeAPerBC-r17</i> , <i>dmrs-BundlingPUSCH-</i> <i>RepTypeBPerBC-r17</i> , <i>dmrs-BundlingPUSCH-</i> <i>RepTypeBPerBC-r17</i> , <i>dmrs-BundlingPUSCH-multiSlotPerBC-r17</i> or <i>dmrs-</i> <i>BundlingPUCCH-RepPerBC-r17</i> . NOTE: This capability is only applicable when UE is configured with single uplink				19/75
carrier within a frequency range.				

<i>dmrs-BundlingPUCCH-RepPerBC-r17</i> Indicates whether the UE supports DM-RS bundling for PUCCH repetitions for PUCCH formats 1/3/4 over consecutive symbols.	BC	No	N/A	N/A
UE indicating support of this feature shall also indicate support of <i>maxDurationDMRS-Bundling-r17</i> in at least one of the bands in the band combination and <i>pucch-Repetition-F1-3-4</i> .				
<ul> <li>This feature is applicable to following multiple carrier scenarios in addition to single carrier scenarios:</li> <li>FR1+FR2 UL CA, FR1+FR2 DC, and EN-DC with NR on FR2. DMRS bundling configuration is limited to one uplink NR carrier in total on all FRs at a time.</li> <li>FR1 inter-band DL CA with a "single" uplink band configured, meaning no switching to transmit SRS on another carrier.</li> <li>DL CA with "additional" UL carrier configured with SRS only (i.e. no PUCCH/PUSCH configured).</li> <li>FR1 inter-band UL CA with DMRS bundling.</li> <li>SUL with DMRS bundling.</li> <li>FOR the last three scenarios listed above, DMRS bundling can be applied with the following conditions: <ul> <li>Concurrent transmissions scheduled/configured over multiple carriers are not expected by UE.</li> <li>Only configuration of a single TAG.</li> <li>Only applicable for the back-to-back case (i.e., zero gap between two transmissions within an actual TDW).</li> <li>Only one band can be configured with DMRS bundling at a time.</li> </ul> </li> </ul>				
NOTE 1: Under the above conditions, phase continuity and power consistency within any actual TDW on one carrier is not impacted by operations on a different carrier.				
NOTE 2: Under the above conditions, the events defined in clause 6.1.7 of TS 38.214 [12] for the carrier with DMRS bundling are not triggered by any transmission within any actual TDW on the other carrier.				
NOTE 3: If the modulation scheme higher than QPSK is scheduled for transmission on any carrier configured with DMRS bundling, DMRS bundling is not applicable (i.e., the error case and up to UE implementation).				

<i>dmrs-BundlingPUSCH-multiSlotPerBC-r17</i> Indicates whether the UE supports DM-RS bundling for TB processing over multi- slot (TBoMS) PUSCH over consecutive symbols.	BC	No	N/A	N/A
UE indicating support of this feature shall also indicate support of <i>maxDurationDMRS-Bundling-r17</i> and <i>tb-ProcessingMultiSlotPUSCH-r17</i> in at least one of the bands in the band combination.				
This feature is applicable to following multiple carrier scenarios in addition to single				
carrier scenarios:				
<ul> <li>FR1+FR2 UL CA, FR1+FR2 DC, and EN-DC with NR on FR2. DMRS</li> </ul>				
bundling configuration is limited to one uplink NR carrier in total on all FRs at				
a unit. ED1 inter hand DL CA with a "aingle" uplick hand configured maching pa				
- FRT Inter-band DL CA with a single uplink band configured, meaning no switching to transmit SRS on another carrier				
- DL CA with "additional" UL carrier configured with SRS only (i.e. no				
PUCCH/PUSCH configured).				
<ul> <li>FR1 inter-band UL CA with DMRS bundling.</li> </ul>				
- SUL with DMRS bundling.				
For the last three scenarios listed above, DMRS bundling can be applied with the				
following conditions:				
<ul> <li>Concurrent transmissions scheduled/configured over multiple carriers are not expected by UF</li> </ul>				
- Only configuration of a single TAG.				
<ul> <li>Only applicable for the back-to-back case (i.e., zero gap between two</li> </ul>				
transmissions within an actual TDW).				
- Only one band can be configured with DMRS bundling at a time.				
NOTE 1: Under the above conditions, phase continuity and power consistency				
within any actual TDW on one carrier is not impacted by operations on a				
different carrier.				
NOTE 2: Under the above conditions, the events defined in clause 6.1.7 of TS				
38.214 [12] for the carrier with DMRS bundling are not triggered by any				
transmission within any actual TDW on the other carrier.				
NOTE 3: If the modulation scheme higher than QPSK is scheduled for				
transmission on any carrier configured with DMRS bundling, DMRS				
bundling is not applicable (i.e., the error case and up to UE				
Implementation).				
dmrs-BundlingPUSCH-multiSlot-r17 in a hand in the hand combination				
and dmrs-BundlingPUSCH-multiSlotPerBC-r17 is supported for the band				
combination, the UE supports DMRS bundling for the repetitions of				
TBoMS for the band.				

<i>dmrs-BundlingPUSCH-RepTypeAPerBC-r17</i> Indicates whether the UE supports DM-RS bundling for PUSCH repetition type A over consecutive symbols.	BC	No	N/A	N/A
UE indicating support of this feature shall also indicate support of <i>maxDurationDMRS-Bundling-r17</i> in at least one of the bands in the band combination and at least one of <i>type1-PUSCH-RepetitionMultiSlots</i> , <i>type2-PUSCH-RepetitionMultiSlots</i> or <i>pusch-RepetitionMultiSlots</i> .				
<ul> <li>This feature is applicable to following multiple carrier scenarios in addition to single carrier scenarios:</li> <li>FR1+FR2 UL CA, FR1+FR2 DC, and EN-DC with NR on FR2. DMRS bundling configuration is limited to one uplink NR carrier in total on all FRs at a time.</li> <li>FR1 inter-band DL CA with a "single" uplink band configured, meaning no switching to transmit SRS on another carrier.</li> <li>DL CA with "additional" UL carrier configured with SRS only (i.e. no PUCCH/PUSCH configured)</li> <li>FR1 inter-band UL CA with DMRS bundling</li> <li>SUL with DMRS bundling</li> <li>For the last three scenarios listed above, DMRS bundling can be applied with the following conditions:</li> <li>Concurrent transmissions scheduled/configured over multiple carriers are not expected by UE</li> <li>Only configuration of a single TAG</li> <li>Only applicable for the back-to-back case (i.e., zero gap between two transmissions within an actual TDW)</li> <li>Only one band can be configured with DMRS bundling at a time</li> </ul>				
NOTE 1: Under the above conditions, phase continuity and power consistency within any actual TDW on one carrier is not impacted by operations on a different carrier.				
NOTE 2: Under the above conditions, the events defined in clause 6.1.7 of TS 38.214 [12] for the carrier with DMRS bundling are not triggered by any transmission within any actual TDW on the other carrier.				
NOTE 3: If the modulation scheme higher than QPSK is scheduled for transmission on any carrier configured with DMRS bundling, DMRS bundling is not applicable (i.e., the error case and up to UE implementation).				

<i>dmrs-BundlingPUSCH-RepTypeBPerBC-r17</i> Indicates whether the UE supports DM-RS bundling for PUSCH repetition type B over consecutive symbols.	BC	No	N/A	N/A
UE indicating support of this feature shall also indicate support of maxDurationDMRS-Bundling-r17 in at least one of the bands in the band				
combination and <i>pusch-RepetitionTypeB-r16</i> .				
This feature is applicable to following multiple carrier scenarios in addition to single				
carrier scenarios:				
<ul> <li>FR1+FR2 UL CA, FR1+FR2 DC, and EN-DC with NR on FR2. DMRS bundling configuration is limited to one uplink NR carrier in total on all FRs at</li> </ul>				
<ul> <li>a time.</li> <li>FR1 inter-band DL CA with a "single" uplink band configured, meaning no switching to transmit SPS on another carrier.</li> </ul>				
<ul> <li>DL CA with "additional" UL carrier configured with SRS only (i.e. no PUCCH/PUSCH configured).</li> </ul>				
- FR1 inter-band UL CA with DMRS bundling.				
<ul> <li>SUL with DMRS bundling.</li> <li>For the last three scenarios listed above, DMRS bundling can be applied with the</li> </ul>				
following conditions:				
<ul> <li>Concurrent transmissions scheduled/configured over multiple carriers are not expected by UE.</li> </ul>				
- Only configuration of a single TAG.				
<ul> <li>Only applicable for the back-to-back case (i.e., zero gap between two transmissions within an actual TDW).</li> </ul>				
- Only one band can be configured with DMRS bundling at a time.				
NOTE 1: Under the above conditions, phase continuity and power consistency within any actual TDW on one carrier is not impacted by operations on a different carrier.				
NOTE 2: Under the above conditions, the events defined in clause 6.1.7 of TS 38 214 [12] for the carrier with DMRS bundling are not triggered by any				
transmission within any actual TDW on the other carrier.				
NOTE 3: If the modulation scheme higher than QPSK is scheduled for transmission on any carrier configured with DMRS bundling DMRS				
bundling is not applicable (i.e., the error case and up to UE				
implementation).	BC	No	NI/A	Ν/Λ
Indicates whether the UE supports restarting DM-RS bundling after the events	BC	INU	IN/A	IN/A
triggered by DCI or MAC CE that violate power consistency and phase continuity.				
UE indicating support of this feature shall also indicate support of				
<i>maxDurationDMRS-Bundling-r17</i> in at least one of the bands in the band combination.				
NOTE: Events which are triggered by DCI or MAC CE, but do not require UE				
capability to resume maintaining power consistency and/or phase				
from this feature.				
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 and dual LO frequencies for FR1 or dual LO frequencies for FR2. If				
absent in such band combinations, the UE supports single PA and single LO				
frequency for all the ULs for FR1, or single LO frequency for all the ULs for FR2. For other hand combinations, this field is not applicable				

<ul> <li>dynamicPUCCH-CellSwitchDiffLengthSingleGroup-r17</li> <li>Indicates whether the UE supports PUCCH cell switching based on dynamic indication in the DCI scheduling the PUCCH for different length (in physical time) of overlapping PUCCH slots/sub-slots for a single PUCCH group only. The capability signalling comprises the following parameters:         <ul> <li>pucch-Group-r17 indicates for which PUCCH group the UE supports PUCCH cell switching based on dynamic indication. Value primaryGroupOnly indicates that only primary PUCCH group can support PUCCH cell switch, value secondaryGroupOnly indicates that only secondary PUCCH group can support PUCCH cell switch, and value eitherPrimaryOrSecondaryGroup indicates that either primary or secondary PUCCH group can support PUCCH cell switch.</li> <li>pucch-Group-Config-r17 indicates one or multiple of supported carrier type pairs that can support PUCCH cell switch, with fr1-FR1-NonSharedTDD-r17 indicating the carrier type pair (FR1 licensed TDD, FR2 licensed TDD), fr2-FR2-NonSharedTDD-r17 indicating the carrier type pair (FR1 licensed TDD).</li> </ul> </li> </ul>	BC	No	TDD only	N/A
NOTE: This feature applies to cells in the same TAG only. If UE supporting this FG also supports both <i>diffNumerologyWithinPUCCH-GroupSmallerSCS</i> and <i>diffNumerologyWithinPUCCH-GroupLargerSCS</i> or both <i>diffNumerologyWithinPUCCH-GroupLargerSCS</i> or both <i>diffNumerologyWithinPUCCH-GroupLargerSCS-CarrierTypes-r16</i> and <i>diffNumerologyWithinPUCCH-GroupLargerSCS-CarrierTypes-r16</i> or <i>maxUpTo3Diff-NumerologiesConfigSinglePUCCH-grp-r16</i> or <i>maxUpTo4Diff-NumerologiesConfigSinglePUCCH-grp-r16</i> when UE is not configured with two NR PUCCH groups, the UE supports the cases of both same and different numerologies between switchable cells. Otherwise, the UE supports the case of same numerology between switchable cells.				
dynamicPUCCH-CellSwitchSameLengthSingleGroup-r17	BC	No	TDD	N/A
<ul> <li>Indicates whether the UE supports PUCCH cell switching based on dynamic indication in the DCI scheduling the PUCCH for same length (in physical time) of overlapping PUCCH slots/sub-slots for a single PUCCH group only. The capability signalling comprises the following parameters:         <ul> <li><i>pucch-Group-r17</i> indicates for which PUCCH group the UE supports PUCCH cell switching based on dynamic indication. Value <i>primaryGroupOnly</i> indicates that only primary PUCCH group can support PUCCH cell switch, value <i>secondaryGroupOnly</i> indicates that only secondary PUCCH group can support PUCCH group can support PUCCH cell switch, and value <i>eitherPrimaryOrSecondaryGroup</i> indicates that either primary or secondary PUCCH group can support PUCCH cell switch.</li> <li><i>pucch-Group-Config-r17</i> indicates one or multiple of supported carrier type pairs that can support PUCCH cell switch, with <i>fr1-FR1-NonSharedTDD-r17</i> indicating the carrier type pair (FR1 licensed TDD, <i>fr2-FR2-NonSharedTDD-r17</i> indicating the carrier type pair (FR1 licensed TDD), and <i>fr1-FR2-NonSharedTDD-r17</i> indicating the carrier type pair (FR1 licensed TDD).</li> </ul> </li> </ul>	-		only	
NOTE: This feature applies to cells in the same TAG only. If UE supporting this FG also supports both <i>diffNumerologyWithinPUCCH-GroupSmallerSCS</i> and <i>diffNumerologyWithinPUCCH-GroupLargerSCS</i> or both <i>diffNumerologyWithinPUCCH-GroupSmallerSCS-CarrierTypes-r16</i> and <i>diffNumerologyWithinPUCCH-GroupLargerSCS-CarrierTypes-r16</i> or mark in Tag20ff AumerologyContext in Context in Tag20ff AumerologyContext in Context in Cont				

<i>dynamicPUCCH-CellSwitchDiffLengthTwoGroups-r17</i> Indicates whether the UE supports PUCCH cell switching based on dynamic indication in the DCI scheduling the PUCCH for different length (in physical time) of overlapping PUCCH slots/sub-slots for two PUCCH groups. The capability indicates one or multiple of supported configuration(s) of {primary PUCCH group config, secondary PUCCH group config}. The capability signalling of each primary or secondary PUCCH group configuration indicates one or multiple of carrier type pairs that can support PUCCH cell switch, with <i>fr1-FR1-NonSharedTDD-r17</i> indicating the carrier type pair (FR1 licensed TDD, FR1 licensed TDD), <i>fr2-FR2-</i> <i>NonSharedTDD-r17</i> indicating the carrier type pair (FR2 licensed TDD), and <i>fr1-FR2-NonSharedTDD-r17</i> indicating the carrier type pair (FR1 licensed TDD), and <i>fr1-FR2-NonSharedTDD-r17</i> indicating the carrier type pair (FR1 licensed TDD, FR2 licensed TDD).	BC	No	TDD only	N/A
NOTE: This feature applies to cells in the same TAG only. If UE supporting this FG also supports both <i>diffNumerologyWithinPUCCH-GroupSmallerSCS</i> and <i>diffNumerologyWithinPUCCH-GroupLargerSCS</i> or both <i>diffNumerologyWithinPUCCH-GroupSmallerSCS-CarrierTypes-r16</i> and <i>diffNumerologyWithinPUCCH-GroupLargerSCS-CarrierTypes-r16</i> , the UE supports the cases of both same and different numerologies between switchable cells. Otherwise, the UE supports the case of same numerology between switchable cells.				
<ul> <li>dynamicPUCCH-CellSwitchSameLengthTwoGroups-r17</li> <li>Indicates whether the UE supports PUCCH cell switching based on dynamic indication in the DCI scheduling the PUCCH for same length (in physical time) of overlapping PUCCH slots/sub-slots for two PUCCH groups. The capability indicates one or multiple of supported configuration(s) of {primary PUCCH group config, secondary PUCCH group config}. The capability signalling of each primary or secondary PUCCH group configuration indicates one or multiple of carrier type pairs that can support PUCCH cell switch, with <i>fr1-FR1-NonSharedTDD-r17</i> indicating the carrier type pair (FR1 licensed TDD, FR1 licensed TDD), <i>fr2-FR2-NonSharedTDD-r17</i> indicating the carrier type pair (FR1 licensed TDD), and <i>fr1-FR2-NonSharedTDD-r17</i> indicating the carrier type pair (FR1 licensed TDD).</li> <li>NOTE: This feature applies to cells in the same TAG only. If UE supporting this FG also supports both diffNumerologyWithinPUCCH-GroupLargerSCS or both diffNumerologyWithinPUCCH-GroupLargerSCS-CarrierTypes-r16 and diffNumerologyWithinPUCCH-GroupLargerSCS-CarrierTypes-r16, the UE supports the cases of both same and different numerologies between</li> </ul>	BC	No	TDD only	N/A
<ul> <li>Indertable cells. Otherwise, the OE supports the case of same numerology between switchable cells.</li> <li>fdm-CodebookForMux-UnicastMulticastHARQ-ACK-r17</li> <li>Indicates whether the UE supports FDM-ed Type-1 and Type-2 HARQ-ACK codebooks for multiplexing HARQ-ACK for unicast and HARQ-ACK for multicast, comprised of the following functional components:         <ul> <li>Support of FDM-ed Type-1 HARQ-ACK codebooks for multiplexing HARQ-ACK for unicast and ACK/NACK-based HARQ-ACK for multicast on PUCCH or PUSCH;</li> <li>Support of Type-2 HARQ-ACK codebooks for multiplexing HARQ-ACK for unicast and HARQ-ACK for multicast on PUCCH or PUSCH;</li> <li>Support of Type-2 HARQ-ACK codebooks for multiplexing HARQ-ACK for unicast and HARQ-ACK for multicast on PUCCH or PUSCH with max number of G-RNTIs indicated in maxNumberG-RNTI-HARQ-ACK-Codebook-r17, which is not larger than max number of G-RNTIs indicated in maxNumberG-CS-RNTI-tharQ-ACK-Codebook-r17, which is not larger than max number of fdm-MulticastUnicast-r17, and at least one of {ack-NACK-FeedbackForMulticast-r17, nack-OnlyFeedbackForSPS-Multicast-r17, ack-NACK-FeedbackForSPS-Multicast-r17, nack-OnlyFeedbackForSPS-Multicast-r17].</li> </ul> </li> <li>NOTE 1: FDM-ed Type-1 HARQ-ACK codebook is generated by concatenating the Type-1 sub-codebook for unicast and the Type-1 sub-codebook for multicast.</li> <li>NOTE 2: The Type-2 HARQ-ACK codebook is generated by concatenating the Type-2 sub-codebook for unicast and the Type-2 sub-codebook for multicast and the Type-2 sub-codeboo</li></ul>	BC	No	N/A	N/A

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-dupley operation in TDD CA with same SCS. The LIE can			- ,	
include this field for hand combinations including only introduced TDD CA as if				
include this field for band combinations including only intra-band TDD CA of I				
simultaneousRx1xInterBandCA is not present for band combinations involving mix				
of intra-band TDD CA and inter-band TDD CA.				
If this field is included in ca-ParametersNR-forDC-v1610 for IAB-MT it indicates				
In the new provide diversional collision benefities between version and other colle for				
TAB-INT supports directional collision handling between reference and other cells for				
half-duplex operation in TDD NR-DC with same SCS across MCG and SCG.				
higherPowerLimit-r17	BC	No	N/A	FR1
Indicates whether LIE supports increase in maximum output power above the power				only
indicates whether of supports increase in maximum output power above the power				Only
class indication for inter-band UL CA and NR-DC band combinations as defined in				
clause 6.2A of TS 38.101-1 [2].				
interCA-NonAlignedFrame-r16	BC	No	N/A	N/A
Indicates whather the LE supports inter hand carrier aggregation operation where				
indicates whether the OE 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-SpecificCarrier ist for SpCell is smaller than or				
agual to the lowest subcorrier oppoint of the subcorrier oppoints given in and				
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 whather the LE supports inter hand carrier aggregation operation where				
indicates whether the OE supports inter-band camer aggregation operation where,				
within the same cell group, the trame 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 sos-Spacific Carrier ist				
iowest subcarrier spacing of the subcarrier spacings given in scs-specific carrier list				
for at least one of the non-aligned SCells.				
A UE indicating support of <i>interCA-NonAlignedFrame-B-r16</i> shall also indicate				
support of interCA-NonAlignedFrame-r16				
interesting and the second s	DO	Nia		
Interrequars-rio	BC	INO	N/A	IN/A
Indicates whether the UE supports inter-frequency handover, e.g. support of				
simultaneous DL reception of PDCCH and PDSCH from source and target cell. A				
LIE indicating this capability shall also support inter-frequency synchronous DAPS				
bandavar, and aingle III transmission for inter frequency DADS handavar. The				
handover, and single OL transmission for inter-frequency DAPS handover. The				
capability signalling comprises of the following parameters:				
- interFreqAsyncDAPS-r16 indicates whether the LIF 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 LIL and DL If				
shows the UE does not approve side all as DL COS being different in DDC				
absent, the DE does not support either DE of DE SCS being different in DAPS				
handover.				
- interFreqMultiUL-TransmissionDAPS-r16 indicates whether the UE supports				
simultaneous III, transmission in source PCell and target PCell during a DAPS				
simulated by transmission in source role and target role during a DAro				
nandover. The DE 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				
inter and a solution of the second of the se				
- Inter-reqSemiStaticPowerSnaringDAPS-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 LIF				
aupporte comi etatio III, pouver choring mode 2 during DADC handouse hateres				
supports semi-static OL power snaring 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 the fold				
not include this field.				
- <i>interFreqDynamicPowersharingDAPS-r16</i> 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 EP. The LIE only include				
this field if some the power of a manufacture of the second				
this field it 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
upper edge of highest CC of Intra-band UL non-contiguous CA, i.e. including both				Offiy
the aggregated bandwidth and the gap bandwidth. 3 frequency separation classes				
are introduced and the values are defined in Table 5.3A.5-2 of TS 38.101-1 [2].	BC	No	N/A	NI/A
Indicates whether the UE supports being configured with a group of cells and	DC			
switching search space set group jointly over these cells. If the UE supports this				
feature, the UE needs to report searchSpaceSwitchWithDCI-r16 or				
maxCC-32-DI -HARQ-ProcessER2-2-r17	BC	No	N/A	N/A
Indicates the maximum number of component carriers that can be configured with				
32 DL HARQ processes. Value n1 means maximum 1 component carrier, value n2				
means maximum 2 component carriers, and so on.				
UE supporting this feature shall indicate support of support32-DL-HARQ-				
ProcessPerSCS-r17.				
maxCC-32-UL-HARQ-ProcessFR2-2-r17	BC	No	N/A	N/A
Indicates the maximum number of component carriers that can be configured with 32 LIL HARO processes. Value n1 means maximum 1 component carrier, value n2				
means maximum 2 component carriers, and so on.				
UE supporting this feature shall indicate support of <i>support32-UL-HARQ-</i>				
maxUplinkDutvCvcle-interBandCA-PC2-r17	BC	No	N/A	FR1
Indicates the maximum average percentage of symbols during a certain evaluation				only
period that can be scheduled for uplink transmission so as to ensure compliance				
with applicable electromagnetic energy absorption requirements provided by regulatory bodies. The average percentage of uplink symbols is specified in				
6.2A.1.3, 6.2H.3.1 and 6.2L.3.1 in TS 38.101-1 [2] and the capability applies to the				
CA combinations listed in table 6.2A.1.3-1, 6.2H.3.1-1 and 6.2L.3.1-1 in TS 38.101-				
1 [2]. If the field is absent, UE may use P-MPR₀ as defined in 6.2.4 in TS 38.101-1				
Value n50 corresponds to 50%, value n60 corresponds to 60% and so on.				
absent.				
NOTE 2: This field is applicable for both power class 2 and power class 1.5 inter-				
band UL CA.	DC.	No		
Indicates the maximum average percentage of symbols during a certain evaluation		INO	IN/A	only
period that can be scheduled for uplink transmission so as to ensure compliance				only
with applicable electromagnetic energy absorption requirements provided by				
regulatory bodies. The average percentage of uplink symbols is specified in 6.2C.1				
SUL band + 1 TDD band.				
If the field is absent, UE shall work on power class 2 regardless of UL duty cycle				
and may use P-MPR <sub>c</sub> as defined in 6.2.4 in TS 38.101-1 [2] if necessary.				
NOTE: Specific targeted UL duty cycle percentage is not assumed if the field is absent.				
maxUpTo3Diff-NumerologiesConfigSinglePUCCH-grp-r16	BC	No	N/A	N/A
aroup where UE support of up to 3 afferent numerologies in the same PUCCH				
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>tr2-r16</i> )} that can transmit the PUCCH for NR part of (NG)EN-DC, NE-DC and NR-CA.				
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				
IOF PUCCH transmission.				

<b>maxUpTo4Diff-NumerologiesConfigSinglePUCCH-grp-r16</b> 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>mode1-ForType1-CodebookGeneration-r17</i> Indicates whether the UE supports type1-Codebook-Generation-Mode configured as mode 1, for multiplexing HARQ-ACK for unicast and HARQ-ACK for multicast on PUCCH or PUSCH.	BC	No	N/A	N/A
A UE supporting this feature shall also indicate support of <i>mode2-TDM-</i> <i>CodebookForMux-UnicastMulticastHARQ-ACK-r17</i> .				
<ul> <li><i>mode2-TDM-CodebookForMux-UnicastMulticastHARQ-ACK-r17</i> <ul> <li>Indicates whether the UE supports Mode 2 TDM-ed Type-1 and Type-2 HARQ-ACK codebook for multiplexing HARQ-ACK for unicast and HARQ-ACK for multicast, comprised of the following functional components:</li></ul></li></ul>	BC	No	N/A	N/A
<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
<ul> <li><i>mTRP-CSI-EnhancementPerBC-r17</i></li> <li>Indicates support of CSI enhancements for multi-TRP including support of NZP CSI-RS resource pairs used as CMR (channel measurement resource) pairs for NCJT measurement hypothesis with N=1.</li> <li>This feature also includes following parameters:         <ul> <li><i>maxNumNZP-CSI-RS-r17</i> indicates the maximum number of NZP CSI-RS resources in one CSI-RS resource set: Ks,max</li> <li><i>cSI-Report-mode-r17</i> indicates the CSI report mode selection. Mode indicates mode 1 with X=0, mode2 indicates mode 2, both indicate the support of both mode 1 with X=0 and mode 2.</li> <li>A list of supported combinations, up to 16, across all CCs simultaneously, where each combination is             <ul></ul></li></ul></li></ul>	BC	No	N/A	N/A

multiPUCCH-ConfigForMulticast-r17	BC	No	N/A	N/A
Indicates whether the UE supports PUCCH-ConfigurationList for multicast HARQ-				
ACK feedback, separate from that of unicast configurations.				
A UE supporting this feature shall also indicate support of singlePUCCH-				
ConfigForMulticast-r1/ and priorityIndicatorInDCI-Multicast-r1/.	<b>D</b> O			
mux-HARQ-ACK-UnicastMulticast-r17	BC	NO	N/A	N/A
multicast with the same priority and different HARO ACK codebook types in a				
A LIE supporting this feature shall also indicate support of ack-NACK-				
FeedbackForMulticast-r17 or nack-OnlyFeedbackForMulticast-r17 or ack-NACK-				
FeedbackForSPS-Multicast-r17 or nack-OnlyFeedbackForSPS-Multicast-r17				
nack-OnlyFeedbackForMulticast-r17	BC	No	N/A	N/A
Indicates whether the UE supports NACK-only based HARQ-ACK feedback for	20			
multicast RRC-based enabling/disabling with ACK/NACK transforming, comprised				
of the following functional components:				
- Supports NACK-only based HARQ-ACK feedback and enabling/disabling				
NACK-only based HARQ-ACK feedback configured by RRC signalling for				
dynamic scheduling for multicast, including:				
- A single TB with NACK-only feedback transmitted in PUCCH				
- Multiple TB with NACK-only feedback transmitted in PUCCH by				
transforming into ACK/NACK bits				
- Supports shared PUCCH resource configurations with unicast;				
- Supports one or multiple TB with NACK-only feedback transmitted in PUSCH				
by transforming into ACK/NACK bits:				
- Supports One or multiple TB with NACK-only feedback transmitted in				
PUCCH by transforming into ACK/NACK bits when multiplexing with other				
UCI.				
A UE supporting this feature shall also indicate support of ack-NACK-				
FeedbackForMulticast-r17.				
nack-OnlyFeedbackForSPS-Multicast-r17	BC	No	N/A	N/A
Indicates whether the UE supports RRC-based enabling/disabling NACK-only				
following functional components:				
Support NACK only based HAPO ACK feedback, and support of				
enabling/disabling NACK-only based HARO-ACK feedback configured by				
RRC signalling for SPS group-common PDSCH without PDCCH scheduling				
including:				
- A single TB with NACK-only feedback transmitted in PUCCH				
<ul> <li>Multiple TBs with NACK-only feedback transmitted in PUCCH by</li> </ul>				
transforming into ACK/NACK bits				
<ul> <li>Support of shared PUCCH resource configurations with unicast</li> </ul>				
<ul> <li>One or multiple TB with NACK-only feedback transmitted in PUSCH by</li> </ul>				
transforming into ACK/NACK bits				
- One or multiple TB with NACK-only feedback transmitted in PUCCH by				
transforming into ACK/NACK bits when multiplexing with other UCI				
A LIE supporting this feature shall also indicate support of oak NACK				
FoodbackForSPS-Multicast-r17				
nack-OnlyFeedbackSpecificResourceForMulticast-r17	BC	No	Ν/Δ	Ν/Δ
Indicates whether the UE supports NACK-only based HARQ-ACK feedback for				1.0/7.
multicast corresponding to a specific sequence or a PUCCH transmission.				
comprised of the following functional components:				
- Supports NACK-only based HARQ-ACK feedback for dynamic scheduling for				
multicast, including:				
- Up to 4 TBs with NACK-only feedback transmitted in PUCCH by select				
one PUCCH resource				
<ul> <li>Supports separate PUCCH resource configurations from unicast;</li> </ul>				
- Supports single TB with NACK-only feedback transmitted in PUCCH:				
- Supports up to 4TBs with NACK-only feedback transmitted in PUSCH by				
transforming into ACK/NACK bits.				
A UE supporting this feature shall also indicate support of <i>nack</i> -				
			<u> </u>	

nack-OnlyFeedbackSpecificResourceForSPS-Multicast-r17	BC	No	N/A	N/A
multicast corresponding to a specific sequence or a PUCCH transmission for SPS				
components:				
<ul> <li>Supports NACK-only based HARQ-ACK feedback for SPS PDSCH for multicast including:</li> </ul>				
<ul> <li>Up to 2TBs with NACK-only feedback transmitted in PUCCH by select</li> </ul>				
one PUCCH resource - Supports separate SPS-PUCCH-AN-List from unicast				
<ul> <li>Single TB with NACK-only feedback transmitted in PUCCH;</li> </ul>				
<ul> <li>Up to 2TBs with NACK-only feedback transmitted in PUSCH by transforming into ACK/NACK bits.</li> </ul>				
UE supporting this feature shall also indicate support of <i>nack-</i> OnlyFeedbackForSPS-Multicast-r17.				
non-AlignedFrameBoundaries-r17	BC	No	N/A	FR1
Indicates whether UE supports carrier aggregation with non-aligned frame boundaries for PCell/PSCell and SCell configured with cross-carrier scheduling to				only
PCell/PSCell (sSCell) in inter-band CA. The capability indicates the band pairs of				
the {PCell/PSCell SCS in kHz, sSCell SCS in kHz} combination which supports non- aligned frame boundary PCell/PSCell and SCell. The band-pair is encoded as a				
bitmap with size L * $(L - 1) / 2$ , and bit N (leftmost bit is indexed as bit 0) is set to "1"				
If the UE supports non-frame boundary for PCell/PSCell and SCell for the band pair (x, y), where L is the number of band entries in the band combination, x and y are				
the indices of the band entry in the band combination (the first band entry is indexed				
as 0), $x < y$ , and $N = x^{*}(2^{*}L - x - 1)/2 + y - x - 1$ .				
UE indicating support of this feature shall indicate support of				
crossCarrierSchedulingSCell-SpCellTypeA-r17 or crossCarrierSchedulingSCell- SpCellTypeB-r17.				
parallelTxMsgA-SRS-PUCCH-PUSCH-r16	BC	No	N/A	N/A
Indicates whether the UE supports parallel transmission of MsgA in SpCell and SRS/ PUCCH/ PUSCH across CCs in an inter-band CA hand combination or across				
CCs within a cell group with the inter-band CA operation in case of NR-DC. A UE				
supporting this feature shall also indicate support of <i>parallelTxPRACH-SRS</i> -				
parallelTxMsgA-SRS-PUCCH-PUSCH-intraBand-r17	BC	No	N/A	N/A
Indicates whether the UE supports parallel transmission of MsgA in SpCell and				
combination or across CCs within a cell group with the intra-band non-contiguous				
CA operation in case of NR-DC. The UE indicating support of this field shall also				
parallelTxSRS-PUCCH-PUSCH	BC	No	N/A	N/A
Indicates whether the UE supports parallel transmission of SRS and PUCCH/		_	-	
Cell group with the inter-band CA operation in case of NR-DC.				
parallelTxSRS-PUCCH-PUSCH-intraBand-r17	BC	No	N/A	N/A
Indicates whether the UE supports parallel transmission of SRS and PUCCH/ PUSCH across CCs in an intra-band non-contiguous CA band combination or				
across CCs within a cell group with the intra-band non-contiguous CA operation in				
case of NR-DC. narallelTxPRACH-SRS-PUCCH-PUSCH	BC	No	N/A	N/A
Indicates whether the UE supports parallel transmission of PRACH and	BC		11/7	11/7
SRS/PUCCH/PUSCH across CCs in an inter-band CA band combination or across				
parallelTxPRACH-SRS-PUCCH-PUSCH-intraBand-r17	BC	No	N/A	N/A
Indicates whether the UE supports parallel transmission of PRACH and				
combination or across CCs within a cell group with the intra-band non-contiguous				
CA operation in case of NR-DC.				
parallel I XPUCCH-PUSCH-r17 Indicates whether the UE supports simultaneous PUCCH and PUSCH	BC	No	N/A	N/A
transmissions of different priority across CCs in an inter-band CA band combination				
or across CCs within a cell group with the inter-band CA operation in case of NR- DC.				

paralleITxPUCCH-PUSCH-SamePriority-r17	BC	No	N/A	N/A
Indicates whether the UE supports simultaneous PUCCH and PUSCH				
transmissions of same priority across CCs in an inter-band CA band combination or				
across CCs within a cell group with the inter-band CA operation in case of NR-DC				
as specified in clause 9 of TS 38.213 [11].				
pdcch-BlindDetectionCA-Mixed-r16, pdcch-BlindDetectionCA-Mixed-v16a0	BC	No	N/A	N/A
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				
pdcch-MonitoringMixed-r16. UE indicating support of pdcch-BlindDetectionCA-				
Mixed-v16a0 shall also indicate support of pdcch-MonitoringMixed-r16.				
Only one between pdcch-BlindDetectionCA-Mixed-r16 and pdcch-				
BlindDetectionCA-Mixed-NonAlignedSpan-r16 can be reported by UE.				
pdcch-BlindDetectionCA-Mixed-NonAlignedSpan-r16, pdcch-	BC	No	N/A	N/A
BlindDetectionCA-Mixed-NonAlignedSpan-v16a0				
I his 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>pacch-MonitoringMixed-r16</i> . The minimum				
of the summation of capability on the number of CCs with Rel-15 PDCCH				
monitoring capability and the capability on the number of UCS with Rei-16 PDUCH				
monitoring capability is 3.				
DE Indicating support of pacen-billindDetectionCA-Mixed-NonAlignedSpan-v16				
shall also indicate support of pacch-BillindDetectionCA-Mixed-NonAlignedSpan-r16.				
Only one between pacch-billabelectionCA-Mixed-110 and pacch-				
BindDelectionCA-Mixed-NonAlignedSpan-118 call be reported by UE.	PC	No	ΝΙ/Λ	ΝΙ/Λ
This field indicates the number of blind detections supported for MCC and SCC	ЪС	INO	IN/A	IN/A
respectively as specified in clause 10 in TS 38 213 [11] for the NR-DC LIE shall				
report the fields for MCG and for SCG together if supported				
report the fields for filled and for 666 together it supported.				
If a UE supports pdcch-MonitoringCA-r16 or pdcch-MonitoringCA-NonAlighedSpan-				
r16 then the capability defined by pdcch-MonitoringCA-r16 or pdcch-MonitoringCA-				
NonAlighedSpan-r16 is applied to the feature as defined in clause 10 in TS 38.213				
[11].				
pdcch-BlindDetectionMCG-SCG-List-r17	BC	No	N/A	N/A
Indicates the supported combinations of the capability on the number of CCs for			,	,
monitoring a maximum number of BDs and non-overlapped CCEs for MCG and for				
SCG (i.e. pdcch-BlindDetectionMCG-UE-r17 and pdcch-BlindDetectionSCG-UE-				
r17) when configured for NR-DC operation with Rel-17 PDCCH monitoring				
capability on all the serving cells.				
5				
UE indicating support of this feature shall also indicate support of <i>dl-FR2-2-SCS</i> -				
480kHz-r17 or dl-FR2-2-SCS-960kHz-r17.				
NOTE: If the UE reports pdcch-MonitoringCA-r17,				
<ul> <li>Candidate values for pdcch-BlindDetectionMCG-UE-r17 is 1 to</li> </ul>				
pdcch-MonitoringCA-r17-1				
- Candidate values for pdcch-BlindDetectionSCG-UE-r17 is 1 pdcch-				
MonitoringCA-r17-1				
<ul> <li>pdcch-BlindDetectionMCG-UE-r17 + pdcch-BlindDetectionSCG-UE-</li> </ul>				
r17 >= pdcch-MonitoringCA-r17				
Otherwise, the value of <i>pdcch-BlindDetectionMCG-UE-r17</i> or of				
pdcchBlindDetectionSCG-UE-r17 is {1, 2, 3}				

pdcch-BlindDetectionMCG-UE-Mixed-r16, pdcch-BlindDetectionSCG-UE- Mixed-r16, pdcch-BlindDetectionMCG-UE-Mixed-v16a0, pdcch- BlindDetectionSCG-UE-Mixed-v16a0This field indicates mixed operation of two variants of the number of blind detections supported for MCG and SCG, respectively. UE shall report the fields for MCG and for SCG together if supported. UE indicating support of pdcch-BlindDetectionMCG- UE-Mixed-v16a0 and pdcch-BlindDetectionSCG-UE-Mixed-v16a0 shall also indicate support of pdcch-BlindDetectionMCG-UE-Mixed-r16 and pdcch- BlindDetectionSCG-UE-Mixed-r16.If a UE supports pdcch-BlindDetectionCA-Mixed or pdcch-BlindDetectionCA-Mixed or pdcch-BlindDetectionCA-Mixed and pdcch-BlindDetectionCA-Mixed or pdcch-BlindDetectionCA-Mixed and pdcch-BlindDetectionSCG-UE-Mixed	BC	No	N/A	N/A
<pre>correspondingly as defined in clause 10 in TS 38.213 [11]. pdcch-BlindDetectionMixedList1-r17 Indicates the supported combinations of the number of carriers for CCE/BD scaling for MCG and for SCG when configured for NR-DC operation and/or with DL CA with mix of Rel-15 and Rel-17 PDCCH monitoring capabilities on different carriers. UE indicating support of this feature shall also indicate support of <i>dl-FR2-2-SCS- 480kHz-r17</i> or <i>dl-FR2-2-SCS-960kHz-r17</i>. NOTE 1: For DL CA combinations, the range of pdcch-BlindDetectionCA1-r17 (for Rel-15) + pdcch-BlindDetectionCA2-r17 (for Rel-17) is (4,,16). NOTE 2: For NR-DC operation: If the UE reports pdcch-BlindDetectionCA1-r17 (for Rel-15), Candidate values for pdcch-BlindDetectionMCG-UE1 (for Rel-15) are 0 to pdcch-BlindDetectionCA1-r17 (for Rel-15) Candidate values for pdcch-BlindDetectionMCG-UE1 (for Rel-15) are 0 to pdcch-BlindDetectionCA1-r17 (for Rel-15) Candidate values for pdcch-BlindDetectionMCG-UE1 (for Rel-15) are 0 to pdcch-BlindDetectionCA1-r17 (for Rel-15) pdcch-BlindDetectionMCG-UE1 (for Rel-15) + pdcch- BlindDetectionSCG-UE1 (for Rel-15), Ctherwise, Candidate values for pdcch-BlindDetectionMCG-UE1 (for Rel-15) are {0, 1, 2, 3} If the UE reports pdcch-BlindDetectionCA2-r17 (for Rel-17),     Candidate values for pdcch-BlindDetectionSCG-UE2 (for Rel-17)     are 0 to pdcch-BlindDetectionCA2-r17 (for Rel-17),     Candidate values for pdcch-BlindDetectionSCG-UE2 (for Rel-17)     are 0 to pdcch-BlindDetectionCA2-r17 (for Rel-17),     Candidate values for pdcch-BlindDetectionSCG-UE2 (for Rel-17)     are 0 to pdcch-BlindDetectionCA2-r17 (for Rel-17),     Candidate values for pdcch-BlindDetectionSCG-UE2 (for Rel-17)     are 0 to pdcch-BlindDetectionCA2-r17 (for Rel-17),     Candidate values for pdcch-BlindDetectionSCG-UE2 (for Rel-17)     are 0 to pdcch-BlindDetectionCA2-r17 (for Rel-17),     Candidate values for pdcch-BlindDet</pre>	BC	No	N/A	N/A

<i>pdcch-BlindDetectionMixedList2-r17</i> Indicates the supported combinations of the number of carriers for CCE/BD scaling for MCG and for SCG when configured for NR-DC operation and/or with DL CA with mix of Rel-16 and Rel-17 PDCCH monitoring capabilities on different carriers.	BC	No	N/A	N/A
UE indicating support of this feature shall also indicate support of <i>dl-FR2-2-SCS-480kHz-r17</i> or <i>dl-FR2-2-SCS-960kHz-r17</i>				
<ul> <li>NOTE 1: For DL CA combinations, the range of pdcch-BlindDetectionCA1-r17 (for Rel-16) + pdcch-BlindDetectionCA2-r17 (for Rel-17) is {3,,16}</li> <li>NOTE 2: For NR-DC operation: If the UE reports pdcch-BlindDetectionCA1-r17 (for Rel-16), - Candidate values for pdcch-BlindDetectionMCG-UE1 (for Rel-16) are 0 to pdcch-BlindDetectionCA1-r17 (for Rel-16)</li> <li>Candidate values for pdcch-BlindDetectionSCG-UE1 (for Rel-16) are 0 to pdcch-BlindDetectionMCG-UE1 (for Rel-16)</li> <li>pdcch-BlindDetectionMCG-UE1 (for Rel-16) + pdcch-BlindDetectionSCG-UE1 (for Rel-16) + pdcch-BlindDetectionSCG-UE1 (for Rel-16) + pdcch-BlindDetectionSCG-UE1 (for Rel-16) &gt;= pdcch-BlindDetectionCA1-r17 (for Rel-16), Otherwise,</li> <li>Candidate values for pdcch-BlindDetectionMCG-UE1 (for Rel-16) are {0, 1}</li> <li>Candidate values for pdcch-BlindDetectionSCG-UE1 (for Rel-16) are {0, 1}</li> </ul>				
<ul> <li>If the UE reports pdcch-BlindDetectionCA2-r17 (for Rel-17),</li> <li>Candidate values for pdcch-BlindDetectionMCG-UE2 (for Rel-17) are 0 to pdcch-BlindDetectionCA2-r17 (for Rel-17)</li> <li>Candidate values for pdcch-BlindDetectionSCG-UE2 (for Rel-17) are 0 to pdcch-BlindDetectionMCG-UE2 (for Rel-17)</li> <li>pdcch-BlindDetectionMCG-UE2 (for Rel-17) + pdcch-BlindDetectionSCG-UE2 (for Rel-17) &gt;= pdcch-BlindDetectionCA2-r17 (for Rel-17),</li> <li>Otherwise,</li> <li>Candidate values for pdcch-BlindDetectionMCG-UE2 (for Rel-17) are {0, 1, 2}</li> <li>Candidate values for pdcch-BlindDetectionSCG-UE2 (for Rel-17) are {0, 1, 2}</li> </ul>				

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<b>pacch-BlindDetectionMixedList3-r17</b> Indicates the supported combinations of the number of carriers for CCE/BD scaling for MCG and for SCG when configured for NR-DC operation and/or with DL CA with mix of Rel-15, Rel-16 and Rel-17 PDCCH monitoring capabilities on different carriers.	BC	NO	N/A	N/A
UE indicating support of this feature shall also indicate support of <i>dl-FR2-2-SCS-480kHz-r17</i> or <i>dl-FR2-2-SCS-960kHz-r17</i>				
NOTE 1: For DL CA combinations, the range of <i>pdcch-BlindDetectionCA1-r17</i> (for Rel-15) plus <i>pdcch-BlindDetectionCA2-r17</i> (for Rel-16) + <i>pdcch-BlindDetectionCA3-r17</i> (for Rel-17) is {3,,16}.				
NOTE 2: For NR-DC operation: If the UE reports <i>pdcch-BlindDetectionCA1-r17</i> (for Rel-15), - Candidate values for <i>pdcch-BlindDetectionMCG-UE1</i> (for Rel-15) are				
<ul> <li>0 to pdcch-BlindDetectionCA1-r17 (for Rel-15)</li> <li>Candidate values for pdcch-BlindDetectionSCG-UE1 (for Rel-15) are</li> <li>0 to pdcch-BlindDetectionCA1-r17 (for Rel-15)</li> <li>n dech BlindDetectionMCC UE1 (for Rel-15)</li> </ul>				
<ul> <li>pacch-BlindDetectionMCG-UE1 (for Rel-15) + pacch- BlindDetectionSCG-UE1 (for Rel-15) &gt;= pdcch-BlindDetectionCA1- r17 (for Rel-15),</li> </ul>				
<ul> <li>Candidate values for <i>pdcch-BlindDetectionMCG-UE1</i> (for Rel-15) are {0, 1}</li> <li>Candidate values for <i>pdcch-BlindDetectionMCG-UE1</i> (for Rel-15) are {0, 1}</li> </ul>				
- Candidate values for <i>pacch-BlindDetectionSCG-DE1</i> (for Rel-15) are {0, 1}				
<ul> <li>If the UE reports pdcch-BlindDetectionCA2-r17 (for Rel-16),</li> <li>Candidate values for pdcch-BlindDetectionMCG-UE2 (for Rel-16) are 0 to pdcch-BlindDetectionCA2-r17 (for Rel-16)</li> </ul>				
<ul> <li>Candidate values for pdcch-BlindDetectionSCG-UE2 (for Rel-16) are 0 to pdcch-BlindDetectionCA2-r17 (for Rel-16)</li> <li>pdcch-BlindDetectionMCG-UE2 (for Rel-16) + pdcch-</li> </ul>				
BlindDetectionSCG-UE2 (for Rel-16) >= pdcch-BlindDetectionCA2- r17 (for Rel-16), Otherwise				
<ul> <li>Candidate values for <i>pdcch-BlindDetectionMCG-UE2</i> (for Rel-16) are {0, 1}</li> </ul>				
- Candidate values for <i>pdcch-BlindDetectionSCG-UE2</i> (for Rel-16) are {0, 1}				
<ul> <li>If the UE reports pdcch-BlindDetectionCA3-r17 (for Rel-17),</li> <li>Candidate values for pdcch-BlindDetectionMCG-UE3 (for Rel-17) are 0 to pdcch-BlindDetectionCA3-r17 (for Rel-17)</li> </ul>				
<ul> <li>Candidate values for pdcch-BlindDetectionSCG-UE2 (for Rel-17) are 0 to pdcch-BlindDetectionCA3-r17 (for Rel-17)</li> <li>pdcch-BlindDetectionMCG-UE3 (for Rel-17) + pdcch-</li> </ul>				
BlindDetectionSCG-UE3 (for Rel-17) >= pdcch-BlindDetectionCA3- r17 (for Rel-17), Otherwise				
<ul> <li>Candidate values for pdcch-BlindDetectionMCG-UE3 (for Rel-17) are {0, 1}</li> <li>Candidate values for pdech BlindDetectionSCC UE3 (for Rel-17) are</li> </ul>				
{0, 1}				
<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	BC	No	N/A	N/A
PDCCH monitoring capability on all the serving cells. This field also indicates supported span arrangement for CA. UE indicating support of this feature shall also indicate support of <i>pdcch-Monitoring-r16</i> . Only one between <i>pdcch-MonitoringCA-r16</i> and <i>pdcch-MonitoringCA-NonAlignedSpan-r16</i> can be reported by UE				
pdcch-MonitoringCA-r17	BC	No	N/A	N/A
and non-overlapped CCEs per span when configured with DL CA with Rel-17 PDCCH monitoring capability on all the serving cells.				
UE indicating support of this feature shall also indicate support of <i>dl-FR2-2-SCS-480kHz-r17</i> or <i>dl-FR2-2-SCS-960kHz-r17</i> .				

<i>pdcch-MonitoringCA-NonAlignedSpan-r16</i> Indicates the number of CCs for monitoring a maximum number of blind detections	BC	No	N/A	N/A
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 Rei-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 <i>pdcch-Monitoring-r16</i> . Only one between <i>pdcch-MonitoringCA-r16</i> and				
prioSCellPRACH-OverSP-PeriodicSRS-Support-r17	BC	No	N/A	N/A
Indicates whether the UE supports RRC configuration <i>prioSCellPRACH-OverSP-</i>	20			
PeriodicSRS as specified in TS 38.331 [9].				
ptp-Retx-Multicast-r17	BC	No	N/A	N/A
Indicates whether the UE supports PTP retransmission for multicast on the same				
A UE supporting this feature shall also indicate support of ack-NACK-				
FeedbackForMulticast-r17.		Nia	N1/A	N1/A
ptp-Retx-SPS-Multicast-r1/ Indicates whether the LIF supports PTP retransmission associated with CS-RNTI for	BC	INO	N/A	N/A
SPS multicast on the cell same as multicast initial transmission.				
A UE supporting this feature shall also indicate support of <i>ack-NACK</i> -				
FeedbackForSPS-Multicast-r17.	BC.	No	Ν1/A	ΝI/Δ
Indicates whether the UE supports SPS-PUCCH-AN-List for multicast HARO-ACK	БС		IN/A	IN/A
feedback of all multicast SPS configuration(s), separate from that of SPS unicast				
configurations.				
$\Lambda$ LIE supporting this feature shall also indicate support of ack-NACK-				
FeedbackForSPS-Multicast-r17.				
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				
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 <i>upto4</i> in <i>bwp</i> -				
SameNumerology or upto4 in bwp-DiffNumerology. One dormant BWP and one				
non-dormant BWP are UE specific BWPs even for UEs not supporting <i>bwp</i> -				
SameNumerology.	PC	No	NI/A	NI/A
Indicates whether the UE supports SCell dormancy indication received on SPCell	ВС		IN/A	IN/A
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-domaint BWP per carrier. To support more than one non- dormant BWP in a carrier, the LIE indicates support of unto4 in hwo-				
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.				

<ul> <li>semiStaticPUCCH-CellSwitchSingleGroup-r17</li> <li>Indicates whether the UE supports semi-static PUCCH cell switching for a single PUCCH group only. The capability signalling comprises the following parameters:         <ul> <li>pucch-Group-r17 indicates for which PUCCH group the UE supports semi-static PUCCH cell switching using configured time-domain domain pattern of applicable PUCCH cell / carrier. Value primaryGroupOnly indicates that only primary PUCCH group can support PUCCH cell switch, value secondaryGroupOnly indicates that only secondary PUCCH group can support PUCCH cell switch, and value eitherPrimaryOrSecondaryGroup indicates that either primary or secondary PUCCH group can support PUCCH cell switch.</li> <li>pucch-Group-Config-r17 indicates one or multiple of supported carrier type pairs that can support PUCCH cell switch, with fr1-FR1-NonSharedTDD-r17 indicating the carrier type pair (FR1 licensed TDD, FR2 licensed TDD), and fr1-FR2-NonSharedTDD-r17 indicating the carrier type pair (FR1 licensed TDD).</li> </ul> </li> </ul>	BC	No	TDD only	N/A
NOTE: This feature applies to cells in the same TAG only. If UE supporting this FG also supports both <i>diffNumerologyWithinPUCCH-GroupSmallerSCS</i> and <i>diffNumerologyWithinPUCCH-GroupLargerSCS</i> or both <i>diffNumerologyWithinPUCCH-GroupSmallerSCS</i> . CarrierTypes-r16 and <i>diffNumerologyWithinPUCCH-GroupLargerSCS-CarrierTypes-r16</i> or <i>maxUpTo3Diff-NumerologiesConfigSinglePUCCH-grp-r16</i> or <i>maxUpTo4Diff-NumerologiesConfigSinglePUCCH-grp-r16</i> when UE is not configured with two NR PUCCH groups, the UE supports the cases of both same and different numerologies between switchable cells.				
<ul> <li>semiStaticPUCCH-CellSwitchTwoGroups-r17</li> <li>Indicates whether the UE supports semi-static PUCCH cell switching for two PUCCH groups using configured time-domain domain pattern of applicable PUCCH cell / carrier. The capability indicates one or multiple of supported configuration(s) of {primary PUCCH group config, secondary PUCCH group config}. The capability signalling of each primary or secondary PUCCH group configuration indicates one or multiple of carrier type pairs that can support PUCCH cell switch, with <i>fr1-FR1- NonSharedTDD-r17</i> indicating the carrier type pair (FR1 licensed TDD, FR1 licensed TDD), <i>fr2-FR2-NonSharedTDD-r17</i> indicating the carrier type pair (FR2 licensed TDD, FR2 licensed TDD), and <i>fr1-FR2-NonSharedTDD-r17</i> indicating the carrier type pair (FR1 licensed TDD, FR2 licensed TDD).</li> <li>NOTE: This feature applies to cells in the same TAG only. If UE supporting this FG also supports both <i>diffNumerologyWithinPUCCH-GroupSmallerSCS</i> and <i>diffNumerologyWithinPUCCH-GroupLargerSCS</i> or both <i>diffNumerologyWithinPUCCH-GroupLargerSCS-CarrierTypes-r16</i> and <i>diffNumerologyWithinPUCCH-GroupLargerSCS-CarrierTypes-r16</i>, the UE supports the cases of both same and different numerologies between switchable cells. Otherwise, the UE supports the case of same numerology between switchable cells.</li> </ul>	BC	No	TDD only	N/A
<i>simultaneousCSI-ReportsAIICC</i> 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-ReportsAIICC</i> includes the beam report and CSI report. This parameter may further limit <i>simultaneousCSI-ReportsPerCC</i> in <i>MIMO-</i> <i>ParametersPerBand</i> and <i>Phy-ParametersFRX-Diff</i> for each band in a given band combination.	BC	Yes	N/A	N/A

<ul> <li>simul-SRS-Trans-BC-r16         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 srs-PosResources-r16. Otherwise, the UE does not include this field;     </li> <li>NOTE 1: For single-band band combinations, it defines the capability for intraband CA, and for band combinations with at least two bands, it defines the capability for inter-band carrier aggregation.     <li>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.</li> </li></ul>	BC	No	N/A	N/A
<ul> <li>simul-SRS-MIMO-Trans-BC-r16         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.     </li> <li>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.</li> <li>NOTE 2: For single-band band combinations, it defines the capability for intraband carrier aggregation, and for band combinations with at least two bands, it defines the capability for inter-band carrier aggregation.     </li> <li>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.</li> </ul>	BC	No	N/A	N/A
<ul> <li>simulTX-SRS-AntSwitchingInterBandUL-CA-r16</li> <li>Indicates whether the UE support simultaneous transmission of SRS on different CCs for inter-band UL CA. The UE indicating support of this feature shall include at least one of the following capabilities:         <ul> <li>supportSRS-xTyR-xLessThanY-r16 indicates support transmission of SRS for xTyR (x<y) and="" antenna="" based="" bm="" ca.<="" cb="" ccs="" different="" for="" in="" inter-band="" li="" ncb="" on="" overlapped="" srs="" switching="" symbol(s)="" ul=""> <li>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.</li> <li>supportSRS-AntennaSwitching-r16 Indicates whether the UE support SRS-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.</li> <li>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.</li> </y)></li></ul> </li> <li>NOTE: For simultaneously antenna switching and antenna switching SRS in inter-band CAs with bands whose UL are switched together according to the reported supportSRS-AntennaSwitching-r16, 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.</li> </ul>	BC	No	N/A	N/A
<ul> <li>simultaneousRxTxInterBandCA</li> <li>Indicates whether the UE supports simultaneous transmission and reception in TDD-TDD and TDD-FDD inter-band NR CA. If this field is included in <i>ca</i>- <i>ParametersNR-ForDC</i>, it indicates the UE supports simultaneous transmission and reception between any UL/DL band pair within a cell group and across MCG and SCG in TDD-TDD and TDD-FDD inter-band NR-DC. It is mandatory for certain TDD-FDD and TDD-TDD band combinations defined in TS 38.101-1 [2], TS 38.101- 2 [3] and TS 38.101-3 [4].</li> <li>This capability does not apply to the following components within TDD-TDD and TDD-FDD inter-band NR-CA or NR-DC combinations:         <ul> <li>Intra-band NR-CA or NR-DC component</li> <li>Intra-band NR-CA or NR-DC component</li> <li>Inter-band NR-CA or NR-DC component where the frequency range of one TDD band is a subset of the frequency range of the other NR TDD band (as specified in TS 38.101-1 [2]).</li> </ul> </li> </ul>	BC	CY	N/A	N/A

simultaneousRxTxInterBandCAPerBandPair Indicates whether the UE supports simultaneous transmission and reception in TDD-TDD and TDD-FDD inter-band NR CA for each band pair in the band	BC	CY	N/A	N/A
combination.				
Encoded as a bitmap with size L * $(L - 1) / 2$ , and bit N (leftmost bit is indexed as bit 0) is set to "1" if the UE supports simultaneous transmission and reception for band				
pair (x, y), where L is the number of band entries in the band combination, x and y are the indices of the band entry in the band combination (the first band entry is				
indexed as 0), $x < y$ , and $N = x^*(2^*L - x - 1)/2 + y - x - 1$ .				
If this field is included in <i>ca-ParametersNR-ForDC</i> , each bit of this field indicates whether the UE supports simultaneous transmission and reception between each				
band pair, within a cell group and across MCG and SCG in TDD-TDD and TDD- FDD inter-band NR-DC.				
The UE does not include this field if the UE supports simultaneous transmission and reception for all applicable band pairs in the band combination (in which case				
simultaneousRxTxInterBandCA is included) or does not support for any band pair in				
the band combination. It is mandatory for certain band pairs as specified in TS 38 101-1 [2] TS 38 101-2 [3] and TS 38 101-3 [4] The UE shall consistently set the				
bits which correspond to the same band pair.				
simultaneousRxTxSUL	BC	CY	N/A	N/A
NR band combination including SUL. Mandatory/Optional support depends on band combination and captured in TS 38.101-1 [2].				
simultaneousRxTxSULPerBandPair	BC	CY	N/A	N/A
Indicates whether the UE supports simultaneous reception and transmission for a NR band combination including SUL for each band pair in the band combination.				
The UE does not include this field if the UE supports simultaneous transmission and				
reception for all applicable band pairs in the band combination (in which case				
band combination. It is mandatory for certain band pairs as specified in TS 38.101-1				
[2]. The UE shall consistently set the bits which correspond to the same band pair.				
simultaneousSRS-AssocCSI-RS-AIICC	BC	No	N/A	N/A
resources that the UE can process simultaneously across all CCs, and across MCG				
and SCG in case of NR-DC, including periodic, aperiodic and semi-persistent SRS.				
This parameter may further limit <i>simultaneousSRS-AssocCSI-RS-PerCC</i> in <i>MIMO-</i>				
combination.				
singlePUCCH-ConfigForMulticast-r17	BC	No	N/A	N/A
Indicates whether the UE supports a <i>PUCCH-Config</i> for multicast HARQ-ACK feedback, separate from that of unicast configurations.				
A UE supporting this feature shall also indicate support of <i>ack-NACK-FeedbackForMulticast-r17</i> or <i>nack-OnlyFeedbackForMulticast-r17</i> .				
NOTE: With ack-NACK-FeedbackForMulticast-r17 or nack-				
OnlyFeedbackForMulticast-r17 as prerequisite, this feature includes the				
stavOnTargetCC-SRS-CarrierSwitch-r17	BC	No	N/A	N/A
Indicates whether the UE supports staying on the target CC when remaining SRS				,, .
resource set(s) for SRS carrier switching exists. UE indicating support of this feature shall indicate support of <i>srs-CarrierSwitch</i> .				
NOTE 1: When UE supports this capability, if the time period between the SRS				
resource sets is smaller than the total required RF switching time to the				
transmission and/or DL reception is not scheduled on the source CC in				
the time period between the two SRS resources sets, the UE stays in				
the target CC in the period between the SRS resource sets; otherwise,				
resource set.				
NOTE 2: If the UE does not indicate this capability, the UE switches back to source CC between the SRS resource sets.				

<ul> <li>supportedAggBW-FR1-r17 Indicates the supported maximum aggregated bandwidth in the FR1 NR CA (including NR CA part of (NG)EN-DC and NE-DC) and FR1 NR-DC band combination. It is also applicable to fallback band combinations except for a single CC (i.e. non-CA) case.         <ul> <li>supportedAggBW-FDD-DL/UL-r17 indicates the maximum aggregated bandwidth across FDD DL/UL CCs;</li> <li>supportedAggBW-TDD-DL/UL-r17 indicates the maximum aggregated bandwidth across TDD DL/UL CCs;</li> <li>supportedAggBW-TotaIDL/UL-r17 indicates the maximum aggregated bandwidth across all DL/UL CCs;</li> <li>supportedAggBW-TotaIDL/UL-r17 and supportedAggBW-TDD-DL/UL-r17 can only be reported in TDD-FDD band combination.</li> </ul> </li> <li>If scalingFactorSCS-r17 is not reported, the reported value represents the maximum supported value for the aggregated bandwidth calculated as follows.</li> </ul>	BC	No	N/A	FR1 only
Aggregated bandwidth (in MHz) = $\sum_{i=1}^{N} BW^{(j)}$				
<i>J</i> =1				
wherein				
J is the number of aggregated CCs in the band combination				
For the j-th CC, $BW^{(j)}$ is the actual CC bandwidth.				
If <i>scalingFactorSCS-r17</i> is reported, the reported value represents the maximum supported value for the effective aggregated bandwidth calculated as follows.				
Effective aggregated bandwidth (in MHz) = $\sum_{j=1}^{\infty} (f^{(j)} \cdot BW^{(j)})$				
wherein				
J is the number of aggregated CCs in the band combination				
For the j-th CC,				
$BW^{(0)}$ is the actual CC bandwidth.				
$f^{(j)}$ is the scaling factor and takes the following values.				
2, for CC of 15 kHz SCS				
1/2, for CC of 60 kHz SCS				
This field is only applicable to Bandwidth Combination Set 5 (BCS5). If the UE reports this capability, the UE shall report <i>supportedBandwidthDL-v1780</i> and <i>supportedBandwidthUL-v1780</i> .				
supportedCSI-RS-ResourceListAlt-r16	BC	No	N/A	N/A
combination by referring to <i>codebookVariantsList</i> . The following parameters are				
<ul> <li>Included in codebookVariantsList for each code book type:</li> <li>maxNumberTxPortsPerResource indicates the maximum number of Tx ports</li> </ul>				
in a resource across all bands within a band combination;				
across all CCs within a band combination, simultaneously;				
<ul> <li>totalNumber I xPortsPerBand indicates the total number of Tx ports across all CCs within a band combination, simultaneously.</li> </ul>				
For each band in a band combination, supported values for these three parameters				
MIMO-ParametersPerBand.				

	1			
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.				
it indicates number of TAGs only for NR CG. The number of TAGs for the LTE MCG				
is signalled by existing I TE TAG canability signalling. For NR CA/NR-DC band				
application if the hard combination combined of more than one hand entry (i.e.				
combination, if the band combination comprised of more than one band entry (i.e.,				
inter-band or intra-band non-contiguous band combination), it indicates that different				
timing advances on different band entries are supported. If absent, the UE supports				
only one TAG for the NR part. It is mandatory for the UE to support more than one				
TAG for NR-DC and it is mandatory for the UE to support 2 TAGs for inter-				
frequency 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				
the number of supported TAG, the UE only supports the configuration where all UL				
CCs of the same frequency band are configured with the same Timing Advance				
Group ID.				
twoPUCCH-Grp-ConfigurationsList-r16	BC	No	N/A	N/A
Indicates one or multiple of supported configuration(s) of (primary PLICCH group				
config. secondary PLICCH group config. for the band combination where for each of				
the supported exploration the series the self Non-SharedTDD, EP1				
the supported configuration the carrier type(s) (FK F-Norisonal et al. D., FK F-				
Shared IDD, FRI-NonSharedFDD, FR2) that can be mapped to a POCCH group				
and also the carrier types that can be configured with POCCH 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:				
<ul> <li>pucch-GroupMapping-r16 indicates the PUCCH group(s) that a carrier type</li> </ul>				
can be mapped to.				
- pucch-TX-r16 indicates the PUCCH group(s) that a carrier type can be				
configured for PUCCH transmission				
<b>5</b>				
NOTE 1: For a band combination with SUIL the SUIL band is counted as one of the				
hands				
NOTE 2: For a hand combination with SDL the SDL hand is counted as one of the				
hore 2. For a band combination with SDL has Shared DD' source as one of the				
ballos. SDE is indicated as FR FROMISTIALEOFDD caller type. Fei DE				
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>diffNumerologvAcrossPUCCH</i> -				
Group-CarrierTypes-r16, the UE can only be configured with the same				
SCS across NR PLICCH groups				
unlinkTxDC-TwoCarrierReport-r16	BC	No	Ν/Δ	N/A
Indicates whather the LIE supports the unlink Ty Direct Current subcarrier				
Indicates whether the OL supports the uplink TA Direct Outleft subcattlet				
tio applicable only for (NO)EN DO/NE DO and ND OA where the ND keeping				
It is applicable only for (NG)EN-DC/NE-DC and NK CA where the NK 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
additionalDMRS-DL-Alt Indicates whether the UE supports the alternative additional DMRS position for co- existence with LTE CRS. It is applied to 15kHz SCS and one additional DMRS case	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
<i>cbgPDSCH-ProcessingType2-DifferentTB-PerSlot-r16</i> 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
<b>crossCarrierSchedulingProcessing-DiffSCS-r16</b> 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
<ul> <li>dynamicMulticastPCell-r17</li> <li>Indicates whether the UE supports dynamic scheduling for multicast for PCell comprised of the following functional components:         <ul> <li>Supports group-common PDCCH/PDSCH for multicast with CRC scrambled by G-RNTI for PCell;</li> <li>Supports CFR configuration for multicast;</li> <li>Supports CORESET and common search space configuration for multicast;</li> <li>Supports DCI format 4_1 with CRC scrambled with G-RNTI for multicast;</li> <li>Supports DCI format 4_1 with CRC scrambled with G-RNTI for multicast;</li> <li>Supports inter-slot TDM between group-common PDSCH for multicast and other PDSCHs in different slots;</li> <li>Supports long DRX cycle for MBS multicast reception as specified in TS 38.321 [8].</li> </ul> </li> <li>NOTE: One G-RNTI per UE is supported for multicast reception.</li> </ul>	FS	No	N/A	N/A
featureSetListPerDownlinkCC Indicates which features the UE supports on the individual DL carriers of the feature set (and hence of a band entry that refer to the feature set) by <i>FeatureSetDownlinkPerCC-Id</i> . The order of the elements in this list is not relevant, i.e., the network may configure any of the carriers in accordance with any of the <i>FeatureSetDownlinkPerCC-Id</i> in this list. A fallback per CC feature set resulting from the reported feature set per DL CC is not signalled but the UE shall support it.	FS	N/A	N/A	N/A
<i>intraBandFreqSeparationDL, 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.	FS	No	N/A	FR2 only
<ul> <li>A UE supporting this feature shall also support <i>intraBandFreqSeparationDL</i>.</li> <li><i>intraFreqDAPS-r16</i>         Indicates whether UE supports intra-frequency DAPS handover, e.g. support of simultaneous DL reception of PDCCH and PDSCH from source and target cell. A UE indicating this capability shall also support intra-frequency synchronous DAPS handover, single UL transmission and cancelling UL transmission to the source cell for intra-frequency DAPS handover. The capability signalling comprises of the following parameters:         <ul> <li><i>intraFreqAsyncDAPS-r16</i> indicates whether the UE supports asynchronous DAPS handover.</li> <li><i>intraFreqDiffSCS-DAPS-r16</i> 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.</li> </ul> </li> </ul>	FS	No	N/A	N/A
<ul> <li><i>mTRP-PDCCH-Repetition-r17</i>         Indicates the support of intra-slot PDCCH repetition based on two linked SS sets associated with corresponding CORESETs.         This feature also includes following parameters:         <ul> <li><i>numBD-twoPDCCH-r17</i> indicates the number of BDs for the two PDCCH candidates.</li> <li><i>maxNumOverlaps-r17</i> indicates the maximum number of overlaps when one of the linked PDCCH candidates uses the same set of CCEs as an individual (unlinked) PDCCH candidate per scheduled component carrier per slot.         </li> <li>NOTE 1: UE supports PDCCH repetition for the following (basic) PDCCH monitoring capability: For type 1 CSS with dedicated RRC configuration, type 3 CSS, and UE-SS, the monitoring occasion is within the first 3 OFDM symbols of a slot.</li> </ul> </li> <li>NOTE 2: For <i>maxNumOverlaps-r17</i>, each unique pair of overlaps is counted as one.</li> <li>NOTE 3: This feature does not include supporting two QCL-TypeD in time-domain overlapping CORESETs in FR2.</li> </ul>	FS	No	N/A	N/A
<ul> <li><i>mTRP-PDCCH-Case2-1SpanGap-r17</i></li> <li>Indicates the support of PDCCH repetition for PDCCH monitoring of any occasions with span gap as defined in <i>pdcch-MonitoringAnyOccasionsWithSpanGap</i> for each SCS with the following parameters:         <ul> <li><i>supportedMode-r17</i> indicates supported mode of PDCCH repetition.</li> <li><i>limitX-PerCC-r17</i>: limit (X) per CC.</li> <li><i>limitX-AcrossCC-r17</i>: limit (X) per across all CCs.</li> </ul> </li> <li>The limit (X) is the total number of linked candidates of which the first candidate is received and the second one has not been received at any given span, where "received" and "not been received" is with respect to the end of the corresponding span of PDCCH candidate. It is indicated as a total count assuming count 1 for AL=1; 2 for AL=2; 4 for AL=4 or 8 or 16.</li> <li>The UE indicates <i>limitX-PerCC-r17</i> and <i>limitX-AcrossCC-r17</i> if <i>supportedMode-r17</i> is set to <i>inter-span</i> or <i>both</i>. A candidate value "<i>nolimit</i>" does not imply BD limit can be exceeded.</li> <li>The UE indicating support of this feature shall also indicate support of <i>pdcch-MonitoringAnyOccasionsWithSpanGap</i> and <i>mTRP-PDCCH-Repetition-r17</i>.</li> </ul>	FS	No	N/A	N/A

<i>mTRP-PDCCH-legacyMonitoring-r17</i> Indicates the support of PDCCH repetition with Rel-16 PDCCH monitoring capability as defined in <i>pdcch-Monitoring-r16</i> for 15kHz and 30kHz SCS with the following	FS	No	N/A	N/A
<ul> <li>supportedMode-r17 indicates the supported mode of PDCCH repetition.</li> <li><i>limitX-PerCC-r17</i> indicates the limit (X) per CC.</li> <li><i>limitX-AcrossCC-r17</i> indicates the limit (X) per across all CCs.</li> </ul>				
The limit (X) is the total number of linked candidates of which the first candidate is received and the second one has not been received at any given span, where "received" and "not been received" is with respect to the end of the corresponding span of PDCCH candidate. It is indicated as a total count assuming count 1 for AL=1; 2 for AL=2; 4 for AL=4 or 8 or 16. The UE indicates <i>limitX-PerCC-r17</i> and <i>limitX-AcrossCC-r17</i> if <i>supportedMode-r17</i> is set to <i>inter-span</i> or <i>both</i> . A candidate value " <i>nolimit</i> " does not imply BD limit can be exceeded.				
The UE indicating support of this feature shall also indicate support of <i>pdcch-</i> <i>Monitoring-r16</i> and <i>mTRP-PDCCH-Repetition-r17</i> .				
<i>mTRP-PDCCH-multiDCI-multiTRP-r17</i> Indicates the support of simultaneous configuration of PDCCH repetition and multi- DCI based multi-TRP. Two linked PDCCH candidates are not expected to be associated with different CORESETPoolIndex values	FS	No	N/A	N/A
The UE indicating support of this feature shall also indicate support of <i>multiDCI-</i> <i>MultiTRP-r16</i> and <i>mTRP-PDCCH-Repetition-r17</i> .				
<b>oneFL-DMRS-ThreeAdditionalDMRS-DL</b> Defines whether the UE supports DM-RS pattern for DL transmission with 1 symbol front-loaded DM-RS with three additional DM-RS symbols.	FS	No	N/A	N/A
oneFL-DMRS-TwoAdditionalDMRS-DL Defines support of DM-RS pattern for DL transmission with 1 symbol front-loaded DM-RS with 2 additional DM-RS symbols and more than 1 antenna ports.	FS	Yes	N/A	N/A
<b>pdcch-Monitoring-r16</b> Indicates whether the UE supports PDCCH search space monitoring occasions in any symbol of the slot with minimum time separation between two consecutive transmissions of PDCCH with span up to two OFDM symbols for two OFDM symbols or span up to three OFDM symbols for four and seven OFDM symbols. 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 bit (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).	FS	No	N/A	N/A
<b>pdcch-MonitoringAnyOccasions</b> Defines the supported PDCCH search space monitoring occasions. withoutDCI-gap indicates whether the UE supports PDCCH search space monitoring occasions in any symbol of the slot for Type 1-PDCCH common search space configured by dedicated RRC signalling, for a Type 3-PDCCH common search space, or for a UE-specific search space with the capability of supporting at least 44, 36, 22, and 20 blind decodes in a slot for 15 kHz, 30 kHz, 60kHz, and 120 kHz subcarrier spacing values respectively. withDCI-gap indicates whether the UE supports PDCCH search space monitoring occasions in any symbol of the slot with minimum time separation of two OFDM symbols for 15 kHz, four OFDM symbols for 30 kHz, seven OFDM symbols for 60 kHz with NCP, and 140FDM symbols for 120kHz between two consecutive transmissions of PDCCH scrambled with C-RNTI, MCS-C-RNTI, or CS-RNTI for Type 1-PDCCH common search space, 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, 60kHz, and 120 kHz subcarrier spacing values respectively.	FS	Νο	N/A	N/A
pdcch-MonitoringAnyOccasionsWithSpanGap	FS	No	N/A	N/A
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 (2,2), (4,3) and (7,3).				

pdcch-MonitoringMixed-r16	FS	No	N/A	N/A
Indicates support of Rel-15 monitoring capability and pdcch-Monitoring-r16 on				
different serving cells.				
pdsch-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				
PDSCH scrambled using C-RNTL TC-RNTL MCS-C-RNTL or CS-RNTL in one				
serving cell within the same slot per CC that are multiplexed in time domain only.				
NOTE: PDSCH(s) for Msg.4 is included.				
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				y
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 number Of Carriers 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 fallback = 'cap1-only', UE				
supports only capability 1, in the band where the value is reported;				
<ul> <li>differentTB-PerSlot indicates whether the UE supports processing type 2 for</li> </ul>				
1, 2, 4 and/or 7 unicast PDSCHs for different transport blocks per slot per				
CC; and if so, it indicates up to which number of CA serving cells the UE				
supports that number of unicast PDSCHs for different TBs. The UE shall				
include at least one of numberOfCarriers for 1, 2, 4 or 7 transport blocks per				
slot in this field if <i>pdsch-ProcessingType2</i> is indicated.				
n da de Dura e a cina vTura o Lincita d	<b></b>	NI-	N1/A	
pascn-processing i ypez-Limitea	F3	INO	IN/A	FRI
limitation for SCS 20kHz. This canability signalling comprises the following				Offiy
normeter				
- differentTR-PerSlot-SCS-30kHz indicates the number of different TBs per				
slot				
5101.				
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:				
<u> </u>				
<ol><li>The maximum bandwidth of PDSCH is 136 PRBs;</li></ol>				
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				
	=0			
prs-AsSpatialRelationRS-For-SRS-r17	FS	NO	N/A	FR2
Indicates whether the UE supports PRS as spatial relation RS for SRS.				oniy
A UE supporting this realure shall also indicate support of <i>nt-basedPDC-PRS-I17</i> .	<b></b>	NI-	N1/A	N1/A
III-Daseuruc-coi-Ko-ror iracking-ri/	F2	INO	IN/A	IN/A
indicates whether the UE supports KTT-based propagation delay compensation for				
time synchronization of the Ou Interface based on CSI-KS for tracking and SKS.				
A OE Supporting this realure shall also indicate support of csi-KS-For racking and				
supporteusro-resources.				

<ul> <li><i>rtt-BasedPDC-PRS-r17</i>         Indicates whether the UE supports RTT-based Propagation delay compensation for time synchronization of the Uu interface based on DL PRS and SRS. The capability signalling comprises the following parameters:         <ul> <li><i>maxNumberPRS-Resource-r17</i> indicates the maximum number of DL PRS Resources in DL PRS Resource Set for PDC, with value n16, n32, and n64 only applicable to FR2 bands.</li> <li><i>maxNumberPRS-ResourceProcessedPerSlot-r17</i> indicates the maximum number of DL PRS resources that UE can process in a slot.</li> </ul> </li> <li>A UE supporting this feature shall also indicate support of <i>supportedSRS</i>-</li> </ul>	FS	No	N/A	N/A
Resources.				
<b>scalingFactor</b> Indicates the scaling factor to be applied to the serving cell in the max data rate calculation when <i>mcs-Table-r17</i> and <i>mcs-TableDCI-1-2-r17</i> are not configured for the serving cell 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
scalingFactor-1024QAM-FR1-r17	FS	No	N/A	FR1
Indicates the scaling factor to be applied to the serving cell in the max data rate calculation when <i>mcs-Table-r17</i> or <i>mcs-TableDCl-1-2-r17</i> is configured for the serving cell as defined in 4.1.2 when support of 1024-QAM for PDSCH is signalled for the band. 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.				only
UE indicating support of this feature shall also indicate support of pasch-1024QAM- ER1-r17 or pasch-1024QAM-2MIMQ-ER1-r17 to the hand				
	ГО	CV	N1/A	N1/A
Defines whether the UE supports configuration of SCell that does not transmit SS/PBCH block. This is conditionally mandatory with capability signalling for intra- band CA but not supported for inter-band CA.	гð	CY	N/A	N/A
searchSpaceSharingCA-DL	FS	No	N/A	N/A
Defines whether the UE supports DL PDCCH search space sharing for carrier aggregation operation.				
<i>sfn-SchemeA-r17</i> Indicates whether the UE supports SFN scheme A for PDCCH scheduling SFN Scheme A PDSCH.	FS	No	N/A	N/A
sfn-SchemeA-DynamicSwitching-r17	FS	No	N/A	N/A
Indicates whether the UE supports dynamic switching between single-TRP and PDSCH SFN scheme A by TCI state field in DCI formats 1_1 and 1_2. The UE supporting this feature shall indicate <i>sfn-SchemeA-r17</i> or <i>sfn-SchemeA-PDSCH-only-r17</i> .	10			
<i>sfn-SchemeA-PDCCH-only-r17</i> Indicates whether the UE supports SFN scheme A for PDCCH scheduling single	FS	No	N/A	N/A
	<b></b>	- N'	N1/A	N1/A
Indicates whether the UE supports SFN scheme A for PDSCH scheduled by single TRP PDCCH.	FS	NO	N/A	N/A
sfn-SchemeB-r17	FS	No	N/A	N/A
Indicates whether the UE supports SFN scheme B for PDCCH scheduling SFN Scheme B PDSCH.				
<i>sfn-SchemeB-DynamicSwitching-r17</i> Indicates whether the UE supports dynamic switching between single-TRP and PDSCH SFN scheme B by TCI state field in DCI formats 1_1 and 1_2. The UE supporting this feature shall indicate <i>sfn-schemeB-r17</i> or <i>sfn-schemeB-PDSCH-only-r17</i> .	FS	No	N/A	N/A
sfn-SchemeB-PDSCH-only-r17	FS	No	N/A	N/A
Indicates whether the UE supports SFN scheme B for PDSCH scheduled by single TRP PDCCH.				
<i>singleDCI-SDM-scheme-r16</i> Indicates whether the UE supports single DCI based spatial division multiplexing scheme.	FS	No	N/A	N/A

sps-Multioast_r17	EQ	No	ΝΙ/Δ	ΝΙ/Δ
sps-mulucast-117	гэ	INO	IN/A	IN/A
Indicates whether the UE supports SPS group-common PDSCH for multicast on				
PCell, comprised of the following functional components:				
- Supports one SPS group-common PDSCH configuration for multicast;				
- Supports {2, 4, 8} times semi-static slot-level repetition for SPS group-				
common PDSCH,				
<ul> <li>Supports group-common PDCCH/PDSCH with CRC scrambled by G-CS-</li> </ul>				
RNTI(s) for multicast:				
Supports DCI format 4.1 with CPC acrombled with C.CS PNTI for multicast:				
- Supports Deriormat 4_1 with CRC scrambled with G-CS-RNT for multicast,				
<ul> <li>Supports ACK/NACK-based HARQ-ACK feedback for SPS release</li> </ul>				
associated with G-CS-RNTL				
A LIE supporting this feature shall also indicate support of dynamicMulticastPCell-				
17.				
NOTE: One G-CS-RNTI per UE is supported for multicast reception				
	ГО		NI/A	NI/A
supportedSRS-Resources	F2	FD	N/A	IN/A
Defines support of SRS resources for SRS carrier switching for a band without				
associated FeatureSetuplink. The capability signalling comprising indication of				
max Number Apprindia CPC Der PI//Diadicates aupported maximum number				
- maxinumberAperiodicSRS-PerBWP indicates supported maximum number				
of aperiodic SRS resources that can be configured for the UE per each BWP				
- maxNumberAperiodicSRS-PerRW/P-PerSlot indicates supported maximum				
- maximum eraperiodicon of erapy - erapistic the DWD				
number of aperiodic SRS resources per slot in the BWP				
- maxNumberPeriodicSRS-PerBWP indicates supported maximum number of				
poriodio SPS resources per BW/P				
periodic SKS resources per BWF				
<ul> <li>maxNumberPeriodicSRS-PerBWP-PerSlot indicates supported maximum</li> </ul>				
number of periodic SRS resources per slot in the BWP				
number of periodic or of resources per slot in the DWT				
- maxinumberSemiPersistentSRS-PerBWP indicate supported maximum				
number of semi-persistent SRS resources that can be configured for the UE				
per each BWP				
per each bwi				
- maxNumberSemiPersistentSRS-PerBWP-PerSlot indicates supported				
maximum number of semi-persistent SRS resources per slot in the BWP				
······································				
maxNumberSPS Parts ParPasaures indicates supported maximum number				
- maximum ersks-renkesource 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				
abant the UE support on periodic and periodic as coming and the total of				
absent, the OE supports one periodic, one aperiodic, no semi-persistent SRS				
resources per BWP per slot and one SRS antenna port per SRS resource.				
timeDurationForQCL. timeDurationForQCL-v1710	FS	Yes	N/A	FR2
Defines minimum number of OEDM symbols required by the LE to perform DDCCL	. 🦉		, , ,	only
Defines minimum number of OFDM symbols required by the OE to perform FDCCH				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 lost symbol of the DDCCU recention to the				
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, 120kHz				
twoFL-DMKS-I WOAdditionalDMKS-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				
4 mod 2 CCC	<b>F</b> 0	V	NI/A	<b>EDO</b>
type1-3-033	r5	res	IN/A	FR2
Defines whether the UE is able to receive PDCCH in FR2 in a Type1-PDCCH				only
common search space configured by dedicated RRC signalling in a Type3-PDCCH				-
common search space or a LIE spacific sparsh space if these are associated with a				
common search space of a off-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 LIE supports dynamic determination of LIL and DL link	-			
direction and alot format based on Lover 4 asheduling DOL and higher lover				
unection and sict format based on Layer 1 scheduling DCI and higher layer				
contigured 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	FR1- FR2
			DIFF	DIFF
<b>broadcastSCell-r17</b> Indicates whether the UE supports MBS reception via broadcast in RRC_CONNECTED, on one frequency indicated in an <i>MBSInterestIndication</i> message, when an SCell is configured and activated on that frequency, as specified in TS 38.331 [9].	FSPC	No	No	No
NOTE: The UE is not required to receive MBS via broadcast on PCell and SCell simultaneously				
<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>dci-BroadcastWith16Repetitions-r17</i> Indicates whether the UE supports up to 16 times dynamic slot-level repetition for broadcast MTCH.	FSPC	No	No	No
<i>dynamicMulticastSCell-r17</i> Indicates whether the UE supports to receive group-common PDCCH/PDSCH with CRC scrambled by G-RNTI for SCell on one frequency, when an SCell is configured and activated on that frequency, as specified in TS 38.331 [9]. A UE supporting this feature shall also indicate support of <i>dynamicMulticastPCell-r17</i> .	FSPC	No	N/A	N/A
NOTE: UE is not expected to be configured simultaneously with more than one component carriers for multicast reception.				
<ul> <li>fdm-BroadcastUnicast-r17</li> <li>Indicates whether the UE supports overlapping PDSCH reception that one unicast PDSCH and one group-common PDSCH for broadcast in RRC CONNECTED in a slot are partially or fully overlapping in time domain and non-overlapping in frequency domain.</li> <li>A UE supporting this feature shall also support broadcast reception as specified in clause 5.10.</li> </ul>	FSPC	No	N/A	N/A
fdm-MulticastUnicast-r17	FSPC	No	N/A	N/A
<ul> <li>Indicates whether the UE supports overlapping PDSCH reception that one dynamically scheduled unicast PDSCH and one dynamically scheduled group-common PDSCH for multicast in RRC CONNECTED in a slot are partially or fully overlapping in time domain and non-overlapping in frequency domain.</li> <li>A UE supporting this feature shall also indicate support of <i>dynamicMulticastPCell-r17</i>, or at least one of {<i>ack-NACK-FeedbackForSPS-Multicast-r17</i>, <i>nack-OnlyFeedbackForSPS-Multicast-r17</i>}.</li> <li>NOTE: The UE supporting this feature is not required to support FDMed SPS.</li> </ul>				

<i>intraSlotTDM-UnicastGroupCommonPDSCH-r17</i> Indicates whether the UE supports Intra-slot TDM-ed unicast PDSCH and group- common PDSCH. The value indicates that for any two consecutive slots n and n+1, if there are more than 1 broadcast/multicast/unicast PDSCH in either slot, whether to require the minimum time separation (4 OFDM symbols for 30kHz and 7 OFDM symbols for 60kHz) between starting time of any two broadcast/multicast/unicast PDSCHs within the duration of these slots.	FSPC	No	N/A	N/A
This feature includes the following functional components:				
<ul> <li>Supports TDM between one unicast PDSCH and one group-common PDSCH in a slot;</li> <li>Support TDM between M (M&gt;1) TDMed unicast PDSCHs and one group- common PDSCH in a slot per CC;</li> <li>Support TDM among N (N&gt;1) group-common PDSCHs in a slot per CC;</li> <li>Support TDM between K (K&gt;1) TDMed unicast PDSCHs and L (L&gt;1) TDMed group-common PDSCHs in a slot per CC;</li> <li>The UE maximum number of TDMed PDSCH receptions capability in a slot per CC is kept based on <i>pdsch-ProcessingType1-DifferentTB-PerSlot</i>;</li> <li>Up to one broadcast PDSCH is supported in a slot.</li> </ul>				
A UE supporting this feature shall support broadcast reception as specified in clause 5.10 and/or indicate support of <i>dynamicMulticastPCell-r17</i> , and shall indicate support of <i>pdsch-ProcessingType1-DifferentTB-PerSlot</i> .				
<ul> <li>NOTE1: Group-common PDSCH(s) are counted as unicast PDSCH(s).</li> <li>NOTE2: The max number of (M+1), N, (K+L) are determined based on the numbers reported by <i>pdsch-ProcessingType1-DifferentTB-PerSlot</i>.</li> </ul>				
<ul> <li>maxModulationOrderForMulticastDataRateCalculation-r17         Defines the maximum modulation order used for maximum data rate calculation for multicast PDSCH.         <ul> <li>For FR1, up to 1024QAM is supported as maximum modulation order used for maximum data rate calculation for multicast PDSCH, with candidate values {qam256, qam1024}.</li> <li>For FR2, up to 256QAM is supported as maximum modulation order used for maximum data rate calculation for multicast PDSCH, with candidate values {qam64, qam256}.</li> </ul> </li> </ul>	FSPC	No	N/A	N/A
A UE supporting this feature shall also indicate support of <i>dynamicMulticastPCell-</i> <i>r17</i> .				
<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 signalling 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. For the bands where <i>pdsch-1024QAM-2MIMO-FR1-r17</i> is indicated, MIMO layers for 1024 QAM is the smaller value between 2 and <i>maxNumberMIMO- LayersPDSCH.</i>	FSPC	CY	N/A	N/A
<b>maxNumberMIMO-LayersMulticastPDSCH-r17</b> Defines the maximum number of spatial multiplexing layer(s) supported by the UE for multicast PDSCH. If not reported, UE supports 1 MIMO layer only for multicast PDSCH.	FSPC	No	N/A	N/A
A UE supporting this feature shall also indicate support of <i>dynamicMulticastPCell-</i> <i>r</i> 17.				
NOTE: If the UE supports up to 8 layers, the UE supports second TB (TB2).				

<i>multiDCI-MultiTRP-r16</i> Indicates whether the UE supports multi-DCI based multi-TRP PDSCH/PUSCH operation 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:	FSPC	No	N/A	N/A
<ul> <li>maxNumberCORESET-r16 indicates maximum number of CORESETs configured per BWP per cell in addition to CORESET 0 for multi-DCI based multi-TRP PDSCH/PUSCH operation.</li> <li>maxNumberCORESETPerPoolIndex-r16 indicates maximum number of CORESETs configured per coresetPoolIndex per BWP per cell in addition to CORESET 0 for multi-DCI based multi-TRP PDSCH/PUSCH operation.</li> <li>maxNumberUnicastPDSCH-PerPool-r16 indicates maximum number of unicast PDSCHs per coresetPoolIndex per slot.</li> </ul>				
<ul> <li>NOTE 1: A UE may assume that its maximum receive timing difference between the DL transmissions from two TRPs is within a Cyclic Prefix.</li> <li>NOTE 2: Processing capability 2 is not supported in any CC if at least one CC is configured with two values of correstPool/Index</li> </ul>				
NOTE 3: If UE reports value N1 for <i>maxNumberCORESET-r16</i> , that means UE supports up to min (N1+1, 5) CORESETs in total (including CORESET#0) if there is CORESET#0, and supports maximal N1 CORESETs if there is no CORESET#0.				
NOTE 4: If UE reports value N2 for <i>maxNumberCORESETPerPoolIndex-r16</i> , that means UE supports up to min (N2+1, 3) CORESETs in total (including CORESET#0) for a TRP if there is CORESET#0, and supports maximal N2 CORESETs for another TRP if there is no CORESET#0.				
NOTE 5: For the multi-DCI based multi-TRP PUSCH operation, the maximum number of unicast PUSCHs that UE can support per slot is based on <i>pusch-ProcessingType1-DifferentTB-PerSlot</i> , and it is counted across both <i>coresetPoolIndex</i> of TRPs.				
<b>sps-MulticastSCell-r17</b> Indicates whether the UE supports one SPS group-common PDSCH configuration for multicast for SCell, comprised of the following functional components:	FSPC	No	N/A	N/A
<ul> <li>Supports one SPS group-common PDSCH configuration for multicast for SCell;</li> </ul>				
<ul> <li>Supports {2, 4, 8} times semi-static slot-level repetition for SPS group-common PDSCH for SCell;</li> <li>Supports group-common PDCCH/PDSCH with CRC scrambled by G-CS-</li> </ul>				
<ul> <li>RNTI(s) for multicast;</li> <li>Supports DCI format 4_1 with CRC scrambled with G-CS-RNTI for multicast;</li> <li>Supports ACK/NACK-based HARQ-ACK feedback for SPS release associated with G-CS-RNTI.</li> </ul>				
A UE supporting this feature shall also indicate support of <i>sps-Multicast-r17</i> and <i>dynamicMulticastSCell-r17</i> .				
<b>sps-MulticastSCellMultiConfig-r17</b> Indicates whether the UE supports up to 8 SPS group-common PDSCH configurations per CFR for multicast for SCell. The value indicates the maximum number of activated SPS group-common PDSCH configurations per CFR for multicast for SCell.	FSPC	No	N/A	N/A
The total number of SPS configurations for both multicast and unicast is no larger than 8 in a BWP of a serving cell. The total number of SPS configurations for both multicast and unicast in a cell group is no larger than 32.				
A UE supporting this feature shall also indicate support of sps-MulticastSCell-r17.				
supportedBandwidthDL, supportedBandwidthDL-v1710,	FSPC	CY	N/A	N/A
---	------	----	-----	-----
supportedBandwidthDL-v1780				
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]. For FR2,				
supportedBandwidthDL-v1710 is included if the maximum DL channel bandwidth				
supported by the UE within a single CC is greater than 400MHz. When the				
supportedBandwidthDL and the supportedBandwidthDL-v1710 are reported				
together for a CC, the network which is able to decode the supportedBandwidthDL-				
v1710 ignores the supportedBandwidthDL.				
The UE may report a supportedBandwidthDL wider than the channelBWs-DL; this				
supportedBandwidthDL 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]. For				
each band, RedCap UEs shall indicate its maximum channel bandwidth, which is				
the maximum of those channel bandwidths that are less than or equal to 20 MHz for				
FR1 and less than or equal to 100 Mhz for FR2, taking restrictions in TS 38.101-1				
[2] and TS 38.101-2 [3] into consideration.				
The supported Bandwidth DL-v1780 is only applicable to Bandwidth Combination Set				
5 (BCS5) of FR1 NR CA (including NR CA part of (NG)EN-DC and NE-DC) and				
FR1 NR-DU. If the UE reports supported AggBW-FR1-r17, the UE shall report				
supporteaBanawiathDL-v1780.				
NOTE: See the note in the field decription of <i>channelBWs-DL</i> for the				
determination of supported DL channel bandwidth.				

supportedCRS-InterfMitigation-r17	FSPC	No	No	FR1
Indicates whether the UE supports CRS interference mitigation (CRS-IM) in both				only
DSS and non-DSS scenarios with overlapping spectrum for LTE and NR, which is				Only
defined in TS 38 101-4 [18] The capability signalling contains the following:				
<ul> <li>crs-IM-DSS-15kHzSCS-r17 indicates whether the UE supports neighboring LTE cell CRS-IM in DSS scenario with NR 15 kHz SCS. UE can indicate support of this capability on the CC(s) in a band only if the UE indicates support of <i>rateMatchingLTE-CRS</i> on that band.</li> <li>crs-IM-nonDSS-15kHzSCS-r17 indicates whether the UE supports neighboring LTE cell CRS-IM in non-DSS and 15 kHz NR SCS scenario, without the assistance of network signalling on LTE channel bandwidth.</li> <li>crs-IM-nonDSS-NWA-15kHzSCS-r17 indicates whether the UE supports neighboring LTE cell CRS-IM in non-DSS and 15 kHz NR SCS scenario, without the assistance of network signalling on LTE channel bandwidth.</li> <li>crs-IM-nonDSS-30kHzSCS-r17 indicates whether the UE supports neighboring LTE cell CRS-IM in non-DSS and 30 kHz NR SCS scenario, without the assistance of network signalling on LTE channel bandwidth.</li> <li>crs-IM-nonDSS-30kHzSCS-r17 indicates whether the UE supports neighboring LTE cell CRS-IM in non-DSS and 30 kHz NR SCS scenario, without the assistance of network signalling on LTE channel bandwidth.</li> <li>crs-IM-nonDSS-NWA-30kHzSCS-r17 indicates whether the UE supports neighboring LTE cell CRS-IM in non-DSS and 30 kHz NR SCS scenario, without the assistance of network signalling on LTE channel bandwidth.</li> </ul>				
neighboring LTE cell CRS-IM in non-DSS and 30 kHz NR SCS scenario,				
with the assistance of network signalling on LTE channel bandwidth.				
For the UE supporting the capability of crs-IM-DSS-15kHzSCS-r17, the UE can				
perform CRS-IM without the assistant configuration information of neighbour LTE				
cells when RateMatchPatternLTE-CRS is configured for the serving cell, and if Ite-				
NeighCellsCRS-Assumptions-r17 is not configured.				
For the UE supporting the capability of crs-IM-nonDSS-15kHzSCS-r17, the UE can				
perform CRS-IM without the assistant configuration information of neighbour LTE				
cells with 15 kHz SCS when RateMatchPatternLTE-CRS is not configured for the				
serving cell, and if MeasObjectEUTRA is configured, the configured measurement				
gaps overlap with neighbour LTE cell PBCH position and <i>lte-NeighCellsCRS</i> -				
Assumptions-r17 is not configured.				
For the UE supporting the capabilities of <i>crs-IM-nonDSS-30kHzSCS-r17</i> , the UE				
can perform CRS-IM without the assistant configuration information of neighbour				
LIE cells with 30 kHz SUS when RateMatchPatternLIE-CRS is not configured for				
the serving cell, and it <i>MeasObjectEUTRA</i> is configured, the configured				
NeighCelleCDS Accumptions r17 is not configured				
NeighCeilsCRS-Assumptions-r 17 is not configured.				
NOTE 1. In the DSS scenario, serving and neighboring cells are both operating				
with dynamic spectrum sharing (DSS) of NR and LTE.				
NOTE 2: In the non-DSS scenario, serving cell is operating in NR, and neighboring				
cells are operating in LTE.				
supportedMinBandwidthDL-r17	FSPC	CY	N/A	N/A
Indicates minimum DL channel bandwidth supported for a given SCS that UE				
supports within a single CC (and in case of intra-frequency DAPS handover for the				
source and target cells), 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. This parameter is only applicable to				
the Bandwidth Combination Set 5 (BCS5). The UE shall indicate this parameter for				
at least one CC of a BCS5 band combination. This field does not restrict the				
bandwidths configured for a single CC (i.e. non-CA case).				

supportedModulationOrderDL	FSPC	No	N/A	N/A
Indicates the maximum supported modulation order to be applied for downlink in the				
carrier in the max data rate calculation as defined in 4.1.2. If included, the network				
may use a modulation order on this serving cell which is higher than the value				
indicated in this field as long as UE supports the modulation of higher value for				
downlink. If not included:				
<ul> <li>for FR1, the network uses the modulation order signalled per band i.e.</li> </ul>				
pdsch-1024QAM-FR1-r17 or pdsch-1024QAM-2MIMO-FR1-r17 when pdsch-				
1024QAM-FR1-r17 or pdsch-1024QAM-2MIMO-FR1-r17 is signalled for the				
band, otherwise the network uses the modulation order signalled in pdsch-				
256QAM-FR1. The network uses the modulation order 64QAM if pdsch-				
256QAM-FR1 is not signalled for the band for RedCap UE.				
- for FR2, the network uses the modulation order signalled per band i.e.				
pdsch-256QAM-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 (DataRate) and max data rate per CC (DataRateCC) according to TS 38.214				
[12].				
supportedSubCarrierSpacingDL	FSPC	CY	N/A	N/A
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.				
supportFDM-SchemeB-r16	FSPC	No	N/A	N/A
Indicates whether UE supports single DCI based FDMSchemeB.				

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## 4.2.7.7 *FeatureSetUplink* parameters

Definitions for parameters	Per	м	FDD- TDD	FR1- FR2
			DIFF	DIFF
scalingFactor Indicates the scaling factor to be applied to the band in the max data rate calculation as defined in 4.1.2. Value f0p4 indicates the scaling factor 0.4, f0p75 indicates 0.75, and so on. If absent, the scaling factor 1 is applied to the band in the max data rate calculation.	FS	No	N/A	N/A
<i>cbgPUSCH-ProcessingType1-DifferentTB-PerSlot-r16</i> 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
<i>cbgPUSCH-ProcessingType2-DifferentTB-PerSlot-r16</i> 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
<b>crossCarrierSchedulingProcessing-DiffSCS-r16</b> 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
extendedDC-LocationReport-r17 Indicates whether the UE supports extended DC location reporting (based on indicated default DC location) for at least 2 UL CCs in one band. A UE that supports this feature also supports extended DC location reporting for 1 UL CC in one band.	FS	No	N/A	N/A
<i>featureSetListPerUplinkCC</i> 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
<ul> <li>interSubslotFreqHopping-PUCCH-r17</li> <li>Indicates whether the UE supports inter-subslot frequency hopping for PUCCH repetitions comprised of the following functional components:         <ul> <li>Inter-subslot frequency hopping for PUCCH repetition operation of PUCCH Formats 0, 1, 2, 3 and 4 for 7OS slot-based PUCCH configurations;</li> <li>Inter-subslot frequency hopping for PUCCH repetition operation of PUCCH Format 0 and Format 2 for 2OS slot-based PUCCH configurations.</li> </ul> </li> <li>The UE indicating support of this feature shall also indicate the support of <i>pucch-Repetition-F0-1-2-3-4-RRC-Config-r17</i>.</li> </ul>	FS	No	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
<ul> <li><i>intraFreqDAPS-UL-r16</i>         Indicates whether UE supports enhanced uplink capabilities for intra-frequency DAPS handover. The UE only includes this capability signalling if <i>intraFreqDAPS-r16</i> is included in the <i>FeatureSetDownlink</i> for the same <i>FeatureSet</i>. The capability signalling comprises of the following parameter:         <ul> <li><i>intraFreqTwoTAGs-DAPS-r16</i> indicates whether the UE supports different timing advance groups in source PCell and intra-frequency target PCell. It is mandatory with capability signalling.</li> </ul> </li> </ul>	FS	No	N/A	N/A

mTRP-PUCCH-IntraSlot-r17	FS	No	N/A	N/A
Indicates whether the UE supports PUCCH repetition scheme 3 (intra-slot				
repetition) with sequential mapping for repetitions larger than 2 and cyclic mapping				
for 2 repetitions by indicating the supported PUCCH formats for this scheme. The				
UE indicating this feature shall also support up to two PUCCH power control				
parameter sets/spatial relation into per PUCCH resource.				
relation info) and spatial relation info is applicable to FR1 only (without spatial				
mTRP-PUSCH-TypeA-CB-r17	FS	No	N/A	N/A
Indicates the support of multi-TRP PUSCH repetition based on codebook with		140	1 1/7 1	1 1/7 1
PUSCH repetition type A. The value indicates the supported number of SRS				
resources in one SRS resource set.				
This feature includes the following features:				
<ul> <li>sequential mapping for repetitions larger than 2.</li> </ul>				
- cyclic mapping for 2 repetitions.				
- two SRS resource sets with usage set to "codebook".				
The LIE indicating support of this feature shall also indicate the support of <i>mimo</i> -CB-				
PUSCH. If the value of supported number of SRS resources is 4 then the UE shall				
also indicate support of <i>ul-FullPwrMode2-MaxSRS-ResInSet</i> set to n4.				
mTRP-PUSCH-RepetitionTypeA-r17	FS	No	N/A	N/A
Indicates whether the UE supports multi-TRP PUSCH repetition for non-codebook				
based PUSCH repetition type A with sequential mapping for repetitions larger than				
2 and cyclic mapping for 2 repetitions by indicating the supported number of SRS				
resources in one SRS resource set. The UE indicating this feature shall also				
support two SRS resource sets with usage set to 'nonCodebook'.				
The UE indicating this feature shall indicate support of maxNumberMIMO-				
	EQ	No	ΝΙ/Δ	ΝΙ/Δ
Indicates whether the LIE supports more than one PLICCH for HAPO-ACK	г <b>о</b>	INO	IN/A	IN/A
transmission within a slot. This field includes the following parameters:				
- sub-SlotConfig-NCP-r16 indicates the sub-slot configuration for NCP:				
,,,,,,				
- <i>sub-SlotConfig-ECP-r16</i> 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.				
For ECP, the value set1 denotes 6-symbol*2, and set2 denotes 2-symbol*6 and 6-				
symbol*2.			<b>N</b> 1/A	<b>N</b> 1/A
mux-SR-HARQ-ACK-r16	FS	NO	N/A	N/A
Indicates whether the UE supports SR/HARQ-ACK multiplexing once per subside				
are supposed to be sent with different starting symbols in a subslot				
offsetSRS-CB-PUSCH-Ant-Switch-fr1-r16	FS	No	N/A	FR1
Indicates whether UE requires minimum of 19 symbols offset between aperiodic	10	NO		only
SRS triggering and transmission for SRS for codebook based PUSCH and antenna				Only
switching.				
UE indicating support of this shall indicate support of supportedSRS-Resources.				
offsetSRS-CB-PUSCH-PDCCH-MonitorSingleOcc-fr1-r16	FS	No	N/A	FR1
Indicates whether UE requires minimum of 19 symbols offset between aperiodic				only
SRS triggering and transmission for SRS for codebook based PUSCH and antenna				
OEDM symbols of a slot				
UE indicating support of this shall indicate support of supportedSRS-Resources.				
offsetSRS-CB-PUSCH-PDCCH-MonitorAnyOccWithoutGap-fr1-r16	FS	No	N/A	FR1
Indicates whether UE requires minimum of 19 symbols offset between aperiodic				only
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 signalling, for a Type 3-PDCCH common search				
space, or for a UE-specific search space with the capability of supporting at least				
$++$ , $\pm$				
Suburner spacing values respectively.				
UE indicating support of this shall indicate support of supportedSRS-Resources.				

offsetSRS-CB-PUSCH-PDCCH-MonitorAnyOccWithGap-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 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 papering approximate the dedicated PBC ciganelling for a Type 3 PDCCH	FS	No	N/A	FR1 only
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.				
UE indicating support of this shall indicate support of pdcch- MonitoringAnyOccasions with value withDCI-Gap and supportedSRS-Resources.				
offsetSRS-CB-PUSCH-PDCCH-MonitorAnyOccWithSpanGap-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 with minimum time separation between two consecutive transmissions of PDCCH with span up to two OFDM symbols for two OFDM symbols or span up to three OFDM symbols for four and seven OFDM symbols. Value set1 indicates the supported value set (X,Y) is (7,3), value set2 indicates the supported value set (X,Y) is (4,3) and (7,3) and value set 3 indicates the supported value set (X,Y) is (2,2), (4,3) and (7,3). UE indicating support of this shall indicate support of supportedSRS-Resources.	FS	No	N/A	FR1 only
<ul> <li>pa-PhaseDiscontinuityImpacts</li> <li>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.</li> <li>This capability applies to: <ul> <li>Intra-band (NG)EN-DC/NE-DC combination without additional inter-band NR and LTE CA component;</li> <li>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;</li> <li>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 E-UTRA band is a subset of the frequency range of the S.5B.4.1-1 of TS 38.101-3 [4]).</li> </ul> </li> <li>If this capability is included in an "Intra-band (NG)EN-DC/NE-DC parts with additional inter-band (NG)EN-DC/NE-DC parts (NG)EN-DC/NE-DC parts with additional 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]).</li> </ul>	FS	No	N/A	N/A
<ul> <li>partialCancellationPUCCH-PUSCH-PRACH-TX-r16</li> <li>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: <ul> <li>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;</li> <li>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 <i>tdd-UL-DL-ConfigurationCommon</i>, and <i>tdd-UL-DL-ConfigurationDedicated</i> if provided, or <i>tdd-UL-DL-ConfigurationCommon</i> and <i>tdd-UL-DL-ConfigurationDedicated</i> are not provided to the UE;</li> <li>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</li> </ul> </li> </ul>	FS	Νο	N/A	N/A

phy-PrioritizationHighPriorityDG-LowPriorityCG-r17	FS	No	N/A	N/A
Indicates whether the UE supports PHY prioritization of overlapping high-priority				
DG-PUSCH and low-priority CG-PUSCH comprised of the following functional				
components:				
- PHY prioritization of overlapping high-priority dynamic grant PUSCH and				
low-priority configured grant PUSCH on a BWP of a serving cell;				
- Configuration of PHY priority level for CG PUSCH, and dynamic indication of				
priority level for dynamic PUSCH with a single DCI format.				
The capability signalling comprises the following parameters:				
- nusch-PreparationLowPriority-r17 indicates additional number of symbols				
(d1) needed beyond the PUSCH preparation time for cancelling a low priority				
UL transmission:				
- additionalCancellationTime-r17 indicates additional number of symbols (d3)				
needed on top of Rel-16 cancellation time (which results N2+d1+d3 in total				
cancellation time);				
<ul> <li>maxNumberCarriers-r17 indicates maximum number of supported carriers</li> </ul>				
on the band across a set of contiguous carriers for the reported FS of that				
band.				
The value of the device O constant source devices and constant source of the source of				
The value symbol denotes 0 symbol, sym1 denotes one symbol, and so on.	ГС	No	Ν1/Δ	ΝI/Λ
pny-prioritizationLowPriorityDG-HignPriorityCG-r17	F3	INO	IN/A	IN/A
PLISCH and high-priority CG-PLISCH comprised of the following functional				
components:				
<ul> <li>PHY prioritization for the case where low-priority DG-PUSCH collides with</li> </ul>				
high-priority CG-PUSCH:				
- Configuration of PHY priority level for CG PUSCH, and dynamic indication of				
priority level for dynamic PUSCH with a single DCI format.				
The value indicates maximum number of supported carriers on the band across a				
set of contiguous carriers for the reported FS of that band.			N1/A	<b>N</b> 1/A
pucch-Repetition-F0-1-2-3-4-Dynamicindication-r17	FS	NO	N/A	N/A
indicates whether the UE supports repetitions for PUCCH format 0, 1, 2, 3 and 4				
The UE indicating support of this feature shall also indicate the support of <i>pucch</i> -				
Repetition-F0-1-2-3-4-RRC-Config-r17.				
,,				
NOTE: Dynamic PUCCH repetition factor indication is only supported for HARQ-				
ACK.				
pucch-Repetition-F0-1-2-3-4-RRC-Config-r17	FS	No	N/A	N/A
Indicates whether the UE supports repetitions for PUCCH format 0, 1, 2, 3 and 4				
over multiple PUCCH subslots with RRC configured repetition factor $K = 2, 4, 8$ .				
A DE supporting this feature shall also indicate support of pucch-Repetition-F1-3-4				
and <i>multiPUCCH-r16</i> .				
NOTE: The support of this feature doesn't imply an increase of the maximum				
number of PLICCHs per slot that supported by the LIF				
pusch-ProcessingType1-DifferentTB-PerSlot	FS	No	N/A	N/A
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.				

	<b>F</b> 0	NI-		
pusch-processing i ypez	F3	INO	N/A	FRI
Indicates whether the UE supports PUSCH 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 PUSCH processing capability 2				
when the number of configured carriers is larger than number of Carriers for a				
reported value of different TR-PerSlot If fallback – 'sc' LIE supports				
capability 2 processing time on lowest call index among the capiting und				
capability 2 processing time on lowest certificate anong the compared				
camers in the band where the value is reported, in <i>failback</i> = cap f-only, OE				
supports only capability 1, in the band where the value is reported,				
differentTD DerClet indicates whether the UE supports processing type 2 for				
- different B-Person indicates whether the DE supports processing type 2 to				
1, 2, 4 and/or 7 unicast PUSCHs for different transport blocks per slot per				
CC; and it 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.				
pusch-RepetitionTypeB-r16, pusch-RepetitionTypeB-v16d0	FS	No	N/A	N/A
Indicates whether the UE supports PUSCH repetition type B, as specified in 6.1.2 of				
TS 38.214 [12].				
The maxNumberPUSCH-Tx-r16 in pusch-RepetitionTypeB-r16 indicates the				
supported maximum number of PUSCH transmissions within a slot for all TB(s) for				
processing capability 1 if pusch-ProcessingType2 is not included, or for both				
processing capability 1 and processing capability 2 if <i>pusch</i> -ProcessingType2 is				
included The maxNumberPLISCH-Ty-Cap1-r16 and maxNumberPLISCH-Ty-Cap2-				
r16 in pusch-RepetitionTypeB-y16d0 are for processing capability 1 and processing				
capability 2 caparatoly, which are only included when different values are supported				
for the processing expendition. The max//umber/DUSC/LTx r16 will be ignored by				
for the processing capabilities. The maximumberPOSCH-1x-176 will be ignored by				
the network if the pusch-Repetition LypeB-V16dU is included.	=0			<b>N1/A</b>
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.				
semiStaticHARQ-ACK-CodebookSub-SlotPUCCH-r17	FS	No	N/A	N/A
Indicates whether the UE supports Semi-static (Type 1) HARQ-ACK codebook for				
sub-slot based PUCCH configuration.				
A UE supporting this feature shall also indicate support of semiStaticHARQ-ACK-				
Codebook and multiPUCCH-r16.				
simultaneousTxSUL-NonSUL	FS	No	N/A	N/A
Indicates whether the LIE supports simultaneous transmission of SRS on an				
SIII (non-SIII carrier and PLISCH/PLICCH/SRS on the other LIL carrier in the same				
coll The LE support simultaneous transition on an SIL band Y and a Non				
SILL hand V if it cots this canability parameter for both hand V and hand V				
SOL banu T in it sets this capability parameter for both banu A and banu T.		No	Ν1/A	N1/A
SIS-Antennaswitching2SF-iFenouic-ii/	го		IN/A	IN/A
Indicates whether the DE supports maximum 2 SP SRS resource sets and				
maximum 1 periodic SRS resource set for antenna switching.				
The UE indicating support of this shall indicate support of supportedSRS-				
Resources.				
NOTE				
NUIE:				
- Applies for all supported XTYK where y<=8				
- For XIVK where y>4, If UE does not support this feature, UE supports				
maximum one SRS resource set for periodic SRS and maximum one SRS				
resource set for semi-persistent SRS				
<ul> <li>For XTyR where y&lt;=4, if UE does not support this feature, UE follows Rel-</li> </ul>				
15 on the number of resource sets for periodic and semi-persistent SRS				
I NE TWO SP-SKS RESOURCE SETS ARE NOT ACTIVATED AT THE SAME TIME.				

srs-ExtensionAperiodicSRS-r17	FS	No	N/A	N/A
Indicates whether the UE supports 4 aperiodic SRS resource sets for 1T4R and 2				
aperiodic resource sets for 1T2R/2T4R.				
The UE indicating support of this shall indicate support of srs-TxSwitch and				
supportedSRS-Resources.				
srs-OneAP-SRS-r17	FS	No	N/A	N/A
Indicates the support of 1 aperiodic SRS resource sets for 1T4R.			-	-
The UE indicating support of this feature shall also indicate the support of srs-				
StartAnyOFDM-Symbol-r16 and srs-TxSwitch.				
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 LIE 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				
<ul> <li>maxNumberSRS-ResourcesPerBWP-PerSlot-r16 indicates the max number</li> </ul>				
of SRS resources configured by SRS-Resource and SRS-PosResource-r16				
supported by UE per BWP, including periodic, semi-persistent, and aperiodic				
SRS:				
,				
<ul> <li>maxNumberPeriodicSRS-PosResourcesPerBWP-r16 indicates the max</li> </ul>				
number of periodic SRS resources for positioning supported by UE per BWP;				
<ul> <li>maxNumberPeriodicSRS-PosResourcesPerBWP-PerSlot-r16 indicates the</li> </ul>				
max number of periodic SRS resources for positioning supported by UE per				
BWP per slot.				
srs-PosResourceAP-r16	FS	No	N/A	N/A
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:				
<ul> <li>maxNumberAP-SRS-PosResourcesPerBWP-r16 indicates the max number</li> </ul>				
of aperiodic SRS resources for positioning supported by UE per BWP;				
- maxinumberAP-SRS-PosResourcesPerBWP-PerSlot-r16 indicates the max				
number of aperiodic SRS resources for positioning supported by UE per				
BWP per slot.				
srs-PoskesourceSP-r16	⊦S	No	N/A	N/A
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 resources for positioning supported by UE per BWP;				
maxNumberSB SBS DecDecoursesDerPM/D DerSlat r16 indicates the max				
- maximumber SP-SRS-POSResourcesPerDWP-PerSiot-rio indicates the max				
number of semi-persistent SNS resources for positioning supported by DE				

supportedSRS-Resources Defines support of SRS resources. The capability signalling comprising indication	FS	FD	N/A	N/A
<ul> <li><i>maxNumberAperiodicSRS-PerBWP</i> indicates supported maximum number of aperiodic SRS resources that can be configured for the UE per each BWP</li> </ul>				
<ul> <li>maxNumberAperiodicSRS-PerBWP-PerSlot indicates supported maximum number of aperiodic SRS resources per slot in the BWP</li> </ul>				
<ul> <li>maxNumberPeriodicSRS-PerBWP indicates supported maximum number of periodic SRS resources per BWP</li> </ul>				
<ul> <li>maxNumberPeriodicSRS-PerBWP-PerSlot indicates supported maximum number of periodic SRS resources per slot in the BWP</li> </ul>				
<ul> <li>maxNumberSemiPersistentSRS-PerBWP indicate supported maximum number of semi-persistent SRS resources that can be configured for the UE per each BWP</li> </ul>				
<ul> <li>maxNumberSemiPersistentSRS-PerBWP-PerSlot indicates supported maximum number of semi-persistent SRS resources per slot in the BWP</li> </ul>				
<ul> <li>maxNumberSRS-Ports-PerResource indicates supported maximum number of SRS antenna port per each SRS resource.</li> </ul>				
If this field is not included, the UE supports one periodic, one aperiodic, no semi- persistent SRS resources per BWP and one periodic, one aperiodic, no semi- persistent SRS resources per BWP per slot and one SRS antenna port per SRS resource.				
<ul> <li>Indicates whether the UE supports two HARQ-ACK codebooks with up to one subslot based HARQ-ACK codebook (i.e. slot-based + slot-based, or slot-based + subslot based) simultaneously constructed for supporting HARQ-ACK codebooks with different priorities at a UE. The capability signalling comprises the following parameters:         <ul> <li>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;</li> <li>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</li> </ul> </li> </ul>	FS	NO	N/A	N/A
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}.				
<ul> <li>NOTE 1: If the UE indicates support of this feature and is simultaneously configured with two slot-based HARQ-ACK codebooks: <ul> <li>whether the UE supports two PUCCH of format 0 or 2 in consecutive symbols in the same slot for each HARQ-ACK codebook is subject to the capability reported by <i>twoPUCCH-F0-2-ConsecSymbols</i>.</li> <li>whether the UE supports one PUCCH format 0 or 2 and one PUCCH format 1, 3 or 4 in the same slot for each HARQ-ACK codebook is subject to the capability reported by <i>onePUCCH-LongAndShortFormat</i>.</li> <li>whether the UE supports two PUCCH transmissions in the same slot for each HARQ-ACK codebook and <i>onePUCCH-LongAndShortFormat</i>.</li> <li>whether the UE supports two PUCCH transmissions in the same slot for each HARQ-ACK codebook not covered by <i>twoPUCCH-F0-2-ConsecSymbols</i> and <i>onePUCCH-LongAndShortFormat</i> is subject to the capability reported by <i>twoPUCCH-AnyOthersInSlot</i>.</li> </ul> </li> <li>NOTE 2: If a UE reports both <i>multiPUCCH-r16</i> and <i>twoHARQ-ACK-Codebook-type1-r16</i>, it can support two slot-based HARQ-ACK codebooks. If a UE reports <i>twoHARQ-ACK-Codebook-type1-r16</i> but does not report <i>multiPUCCH-r16</i>, it can only support two slot-based HARQ-ACK codebooks.</li> </ul>				

<ul> <li>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:</li> <li><i>sub-SlotConfig-NCP-r16</i> indicates the maximum number of actual PUCCH transmissions for HARQ-ACK within a slot for NCP with 2-symbol*7 sub-slot configuration;</li> </ul>	FS	NO	N/A	N/A
<ul> <li>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;</li> </ul>				
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}.				
<i>twoPUCCH-Group</i> 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
<i>twoPUCCH-Type1-r16</i> Indicates whether the UE supports two PUCCH of format 0 or 2 in the same subslot for a single 7*2-symbol subslot based HARO-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
<i>twoPUCCH-Type3-r16</i> 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
<i>twoPUCCH-Type5-r16</i> 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
<i>twoPUCCH-Type6-r16</i> 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
<i>twoPUCCH-Type7-r16</i> 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
<i>twoPUCCH-Type8-r16</i> 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
<i>twoPUCCH-Type9-r16</i> 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
<i>twoPUCCH-Type10-r16</i> Indicates 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 <i>twoPUCCH-Type8-r16</i> .	FS	No	N/A	N/A
<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

<b>tx-Support-UL-GapFR2-r17</b> Indicates whether the UE supports UL transmission in FR2 bands within an FR2 UL gap when the FR2 UL gap is activated in inter-band UL CA. The UE which indicates support for <i>tx-Support-UL-GapFR2-r17</i> shall also indicate support for <i>ul-GapFR2-r17</i> in an FR2 band.	FS	No	No	FR2 only
<i>ue-PowerClassPerBandPerBC-r17</i> Indicates the UE power class per band per band combination.	FS	No	N/A	FR1 only
<ul> <li>INOTE: Vold.</li> <li><i>ul-CancellationCrossCarrier-r16</i></li> <li>Indicates whether the UE supports UL cancellation scheme for cross-carrier comprised of the following functional components:         <ul> <li>Supports group common DCI (i.e. DCI format 2_4) for cancellation indication on a different DL CC than that scheduling PUSCH or SRS;</li> <li>UL cancellation for PUSCH. Cancellation is applied to each PUSCH repetition individually in case of PUSCH repetitions;</li> </ul> </li> </ul>	FS	No	N/A	N/A
- UL cancellation for SRS symbols that overlap with the cancelled symbols.				
<ul> <li><i>ul-CancellationSelfCarrier-r16</i> <ul> <li>Indicates whether the UE supports UL cancellation scheme for self-carrier comprised of the following functional components:                 <ul> <li>Supports group common DCI (i.e. DCI format 2_4) for cancellation indication on the same DL CC as that scheduling PUSCH or SRS;</li> <li>UL cancellation for PUSCH. Cancellation is applied to each PUSCH repetition individually in case of PUSCH repetitions;</li> <li>UL cancellation for SRS symbols that overlap with the cancelled symbols.</li> </ul> </li> </ul> </li> </ul>	FS	No	N/A	N/A
<i>ul-FullPwrMode-r16</i> Indicates the UE support of UL full power transmission mode of <i>fullpower</i> 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 <i>mimo-CB-PUSCH</i> and the support of PUSCH codebook coherency subset using <i>pusch-TransCoherence</i>	FS	No	N/A	N/A
<i>ul-FullPwrMode1-r16</i> 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 <i>pusch-TransCoherence</i> .	FS	No	N/A	N/A
<i>ul-FullPwrMode2-MaxSRS-ResInSet-r16</i> 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 <i>pusch-TransCoherence</i> . A UE supports this feature shall support at least full power operation with single port.	FS	No	N/A	N/A
<ul> <li><i>ul-FullPwrMode2-SRSConfig-diffNumSRSPorts-r16</i></li> <li>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: <ul> <li>value <i>p1-2</i> means that each SRS resource can be configured with 1 port or 2 ports</li> <li>value <i>p1-4</i> means that each SRS resource can be configured with 1 port or 4 ports</li> <li>value <i>p1-2-4</i> means that each SRS resource can be configured with 1 port or 4 ports</li> <li>ule <i>p1-2-4</i> means that each SRS resource can be configured with 1 port or 2 ports</li> </ul> </li> <li>Value <i>p1-2-4</i> means that each SRS resource can be configured with 1 port or 4 ports</li> <li>ule <i>p1-2-4</i> means that each SRS resource can be configured with 1 port or 2 ports</li> <li>value <i>p1-2-4</i> means that each SRS resource can be configured with 1 port or 4 ports</li> <li>value <i>p1-2-4</i> means that each SRS resource can be configured with 1 port or 2 ports or 4 ports</li> </ul> <li>UE indicates support of this feature shall also indicate support of <i>ul-FullPwrMode2-MaxSRS-ResInSet</i>.</li> <li>NOTE: The values <i>p1-2</i>, <i>p1-4</i> or <i>p1-2-4</i> can be used if <i>ul-FullPwrMode2-MaxSRS-ResInSet</i> is reported as <i>n2</i> or <i>n4</i>.</li>	FS	No	N/A	N/A

ul-FullPy Indicates signalling - tw co in [6 - fo - fo - fo	wrMoo the U g comp voPort prresp dex = ] ourPor purPor	<b>de2-TPMIGroup-r16</b> E supported TPMI group(s) which delivers full power. The capability orises the following values: is-r16 indicates a 2-bit bitmap, where the leading / leftmost bit (bit 0) onds to {TPMI index = 0}. The next bit (bit 1) corresponds to {TPMI 1} and the TPMI index is as specified in Table 6.3.1.5-1 of TS 38.2 <sup>-1</sup> <i>tsNonCoherent-r16</i> indicates the TPMI groups {G0-3} <i>tsPartialCoherent-r16</i> indicates the TPMI groups {G0-6}	FS y 11	No	N/A	N/A
UE indica MaxSRS Definition	ates si <i>-Resli</i> n of G(	upport of this feature shall also indicate support of <i>ul-FullPwrMode2</i> nSet. 0~G6 can be found in the table below:	2-			
	ID	TPMI groups				
	G0	$\frac{1}{2}\begin{bmatrix}1\\0\\0\end{bmatrix},$				
	G1	$\frac{1}{2} \begin{bmatrix} 1 \\ 0 \\ 0 \\ 0 \end{bmatrix}, \frac{1}{2} \begin{bmatrix} 0 \\ 0 \\ 1 \\ 0 \end{bmatrix}, \frac{1}{2} \begin{bmatrix} 1 & 0 \\ 0 & 0 \\ 0 & 1 \\ 0 & 0 \end{bmatrix},$				
	G2	$\frac{1}{2} \begin{bmatrix} 1\\0\\1\\0\\0\\0\\0\\0\\0\\0\\0\\0\\0\\0\\0\\0\\0\\0\\0\\0$				
	G3	$\frac{1}{2} \begin{bmatrix} 1 & 0 \\ 0 & 0 \\ 0 & 1 \\ 0 & 0 \end{bmatrix}, \frac{1}{2} \begin{bmatrix} 1 & 0 \\ 0 & 1 \\ 0 & 0 \\ 0 & 0 \end{bmatrix}, \frac{1}{2} \begin{bmatrix} 0 & 0 \\ 1 & 0 \\ 0 & 1 \\ 0 & 0 \end{bmatrix}, \frac{1}{2} \begin{bmatrix} 1 & 0 & 0 \\ 0 & 1 \\ 0 & 0 \end{bmatrix}, \frac{1}{2} \begin{bmatrix} 0 & 0 \\ 0 & 1 & 0 \\ 0 & 0 & 1 \\ 0 & 0 & 0 \end{bmatrix}$				
	G4	$\frac{1}{2} \begin{bmatrix} 1\\0\\1\\1 \end{bmatrix}, \frac{1}{2} \begin{bmatrix} 1\\0\\-1\\0 \end{bmatrix}, \frac{1}{2} \begin{bmatrix} 1\\0\\j\\0 \end{bmatrix}, \frac{1}{2} \begin{bmatrix} 1\\0\\j\\0 \end{bmatrix}, \frac{1}{2} \begin{bmatrix} 1\\0\\-j\\0 \end{bmatrix}, \frac{1}{2} \begin{bmatrix} 1\\0\\-j\\0 \end{bmatrix}, \frac{1}{2} \begin{bmatrix} 1&0\\0&0\\0&1\\0&0 \end{bmatrix}$				
	G5	$\frac{1}{2} \begin{bmatrix} 1\\0\\1\\0 \end{bmatrix}, \frac{1}{2} \begin{bmatrix} 1\\0\\-1\\0 \end{bmatrix}, \frac{1}{2} \begin{bmatrix} 1\\0\\j\\0 \end{bmatrix}, \frac{1}{2} \begin{bmatrix} 1\\0\\j\\0 \end{bmatrix}, \frac{1}{2} \begin{bmatrix} 1\\0\\-j\\0 \end{bmatrix}, \frac{1}{2} \begin{bmatrix} 1&0\\0&0\\0&1\\0&0 \end{bmatrix}, \frac{1}{2} \begin{bmatrix} 1&0\\0&1\\0&0\\0&1 \end{bmatrix}, \frac{1}{2} \begin{bmatrix} 0&0\\1&0\\0&1\\0&0 \end{bmatrix}, \frac{1}{2} \begin{bmatrix} 1&0&0\\0&1&0\\0&0&1\\0&0 \end{bmatrix}$				
		$\frac{1}{2} \begin{bmatrix} 1\\0\\1\\0 \end{bmatrix}, \frac{1}{2} \begin{bmatrix} 1\\0\\-1\\0 \end{bmatrix}, \frac{1}{2} \begin{bmatrix} 1\\0\\-1\\0 \end{bmatrix}, \frac{1}{2} \begin{bmatrix} 1\\0\\j\\0 \end{bmatrix}, \frac{1}{2} \begin{bmatrix} 1\\0\\-j\\0 \end{bmatrix}, \frac{1}{2} \begin{bmatrix} 0\\1\\0\\1 \end{bmatrix}, \frac{1}{2} \begin{bmatrix} 0\\1\\0\\-1 \end{bmatrix}, \frac{1}{2} \begin{bmatrix} 0\\1\\0\\-1 \end{bmatrix}, \frac{1}{2} \begin{bmatrix} 0\\1\\0\\j \end{bmatrix}, \frac{1}{2} \begin{bmatrix} 0\\1\\0\\-j \end{bmatrix}$				
	G6	$ \begin{array}{c} 1 & 0 \\ 1 & 2 \\ 0 & 0 \\ 0 & 0 \\ \end{array}, \frac{1}{2} \begin{bmatrix} 1 & 0 \\ 0 & 0 \\ 0 & 0 \\ \end{array}, \frac{1}{2} \begin{bmatrix} 1 & 0 \\ 0 & 0 \\ 0 & 1 \\ \end{array}, \frac{1}{2} \begin{bmatrix} 0 & 0 \\ 1 & 0 \\ 0 & 0 \\ \end{array}, \frac{1}{2} \begin{bmatrix} 0 & 0 \\ 1 & 0 \\ 0 & 1 \\ \end{array}, \frac{1}{2} \begin{bmatrix} 0 & 0 \\ 1 & 0 \\ 0 & 0 \\ \end{array}, \frac{1}{2} \begin{bmatrix} 0 & 0 \\ 0 & 0 \\ 1 & 0 \\ \end{array}, \frac{1}{2} \begin{bmatrix} 1 & 0 & 0 \\ 0 & 1 & 0 \\ 0 & 0 & 1 \\ \end{array} \right) $				
NOTE 1:	Whe	en a full coherent UE operates in mode 2, it reports TPMIs the same	e			
NOTE 2:	as a For bit b parti For of 4 For	partial-coherent UE. 4 port partial-coherent or full-coherent UE, UE can report: 2-port {2- itmap} and one of 4-port non-coherent {G0~G3} and one of 4-port al-coherent {G0~G6} 4 port non-coherent UE, UE can report: 2-port {2-bit bitmap} and or -port non-coherent {G0~G3} 2 port UE, UE can report: 2-port {2-bit bitmap}	ne			
NOTE 3:	A UI	E that supports this feature must report at least one of the values.				

ul-IntraUE-Mux-r16	FS	No	N/A	N/A
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:				
<ul> <li>pusch-PreparationLowPriority-r16 indicates the additional number of</li> </ul>				
symbols needed beyond the PUSCH preparation time for cancelling a low				
priority UL transmission;				
- pusch-PreparationHighPriority-r16 indicates the additional number of the				
preparation time needed for the high priority UL transmission that cancels a				
low priority UL transmission.				
The value sym0 denotes 0 symbol, sym1 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

FSPC FSPC FSPC	CY No No	N/A N/A	FR1 only N/A
FSPC	No	N/A	N/A
FSPC	No	N/A	N/A
FSPC	No	N/A	N/A
FSPC	No		
		N/A	N/A
FSPC	No	N/A	N/A
FSPC	No	N/A	N/A
FSPC	No	N/A	N/A
F	SPC SPC	SPC No	SPC No N/A SPC No N/A

<pre>supportedBandwidthUL, supportedBandwidthUL-v1710, supportedBandwidthUL-v1780 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]. For FR2, supportedBandwidthUL-v1710 is included if the maximum UL channel bandwidth supported by the UE within a single CC is greater than 400MHz. When the supportedBandwidthUL and the supportedBandwidthUL-v1710 are reported to the part of the part</pre>	FSPC	CY	N/A	N/A
<i>v1710</i> ignores the <i>supportedBandwidthUL</i> . 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 38.101-1[2]/TS 38.101-2[3]. For each band, RedCap UEs shall indicate its maximum channel bandwidth, which is the maximum of those channel bandwidths that are less than or equal to 20 MHz for FR1 and less than or equal to 100 Mhz for FR2, taking restrictions in TS 38.101-1 [2] and TS 38.101-2 [3] into consideration. The <i>supportedBandwidthUL-v1780</i> is only applicable to Bandwidth Combination Set 5 (BCS5) of FR1 NR CA (including NR CA part of (NG)EN-DC and NE-DC) and FR1 NR-DC. If the UE reports <i>supportedAggBW-FR1-r17</i> , the UE shall report <i>supportedBandwidthUL-v1780</i> .				
NOTE: See the note in the field decription of <i>channelBWs-UL</i> for the determination of supported UL channel bandwidth.				
<i>supportedMinBandwidthUL-r17</i> Indicates minimum UL channel bandwidth supported for a given SCS that UE supports within a single CC (and in case of intra-frequency DAPS handover for the source and target cells), 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. This parameter is only applicable to the Bandwidth Combination Set 5 (BCS5). The UE shall indicate this parameter for at least one CC of a BCS5 band combination. This field does not restrict the bandwidths configured for a single CC (i.e. non-CA case).	FSPC	CY	N/A	N/A
<ul> <li>supportedModulationOrderUL</li> <li>Indicates the maximum supported modulation order to be applied for uplink in the carrier in the max data rate calculation as defined in 4.1.2. If included, the network may use a modulation order on this serving cell which is higher than the value indicated in this field as long as UE supports the modulation or higher value for uplink. If not included,</li> <li>for FR1 and FR2, the network uses the modulation order signalled per band i.e. <i>pusch-256QAM</i> if signalled. If not signalled in a given band, the network shall use the modulation order 64QAM.</li> <li>In all the cases, it shall be ensured that the data rate does not exceed the max data rate (<i>DataRate</i>) and max data rate per CC (<i>DataRateCC</i>) according to TS 38.214 [12].</li> </ul>	FSPC	No	N/A	N/A
supportedSubCarrierSpacingUL 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	FSPC	CY	N/A	N/A

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4.2.7.9 *MRDC-Parameters* 

Definitions for parameters	Per	М	FDD- TDD	FR1- FR2
			DIFF	DIFF
<b>asyncIntraBandENDC</b> Indicates whether the UE supports asynchronous FDD-FDD intra-band (NG)EN-DC and asynchronous FDD-FDD inter-band (NG)EN-DC/NE-DC where the frequency range of the E-UTRA band is a subset of the frequency range of the NR band, 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. For FDD-FDD 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, if this capability is not supported, the MRTD and MTTD requirements indicated by <i>interBandMRDC-WithOverlapDL-Bands-r16</i> apply.	BC	No	FDD only	FR1 only
<ul> <li>This capability applies to:</li> <li>Intra-band (NG)EN-DC combination without additional inter-band NR and LTE CA component;</li> <li>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;</li> <li>Intra-band (NG)EN-DC combination without supporting UL in both the bands of the intra-band (NG)EN-DC UL part;</li> <li>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]).</li> </ul>				
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.				
condPSCellAdditionENDC-r17 Indicates whether the UE supports conditional PSCell addition in EN-DC. The UE supporting this feature shall also support 2 trigger events for same execution condition in conditional PSCell addition in EN-DC.	BC	No	N/A	N/A
<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
<ul> <li>This capability applies to:</li> <li>Intra-band (NG)EN-DC/NE-DC combination without additional inter-band NR and LTE CA component;</li> <li>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;</li> <li>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]).</li> </ul>				
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

higherPowerLimitMRDC-r17 Indicates whether UE supports increase in maximum output power above the power	BC	No	N/A	FR1 only
class indication for inter-band UL (NG)EN-DC band combinations as defined in				0,
clause 6.2B of TS 38.101-3 [4].				
intraBandENDC-Support	BC	No	N/A	N/A
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				
operation of the contiguous spectrum for all the intra-band (NG)EN-DC				
If intrabandENDC-Support-III is absent and the band combination supports intra-				
hand (NG)EN-DC only in DL this field indicates the DL canability. If				
intrabandENDC-Support-UL is absent and the band combination supports intra-				
band (NG)EN-DC in DL and UL, this field indicates the common capability for both				
DL and UL. If intrabandENDC-Support-UL is included, intraBandENDC-Support				
indicates the DL capability.				
For the inter-band (NG)EN-DC band combination with multiple intra-band (NG)EN-				
DC components as defined in clause 5.5B in the TS 38.101-3 [4]:				
<ul> <li>This field is applicable only if the UE supports the same spectrum contiguity</li> </ul>				
capability in DL for all the intra-band (NG)EN-DC components.				
<ul> <li>If the DE supports different spectrum contiguity capabilities for the intra-band (NG)EN-DC components, the LE shall not include this field.</li> </ul>				
intrabandENDC-Support-III	BC	No	Ν/Δ	N/A
Indicates whether the UE supports intra-band (NG)EN-DC in UL with only non-	DO			
contiguous spectrum, or with both contiguous and non-contiguous spectrum for the				
intra-band (NG)EN-DC combination as specified in TS 38.101-3 [4]. The UE				
includes this field only if the UE supports different UL and DL capabilities for the				
intra-band (NG)EN-DC band combination.				
When 'both' is indicated in intrabandENDC-Support and in intraBandENDC-				
Support-UL, the UE supports the following three cases of intra-band (NG)EN-DC:				
contiguous DL/contiguous UL, non-contiguous DL/non-contiguous UL, contiguous				
DL/non-contiguous UL.				
For the inter-band (NG)EN-DC band combination with multiple intra-band (NG)EN-				
- This field is applicable only if the UE supports the same spectrum contiguity				
capability in UL for all the intra-band (NG)EN-DC components.				
- If the UE supports different spectrum contiguity capabilities in UL for the				
intra-band (NG)EN-DC components, the UE shall not include this field.				
intrabandENDC-Support-UL-v1790	BC	No	N/A	N/A
Indicates whether the UE supports intra-band (NG)EN-DC in UL with only non-				
contiguous spectrum, or with both contiguous and non-contiguous spectrum for the				
corresponding intra-band (NG)EN-DC component within the inter-band (NG)EN-DC				
band combination with multiple intra-band (NG)EN-DC components as defined in				
ciause 5.5D in the 15 36.101-3 [4].				
The UE includes this field only if the UE supports different UI, and DL canabilities				
for the corresponding intra-band (NG)EN-DC component.				
When 'both' is indicated in intrabandENDC-Support-v1790 and in intraBandENDC-				
Support-UL-v1790, the UE supports the following three cases of intra-band				
(NG)EN-DC: contiguous DL/contiguous UL, non-contiguous DL/non-contiguous UL,				
contiguous DL/non-contiguous UL for the corresponding intra-band (NG)EN-DC				
component.				

<i>intrabandENDC-Support-v1790</i> Indicates whether the UE supports only non-contiguous spectrum, or with both contiguous and non-contiguous spectrum for the corresponding intra-band (NG)EN-DC component within the inter-band (NG)EN-DC band combination with multiple intra-band (NG)EN-DC components as defined in clause 5.5B in the TS 38.101-3 [4].	BC	No	N/A	N/A
If the UE does not include this field, the UE only supports the contiguous spectrum for the corresponding intra-band (NG)EN-DC component. If <i>intrabandENDC-Support-UL-v1790</i> is absent for the corresponding intra-band (NG)EN-DC component and the corresponding intra-band (NG)EN-DC component supports DL only, this field indicates the DL capability for the corresponding intra-band (NG)EN-DC component. If <i>intrabandENDC-Support-UL-v1790</i> is absent for the corresponding intra-band (NG)EN-DC component. If <i>intrabandENDC-Support-UL-v1790</i> is absent for the corresponding intra-band (NG)EN-DC component supports DL and UL, this field indicates the common capability for both DL and UL for the corresponding intra-band (NG)EN-DC component. If <i>intrabandENDC-Support-UL-v1790</i> is included for the corresponding				
intra-band (NG)EN-DC component, <i>intraBandENDC-Support-v1790</i> indicates the				
interBandContinuousMBDC	BC	CV	ΝΙ/Δ	Ν/Δ
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.	БС	C1	N/A	N/A
interBandMRDC-WithOverlapDL-Bands-r16	BC	No	N/A	FR1
Indicates whether the UE supports FDD-FDD or TDD-TDD inter-band (NG)EN- DC/NE-DC operation with overlapping or partially overlapping DL bands with an (NG)EN-DC MTTD/MRTD according to clause 7.5.2/7.6.2 in TS 38.133 [5] and NE- DC MTTD/MRTD according to clause 7.5.5/7.6.5 in TS 38.133 [5] and inter-band RF requirements. If the capability is not reported, the UE supports FDD-FDD or TDD-TDD inter-band operation with overlapping or partially overlapping DL bands with (NG)EN-DC/NE-DC MTTD/MRTD according to clause 7.5.3/7.6.3 in TS 38.133 [5] and intra-band RF requirements.				only
maxUplinkDutyCycle-interBandENDC-FDD-TDD-PC2-r16	BC	No	N/A	FR1
Indicates the maximum percentage of symbols during a certain evaluation period 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 <i>maxUplinkDutyCycle-FDD-TDD-EN-DC1</i> and <i>maxUplinkDutyCycle-FDD-TDD-EN-DC2</i> 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.				only
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 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.			only	only
scg-ActivationDeactivationENDC-r17	BC	No	N/A	N/A
Indicates whether the UE supports activation (with or without RACH) and deactivation on SCG in EN-DC, upon SCG addition and upon reconfiguration of the SCG, as specified in TS 38.331 [9]. A UE supporting this feature shall indicate support of EN-DC as specified in TS 36.331 [17]. For the UE supporting this feature, it is mandatory to report <i>maxNumberCSI-RS-BFD</i> and <i>maxNumberSSB-BFD</i> for all NR bands of this band combination where the UE supports SpCell.				

scg-ActivationDeactivationResumeENDC-r17	BC	No	N/A	N/A
Indicates whether the UE supports activation (with or without RACH) and				
deactivation on SCG in EN-DC, upon reception of an RRCReconfiguration included				
in an RRCConnectionResume message, as specified in TS 38.331 [9] and TS				
36.331 [17], A UE supporting this feature shall indicate support of EN-DC and				
support of resumeWithSCG-Config-r16 as specified in TS 36.331 [17]. For the UE				
supporting this feature, it is mandatory to report maxNumberCSI-RS-BFD and				
maxNumberSSB-BFD for all NR bands of this band combination where the UE				
	<b>D</b> O		N1/A	N1/A
Indicates whether the LIE supports simultaneous transmission and reception in	BC	Cr	IN/A	N/A
TDD_TDD and TDD_EDD inter_hand (NG)EN_DC/NE_DC. It is mandatory for certain				
TDD-TDD and TDD-TDD hand combinations defined in TS 38 101-3 [4]				
This capability does not apply to the following components within TDD-TDD and				
TDD-FDD inter-band (NG)EN-DC/NE-DC combination:				
- Intra-band (NG)EN-DC/NE-DC component				
- Inter-band (NG)EN-DC/NE-DC component 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]).				
simultaneousRx1xInterBandENDCPerBandPair	BC	CY	N/A	N/A
Indicates whether the UE supports simultaneous transmission and reception in				
hand combination				
Encoded in the same manner as simultaneous $RxTxInterBandCAPerBandPair$				
The LIE does not include this field if the LIE supports simultaneous transmission and				
reception for all applicable band pairs in the band combination (in which case				
simultaneousRxTxInterBandENDC is included) or does not support for any band				
pair in the band combination. It is mandatory for certain band pairs as specified in				
TS 38.101-3 [4]. 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
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				
or idm-restriction DD-ende-into.	BC	ED	Ν/Λ	Ν/Λ
Indicates that the LIE does not support simultaneous LIL transmissions as defined in	ВС		IN/A	IN/A
TS 38 101-3 [4]. The UE may only include this field for certain hand 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	UE	No	N/A	N/A
Indicates whether the UE supports a SpCell on FR1-FDD, FR1-TDD and/or FR2-				
TDD depending on which additional SCells of other frequency range(s) / duplex				
mode(s) are configured. It is applicable to SCG of (NG)EN-DC and MCG of NE-DC,				
where UL is configured on more than one of FR1-FDD, FR1-TDD and FR2-TDD in				
a cell group. If not included, the DE supports SpCell on any serving cell with DE in				
tdm-Pattern	BC	CY	Ν/Δ	FR1
Indicates whether the UE supports the tdm-PatternConfig for single III -transmission			11/7	only
associated functionality, as specified in TS 36.331 [17]. Support is conditionally				5,
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.				

tdm-restrictionDualTX-EDD-endc-r16	BC	No	Ν/Δ	FR1
Indicates whether the LIE supports TDM restriction to LTE EDD PCell in (NG)EN-			1.077	only
DC for dual LIL transmission operation when <i>tdm</i> -PatternConfig2-R16 is configured				Unity
as specified in TS 36 331 [17] LIE indicates support this feature shall also indicate				
support of <i>tdm-Pattern</i> .				
tdm-restrictionEDD-endc-r16	BC	No	N/A	FR1
Indicates whether the LIE supports TDM restriction to LTE EDD PCell for single LIL.			1.077	only
transmission associated functionality when tdm-PatternConfig2-R16 is configured				Only
as specified in TS 36 331 [17] This is applicable for EDD (NG)EN-DC. LIE indicates				
support this feature shall also indicate support of <i>tdm-Pattern</i>				
tdm-restrictionTDD-endc-r16	BC	No	N/A	FR1
Indicates whether the UE supports TDM restriction to LTE TDD PCell for single UI -				only
transmission associated functionality when tdm-PatternConfig2-R16 is configured				Only
as specified in TS 36.331 [17]. This is applicable for synchronous TDD-TDD				
(NG)EN-DC.				
ul-SharingEUTRA-NR	BC	No	N/A	FR1
Indicates whether the UE supports (NG)EN-DC/NE-DC with EUTRA-NR				only
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].				
ul-SwitchingTimeEUTRA-NR	BC	CY	N/A	FR1
Indicates support of switching type between LTE UL and NR UL for (NG)EN-				only
DC/NE-DC with LTE-NR coexistence in UL sharing from UE perspective as defined				
in clause 6.3B of TS 38.101-3 [4]. It is mandatory to report switching time type 1 or				
type 2 if UE reports ul-SharingEUTRA-NR is tdm or both.				
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 secold life and list to				
I his capability applies to:				
- Intra-band contiguous (NG)EN-DC combination without additional inter-band				
Intro hand continuous (NC)EN DC combination supporting both LIL and DL				
- Intra-band contiguous (NG)EN-DC combination supporting both UL and DL				
inita-band (NG)EN-DC parts with additional inter-band NR/LTE CA				
Inter band (NC)EN DC combination, where the frequency range of the E				
- Inter-band (NG)EN-DC combination, where the frequency range of the LTDA band is a subset of the frequency range of the ND band (as apacified				
in Table 5 5B 4.1.1 of TS 28 101 2 [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.				

## 4.2.7.10 Phy-Parameters

Definitions for parameters	Per	М	FDD-	FR1-
			DIFF	DIFF
absoluteTPC-Command	UE	No	No	Yes
aggregationFactorSPS-DL-r16 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 support of <i>downlinkSPS</i> .	UE	No	No	Yes
<i>almostContiguousCP-OFDM-UL</i> Indicates whether the UE supports almost contiguous UL CP-OFDM transmissions as defined in clause 6.2 of TS 38,101-1 [2].	UE	No	No	Yes
<b>bwp-SwitchingDelay</b> 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 when <i>bwp-SameNumerology</i> or <i>bwp-DiffNumerology</i> is supported on at least one band. This capability is not applicable to IAB-MT.	UE	CY	No	No
<ul> <li><i>bwp-SwitchingMultiCCs-r16</i></li> <li>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: <ul> <li><i>type1-r16</i> indicates the delay value for type 1 BWP switching delay and has values of {100us, 200us}</li> <li><i>type2-r16</i> indicates the delay value for type 2 BWP switching delay and has values of {200us, 400us, 800us, 1000us}</li> </ul> </li> <li>The UE indicating support of this feature shall also support <i>bwp-SwitchingDelay, bwp-SameNumerology</i> and/or <i>bwp-DiffNumerology</i>. It is mandatory to report either <i>type1-r16</i> or <i>type2-r16</i> for a UE which supports CA.</li> </ul>	UE	СҮ	No	No
<ul> <li>bwp-SwitchingMultiDormancyCCs-r16</li> <li>Indicates whether the UE supports incremental delay for BWP switch processing on 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: <ul> <li>type1-r16 indicates the delay value for type 1 BWP switching delay and has values of {100us, 200us}</li> <li>type2-r16 indicates the delay value for type 2 BWP switching delay and has values of {200us, 400us, 800us, 1000us}</li> </ul> </li> <li>The UE indicating support of this feature shall also support scellDormancyWithinActiveTime-r16 or scellDormancyOutsideActiveTime-r16.</li> </ul>	UE	No	No	No
<i>cbg-FlushIndication-DL</i> Indicates whether the UE supports CBG-based (re)transmission for DL using CBG flushing out information (CBGFI) as specified in TS 38.214 [12].	UE	No	No	No
<i>cbg-TransIndication-DL</i> Indicates whether the UE supports CBG-based (re)transmission for DL using CBG transmission information (CBGTI) as specified in TS 38.214 [12].	UE	No	No	No
<i>cbg-TransIndication-UL</i> Indicates whether the UE supports 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
<ul> <li><i>cbg-TransInOrderPUSCH-UL-r16</i></li> <li>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)): <ol> <li>if the initial PUSCH transmission was not cancelled due to gNB scheduling/indication/configuration; and</li> <li>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.</li> </ol> </li> </ul>	UE	No	No	No
<b>cg-TimeDomainAllocationExtension-r17</b> Indicates whether UE supports the <i>timeDomainAllocation-v1710</i> configured in <i>rrc-ConfiguredUplinkGrant</i> to indicate 16 or more entries in PUSCH TDRA table. This field is only applicable if the UE supports both <i>pusch-RepetitionTypeB-r16</i> and either <i>configuredUL-GrantType1</i> or <i>configuredUL-GrantType1-v1650</i> .	UE	No	No	No

		Na		Vaa
CII-RSSI-FDW-DL-F10	UE	INO	י סט ד	res
Indicates whether serving cell DL signal/channel (e.g. PDSCH/PDCCH) and CLI-			only	
RSSI FDMed reception is supported as specified in TS 38.215 [13].				
cli-SRS-RSRP-FDM-DI -r16	UF	No	TDD	Yes
Indicates whether serving cell DL signal/channel (e.g. PDSCH/PDCCH) and SPS-	01		only	
Dob 5 Division of the set of the			Only	
RSRP FDMed reception is supported as specified in TS 38.215 [13].				
codebookVariantsList-r16	UE	No	No	No
Indicates the list of SupportedCSI-RS-Resource applicable to the codebook types				
supported by the LIE				
supported by the OL.		<b>N</b> 1	N 1	N
configuredUL-Grant i ype1	UE	INO	INO	NO
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				
and and a second of the second				
configuredoL-Grant Type 1-1 to applies.				
configuredUL-Grant I ype2	UE	NO	No	No
Indicates whether the UE supports Type 2 PUSCH transmissions with configured				
grant as specified in TS 38 214 [12] with UI -TWG-repK value of one. This applies				
solution and shared spectrum channel access. For shared spectrum channel access				
only to initiated spectrum channel access. For shared spectrum channel access,				
configuredUL-Grant Lype2-r16 applies.				
cgi-4-BitsSubbandTN-NonSharedSpectrumChAccess-r17	UE	No	No	No
Indicates whether the UE supports subband CQI reporting with 4 bits per subband				
for TN and non-shared spectrum channel access				
ior fin and hori-shared spectrum channel access.	=	<b>.</b>		
cqi-lableAlt	UE	NO	NO	Yes
Indicates whether UE supports the CQI table with target BLER of 10^-5.				
cri-RI-CQI-WithoutNon-PMI-PortInd-r16	LIE	No	No	Yes
Indicates whether II august of Clanget Configurith the report Quantity set to bri	0L		110	105
Indicates whether DE supports CSI-ReportCoring with the reportQuantity set to Ch-				
<i>RI-CQI</i> and the <i>non-PMI-PortIndication</i> is not configured.				
UE indicating support of this feature shall also indicate support of csi-				
PonortEromowork				
Report Framework.				
crossSlotScheduling-r16	UE	No	No	No
Indicates whether UE supports dynamic indication of applicable minimum				
scheduling restriction by DCI format 0, 1 and 1, 1, and the minimum scheduling				
officiation of postion of sportion of the triagoning officiat (KO) and DUSCH (K2)				
onset for PDSCH and apendic CSI-KS inggering onset (K0), and PDSCH (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 non-SharedSpectrumChAccess-r16 or				
sharedSpactrumChAccess.r16 shall be reported at least				
shared spectrum convectors in the reported, at reast.	=			
csi-Report-ramework	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</i> -				
ParametersParBand				
and the second		Na	Na	
csi-Report-rameworkExt-r16	UE	INO	INO	IN/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</i> -				
ParametersParBand				
		<b>N</b> 1		X
csi-reportivitnoutoul	UE	NO	NO	res
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].				
csi-ReportWithoutPMI	LIE	No	No	Yee
Indicates whether IIE supports COI reporting with report successful active to ICDU/DU/COI	0L		NU	100
indicates whether OE supports CSI reporting with report quantity set to 'CRI/RI/CQI'				
as defined in clause 5.2.1.4 of TS 38.214 [12].				
csi-RS-CFRA-ForHO	UE	No	No	No
Indicates whether the UE can perform reconfiguration with sync using a contention			-	-
free and an appendix to the appendix the appendix with synchronic that a consistent				
The random access with 4-step KA type on PKACH resources that are associated				
with USI-RS resources of the target cell. This applies only to non-shared spectrum				
channel access. For shared spectrum channel access, csi-RS-CFRA-ForHO-r16				
applies.				
and DC IM Persontian For Foodback		Var	NI-	N1/A
	UE	res	INO	IN/A
See csi-RS-IM-ReceptionForFeedback in 4.2.7.2. For a band combination				
comprised of FR1 and FR2 bands, this parameter, if present, limits the				
corresponding parameter in MIMO-ParametersPerBand				
cci_DS_DrocEramoworkEorSDS	115	No	No	NI/A
	UE		INU	IN/A
See csi-RS-ProcFrameworkForSRS in 4.2.7.2. For a band combination comprised				
of FR1 and FR2 bands, this parameter, if present, limits the corresponding				
parameter in MIMO-ParametersPerBand				
oci Trigger StateNen Active DIMD r16		No	No	Na
corringger oldlervorrectived VVP-110	UE		INU	INU
Indicates whether the UE supports CSI trigger states containing non-active BWP.		1		

dci-DL-PriorityIndicator-r16	UE	No	No	No
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.				
dci-Format1-2And0-2-r16	UE	No	No	No
Indicates whether the UE supports monitoring DCI format 1_2 for DL scheduling				
and monitoring DCI format 0_2 for UL scheduling.				
dci-UL-PriorityIndicator-r16	UE	No	No	No
Indicates whether the UE supports the priority indicator field configured in DCI				
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				only
dedicated PUCCH/SRS and PUSCH. 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 supported SRS-Resources and				
maxNumberContiguredSpatialRelations.				
dl-64QAM-MCS-TableAlt	UE	No	No	Yes
Indicates whether the UE supports the alternative 64QAM MCS table for PDSCH.				
di-SchedulingOffset-PDSCH-TypeA	UE	Yes	Yes	Yes
Indicates whether the UE supports DL scheduling slot offset (KU) greater than 0 for				
PDSCH mapping type A.	=			
di-SchedulingOffset-PDSCH-TypeB	UE	Yes	Yes	Yes
Indicates whether the UE supports DL scheduling slot offset (KU) 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 conliguration is supported per cell group. This applies only to				
non-shared spectrum channel access. For shared spectrum channel access,				
duwniiinikSPS-110 applies.		No	No	No
dynamicBetaOnsetting-mARQ-ACR-CSI	UE	INO	INO	INO
Indicates whether the DE supports indicating beta-onset (DC) repetition factor onto				
PUSCH) for HARQ-ACK and/or USI via DUI among the RRU configured beta-				
olisels.		Voc	No	No
Indicators whather the LIE supports HAPO ACK and shock dynamically constructed	UE	165	INO	INO
hy DCI(s). This field shall be set to supported				
dy Don(s). This field shall be set to supported.		No	No	No
Indicates whether the LIE supports HARO-ACK codebook size for CBG-based			NO	110
(re)transmission based on the DAI-based solution as specified in TS 38 213 [11]				
dvnamicPRR-RundlingDl	LIE	No	No	No
Indicates whether LIE supports DCI-based indication of the PRG size for PDSCH			140	
recention				
dynamicSEI	UF	No	Yes	Yes
Indicates whether the UE supports monitoring for DCI format 2.0 and determination	02		100	100
of slot formats via DCI format 2_0. This applies only to non-shared spectrum				
channel access. For shared spectrum channel access. dvnamicSFI-r16 applies.				
dvnamicSwitchRA-Tvpe0-1-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				
value if SRI is not present in the UL grant.				
extendedCG-Periodicities-r16	UE	No	No	No
Indicates that the UE supports extended periodicities for CG Type 1 (if the UE				
indicates configuredUL-GrantType1 or configuredUL-GrantType1-v1650 capability)				
or CG Type 2 (if the UE indicates configuredUL-GrantType2 or configuredUL-				
GrantType2-v1650 capability) as specified by periodicityExt-r16 field of IE				
ConfiguredGrantConfig in TS 38.331 [9].				
extendedSPS-Periodicities-r16	UE	No	No	No
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-PCellUL-TX-AllUL-Subframe-r16	UE	No	FDD	FR1
Indicates whether the UE configured with tdm-patternConfig-r16 can be semi-	_		onlv	only
statically configured with LTE UL transmissions in all UL subframes not limited to			<i>,</i>	<i>,</i>
the reference tdm-pattern (only for type 1 UE) in case of LTE FDD PCell UE				
indicating support can configure its I TE EDD PCell with this feature on the band				
combination which indicates support of either tdm-restrictionEDD-endc-r16				
or tdm-restrictionDualTY_EDD-ende-r16				
berg ACK CB Spatial Pundling PUCCH Croup #16		No	No	No
hardACK-CB-SpatialBundingPOCCH-Group-rio	UE	INO	INO	INO
Indicates whether the UE supports HARQ-ACK codebook type and HARQ-ACK				
spatial bundling configuration per PUCCH group as specified in 15 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:				
<ul> <li>maxNumberLongPUCCHs-r16 indicates maximum number of long PUCCHs</li> </ul>				
within a slot for separate HARQ-Ack				
The LIE that indicates support of this feature shall support multiDCI-MultiTRP-r16				
haraACK_iointMultiDCLMultiTPD_r16		No	No	No
Indicates whether the UE support of joint HADO ACK. The UE that indicates	UL	INU	INU	INU
Indicates whether the DE support of joint HARQ-ACK. The DE that indicates				
	=			
pucch-F0-2WithoutFH	UE	Yes	NO	Yes
Indicates whether the UE supports transmission of a PUCCH format 0 or 2 without				
frequency hopping. When included, the UE does not support PUCCH formats 0 and				
2 without frequency hopping. When not included, the UE supports the PUCCH				
formats 0 and 2 without frequency hopping.				
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].				
interSlotFreaHopping-PUSCH	UF	No	No	No
Indicates whether the LIE supports inter-slot frequency hopping for PUSCH	02			
intraSlotEreaHopping-PUSCH	LIE	Ves	No	Ves
Indicators whather the LIE supports intra clot frequency benning for DUSCH	UL	165	INU	163
transmission, except for DUSCH scheduled by DDCCH in the Type1 DDCCH				
transmission, exception POSCH scheduled by PDCCH in the Type I-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 maxMIMO-Layers				
as specified in TS 38.331 [9].				
maxNumberPathlossRS-update-r16	UE	No	No	No
Indicates the maximum number of configured pathloss reference RSs for	_			
PLISCH/PLICCH/SRS by BRC that the LIE can support for MAC-CE based pathloss				
reference RS undate				
maxNumberSearchSpaces		No	No	No
Indicates whether the LIE supports up to 10 search spaces in an SCell per BWP			NO	NO
marchumber CBC Respectful and Estimate All Conving Calls rdf		No	No	No
IndxinumberSRS-POSPathLossEstimateAnServingCens-rio	UE	INO	INO	INO
nuccates the maximum number of pathloss estimates that the UE can				
simultaneously maintain for all the SKS resource sets for positioning across all cells				
in addition to the up to four pathloss estimates that the UE maintains per serving				
ceil for the PUSCH/PUCCH/SKS transmissions. The UE shall include this field if the				
UE supports any of olpc-SRS-PosBasedOnPRS-Serving-r16, olpc-SRS-				
PosBasedOnSSB-Neigh-r16 and olpc-SRS-PosBasedOnPRS-Neigh-r16.				
Otherwise, the UE does not include this field;				

<i>maxNumberSRS-PosSpatialRelationsAllServingCells-r16</i> 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-PosBasedOnSSB-Serving-r16, spatialRelation-SRS-PosBasedOnCSI-RS-Serving-r16, spatialRelation-SRS- PosBasedOnPRS-Serving-r16, spatialRelation-SRS-PosBasedOnSSB-Neigh-r16 or spatialRelation-SRS-PosBasedOnPRS-Neigh-r16. Otherwise, the UE does not include this field;	UE	No	No	FR2 only
<ul> <li>maxTotalResourcesForAcrossFreqRanges-r16         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:         <ul> <li>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.         <ul> <li>maxNumberResAcrossCC-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.</li> </ul> </li> </ul></li></ul>	UE	No	No	No
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.				
<ul> <li>NOTE 1: The "configured to measure" RS is counted within the duration of a reference slot in which the corresponding reference signals are transmitted.</li> <li>NOTE 2: Regarding the "configured to measure" RS counting <ul> <li>(basic usage 1): If one resource is used for one or multiple of BFD/RLM, it is counted as one.</li> <li>(basic usage 2): If one resource is used for one or multiple of New Beam Identification/PL-RS/L1-RSRP, add 1.</li> <li>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 trs-Info not configured.</li> </ul> </li> <li>If one resource is used for L1-SINR in addition to basic usage 1 &amp; 2, add N if referred N times by one or more CSI Reporting settings with reportQuantity-r16 = 'ssb-Index-SINR-r16'.</li> </ul>				

<i>maxTotalResourcesForOneFreqRange-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 for one frequency range that the UE supports. The capability signalling includes the following:	UE	No	No	Yes
<ul> <li>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</li> <li>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, L1-SINR measurement, BFD, RLM and new beam identification</li> </ul>				
gNB takes into conjunction of this feature and the features <i>beamManagementSSB-CSI-RS, maxNumberCSI-RS-BFD, maxNumberSSB-BFD</i> and <i>maxNumberCSI-RS-SSB-CBD</i> 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.				
<ul> <li>NOTE 5: Regarding the "configured to measure" RS counting <ul> <li>(basic usage 1): If one resource is used for one or multiple of BFD/RLM, it is counted as one.</li> <li>(basic usage 2): If one resource is used for one or multiple of New Beam Identification/PL-RS/L1-RSRP, add 1.</li> <li>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 trs-Info not configured.</li> <li>If one resource is used for L1-SINR in addition to basic usage 1 &amp; 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'.</li> </ul> </li> </ul>				
<i>monitoringDCI-SameSearchSpace-r16</i> Indicates whether the UE supports monitoring both DCI format 0_1/1_1 and DCI	UE	No	No	No
format 0_2/1_2 in the same search space. If the UE supports this feature, the UE needs to report <i>dci-Format1-2And0-2-r16</i> .				
<i>mTRP-PDCCH-singleSpan-r17</i> Indicates the support of PDCCH repetition for PDCCH monitoring with a single span of three contiguous OFDM symbols that is within the first four OFDM symbols in a slot. It is applicable to 15kHz SCS only. The UE indicating support of this feature shall also indicate support of <i>pdcch-</i> <i>MonitoringSingleSpanFirst4Sym-r16</i> and <i>mTRP-PDCCH-Repetition-r17</i> .	UE	No	No	FR1 only
<i>multiPDSCH-PerSlotType1-CB-Support-r17</i> Indicates whether the UE supports RRC configuration <i>multiPDSCH-PerSlotType1-</i>	UE	No	No	No
CB-r17 as specified in TS 38.331 [9].		CY	No	Vec
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 signalling for FR2 and optional for FR1.			110	163

<i>multipleCORESET-RedCap-r17</i> Indicates whether the RedCap UE supports configuration of up to three PDCCH CORESETs in the RedCap specific initial DL BWP when it does not contain CD- SSB and CORESET#0. If this is not supported, the field description of <i>multipleCORESET</i> applies to the RedCap-specific initial BWP. The RedCap UE reporting this capability shall also report <i>multipleCORESET</i> .	UE	No	No	No
<i>mux-HARQ-ACK-PUSCH-DiffSymbol</i> 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, <i>mux-HARQ-ACK-PUSCH-DiffSymbol-r16</i> applies.	UE	Yes	No	Yes
mux-HARQ-ACK-withoutPUCCH-onPUSCH-r16	UF	Yes	No	No
Indicates that the UE is implemented according to the definition in TS 38.213 [11] for multiplexing HARQ-ACK in a PUSCH in a PUCCH slot when the UE has no HARQ-ACK for any DL activity to transmit, but it receives UL grant(s) with UL-TDAI field indicating HARQ-ACK multiplexing on a PUSCH, and it transmits multiple PUSCHs in the PUCCH slot.	01			
mux-MultipleGroupCtrICH-Overlap	UF	No	No	Yes
Indicates whether the UE supports more than one group of overlapping PUCCHs and PUSCHs per slot per PUCCH cell group for control multiplexing.	02		110	100
<i>mux-SR-HARQ-ACK-CSI-PUCCH-MultiPerSlot</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. This applies only to non-shared spectrum channel access. For shared spectrum channel access, <i>mux-SR-HARQ-ACK-CSI-PUCCH-MultiPerSlot-r16</i> applies.	UE	No	No	Yes
mux-SR-HARQ-ACK-CSI-PUCCH-OncePerSlot	UF	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 on a PUCCH or piggybacking on a PUSCH once per slot, when SR, HARQ-ACK and CSI on a PUCCH or piggybacking on a PUSCH once per slot, when SR, HARQ-ACK and CSI are supposed to be sent with the different starting symbols in a slot. The UE is mandated to support the multiplexing and piggybacking features indicated by <i>sameSymbol</i> while the UE is optional to support the multiplexing and piggybacking features indicated by <i>diffSymbol</i> . If the UE indicates <i>sameSymbol</i> in this field and does not support <i>mux-HARQ-ACK-PUSCH-DiffSymbol</i> , the UE supports HARQ-ACK/CSI piggyback on PUSCH once per slot, when the starting OFDM symbol of the PUSCH is the same as the starting OFDM symbols of the PUCCH resource(s) that would have been transmitted on. If the UE indicates <i>sameSymbol</i> in this field and supports <i>mux-HARQ-ACK-PUSCH-DiffSymbol</i> , the UE supports HARQ-ACK/CSI piggyback on PUSCH once per slot for which case the starting OFDM symbol of the PUSCH is the different from the starting OFDM symbols of the PUCCH resource(s) that would have been transmitted on. This applies only to non-shared spectrum channel access. For shared spectrum channel access, <i>mux-SR-HARQ-ACK-CSI-PUCCH-OncePerSlot-r16</i> 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-SR-HARQ-ACK-PUCCH-r16</i> applies.				100
<i>newBeamIdentifications2PortCSI-RS-r16</i> Indicates whether the UE supports 2 port CSI-RS for new beam identification with the same resource counting as in <i>maxTotalResourcesForOneFreqRange-r16</i> and <i>maxTotalResourcesForAcrossFreqRanges-r16</i> .	UE	No	No	No
nzp-CSI-RS-IntefMgmt	UE	No	No	No
Indicates whether the UE supports interference measurements using NZP CSI-RS. oneFL-DMRS-ThreeAdditionalDMRS-UL Defines whether the UE supports DM BS setters for UL transmission with 4 surgers	UE	No	No	Yes
front-loaded DM-RS with three additional DM-RS symbols.				
oneFL-DMRS-TwoAdditionalDMRS-UL Defines support of DM-RS pattern for UL transmission with 1 symbol front-loaded DM-RS with 2 additional DM-RS symbols and more than 1 antenna ports.	UE	Yes	No	Yes

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.				
onePUCCH-LongAndShortFormat	UE	No	No	Yes
Indicates whether the UE supports transmission of one long PUCCH format and				
one short PUCCH format in 1 DM in the same slot.				
pathiossestimation2PortCSI-RS-r16	UE	NO	NO	NO
Indicates whether the UE supports 2 port CSI-RS for pathloss estimation with the				
same resource counting as in maxifolar esources for One regrange-110 and				
		Vaa	No	ГРО
pceii-rrz	UE	res	INO	
ndicates whether the OL supports FCell operation of FR2.	110	No	No	
Indicates whether the LIE supports receiving PDCCH in a search space configured	UE	INO	INO	
to be monitored within a single span of any three contiguous OEDM symbols in a				Only
slot with the canability of supporting at least 44 blind decodes in a slot for 15 kHz				
subcarrier spacing				
ndcch-BlindDetectionCA	UF	No	No	No
Indicates PDCCH blind decoding capabilities supported by the LIE for CA with more	01		110	
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.				
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 pdcch-BlindDetectionCA, 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.				
The field value is from 1 to 15. The UE sets the value in accordance with the				
constraints specified in 15 38.213 [11].				
Additionally, If the UE does not report pacch-binabetectionCA, and If X is the				
applications then there is at least one peremeter pair (X1, X2) such that X1, LX2 =				
Combinations then there is at least one parameter pair $(\Lambda^{T}, \Lambda^{Z})$ such that $\Lambda^{T} + \Lambda^{Z} =$				
and X2 CCs in SCG and for which X1 <- pdcch-BlindDetectionMCG-I E and X2 <-				
ndcch-BlindDetectionSCG-LIF				
pdcch-MonitoringAnyOccasionsWithSpanGapCrossCarrierSch-r16	UF	No	No	No
Indicates how the UE supports pdcch-MonitoringAnyOccasionsWithSpanGap in	01		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.				
NUTE: For pacch-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.		Ne	Na	
Indicates whether the UE supports receiving DDCCH is a secret appear configured	UE		INO	
to be monitored within a single span of any three continuous OEDM symbols that				
are within the first four OFDM symbols in a slot with the capability of supporting at				
least 44 blind decodes in a slot for 15 kHz subcarrier spacing				

pdsch-256QAM-FR1	UE	CY	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].				
It is mandatory with capability signalling for non-RedCap UEs and optional for				
RedCap UEs.	· · -			
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.		Vaa	Na	Na
posch-inapping i ypen Indicator whathar the LIE supports receiving DDSCH using DDSCH mapping type	UE	res	INO	INO
B				
ndsch-RenetitionMultiSlots	UE	No	No	No
Indicates whether the LIE supports receiving PDSCH scheduled by DCI format 1_1	UL		NO	
when configured with pdsch-Aggregation Factor $> 1$ , 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-r16 applies.				
pdsch-RE-MappingFR1-PerSvmbol/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.		NIa	N.L.	NIa
precoder Granularity CORESEI	UE	NO	NO	NO
Indicates whether the DE supports receiving PDCCH in CORESET's conligured with				
domain as specified in TS 28 211 [6]				
nre-EmptIndication-DI		No	No	No
Indicates whether the LIE supports interrupted transmission indication for PDSCH	UL		NO	INU
recention based on recention 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	Yes	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 mandatory with capability signalling for FR1 and 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-Repetition-CG-SDT-r17	UE	No	No	No
Indicates whether the UE supports PUSCH repetitions for CG-SDT, as defined in				
TS 38.214 [12]. A UE supporting this feature shall also indicate the support of				
type1-PUSCH-RepetitionMultiSlots or pusch-RepetitionTypeB-r16. When UE				
indicates type1-PUSCH-RepetitionMultiSlots and pusch-Repetition-CG-SDT-r17,				
the UE supports PUSCH repetition for type A. When UE indicates pusch-				
RepetitionTypeB-r16 and pusch-Repetition-CG-SDT-r17, UE supports PUSCH				
repetition for type B. A UE can include this feature only if the UE indicates the				
support of cq-SDT-r17.				
pusch-RepetitionMultiSlots	UE	Yes	No	No
Indicates whether the UE supports transmitting PUSCH scheduled by DCI format	_			
0 1 when configured with pusch-AggregationFactor > 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-RepetitionMultiSlots-r16</i>				
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, pucch-Repetition-				
F1-3-4-r16 applies.				
pusch-HalfPi-BPSK	UF	Yes	No	Yes
Indicates whether the UE supports pi/2-BPSK modulation scheme for PUSCH as	01		110	100
defined in 6.3.1.2 of TS 38.211 [6]. It is mandatory with capability signalling for ER1				
and FR2. This canability is not applicable to IAB-MT				
nusch-I BRM	LIE	No	No	Yes
Indicates whether the LIF supports limited buffer rate matching in LIL as specified in			NO	163
nusch-PenetitionTuneA_r16		No	No	No
Indicates whether the LIE supports the dynamic indication of the number of			NO	INO.
repetitions for PLISCH transmission as specified in TS 38 214 [12] clause 6.1.2.1				
Support of this field is reported for shared spectrum channel access and non shared				
support of this field is reported for shared spectrum channel access and non-shared				
support at least one of type? PUSCH Penetition//ultiSlots and pusch				
Repetition/////tillots for shared spectrum and non-shared spectrum respectively				
		No	No	No
Indicates whether the LIE supports resource allocation Type 0 for DUSCH as	UE	INO	INO	INO
specified III 15 50.214 [12].		Vaa	No	No
Indicator whether the LIE supports dynamic rate matching for DL control resource	UE	res	INO	INO
sot				
Sel.		No	No	No
Indicates whether the UE supports receiving DDSCH with recourse menning that		INO	INU	INO
indicates whether the DE supports receiving PDSCH with resource mapping that				
excludes the RES corresponding to resource sets configured with RE-symbol rever				
22 221[0]) based on dynamic indication in the school ling DCL on aposition in TS				
50.214 [12].		Vaa	No	No
Indicates whether the UE supports receiving DDCH with recourse monning that		res	INO	INO
indicates whether the DE supports receiving PDSCH with resource mapping that				
excludes the RES corresponding to resource sets configured with RE-symbol rever				
granularity indicated by billinaps and control Resourceser (see patient type in Data Match Dattern in TS 29, 224 [0]) fallowing the sami static configuration on				
RateMatchPattern in 15 36.331[9]) following the semi-static configuration as				
		Nia	Na	
SCS-OUKIZ	UE	INO	INO	FRI
The second in aloung 4.2.4 of TS 22,214 [6]				only
		Nia	Na	Vee
semiOpenLoopCSI	UE	INO	INO	res
Indicates whether DE supports CSI reporting with report quantity set to				
		Vee	NI-	NIa
semistaticHARQ-ACK-CODEDOOK	UE	res	INO	INO
Indicates whether the UE supports HARQ-AUK codebook constructed by semi-				
		Ne	NI-	Vac
simultaneous i Ci-ActiviuitipieCC-r16	UE	INO	INO	res
Indicates the UE support of simultaneous TUI state activation across multiple CCs.				
In the OE indicates support of this for a FK, the OE shall support this on the				
supported barries of the indicated FK where the UE reports the support of TUI-states				
	1	1		

simultaneousSpatialRelationMultipleCC-r16	UE	No	No	FR2
Indicates the UE support of simultaneous spatial relation across multiple CCs for				only
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.				
slotBasedDynamicPUCCH-Rep-r17	UE	No	No	No
Indicates whether the UE supports both slot based dynamic PUCCH repetition and				
slot based dynamic repetition indication for PUCCH formats 0/1/2/3/4.				
UE indicating support of this feature shall also indicate support of <i>pucch-Repetition</i> -				
F1-3-4 or pucch-Repetition-F0-2-r17.				
spatialBundlingHARQ-ACK	UE	Yes	No	No
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.				
spatialRelationUpdateAP-SRS-r16	UE	No	No	FR2
Indicates the UE support of spatial relation update for AP-SRS using MAC CE. The				only
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.				
spCellPlacement	UE	No	No	No
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.				
sps-HARQ-ACK-Deferral-r17	UE	No	TDD	No
Indicates whether the UE supports SPS HARQ-ACK deferral in case of TDD			only	
collision comprised of the following functional components:				
- Identify HARQ-ACK bits of active SPS configurations for deferral in the initial				
PUCCH slot;				
<ul> <li>Determination of the target PUCCH slot for SPS HARQ-ACK deferral;</li> </ul>				
- Multiplexing and transmission of deferred SPS HARQ-ACK information in the				
target PUCCH slot;				
<ul> <li>Handling of the collision for the same HARQ process due to deferred SPS</li> </ul>				
HARQ-ACK.				
Support of this feature is reported for licensed and unlicensed bands, respectively.				
When this field is reported, either of non-SharedSpectrumChAccess-r17 or				
sharedSpectrumChAccess-r17 shall be reported, at least.				
A UE supporting this feature shall also indicate support of <i>downlinkSPS</i> .				
sp-CSI-IM	UE	No	No	Yes
Indicates whether the UE supports semi-persistent CSI-IM.				
sp-CSI-ReportPUCCH	UE	No	No	No
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, sp-CSI-ReportPUCCH-r16 applies.				
sp-CSI-ReportPUSCH	UE	No	No	No
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.				
sp-CSI-RS	UE	Yes	No	Yes
Indicates whether the UE supports semi-persistent CSI-RS.				
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				
supports this feature, the UE needs to report <i>downlinkSPS</i> and <i>dci-Format1-2And0-</i>				
2-r16.				
srs-AdditionalRepetition-r17	UE	No	No	No
Indicates support of the value "n3" for repetitionFactor-r17.				
The UE indicating support of this feature shall also indicate support of srs-				
increasedRepetition-r17.				

srs-PeriodicityAndOffsetExt-r16	UE	No	No	No
Indicates whether the UE supports the periodicity of semi-persistent and periodic				
SRS with 128, 256, 512, and 20480 slots.				
supportedActivatedPRS-ProcessingWindow-r17	UE	No	No	No
Indicates the number of supported activated PRS processing windows across all				
active DL BWPs. The UE can include this field only if the UE supports one of prs-				
ProcessingWindowType1A-r17, prs-ProcessingWindowType1B-r17 or prs-				
Processing window i ype2-r17. Otherwise, the UE does not include this field.			NI-	N <sub>a</sub> a
supportedDMRS-TypeDL	UE	FD	NO	Yes
Defines supported DM-RS configuration types at the UE for DL reception. Type 1 is				
Turne 1 is supported				
			No	Voo
Supported DMRS-TypeoL Defines supported DM PS configuration types at the LIE for LIL transmission	UE	FD	INO	res
Support of both type 1 and type 2 is mandatory with canability signalling. If this field				
is not included. Type 1 is supported				
supportRenetitionZeroOffsetRV-r16	UE	No	No	No
Indicates whether UE supports the value 0 for the parameter sequenceOffsetforRV			140	110
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				
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 <i>multiDCI-MultiTRP</i> -				
1710.		NLa	NI-	NI-
ta-BasedPDC-IN-NonSnaredSpectrumChAccess-r1/	UE	NO	NO	NO
Indicates whether the UE supports propagation delay compensation based on Rel-				
targetSMTC-SCC_r16		No	No	No
Indicates the support of configuration of SMTC of target SCC cell with field		INO	INO	INO
targetCellSMTC-SCG				
tdd-MultiDI -III -SwitchPerSlot	UE	No	חחד	Yes
Indicates whether the UE supports more than one switch points in a slot for actual			only	105
DI /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			- ,	- ,
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 tdm-restrictionTDD-endc-r16.				
tpc-PUCCH-RNTI	UE	No	No	Yes
Indicates whether the UE supports group DCI message based on TPC-PUCCH-				
RNTI for TPC commands for PUCCH.				
tpc-PUSCH-RNTI	UE	No	No	Yes
Indicates whether the UE supports group DCI message based on TPC-PUSCH-				
KNII 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				
IOF IPU COMMANDS FOR SKS.			V-	<b>V</b> -
twoumerent i PG-Loop-PUCCH		res	res	res
nuccates whether the UE supports two different TPC loops for PUCCH closed loop				
power control.		Vee	Ver	Vee
Indicates whether the LIE supports two different TPC loops for DUSCH closed loop		res	res	res
<b>twoFL-DMRS</b> Defines whether the UE supports DM-RS pattern for DL reception and/or UL transmission with 2 symbols front-loaded DM-RS without additional DM-RS	UE	Yes	No	Yes
---	----	-----	-----	-----
symbols. The left most in the bitmap corresponds to DL reception and the right most bit in the bitmap corresponds to UL transmission.				
twoFL-DMRS-TwoAdditionalDMRS-UL Defines whether the UE supports DM-RS pattern for UL transmission with 2 symbols front-loaded DM-RS with one additional 2 symbols DM-RS	UE	Yes	No	Yes
twoPUCCH-AnyOthersInSlot	UE	No	No	Yes
Indicates whether the UE supports transmission of two PUCCH formats in TDM in				
the same slot, which are not covered by twoPUCCH-F0-2-ConsecSymbols and onePUCCH-LongAndShortFormat.				
twoPUCCH-F0-2-ConsecSymbols	UE	No	Yes	Yes
consecutive symbols in a slot				
twoStepRACH-r16	UE	No	No	No
Indicates whether the UE supports the following basic structure and procedure of 2- step RACH:				
- Fallback procedures from 2-step RA type to 4-step RA type;				
<ul> <li>MSGA PRACH resource and format determination;</li> </ul>				
- MSGA PUSCH configuration;				
<ul> <li>Validation and transmission of MSGA PRACH and PUSCH;</li> </ul>				
<ul> <li>Mapping between preamble of MSGA PRACH and PUSCH occasion with DMRS resource of MSGA PUSCH;</li> </ul>				
<ul> <li>MSGB monitoring and decoding;</li> </ul>				
<ul> <li>PUCCH transmission for HARQ-ACK feedback to a MSGB;</li> </ul>				
<ul> <li>Power control for MSGA PRACH, MSGA PUSCH and PUCCH carrying HARQ-ACK feedback to MSGB.</li> </ul>				
<ul> <li>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</li> </ul>				
twoTCI-Act-servingCellInCC-List-r16	UE	CY	No	Yes
Indicates whether the UE supports receiving the Enhanced TCI States				
Activation/Deactivation for UE-specific PDSCH MAC CE (as specified in TS 38.321				
[8] clause 6.1.3.24) indicating a serving cell configured as part of <i>simultaneousTCI</i> -				
If the LIE indicates support of simultaneous TCLActMultipleCC-r16 for a EP and				
support of at least one of singleDCI-SDM-scheme-r16, supportFDM-SchemeA-r16.				
supportFDM-SchemeB-r16, supportTDM-SchemeA-r16 or supportInter-slotTDM-r16				
for at least one band or component carrier of this FR, the UE shall indicate support				
of twoTCI-Act-servingCellInCC-List-r16 for this FR.				
type1-HARQ-ACK-Codebook-r16	UE	No	No	Yes
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 dci-Format1-2And0-2-r16. Support for FR1/FR2 is differentiated				
from the viewpoint of the scheduled carrier.				
type1-PUSCH-RepetitionMultiSlots	UE	No	No	No
arapt as specified in TS 38 214 [12] with LIL-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				
RepetitionMultiSlots-r16 applies				
tvpe2-CG-ReleaseDCI-0-1-r16	UE	No	No	No
Indicates whether the UE supports type 2 configured grant release by DCI format				
0_1. If the UE supports this feature, the UE needs to report <i>configuredUL</i> -				
Grant Lype2 or configuredUL-GrantType2-v1650.				

type2-CG-ReleaseDCI-0-2-r16	UE	No	No	No
Indicates whether the UE supports type 2 configured grant release by DCI format				
0_2. If the UE supports this feature, the UE needs to report configuredUL-				
Grant Type2 of conliguredUL-Grant Type2-V1650 and dci-Format 1-2And0-2-r16.		NIa	NI-	NI-
Ippez-MARQ-ACA-COUCDOUR-110	UE	INO	INO	INO
foodbook in a codebook corresponde to more than one unicest DL DCI for some				
schoduled cell in a monitoring accession of a schoduling cell using the DDCH				
starting time in addition to the existing monitoring occasion and Cell index to order				
the HARO-ACK feedback				
type2-PUISCH-RepetitionMultiSlots	UE	No	No	No
Indicates whether the LIE supports Type 2 PUSCH transmissions with configured				110
grant as specified in TS 38 214 [12] with UI -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.				
unifiedJointTCI-commonUpdate-r17	UE	No	No	No
Indicates the maximum number of configured CC lists per cell group for common				
multi-CC TCI state ID update and activation.				
The UE indicating support of this feature shall also indicate support of				
unifiedJoint I CI-commonMultiCC-r17 or unifiedSeparateTCI-commonMultiCC-r17.				

# 4.2.7.11 Other PHY parameters

Definitions for parameters	Per	М	FDD- TDD DIFF	FR1- FR2 DIFF
<b>appliedFreqBandListFilter</b> 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
<b>downlinkSetEUTRA</b> Indicates the features that the UE supports on the DL carriers corresponding to one EUTRA band entry in a band combination by FeatureSetEUTRA-DownlinkId. The FeatureSetEUTRA-DownlinkId = 0 means that the UE does not support a EUTRA DL carrier in this band of a band combination.	Band	N/A	N/A	N/A
<b>downlinkSetNR</b> Indicates the features that the UE supports on the DL carriers corresponding to one NR band entry in a band combination by FeatureSetDownlinkId. The FeatureSetDownlinkId = 0 means that the UE does not support a DL carrier in this band of a band combination. A fallback per band feature set resulting from the reported DL feature set that has fallback per CC feature set is not signalled but the UE shall support it.	Band	N/A	N/A	N/A
<b>extendedBand-n77-r16</b> 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]. A UE supporting NS value 55 shall indicate this field.	UE	No	No	No
<b>extendedBand-n77-2-r17</b> This field is only applicable for UEs that indicate support for band n77. If present, the UE supports the restriction to 3450 - 3650 MHz and 3650 - 3980 ranges of band n77 in Canada 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 3450 - 3650 MHz range of band n77 in Canada. A UE that indicates this field shall also support NS value 57 as specified in TS 38.101-1 [2]. A UE supporting NS value 57 shall indicate this field.	UE	No	No	No
featureSetCombinations	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	UE	No	No	No
receivedFilters Contains all filters requested with UE-CapabilityRequestFilterNR from version 15.6.0 onwards.	UE	No	No	No
<b>supportedBandCombinationList</b> 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	UE	No	No	No
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.				
supportedBandListNR	UE	Yes	No	No
Includes the supported NR bands as defined in TS 38.101-1 [2], TS 38.101-2 [3],				
and TS 38.101-5 [34].				
uplinkSetEUTRA	Band	N/A	N/A	N/A
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.				
uplinkSetNR	Band	N/A	N/A	N/A
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.				

4.2.7.12 *NRDC-Parameters* 

Definitions for parameters	Per	М	FDD- TDD	FR1- FR2
			DIFF	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. If the band combination includes both FR1 and FR2 bands, 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	No	No	No
condPSCellAdditionNRDC-r17	BC	No	No	No
Indicates whether the UE supports conditional PSCell addition in NR-DC. The UE supporting this feature shall also support 2 trigger events for same execution condition in conditional PSCell addition in NR-DC.				
<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. In case MCG and SCG have cells in different frequency ranges, this field indicates the support of power sharing only between MCG and SCG cells with UL in FR1.	BC	No	No	FR1 only
intraFR-NR-DC-PwrSharingMode2-r16	BC	No	No	FR1
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> . In case MCG and SCG have cells in different frequency ranges, this field indicates the support of power sharing only between MCG and SCG cells with UL in FR1.				only
intraFR-NR-DC-DynamicPwrSharing-r16	BC	No	No	FR1
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> . In case MCG and SCG have cells in different frequency ranges, this field indicates the support of power sharing only between MCG and SCG cells with UL in FR1.				only
scg-ActivationDeactivationNRDC-r17	BC	No	No	No
Indicates whether the UE supports activation (with or without RACH) and deactivation on SCG in NR-DC, upon SCG addition and upon reconfiguration of the SCG, as specified in TS 38.331 [9]. A UE supporting this feature shall indicate support of NR-DC as specified in TS 38.331 [9]. For the UE supporting this feature, it is mandatory to report <i>maxNumberCSI-RS-BFD</i> and <i>maxNumberSSB-BFD</i> for all NR bands of this band combination where the UE supports SpCell.				
scg-ActivationDeactivationResumeNRDC-r17 Indicates whether the UE supports activation (with or without RACH) and deactivation on SCG in NR-DC, upon reception of an <i>RRCReconfiguration</i> included in an <i>RRCResume</i> message, as specified in TS 38.331 [9]. A UE supporting this feature shall indicate support of NR-DC and of <i>resumeWithSCG-Config-r16</i> as specified in TS 38.331 [9]. For the UE supporting this feature, it is mandatory to report <i>maxNumberCSI-RS-BFD</i> and <i>maxNumberSSB-BFD</i> for all NR bands of this band combination where the UE supports SpCell.	BC	No	No	No
sfn-SyncNRDC	UE	No	No	No
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.				

supportedCellGrouping-r16	BC	No	No	No
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 bitmap reported in this field refers to the cell grouping IDs that the network				
requested in <i>requestedCellGrouping-r16</i> . The first (leftmost) bit corresponds to ID#0				
(i.e. the first element in <i>requestedCellGrouping-r16</i> ), the second bit corresponds to				
ID#1 (i.e. the second element in <i>requestedCellGrouping-r16</i> ) and so on.				
NOTE: Irrespective of the indicated <i>supportedCellGrouping-r16</i> , 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 <i>ca-ParametersNRDC</i> .				

# 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	M	FDD-	FR1-
			TDD	FR2
configuradul CrontTurod #16		No	DIFF	DIFF
configuredUL-Grant (ype)-rio	UE	INO	INO	INO
grant as specified in TS 38.214 [12] with UI -TWG-repK value of one in shared				
spectrum channel access.				
configuredUL-GrantType2-r16	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 of one in shared				
spectrum channel access.				
downlinkSPS-r16	UE	NO	NO	NO
scheduling. One SPS configuration is supported per cell group in shared spectrum				
channel access.				
dynamicSFI-r16	UE	No	No	No
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.				
mux-HARQ-ACK-PUSCH-DiffSymbol-r16	UE	CY	No	No
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				
would have been transmitted on in shared spectrum channel access				
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].				
mux-SR-HARQ-ACK-CSI-PUCCH-MultiPerSlot-r16	UE	No	No	No
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				
mux-SR-HARQ-ACK-CSI-PIICCH-OncePerSlot-r16	UF	CY	No	No
sameSymbol indicates the UE supports multiplexing SR. HARQ-ACK and CSI on a	02			
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.				
If the UE indicates sameSvmbol in this field and does not support mux-HARQ-ACK-				
PUSCH-DiffSymbol-r16, 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-				
binsymbol-rib, the UE supports HARQ-ACK/CSI piggyback on PUSCH once per				
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 sameSymbol for mux-SR-HARQ-ACK-CSI-PUCCH-OncePerSlot-r16 if				
UE supports any of the deployment scenarios A.2, B, C, D and E in Annex B.3 of				
15 38.300 [28]. mux-SP-HAPO-ACK-DUCCH-r16		No	No	No
Indicates whether the UE supports multiplexing SR and HARO-ACK on a PUCCH	00			
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.				
pdsch-RepetitionMultiSlots-r16	UE	No	No	No
multicates whether the UE supports receiving PDSUH scheduled by DUI format 1_1				
38.214 [12] in shared spectrum channel access				
pre-EmptIndication-DL-r16	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] in				
shared spectrum channel access.				

<i>pusch-RepetitionMultiSlots-r16</i> Indicates whether the UE supports transmitting PUSCH scheduled by DCI format 0_1 when configured with <i>pusch-AggregationFactor</i> > 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	UE	CY	No	No
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

cli-RSSI-Meas-r16DIFDIFDIFIndicates whether the UE can perform CLI RSSI measurement as specified in TS 38.215 [13] and supports poriodical reporting and measurement event triggering as specified in TS 38.331 [9]. If the UE supports this feature, the UE needs to report maxNumberCLI-RSSI-RSR-rH6 and FR2 differently, each indication corresponds to the frequency range of measurement triggering based on SRS-RSRP as specified in TS 38.331 [9]. If the UE supports this feature, the UE needs to report maxNumberCLI-SRS-RSRP-r16 and maxNumberPGSIGCLI-SRS-RSRP-r16. If this parameter is indicated for FR1 and FR2 differently, each indication corresponds to the frequency range of measurement resources to be measured.UENoTDDYesConcurrentIMedasGap-r17Indicates whether the UE supports this feature, the UE needs to report maxNumberPCLI-SRS-RSRP-r16 and maxNumberPGSIGCLI-SRS-RSRP-r16. If this parameter is indicated for FR1 and FR2 differently, each indication corresponds to the frequency range of measurement resources to be measured.UENoNoNoConcurrentIMedasGap-r17Indicates whether the UE supports more than 1 per-UE measurement gap configurations (i.e. gap combination configurations in a FR, or ore than 1 per-UE measurement gap configurations in a FR, or ore stant 1 per-UE measurement gap configurations in a FR, or ore stant 1 per-UE measurement gap configurations in a FR, or ore stant 1 per-UE measurement gap configurations in a FR, or ore stant 1 per-UE measurement gap configurations in a FR, or ore stant 1 per-UE measurement gap configurations in a FR, or ore stant 1 per-UE measurement gap configurations in a FR, or ore stant 1 per-UE measurement gap configurations in a FR, or ore stant 1 per-UE measurement gap configurations in a FR, or ore stant 1 p	Definitions for parameters	Per	M	FDD-	FR1-	
Id-R5SI-Meas-r16       UE       No       TOD       Yes         Indicates whether the UE can perform CLI RSSI measurement as specified in TS       38.215 (13) and supports periodical reporting and measurement event triggering as specified in TS 38.331 (19). If the UE supports this feature, the UE neads to held requency range of measurement event triggering bases under the UE can perform SRS RSRP measurement 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 (5). The UE supports the format/NumberCL-PSSI-RSRP-r16 and measurement event triggering based on SRS-RSRP-r16. Indicated to CRTR short SRS-RSRP-r16 and measurement resources to be measured.       UE       No       No       No       No         Indicates whether the UE can perform CLI RSSI resource and the supports this feature, the UE needs to report max/NumberCL-PSS-RSRP-r16 indicated to TR1 and RR2 differently, each indication corresponds to the frequency range of measurement resources to be measured.       UE       No       No       No         Indicates whether the UE supports the concurrent measurements gaps as specified in TS 38.133 [5]. The capability signaling complications (i.e. gap combination configurations for UE capable of Re1-T5 per-FR gap (indegenderMCapCADR), this field indicates whether the UE supports are concurrent gap configurations in a FR, or simultaneous 1 per UE measurement gap bits 1 per-FR measurement gap configurations in a FR, or measurement gap configurations in a FR, or simultaneous 1 per UE measurement gap bits 1 per-FR measurement gap configurations in a FR and FR Are that indicates whether the UE supports conditi				TDD DIFF	FR2 DIFF	
Indicates whether the UE can perform CLI RSSI measurements as specified in TS 38.216 [13] and supports periodical reporting and measurement event fuggering as specified in TS 38.331 [9]. If the UE supports this feature, the UE needs to report maxNumberCLI-RSS-rKRP-Meas-r16UENoTDDYescli/SRS-RSRP-Meas-r16Intig and measurement as specified in TS 38.215 [13] and supports periodical reporting and measurement event fuggering based on SRS-RSRP as specified in TS 38.331 [9]. If the UE supports this feature, the UE needs to report maxNumberCLI-RSS-RSRP-r16 and 	cli-RSSI-Meas-r16	UE	No	TDD	Yes	
39.215 [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 maxNumberCL-RSS-Ir16. If this parameter is indicated for FR1 and FR2 differently, each indication corresponds to the frequency range of 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 maxNumberCL-SRS-RSRP-r16 and maxNumberPerSInCL-SRS-RSRP-r16. 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       No       No         RP2 differently, each indication corresponds to the frequency range of measurement resources to be measured.       UE       No       No       No       No         ConcurrentMesG2Gper17       Indicates whether the UE supports the concurrent measurements gaps as specified in TS 38.331 [3]. The capability signalling comprises the following parameters:       UE       No       No       No       No         Praameter is indicates whether the UE supports all concurrent measurement gap configurations (i.e. gap combination configurations gap to a specified in TS3 as 133 [5]. Including support of more than 1 per-VE measurement gap configurations in a FR, or more than 1 per-VE measurement gap configurations in a FR, or simultaneous 1 per UE measurement gap configurations in a FR, or more than 1 per-VE measurement gap configurations in a FR, or simultaneous 1 per UE measurement gap configurations in a FR, or more than 1 per-VE measurement gap configurations in a FR, or simultaneous 1 per UE measurement gap configurations in a FR, or more than 1 per-VE measurement gap configurations in a FR, or more than 1	Indicates whether the UE can perform CLI RSSI measurements as specified in TS			only		
as specified in TS 38.331 (9). If the UE supports this feature, the UE needs to report maXNumberCL1-RSX-field (this parameter is indicated for FR1 and FR2 differently, each indication corresponds to the frequency range of measurement revent resources to be measured. <i>cli-SRS-RSRP-Mass-r16</i> Indicates whether the UE can perform SRS RSRP measurements as specified in TS 38.3216 [13] and supports periodical reporting and measurement event frigering 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-FSRP-r16</i> and <i>maxNumberCRI-SRS-RSRP-r16</i> and <i>maxNumberCRI-SRSP-r16</i> and <i>r15</i> and <i>r16</i> and <i>r15</i> and <i>r15</i> and <i>r15</i> and <i>r15</i> and <i>r15</i> and <i>r1</i>	38.215 [13] and supports periodical reporting and measurement event triggering					
Iteport maxinumberCL-INSS-Ints in this parameter is indicated for FH1 and FH2       UE       No       TDD       Yes         Indicates whether the UE can perform SRS RSRP measurements as specified in TS38.215 [13] and supports periodical reporting and measurement event triggering based on SRS-RSRP as specified in TS38.331 [9]. If the UE supports the UE needs to report maxNumberCl-ISRSR-RSRP-r6 and maxNumberPerSIGCL-ISRS-RSRP-r16. 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       No       No       No         Concurrent/MeasDap+r17       Indicates whether the UE supports the concurrent measurements gaps as specified in TS38.133 [5], not capability signalling comprises the following parameters:       UE       No       No <td>as specified in TS 38.331 [9]. If the UE supports this feature, the UE needs to</td> <td></td> <td></td> <td></td> <td></td>	as specified in TS 38.331 [9]. If the UE supports this feature, the UE needs to					
United initiation corresponds to the frequency range of measurement resources to be measured.       UE       No       TDD       Yes <i>cli-SRS-RSP-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 ringering based on SRS-RSRP-r16 in ITS 38.319 []. If the UE supports this feature, the UE needs to report maxNumber/LI-SRS-RSRP-r16 and maxNumber/SPSIOCLI-SRS-RSRP-r16 in Its parameter is indicated for FR1 and FR2 differently, each indication corresponds to the frequency range of measurement resources to be measured.       UE       No       No       No <i>concurrentNesSGp-r17</i> Indicates whether the UE supports in for than 1 per-UE measurements gaps as specified in TS 38.133 [5]. The capability signalling comprises the following parameters:	report maxNumberCLI-RSSI-r16. If this parameter is indicated for FR1 and FR2					
Indicates Wether the UE can perform SRS RSRP measurements as specified in TS 38 2.15 (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 maxNumberCLI-SRS-RSRP-r16 and maxNumberCPSOCLI-SRS-RSRP-r16. If this parameter is indicated for FR1 and FR2 differentKasGap-r17       Ves       No       No       No         R2 differentKasGap-r17       Indicates whether the UE supports the concurrent measurements gaps as specified in TS 38.133 [6]. The capability signalling comprises the following parameters:       UE       No       No       No         - concurrentMetSGap-r17       Indicates whether the UE supports more than 1 per-IDE measurement gap configurations (i.e. gap combination configuration if a 2 as specified in TS38.133 [5].       UE       No       No       No         38.133 [5] including support of more than 1 per-IDE measurement gap configurations in an FR, or more than 1 per-IDE measurement gap configurations in an FR, or more than 1 per-IDE measurement gap configurations in an FR, or more than 1 per-IDE measurement gap configurations in an FR, or more than 1 per-IDE measurement gap configurations in an FR, or more than 1 per-IDE measurement gap configurations in an FR, or more than 1 per-IDE as specified in TS38.133 [5]. The UE indicating support of more/IDE measurement objectives associated with more than 1 concurrent measurement gaps as specified in TS38.133 [5]. The UE indicating support of this feature shall also indicate support of concurrentMeasGap-r17.       UE       No       No         condHandoverFDD-TDD-t61       Indicates whether the UE supports conditional handover HO between FR1 and T	differently, each indication corresponds to the frequency range of measurement					
Indicates whether the UE can perform SRS RSRP measurement sas specified in TS 33.215 [13] and supports periodical reporting and measurement event triggering based on SR-RSRP as specified in TS 38.31 [9]. If the Us supports this feature, the UE needs to report maxNumber/CUL-SRS-RSRP-r16 and maxNumber/Per/SIOCL-SRS-RSRP-r16. 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       No         Concurrent/MeasGap-r17       Indicates whether the UE supports the concurrent measurements gaps as specified in TS 38.133 [5]. The capability signaling comprises the following parameters:       UE       No       No       No         - concurrent/Per/UE-Only/MeasGap-r17 indicates whether the UE supports more than 1 per-UE measurement gap configurations as specified in TS 38.133 [5]. Including support of more than 1 per-UE measurement gap configurations i.a a RFA, or more than 1 per-UE measurement gap configurations i.a a RFA, or more than 1 per-UE measurement gap configurations i.a a gen combination configurations in an FR, or simultaneous 1 per UE measurement gap bus 1 per-FR measurement app configurations i.a a RFA, or more than 1 per-UE measurement gap configurations i.a an RFA, or more than 1 per-UE measurement gap configurations i.a an RFA, or more than 1 per-UE measurement gaps associated with more than 1 concurrent measurement gaps as specified in TS 38.133 [5]. The UE indicating support of this feature shall also indicate support of concurrent/MeasGap-r17.       UE       No       No       No         Indicates whether the UE supports conditional handover between FDD and TDD. The UE that indicates support of this feature shall also indicate support of concurrent/MeasGap-r17.       UE	cli-SRS-RSRP-Meas-r16	UF	No		Yes	
TS 38 215 [13] and supports periodical reporting and measurement event       Image: Construction of the Co	Indicates whether the UE can perform SRS RSRP measurements as specified in			only	103	
iriggering based on SRS-RSRP as specified in TS 38.331 [9]. If the UE supports this feature, the UE needs to report maxNumberCL-SRS-RSRP-r16 and maxNumberPerSlotCLI-SRS-RSRP-r16. If this parameter is indicated for FR1 and FR2 differently, each indication corresponds to the frequency range of measurement resources to be measured.UENoNoConcurrentMeasGap-r17 Indicates whether the UE supports the concurrent measurements gaps as specified in TS 38.133 [5]. The capability signalling comprises the following parameters: - concurrentPerUE-OnlyMeasGap-r17 indicates whether the UE supports more than 1 per-UE measurement gap configurations (i.e. gap combination configurations, ice UE capable of Rel-15 per-FR combination configurations is as specified in TS 38.133 [5]. Incut Capability signalling comprises the following support of more than 1 per-UE measurement gap configurations, ice UE capable of Rel-15 per-FR measurement gap configurations (i.e. gap combination configurations in a FR, or simultaneous 1 per UE measurement gap plus 1 per-FR measurement gap configurations (i.e. gap combination configuration in a FR, or simultaneous 1 per UE measurement gap as specified in TS38.133 [5].UENoNoConcurrentMeasGap-t17.Indicates whether the UE support the configurations of E-UTRAN measurement gap configurations (i.e. gap combination configurations in a FR, or simultaneous 3 per UE support of this feature shall also indicate support of concurrentMeasGap-r17.UENoNoNoIndicates whether the UE support the configurations of E-UTRAN measurement gap configurations (i.e. gap combination configuration in a FR, or stay 133 [5].UENoNoNoConcurrentMeasGap-r17.Indicates whether the UE support of this feature shall also indicate	TS 38.215 [13] and supports periodical reporting and measurement event			0,		
this feature, the UE needs to report maxNumberCLI-SRS-RSP-r16 and maxNumberPerSitotCL-SRS-RSRP-r16 and FR2 differently, each indication corresponds to the frequency range of measurement resources to be measured.       UE       No       No         ConcurrentMeasGap-r17 Indicates whether the UE supports the concurrent measurements gaps as specified in TS 38.133 [5]. The capability signalling comprises the following parameters:       UE       No       No       No         - concurrentPerUE-OnlyMeasGap-r17 Indicates whether the UE supports configuration id = 2 as specified in TS38.133 [5], or       UE       No       No       No         - concurrentPerUE-PerFRCombMeasGap-r17 indicates whether the UE supports all concurrent gap combination configurations. For UE capable of ReI-15 per-FR gap (independentGapCorfig), this field indicates whether the UE supports more than 1 per-UE measurement gap pound to refuse 1 per-FR measurement gap configurations (i.e. gap combination configurations in a FR, or simultaneous 1 per UE measurement gap pound 1 per-UE measurement gap configurations (i.e. gap combination configurations of E-UTRAN measurement objectives associated with more than 1 per-UE measurement gaps as support of concurrentMeasGap-r17.       UE       No       No       No         CondHandoverFD-TDD-r16 Indicates whether the UE supports conditional handover between FDD and TDD cells. The parameter can only be set if condHandover-r16 is set for both FDD and TDD. The UE that indicates support of this feature shall also indicate support of handoverFR1-FF2-r16 Indicates whether the UE supports conditional handover with NR SCG condHandoverFR1-FF2-r16       UE       No       No       No       No       No	triggering based on SRS-RSRP as specified in TS 38.331 [9]. If the UE supports					
maxNumberPerSlotCLI-SRS-RSRP-r16. 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       No         ConcurrentMeasGap-r17       UE       No       No       No       No         Indicates whether the UE supports the concurrent measurements gaps as specified in TS 38.133 [5]. The capability signalling comprises the following parameters: - concurrentMerUE-OnlyMeasGap-r17 indicates whether the UE supports more than 1 per-UE measurement gap configurations (i.e. gap combination configuration id = 2 as specified in TS38.133 [5]), or       UE       No       No         - concurrentMerUE-PerFRComMbasGap-r17 indicates whether the UE supports all concurrent gap configurations as specified in TS 38.133 [5] including support of more than 1 per-UE measurement gap configurations in an FR, or more than 1 per-UE measurement gap configurations (i.e. gap combination configurations in an FR, or simultaneous 1 per UE measurement gap plus 1 per-FR gap (independent/GapConfig), this field indicates whether the UE supports more than 1 per-FR gap measurement gap plus 1 per-FR gap configurations (i.e. gap combination configurations of E-UTRAN measurement objectives associated with more than 1 concurrent measurement gap as specified in TS 38.133 [5]. The UE indicating support of this feature shall also indicate support of concurrentMeasGap-r17.       UE       No       No       No         CondHandoverFDD-TDD-r16       Indicates whether the UE supports conditional handover between FDD and TDD neutrentwhether the UE supports conditional handover HO between FR1 and FR2. The parameter can only be set if condHandover-r16 is set for both FR1 and F	this feature, the UE needs to report maxNumberCLI-SRS-RSRP-r16 and					
FR2 differently, each indication corresponds to the frequency range of measurement resources to be measured.       UE       No       No         concurrentMeasGap-r17       Indicates whether the UE supports the concurrent measurements gaps as specified in TS 38.133 [5]. The capability signalling comprises the following parameters:       UE       No       No       No         - concurrentPerUE-OnlyMeasGap-r17 indicates whether the UE supports more than 1 per-UE measurement gap configurations [15], or       - concurrentPerUE-PerFRCombMeasGap-r17 indicates whether the UE supports all concurrent gap combination configurations in TS 38.133 [5] including support of more than 1 per-UE measurement gap configurations. For UE capable of Rei-15 per-FR gap (independentGapCorfig), this field indicates whether the UE supports more than 1 per-UE measurement gap to 2 specified in TS 38.133 [5]).       UE       No       No       No         ConcurrentMeasGapEUTRA-r17       Indicates whether the UE supports more than 1 per-UE measurement gap configurations in an FR, or more than 1 per-UE measurement gap configurations in a FR, or more than 1 per-UE measurement gap as specified in TS 38.133 [5]. The UE molicating support of concurrentMeasGap-r17.       UE       No       No       No         condumeter the UE supports conditional handover between FDD and TDD cells. The parameter can only be set if condHandover-r16 is set for both FDD and TDD. The UE that indicates support of this feature shall also indicate support of handover/r16 is set for both FDD and TDD. The UE that indicates support of this feature shall also indicate support of handover/r16 is set for both FDD and TDD. The UE that indicates support of this feature shall also indicate su	maxNumberPerSlotCLI-SRS-RSRP-r16. If this parameter is indicated for FR1 and					
Interstutient MessOurces to be measured.       UE       No       No         ConcurrentMessOurces to be measured.       UE       No       No         Indicates whether the UE supports the concurrent measurements gaps as specified in TS 38.133 [5]. The capability signalling comprises the following parameters:       UE       No       No         - concurrentPerUE-OnlyMeasGap-r17 indicates whether the UE supports more than 1 per-UE measurement gap configurations (i.e. gap combination configurations in 2 as specified in TS 38.133 [5], including support of more than 1 per-UE measurement gap configurations. For UE capable of Rel-15 per-FR gap (independentGapConfigurations in a FR, or more than 1 per-UE measurement gap configurations in an FR, or measurement gap configurations (i.e. gap combination configuration id = 2 as specified in TS 38.133 [5].       UE       No       No         ConcurrentMeesCapEUTRA-r17       Indicates whether the UE supports more than 1 per-LFR gap measurement gap configurations in an FR, or measurement gaps as specified in TS 38.133 [5].       UE       No       No       No         ConcurrentMeesCapEUTRA-r17       Indicates whether the UE support the configurations of E-UTRAN measurement gaps configurations (i.e. gap combination configuration id = 2 as specified in TS 38.133 [5]. The UE indicating support of this feature shall also indicate support of concurrentMeasGap-r17.       UE       No       No       No         ConclamatoverFDD-D16       Indicates whether the UE supports conditional handover HO between FR1 and FR2. The parameter can only be set if condHandover-r16 is set for both FR1 and FR2. The paramet	FR2 differently, each indication corresponds to the frequency range of					
Concurrent/MeasGapUENoNoNoIndicates whether the UE supports the concurrent measurements gaps as specified in TS 38.133 [5]. The capability signalling comprises the following parameters: - concurrent/PerUE-OnlyMeasGap-r17 indicates whether the UE supports more than 1 per-UE measurement gap configurations (i.e. gap combination configuration ia 2 as specified in TS38.133 [5]. or - concurrentPerUE-PerFRCombiNdeasGap-r17 indicates whether the UE supports all concurrent gap combination configurations. For UE capable of Rel-15 per-FR gap (independentGapConfig), this field indicates whether the UE supports more than 1 per-UE measurement gap configurations in an FR, or simultaneous 1 per UE measurement gap configurations in an FR, or more than 1 per-UE measurement gap configurations (i.e. gap combination configurations in an FR, or simultaneous 1 per UE measurement gap configurations (i.e. gap combination configurations in an FR, or simultaneous 1 per UE measurement gap configurations (i.e. gap combination configurations of E-UTRAN measurement gap configurations (i.e. gap combination configurations of E-UTRAN measurement objectives associated with more than 1 concurrent measurement gaps as specified in TS 38.133 [5]. The UE indicating support of this feature shall also indicate support of concurrentMeasGap-r17.UENoNoCondHandoverFDD-TDD-r16 Indicates whether the UE supports conditional handover r16 is set for both FDD and TDD. The UE that indicates support of this feature shall also indicate support of handowerFDD-TDD-T0UENoNoNoCondHandoverfH-FF2-rF6 CondHandover-r16 is set for both FD1 and FR2. The parameter can only be set if condHandover-r16 is set for both FP1 and FR2. The UE that indicates support of this feature shall also indicates whether the UE can	measurement resources to be measured.		No	No	No	
Industor in the OE optimist in the optimist in the optimist is specified in TS 38.133 [5]. The capability signalling comprises the following         parameters:       - concurrentPerUE-Only/MeasGap-r17 indicates whether the UE supports more than 1 per-UE measurement gap configurations (i.e. gap combination configuration 2 as specified in TS38.133 [5]).       - concurrentPerUE-PerFRCombMeasGap-r17 indicates whether the UE supports all concurrent gap combination configurations as specified in TS         38.133 [5] including support of more than 1 per-UE measurement gap configurations. For UE capable of ReI-15 per-FR gap (independen(GaCooff)), this field indicates whether the UE supports more than 1 per-UE measurement gap pills 1 per-FR measurement gap configurations in an FR, or more than 1 per-UE measurement gap configurations in an FR, or more than 1 per-UE measurement gap a configurations (i.e. gap combination configurations of E-UTRAN measurement gap configurations (i.e. gap combination configuration id = 2 as specified in TS38.133 [5]. The UE indicating support of this feature shall also indicate support of concurrentMeasGap-r17.       UE       No       No       No         condHandoverFDD-TDD-T16       UE       No       No       No       No       No         Indicates whether the UE supports conditional handover between FDD and TDD cells. The parameter can only be set if condHandover-r16 is set for both FDD and TDD. The UE that indicates support of this feature shall also indicate support of handoverFDD-TDD-T0.       UE       No       No       No         CondHandoverFR1-FR2-r16       UE that indicates support of this feature shall also indicate support of condHandover-r16 is set for both FR1 and FR2.	Indicates whether the LIE supports the concurrent measurements gaps as	UE	INO	INO	INO	
<ul> <li>arameters:</li> <li>concurrent/Per/UE-Only/MeasGap-r17 indicates whether the UE supports more than 1 per-UE measurement gap configurations (i.e. gap combination configuration id = 2 as specified in TS38.133 [5]), or</li> <li>concurrent/Per/UE-Per/FRCOmb/MeasGap-r17 indicates whether the UE supports all concurrent gap combination configurations as specified in TS 38.133 [5] including support of more than 1 per-UE measurement gap configurations. For UE capable of Rel-15 per-FR gap (independent/GapConfig), this field indicates whether the UE supports more than 1 per-FR gap measurement gap plus 1 per-FR measurement gap configurations in an FR, or more than 1 per-UE measurement gap configurations in an FR, or more than 1 per-UE measurement gap configurations (i.e. gap combination configuration id = 2 as specified in TS38.133 [5]).</li> <li>Concurrent/MeasGapEUTRA-r17 Indicates whether the UE support the configurations of E-UTRAN measurement objectives associated with more than 1 concurrent measurement gaps as specified in TS 38.133 [5]. The UE indicating support of this feature shall also indicate support of concurrent/MeasGap-r17.</li> <li>CondHandoverFDD-TDD-r16 Indicates whether the UE supports conditional handover between FDD and TDD cells. The parameter can only be set if condHandover-r16 is set for both FDD and TDD. The UE that indicates support of this feature shall also indicate support of handoverFD-TDD-T0</li> <li>CondHandoverFD-TD-T0</li> <li>CondHandoverFD-TD-T0</li> <li>CondHandoverFD-TD-T0</li> <li>CondHandoverFD-TD-T0</li> <li>CondHandoverF1-F1-FR2-r16 Indicates whether the UE supports conditional handover r16 is set for both FR1 and FR2. The parameter can only be set if condHandover-r16 is set for both FR1 and FR2. The UE that indicates support of this feature shall also indicate the support of condHandover-r16 and support of at least one NR-DC band configuration for NR-DC. The UE indicating support of this feature shall also indicates whether the UE c</li></ul>	specified in TS 38 133 [5]. The capability signalling comprises the following					
<ul> <li>concurrent/PerUE-Only/MeasGap-r17 indicates whether the UE supports more than 1 per-UE measurement gap configurations (i.e. gap combination configuration id = 2 as specified in TS38.135 [5]), or</li> <li>concurrent/PerUE-PerFRComb/MeasGap-r17 indicates whether the UE supports all concurrent gap combination configurations as specified in TS 38.133 [5] including support of more than 1 per-UE measurement gap configurations. For UE capable of ReI-15 per-FR gap (independentGapConfig), this field indicates whether the UE supports more than 1 per-FR gap measurement gap poins 1 per-FR measurement gap configurations (i.e. gap combination configurations in an FR, or simultaneous 1 per UE measurement gap plus 1 per-FR measurement gap configurations (i.e. gap combination configurations of E-UTRAN measurement oplicatives associated with more than 1 concurrent measurement gaps associated with more than 1 concurrent measurement gaps as specified in TS 38.133 [5]. The UE indicating support of this feature shall also indicate support of concurrent/MeasGap-r17.</li> <li>CondHandoverFDD-TDD-r16 Indicates whether the UE supports conditional handover between FDD and TDD cells. The parameter can only be set if condHandover-r16 is set for both FDD and TDD. The UE that indicates support of this feature shall also indicate support of <i>handoverFDD-TDD.</i></li> <li>CondHandoverFR1-FR2-r16 Indicates whether the UE supports conditional handover HO between FR1 and FR2. The parameter can only be set if condHandover-r16 is set for both FR1 and FR2. The parameter can only be set if condHandover-r16 is set for both FR1 and FR2. The parameter can only be set if condHandover-r16 is set for both FR1 and FR2. The parameter can only be set if condHandover-r16 is set for both FR1 and FR2. The parameter can only be set if condHandover-r16 is set for both FR1 and FR2. The parameter can only be set if condHandover-r16 is set for both FR1 and FR2. The parameter can only be set if condHandover-r16 is set for both FR1 and FR2. The pa</li></ul>	parameters:					
more than 1 per-UE measurement gap configurations (i.e. gap combination configuration id = 2 as specified in TS38.133 [5]), or- concurrent/PerUE-PerFRComb/MeasGap-r17 indicates whether the UE supports all concurrent gap combination configurations as specified in TS 38.133 [5] including support of more than 1 per-UE measurement gap configurations. For UE capable of Rel-15 per-FR gap (independentGapConfig), this field indicates whether the UE supports more than 1 per-R gap measurement gap configurations in an FR, or simultaneous 1 per UE measurement gap configurations in an FR, or simultaneous 1 per UE measurement gap configurations (i.e. gap combination configuration id = 2 as specified in TS38.133 [5]).UENoNoConcurrent/MeasGapEUTRA-r17 Indicates whether the UE support of this feature shall also indicate support of concurrent/MeasGap-r17.UENoNoIndicates whether the UE supports conditional handover between FDD and TDD cells. The parameter can only be set if condHandover-r16 is set for both FDD and TDD. The UE that indicates support of this feature shall also indicate support of handoverFDD-TDD.UENoNoIndicates whether the UE supports conditional handover HO between FR1 and FR2. The UE that indicates support of this feature shall also indicate support of handover/FR1-FR2-r16UENoNoIndicates whether the UE supports conditional handover with NR SCG configuration for NR-DC. The UE indicating support of at least one NR-DC band configuration for NR-DC. The UE indicating support of at least one NR-DC band configuration for NR-DC. The UE indicating support of at least one NR-DC band configuration for NR-DC. The UE indicating support of at least one NR-DC band configuration for NR-DC. The UE indicating support of at least one NR-DC	- concurrentPerUE-OnlyMeasGap-r17 indicates whether the UE supports					
configuration id = 2 as specified in TS38.133 [5], orconcurrentPerUE-PerFRCombMeasGap-r17 indicates whether the UE supports all concurrent gap combination configurations as specified in TS 38.133 [5] including support of more than 1 per-UE measurement gap (independentGapConfig), this field indicates whether the UE supports more than 1 per-FR gap measurement gap configurations in an FR, or simultaneous 1 per UE measurement gap plus 1 per-FR measurement gap configurations (i.e. gap combination configuration id = 2 as specified in TS38.133 [5].UENoNoconcurrentMeasGapEUTRA-r17 Indicates whether the UE supports associated with more than 1 concurrent measurement gaps as specified in TS38.133 [5]. The UE indicating support of this feature shall also indicate support of concurrentMeasGap-r17.UENoNoNocondHandoverFDD-TDD-r16 Indicates whether the UE supports conditional handover between FDD and TDD nearameter can only be set if condHandover-r16 is set for both FDD and TDD. The UE that indicates support of this feature shall also indicate support of handoverFDD-TDD.UENoNoNocondHandoverFR1-FR2-r16 Indicates whether the UE supports conditional handover with NR SCG configuration for NR-DC. The UE indicating support of at least one NR-DC band confHandover/R1-FR2.UENoNoNocondHandover/R1-FR2-r16 Indicates whether the UE can perform radio link monitoring procedure based on measurement of CSI-RS as specified in TS 38.133 [5]. This parameter can only be set if condHandover-r16 is set for both FR1 and FR2. The UE that indicates support of this feature shall also indicate support of handover/R1-FR2.NoNoNocondHandover/R1-FR2-r16 Indicates whether the UE can perfo	more than 1 per-UE measurement gap configurations (i.e. gap combination					
<ul> <li>concurrent/PerUE-PerFRCombMeasGap-r17 indicates whether the UE supports all concurrent gap combination configurations as specified in TS 38.133 [5] including support of more than 1 per-UE measurement gap configurations. For UE capable of Rel-15 per-FR gap (independentGapConfig), this field indicates whether the UE supports more than 1 per-UE measurement gap configurations in an FR, or more than 1 per-UE measurement gap configurations in an FR, or more than 1 per-UE measurement gap configurations in an FR, or more than 1 per-UE measurement gap configurations (i.e. gap combination configuration id = 2 as specified in TS 38.133 [5].</li> <li>concurrentMeasGapEUTRA-r17 Indicates whether the UE support the configurations of E-UTRAN measurement gap configurations with more than 1 concurrent measurement gaps as specified in TS 38.133 [5]. The UE indicating support of this feature shall also indicate support of concurrentMeasGap-r17.</li> <li>condHandoverFDD-TDD-r16 Indicating support of this feature shall also indicate support of concurrentMeasGap-r17.</li> <li>condHandoverFDD-TDD.</li> <li>Indicates whether the UE supports conditional handover between FDD and TDD cells. The parameter can only be set if condHandover-r16 is set for both FDD and TDD.</li> <li>Indicates whether the UE supports conditional handover HO between FR1 and FR2. The parameter can only be set if condHandover-r16 is set for both FDD and TDD.</li> <li>Indicates whether the UE supports conditional handover HO between FR1 and FR2. The parameter can only be set if condHandover-r16 is set for both FR1 and FR2. The parameter gan only be set if condHandover-r16 is set for both FR1 and FR2. The DE that indicates support of this feature shall also indicate support of handover/WithSCG-NRDC-r17</li> <li>Indicates whether the UE supports conditional handover with NR SCG configuration for NR-DC. The UE indicating support of this feature shall also indicate support of condHandover-r16 and support of at least one NR-DC ba</li></ul>	configuration id = 2 as specified in TS38.133 [5]), or					
38.133 [5] including support of more than 1 per-UE measurement gap configurations. For UE capable of Rel-15 per-FR gap (independentGapConfig), this field indicates whether the UE supports more than 1 per-FR gap measurement gap configurations in an FR, or simultaneous 1 per UE measurement gap configurations (i.e. gap combination configurations in a FR, or simultaneous 1 per UE measurement gap pus 1 per-FR measurement gap configurations (i.e. gap combination configurations in a FR, or simultaneous 1 per UE measurement gap configurations (i.e. gap combination configurations of E-UTRAN measurement gap configurations (i.e. gap combination configurations of E-UTRAN measurement dpicetives associated with more than 1 concurrent measurement gaps as specified in TS 38.133 [5]. The UE indicating support of this feature shall also indicate support of concurrentMeasGap-17.UE NoNoNocondHandoverFDD-TDD-r16 Indicates whether the UE supports conditional handover r16 is set for both FDD and TDD.UE NoNoNocondHandoverFR1-FR2-r16 Indicates support of this feature shall also indicate support of handoverFR1-FR2.UE NoNoNocondHandoverFR1-FR2.T6 IUE Indicates whether the UE supports conditional handover HO between FR1 and FR2. The parameter can only be set if condHandover-r16 is set for both FR1 and FR2. The parameter and only be set if condHandover-r16 is set for both FR1 and FR2. The parameter and only be set if condHandover-r16 is set for both FR1 and FR2. The	- concurrentPerUE-PerFRCombMeasGap-r17 indicates whether the UE					
Solar ISS (5) including support of the IS per-FR gap (independentGapConfig), this field indicates whether the UE supports more than 1 per-FR gap measurement gap configurations in an FR, or simultaneous 1 per UE measurement gap los 1 per-FR measurement gap configurations in an FR, or more than 1 per-UE measurement gap configurations (i.e. gap combination configuration id = 2 as specified in TS38.133 [5].UENoNoConcurrentMeasGapEUTRA-r17 Indicates whether the UE support the configurations of E-UTRAN measurement objectives associated with more than 1 concurrent measurement gaps as specified in TS 38.133 [5].UENoNoNoConclarentMeasGapEUTRA-r17 Indicates whether the UE support of concurrent measurement gaps as specified in TS 38.133 [5]. The UE indicating support of this feature shall also indicate support of concurrentMeasGap-r17.UENoNoNoCondHandoverFDD-T0D- handoverFDD-TDD.UENoNoNoNoNoIndicates whether the UE supports conditional handover between FDD and TDD. The UE that indicates support of this feature shall also indicate support of handoverFD1-TDD.UENoNoNoCondHandoverR1+FR2-r16 Indicates whether the UE supports conditional handover with NR SCG configuration for NR-DC. The UE indicating support of this feature shall also indicate support of condHandover-r16 and support of this feature shall also indicate support of condHandover-r16 and support of at least one NR-DC band combination.UENoNoNoCondHandoverWithSCG-NRDC-r17 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 <td>supports all concurrent gap combination configurations as specified in 15</td> <td></td> <td></td> <td></td> <td></td>	supports all concurrent gap combination configurations as specified in 15					
Conditional notice to provide the term of the UE supports more than 1 per-FR gap measurement gap configurations in an FR, or simultaneous 1 per UE measurement gap plus 1 per-FR measurement gap configurations in an FR, or more than 1 per-UE measurement gap configurations in an FR, or more than 1 per-UE measurement gap configurations in an FR, or more than 1 per-UE measurement gap configurations in an FR, or more than 1 per-UE measurement gap configurations is (i.e. gap combination configuration id = 2 as specified in TS38.133 [5]).UENoNoOncurrentMeasGapEUTRA-r17 Indicates whether the UE support the configurations of E-UTRAN measurement objectives associated with more than 1 concurrent measurement gaps as specified in TS 38.133 [5]. The UE indicating support of this feature shall also indicate support of concurrentMeasGap-r17.UENoNoNoCondHandoverFDD-TDD-r16 Indicates whether the UE supports conditional handover between FDD and TDD cells. The parameter can only be set if condHandover-r16 is set for both FDD and TDD. The UE that indicates support of this feature shall also indicate support of handoverFR1-FR2-r16UENoNoNoCondHandoverFR1-FR2-r16 Londeates whether the UE supports conditional handover with NR SCG configuration for NR-DC. The UE indicating support of this feature shall also indicate support of condHandover-r16 is set for both FR1 and FR2. The barameter can only be set if condHandover with NR SCG configuration for NR-DC. The UE indicating support of this feature shall also indicate the support of condHandover-r16 and support of at least one NR-DC band combination.UENoNoNoINGVENoNoNo <td co<="" td=""><td>configurations. For LIE canable of Rel-15 per-ER gap</td><td></td><td></td><td></td><td></td></td>	<td>configurations. For LIE canable of Rel-15 per-ER gap</td> <td></td> <td></td> <td></td> <td></td>	configurations. For LIE canable of Rel-15 per-ER gap				
than 1 per-FR gap measurement gap configurations in an FR, or simultaneous 1 per UE measurement gap plus 1 per-FR measurement gap configurations (i.e. gap combination configuration id = 2 as specified in TS38.133 [5]).Image: Concurrent MeasGapEUTRA-r17UENoNoIndicates whether the UE support the configurations of E-UTRAN measurement objectives associated with more than 1 concurrent measurement gaps as specified in TS 38.133 [5]). The UE indicating support of this feature shall also indicate support of concurrentMeasGap-UTD-TDD-r16UENoNoINONoIndicates whether the UE supports conditional handover between FDD and TDD cells. The parameter can only be set if condHandover-r16 is set for both FDD and TDD. The UE that indicates support of this feature shall also indicate support of handoverFDD-TDD.UENoNoCondHandoverFR1-FR2-r16UENoNoNoIndicates whether the UE supports conditional handover HO between FR1 and FR2. The parameter can only be set if condHandover-r16 is set for both FR1 and FR2. The parameter can only be set if condHandover-r16 is set for both FR1 and FR2. The UE that indicates support of this feature shall also indicate support of handoverFR1-FR2.UENoNoNoCondHandoverWithSCG-NRDC-r17UENoNoNoIndicate support of condHandover-r16 and support of at least one NR-DC band configuration for NR-DC. The UE indicating support of at least one NR-DC band configuration for NR-DC. The UE indicating support of at least one NR-DC band configuration for NR-DC. The UE indicating support of at least one NR-DC band combination.<	(independent GapConfig), this field indicates whether the UE supports more					
simultaneous 1 per UE measurement gap plus 1 per-FR measurement gap configurations in an FR, or more than 1 per-UE measurement gap configurations (i.e. gap combination configuration id = 2 as specified in TS38.133 [5]).Image: Configuration (i.e. gap combination configuration id = 2 as specified in TS38.133 [5]).UENoNoOncourrentMeasGapEUTRA-r17 Indicates whether the UE support the configurations of E-UTRAN measurement objectives associated with more than 1 concurrent measurement gaps as specified in TS 38.133 [5]. The UE indicating support of this feature shall also indicate support of concurrentMeasGap-r17.UENoNoNoCondHandoverFDD-TDD-r16Indicates whether the UE supports conditional handover between FDD and TDD. The UE that indicates support of this feature shall also indicate support of handoverFR1-FR2-r16UENoNoNoCondHandoverFR1-FR2-r16Indicates whether the UE supports conditional handover HO between FR1 and FR2. The UE that indicates support of this feature shall also indicate support of handoverFR1-FR2.CondHandover/WithSCG-NRDC-r17Indicates whether the UE supports conditional handover with NR SCG configuration for NR-DC. The UE indicating support of at least one NR-DC band combination.Cisi-RS-RLMUENoNoNoIndicates whether the UE can perform radio link monitoring procedure based on measurement of CSI-RS as specified in TS 38.133 [11] and TS 38.133 [5]. This parameter needs RT1 and FR2 differentiation. If the UE supports this feature, the UE needs to report maxNumberResource-CSI-RS-RLM.UEYesNoYes <td>than 1 per-FR gap measurement gap configurations in an FR, or</td> <td></td> <td></td> <td></td> <td></td>	than 1 per-FR gap measurement gap configurations in an FR, or					
configurations in an FR, or more than 1 per-UE measurement gap configurations (i.e. gap combination configuration id = 2 as specified in TS38.133 [5]).Image: Configuration id = 2 as specified in TS38.133 [5]).concurrentMeasGapEUTRA-r17 Indicates whether the UE support the configurations of E-UTRAN measurement objectives associated with more than 1 concurrent measurement gaps as specified in TS 38.133 [5]. The UE indicating support of this feature shall also indicate support of concurrentMeasGap-r17.UENoNoNocondHandoverFDD-TDD-r16 Indicates whether the UE supports conditional handover between FDD and TDD cells. The parameter can only be set if condHandover-r16 is set for both FDD and TDD. The UE that indicates support of this feature shall also indicate support of handoverFDD-TDD.UENoNoNoIndicates whether the UE supports conditional handover HO between FR1 and FR2. The parameter can only be set if condHandover-r16 is set for both FR1 and FR2. The UE that indicates support of this feature shall also indicate support of handoverFR1-FR2.UENoNoNoIndicates whether the UE supports conditional handover with NR SCG configuration for NR-DC. The UE indicating support of this feature shall also indicate the support of condHandover-r16 and support of at least one NR-DC band configuration for NR-DC. The UE indicating support of at least one NR-DC band configuration for S38.213 [11] and TS 38.133 [5]. This parameter needs FR1 and FR2 offerentiation. If the UE supports his feature, the UE needs to report maxNumberResource-CSI-RS-RLM. This applies only to non- shared spectrum channel access. For shared spectrum channel access, csi-RS- ULM if de applicaUEYes	simultaneous 1 per UE measurement gap plus 1 per-FR measurement gap					
configurations (i.e. gap combination configuration id = 2 as specified in TS38.133 [5]).UENoNoIndicates whether the UE support the configurations of E-UTRAN measurement objectives associated with more than 1 concurrent measurement gaps as specified in TS 38.133 [5]. The UE indicating support of this feature shall also indicate support of concurrent/MeasGap-r17.UENoNoNoCondHandoverFDD-TDD-r16 cells. The parameter can only be set if condHandover-r16 is set for both FDD and TDD. The UE that indicates support of this feature shall also indicate support of handoverFDD-TDD.UENoNoNoCondHandoverFR1-FR2-r16 lndicates support of this feature shall also indicate support of handoverFDD-TDD.UENoNoNoCondHandoverFR1-FR2-r16 lndicates support of this feature shall also indicate support of handoverFR1-FR2.UENoNoNoIndicates whether the UE supports conditional handover HO between FR1 and FR2. The UE that indicates support of this feature shall also indicate support of handoverFR1-FR2.UENoNoNoIndicates whether the UE supports conditional handover with NR SCG configuration for NR-DC. The UE indicating support of at least one NR-DC band indicates whether the UE can perform radio link monitoring procedure based on measurement of CSI-RS as specified in TS 38.133 [5]. This parameter needs FR1 and FR2 differentiation.UEYesNoYesIndicates whether the UE can perform radio link monitoring procedure based on measurement of CSI-RS as specified in TS 38.131 [11] and TS 38.133 [5]. This parameter needs FR1 and FR2 differentiation.UE supports this feature, the UE needs to report m	configurations in an FR, or more than 1 per-UE measurement gap					
IS38.133 [5]).concurrentMeasGapEUTRA-r17Indicates whether the UE support the configurations of E-UTRAN measurement objectives associated with more than 1 concurrent measurement gaps as specified in TS 38.133 [5]. The UE indicating support of this feature shall also indicate support of concurrentMeasGap-r17.UENoNoNocondHandoverFDD-TDD-r16 cells. The parameter can only be set if condHandover-r16 is set for both FDD and TDD. The UE that indicates support of this feature shall also indicate support of handoverFDD-TDD.UENoNoNocondHandoverFR1-FR2-r16 Indicates whether the UE supports conditional handover HO between FR1 and FR2. The parameter can only be set if condHandover-r16 is set for both FR1 and FR2. The parameter can only be set if condHandover-r16 is set for both FR1 and FR2. The UE that indicates support of this feature shall also indicate support of handoverFR1-FR2.UENoNoNocondHandoverWithSCG-NRDC-r17 Indicates whether the UE supports conditional handover with NR SCG configuration for NR-DC. The UE indicating support of this feature shall also indicate swhether 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 maxNumberResource-CSI-RS-RLM. This applies only to non- shared spectrum channel access. For shared spectrum channel access, csi-RS-UEVesNoYes	configurations (i.e. gap combination configuration id = $2$ as specified in					
Concurrentimes/SupportURA-FITUENoNoNoIndicates whether the UE support the configurations of E-UTRAN measurement objectives associated with more than 1 concurrent measurement gaps as specified in TS 38.133 [5]. The UE indicating support of this feature shall also indicate support of concurrentiMeasGap-r17.UENoNoNoCondHandoverFDD-TDD-r16 Indicates whether the UE supports conditional handover between FDD and TDD cells. The parameter can only be set if condHandover-r16 is set for both FDD and TDD. The UE that indicates support of this feature shall also indicate support of handoverFDD-TDD.UENoNoCondHandoverFR1-FR2-r16 Indicates whether the UE supports conditional handover HO between FR1 and FR2. The parameter can only be set if condHandover-r16 is set for both FR1 and FR2. The parameter can only be set if condHandover-r16 is set for both FR1 and FR2. The UE that indicates support of this feature shall also indicate support of handoverFR1-FR2.UENoNoCondHandoverWithSCG-NRDC-r17 Indicates whether the UE supports conditional handover with NR SCG configuration for NR-DC. The UE indicating support of at least one NR-DC band combination.UENoNoCsi-RS-RLM UE needs to report maxNumberResource-CSI-RS-RLM. This applies only to non- shared spectrum channel access. For shared spectrum channel access, csi-RS-UEYesNoVestVestVestVestVestVest	1538.133 [5]).		Nia	Na	Nia	
Indicates whether the UE support line confugrations of LCO fixed measurement gaps as specified in TS 38.133 [5]. The UE indicating support of this feature shall also indicate support of concurrentMeasGap-r17.       UE       No       No         CondHandoverFDD-TDD-r16       UE       No       No       No         Indicates whether the UE supports conditional handover between FDD and TDD cells. The parameter can only be set if condHandover.r16 is set for both FDD and TDD.       UE       No       No         CondHandoverFDD-TDD.       UE that indicates support of this feature shall also indicate support of handoverFDD-TDD.       UE       No       No         CondHandoverFR1-FR2-r16       UE       No       No       No         Indicates whether the UE supports conditional handover HO between FR1 and FR2. The parameter can only be set if condHandover.r16 is set for both FR1 and FR2. The UE that indicates support of this feature shall also indicate support of handoverFR1-FR2.       UE       No       No       No         Indicates whether the UE supports conditional handover with NR SCG configuration for NR-DC. The UE indicating support of this feature shall also indicate support of condHandover.r16 and support of at least one NR-DC band combination.       UE       No       No       No         CoindLandover.r16 and support of at least one NR-DC band combination.       UE       Yes       No       Yes         Indicates whether the UE can perform radio link monitoring procedure based on measurement of CSI-RS as specified in TS	CONCURRENTIME AS GAPE UTRA-177	UE	INO	INO	INO	
In TS 38.133 [5]. The UE indicating support of this feature shall also indicateUENoNoCondHandoverFDD-TDD-r16 Indicates whether the UE supports conditional handover between FDD and TDD cells. The parameter can only be set if condHandover-r16 is set for both FDD and TDD. The UE that indicates support of this feature shall also indicate support of handoverFDD-TDD.UENoNoCondHandoverFR1-FR2-r16 Indicates whether the UE supports conditional handover HO between FR1 and FR2. The parameter can only be set if condHandover-r16 is set for both FR1 and FR2. The UE that indicates support of this feature shall also indicate support of handoverFR1-FR2.UENoNoCondHandoverFR1-FR2.UENoNoNoIndicates whether the UE supports conditional handover with NR SCG configuration for NR-DC. The UE indicating support of this feature shall also indicate the support of condHandover-r16 and support of at least one NR-DC band combination.UENoNoCsi-RS-RLM UE 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 maxNumberResource-CSI-RS-RLM. This applies only to non- shared spectrum channel access. For shared spectrum channel access, csi-RS- UE MI the application of the application channel access.UEYes	objectives associated with more than 1 concurrent measurement dans as specified					
support of concurrentMeasGap-r17.UENoNocondHandoverFDD-TDD-r16 Indicates whether the UE supports conditional handover between FDD and TDD cells. The parameter can only be set if condHandover-r16 is set for both FDD and TDD. The UE that indicates support of this feature shall also indicate support of handoverFDD-TDD.UENoNocondHandoverFR1-FR2-r16 Indicates whether the UE supports conditional handover HO between FR1 and FR2. The parameter can only be set if condHandover-r16 is set for both FR1 and FR2. The parameter can only be set if condHandover-r16 is set for both FR1 and FR2. The UE that indicates support of this feature shall also indicate support of handoverFR1-FR2.UENoNocondHandoverFR1-FR2.UE that indicates support of this feature shall also indicate support of handoverFR1-FR2.UENoNocondHandoverFR1-FR2.UENoNoNocondHandoverFR1-FR2.UENoNoNocondHandoverFR1-FR2.UENoNoNocondHandoverFR1-FR2.UENoNoNocondHandoverFR1-FR2.UENoNoNocondHandoverFR1-FR2.UENoNoNocondHandover-r16and support of at least one NR-DC band combination.UENoNocs:FRS-RLMUECol-FRS 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 maxNumberResource-CSI-RS-RLM. This applies only to non- shared spectrum channel access. For shared spectrum channel access, csi-RS-UEVesUM	in TS 38.133 [5]. The UE indicating support of this feature shall also indicate					
condHandoverFDD-TDD-r16UENoNoIndicates whether the UE supports conditional handover between FDD and TDD cells. The parameter can only be set if condHandover-r16 is set for both FDD and TDD. The UE that indicates support of this feature shall also indicate support of handoverFDD-TDD.UENoNocondHandoverFR1-FR2-r16UENoNoNoIndicates whether the UE supports conditional handover HO between FR1 and FR2. The parameter can only be set if condHandover-r16 is set for both FR1 and FR2. The UE that indicates support of this feature shall also indicate support of handoverFR1-FR2.UENoNoCondHandoverFR1-FR2.UE that indicates support of this feature shall also indicate support of handoverFR1-FR2.UENoNoIndicates whether the UE supports conditional handover with NR SCG configuration for NR-DC. The UE indicating support of this feature shall also indicate the support of condHandover-r16 and support of at least one NR-DC band combination.UENoNocsi-RS-RLM UI 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 maxNumberResource-CSI-RS-RLM. This applies only to non- shared spectrum channel access. For shared spectrum channel access. csi-RS-UEVes	support of concurrentMeasGap-r17.					
Indicates whether the UE supports conditional handover between FDD and TDD cells. The parameter can only be set if condHandover-r16 is set for both FDD and TDD. The UE that indicates support of this feature shall also indicate support of handoverFDD-TDD.UE NoNoNocondHandoverFR1-FR2-r16 Indicates whether the UE supports conditional handover HO between FR1 and FR2. The parameter can only be set if condHandover-r16 is set for both FR1 and FR2. The UE that indicates support of this feature shall also indicate support of handoverFR1-FR2.UE NoNoNocondHandoverWithSCG-NRDC-r17 Indicates whether the UE supports conditional handover with NR SCG configuration for NR-DC. The UE indicating support of this feature shall also indicate the support of condHandover-r16 and support of at least one NR-DC band combination.UENoNoNocsi-RS-RLM UE 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 maxNumberResource-CSI-RS-RLM. This applies only to non- shared spectrum channel access. For shared spectrum channel access, csi-RS-UEYesNoYes	condHandoverFDD-TDD-r16	UE	No	No	No	
cells. The parameter can only be set if condHandover-r16 is set for both FDD and TDD. The UE that indicates support of this feature shall also indicate support of handoverFDD-TDD.UENoNocondHandoverFD-TDD.UENoNoNoNoIndicates whether the UE supports conditional handover HO between FR1 and FR2. The parameter can only be set if condHandover-r16 is set for both FR1 and FR2. The UE that indicates support of this feature shall also indicate support of handoverFR1-FR2.UENoNoNoCondHandoverWithSCG-NRDC-r17 Indicates whether the UE supports conditional handover with NR SCG configuration for NR-DC. The UE indicating support of this feature shall also indicate the support of condHandover-r16 and support of at least one NR-DC band combination.UENoNoNocsi-RS-RLM U 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 maxNumberResource-CSI-RS-RLM. This applies only to non- shared spectrum channel access. For shared spectrum channel access, csi-RS-UEYesNoYes	Indicates whether the UE supports conditional handover between FDD and TDD					
IDD. The UE that indicates support of this feature shall also indicate support of handoverFDD-TDD.UENoNo <b>condHandoverFR1-FR2-r16</b> Indicates whether the UE supports conditional handover HO between FR1 and FR2. The parameter can only be set if condHandover-r16 is set for both FR1 and FR2. The UE that indicates support of this feature shall also indicate support of handoverFR1-FR2.UENoNo <b>condHandoverWithSCG-NRDC-r17</b> Indicates whether the UE supports conditional handover with NR SCG configuration for NR-DC. The UE indicating support of this feature shall also indicate the support of condHandover-r16 and support of at least one NR-DC band combination.UENoNo <b>csi-RS-RLM</b> 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 maxNumberResource-CSI-RS-RLM. This applies only to non- shared spectrum channel access. For shared spectrum channel access, csi-RS-UEYes	cells. The parameter can only be set if <i>condHandover-r16</i> is set for both FDD and					
Initial over FR1-FR2-r16UENoNoIndicates whether the UE supports conditional handover HO between FR1 and FR2. The parameter can only be set if condHandover-r16 is set for both FR1 and FR2. The UE that indicates support of this feature shall also indicate support of handoverFR1-FR2.UENoNoCondHandoverWithSCG-NRDC-r17 Indicates whether the UE supports conditional handover with NR SCG configuration for NR-DC. The UE indicating support of this feature shall also indicate the support of condHandover-r16 and support of at least one NR-DC band combination.UENoNoCsi-RS-RLM 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 maxNumberResource-CSI-RS-RLM. This applies only to non- shared spectrum channel access. For shared spectrum channel access, csi-RS-UEYes	IDD. The UE that indicates support of this feature shall also indicate support of					
ConditionOENONOIndicates whether the UE supports conditional handover HO between FR1 and FR2. The parameter can only be set if condHandover-r16 is set for both FR1 and FR2. The UE that indicates support of this feature shall also indicate support of handoverFR1-FR2.UENoNocondHandoverWithSCG-NRDC-r17 Indicates whether the UE supports conditional handover with NR SCG configuration for NR-DC. The UE indicating support of this feature shall also indicate the support of condHandover-r16 and support of at least one NR-DC band combination.UENoNocsi-RS-RLM 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 maxNumberResource-CSI-RS-RLM. This applies only to non- shared spectrum channel access. For shared spectrum channel access, csi-RS-UENoNo	nandoverFDD-TDD.		No	No	No	
FR2. The parameter can only be set if condHandover-r16 is set for both FR1 and FR2. The UE that indicates support of this feature shall also indicate support of handoverFR1-FR2.UENoNocondHandoverWithSCG-NRDC-r17 Indicates whether the UE supports conditional handover with NR SCG configuration for NR-DC. The UE indicating support of this feature shall also indicate the support of condHandover-r16 and support of at least one NR-DC band combination.UENoNocsi-RS-RLM 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 maxNumberResource-CSI-RS-RLM. This applies only to non- shared spectrum channel access. For shared spectrum channel access, csi-RS-UEYes	Indicates whether the LIE supports conditional handover HO between FR1 and	UE	INU	INU	INU	
FR2. The UE that indicates support of this feature shall also indicate support of handoverFR1-FR2.UENoNoCondHandoverWithSCG-NRDC-r17 Indicates whether the UE supports conditional handover with NR SCG configuration for NR-DC. The UE indicating support of this feature shall also indicate the support of condHandover-r16 and support of at least one NR-DC band combination.UENoNoCsi-RS-RLM 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 maxNumberResource-CSI-RS-RLM. This applies only to non- shared spectrum channel access. For shared spectrum channel access, csi-RS-UEYes	FR2. The parameter can only be set if <i>condHandover-r16</i> is set for both FR1 and					
handoverFR1-FR2.UENoNoIndicates whether the UE supports conditional handover with NR SCG configuration for NR-DC. The UE indicating support of this feature shall also indicate the support of condHandover-r16 and support of at least one NR-DC band combination.UENoNocsi-RS-RLM 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 maxNumberResource-CSI-RS-RLM. This applies only to non- shared spectrum channel access. For shared spectrum channel access, csi-RS-UEYes	FR2. The UE that indicates support of this feature shall also indicate support of					
condHandoverWithSCG-NRDC-r17UENoNoIndicates whether the UE supports conditional handover with NR SCG configuration for NR-DC. The UE indicating support of this feature shall also indicate the support of condHandover-r16 and support of at least one NR-DC bandUENoNoNocsi-RS-RLMUEYesNoYesIndicates 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 maxNumberResource-CSI-RS-RLM. This applies only to non- shared spectrum channel access. For shared spectrum channel access, csi-RS-UEYes	handoverFR1-FR2.					
Indicates whether the UE supports conditional handover with NR SCG configuration for NR-DC. The UE indicating support of this feature shall also indicate the support of condHandover-r16 and support of at least one NR-DC band combination.UEYesNoYesCsi-RS-RLM 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 maxNumberResource-CSI-RS-RLM. This applies only to non- shared spectrum channel access. For shared spectrum channel access, csi-RS-UEYesNoYes	condHandoverWithSCG-NRDC-r17	UE	No	No	No	
configuration for NR-DC. The UE indicating support of this feature shall also indicate the support of condHandover-r16 and support of at least one NR-DC band combination.UEYesNoYesCsi-RS-RLM 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 maxNumberResource-CSI-RS-RLM. This applies only to non- shared spectrum channel access. For shared spectrum channel access, csi-RS-UEYesNoYes	Indicates whether the UE supports conditional handover with NR SCG					
Indicate the support of conditional dover-invarid support of at least one NR-DC band         combination.         Csi-RS-RLM         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 maxNumberResource-CSI-RS-RLM. This applies only to non-         shared spectrum channel access. For shared spectrum channel access, csi-RS-	configuration for NR-DC. The UE indicating support of this feature shall also					
csi-RS-RLM         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 maxNumberResource-CSI-RS-RLM. This applies only to non-shared spectrum channel access. For shared spectrum channel access, csi-RS-       UE       Yes       No       Yes	combination					
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-</i>	csi-RS-RLM	UF	Yes	No	Yes	
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-</i>	Indicates whether the UE can perform radio link monitoring procedure based on		100		100	
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-</i>	measurement of CSI-RS as specified in TS 38.213 [11] and TS 38.133 [5]. This					
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-</i>	parameter needs FR1 and FR2 differentiation. If the UE supports this feature, the					
shared spectrum channel access. For shared spectrum channel access, <i>csi-RS</i> -	UE needs to report maxNumberResource-CSI-RS-RLM. This applies only to non-					
	snared spectrum channel access. For shared spectrum channel access, csi-RS-					

Definitions for parameters	Per	М	FDD- TDD	FR1- FR2
			DIFF	DIFF
<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	UE	No	No	Yes
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.				
CSI-SINR-IMEAS 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
deriveSSB-IndexFromCellInterNon-NCSG-r17	UE	No	No	No
Indicates whether the UE supports configuration of <i>deriveSSB-IndexFromCellInter-</i> <i>r17</i> in <i>MeasObjectNR</i> . This field applies to NR SA, MN configured measurements when NR-DC or NE-DC is configured, and SN configured measurements when NR-DC or (NG)EN-DC is configured. UE supporting this feature is required to meet the measurement requirements in TS 38.133 [5]. This field applies only to non-NCSG capable UEs (i.e. UEs not supporting <i>ncsg-MeasGapNR-Patterns-r17</i> ).				
eutra-AutonomousGaps-r16	UE	No	No	No
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.				
eutra-AutonomousGaps-NEDC-r16	UE	No	No	No
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 NE-DC is configured.				
eutra-AutonomousGaps-NRDC-r16	UE	No	No	No
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 NR-DC is configured.				
eutra-CGI-Reporting	UE	CY	No	No
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. It is optional for RedCap UEs.				-
eutra-CGI-Reporting-NEDC	UE	No	No	No
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.				

Definitions for parameters	Per	М	FDD- TDD DIFF	FR1- FR2 DIFF
<i>eutra-CGI-Reporting-NRDC</i> Defines whether the UE supports acquisition of relevant information from a neighbouring E-UTRA cell by reading the SI of the neighbouring cell and reporting the acquired information to the network as specified in TS 38.331 [9] when the NR- DC is configured wherein MN and SN have different DRX cycles, or on-duration configured by MN does not contain on-duration configured by SN if the DRX cycles are the same.	UE	No	No	No
eutra-NeedForGapNCSG-Reporting-r17 Indicates whether the UE supports reporting of the NCSG and measurement gap requirement information for E-UTRA target bands in the UE response to a network configuration RRC message as specified in TS 38.331 [9].	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
eventD1-MeasReportTrigger-r17 Indicates whether the UE supports location-based triggered measurement reporting (i.e., event D1) as specified in TS 38.331 [9]. It is mandated if the UE supports <i>locationBasedCondHandover-r17</i> in any NTN band.	UE	CY	No	No
<b>gNB-ID-LengthReporting-r17</b> Indicates whether the UE supports acquisition and reporting of gNB ID length from a neighbouring intra-frequency or inter-frequency NR cell by reading the SI of the neighbouring cell and reporting the acquired gNB ID length 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. It is mandated if UE supports NR CGI reporting (NG)EN-DC and NE-DC are not configured or, when consistent DRX is configured in NR-DC.	UE	CY	No	No
<b>gNB-ID-LengthReporting-ENDC-r17</b> Indicates whether the UE supports acquisition and reporting of gNB ID length from a neighbouring intra-frequency or inter-frequency NR cell by reading the SI of the neighbouring cell and reporting the acquired gNB ID length to the network as specified in TS 38.331 [9] when the (NG)EN-DC is configured. It is mandated if UE supports NB CGI reporting when (NG)EN-DC is configured.	UE	CY	No	No
<i>gNB-ID-LengthReporting-NEDC-r17</i> Indicates whether the UE supports acquisition and reporting of gNB ID length from a neighbouring intra-frequency or inter-frequency NR cell by reading the SI of the neighbouring cell and reporting the acquired gNB ID length to the network as specified in TS 38.331 [9] when the NE-DC is configured. It is mandated if UE supports NR CGI reporting when NE-DC is configured.	UE	CY	No	No
<b>gNB-ID-LengthReporting-NRDC-r17</b> Indicates whether the UE supports acquisition and reporting of gNB ID length from a neighbouring intra-frequency or inter-frequency NR cell by reading the SI of the neighbouring cell and reporting the acquired gNB ID length 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. It is mandated if UE supports NR CGI reporting when NR-DC is configured.	UE	CY	No	No
<b>gNB-ID-LengthReporting-NPN-r17</b> Indicates whether the UE supports acquisition of NPN-relevant gNB ID length from a neighbouring intra-frequency or inter-frequency NR NPN cell by reading the SI of the neighbouring cell and reporting the acquired gNB ID length to the network as specified in TS 38.331 [9]. It is mandated if UE supports NPN CGI reporting.	UE	CY	No	No
<i>handoverLTE-5GC, handoverLTE-5GC-r17</i> 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 (Incl FR2-2 DIFF)

Description         Diff	Definitions for parameters	Per	M	FDD-	FR1-
Indexides 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-OC/NE- DC (e.g. PCell handover). The PSCell change when (NQ)EN-DC/NR-OC is configured, this feature is mandatory supported. UEs support is mandatory torithe UE supports HO between FR1 and FR2. Support is mandatory for the UE supports HO between FR1 and FR2. Support is mandatory for the UE supports HO between FR1 and FR2. This field only applies to NR SA/NR-OCNE-DC (e.g. PCell handover). The PSCell change when (NC)EN- DC/NR-DC is configured, this feature is mandatory supported. UEs supporting this shall indicate support of handover/Inter/For both FR1 and FR2. This field only applies to NR SA/NR-OCNE-DC (e.g. PCell handover) and PSCell change when (NC)EN-DC/NR-DC is configured. UEs supporting this shall indicate support of handover/Inter/FIF22-UT7 Indicates whether the UE supports HO between FR1 and FR2. This field only applies to NR SA/NR-DC/CNE-DC (e.g. PCell handover) and PSCell change when (NC)EN-DC/NR-DC is configured. UEs supporting this shall indicate support of handover/Inter/FIF22-UT7 Indicates whether the UE supports HO between FR2-1 and FR2-2. This field only applies to NR SA/NR-DC/C (e.g. PCell handover) and PSCell change when (NC)EN-DC/NR-DC (e.g. PCell handover) and PSCell change when (NC)EN-DC/NR-DC (e.g. PCell handover) and PSCell change when (NC)EN-DC/NR-DC (e.g. PCell handover) Applies to NR SA/NR-DC/NE-DC (e.g. PCell handover) and PSCell change when (NC)EN-DC/NR-DC (e.g. PCELL) (e.g. PCELL) NC NC (NC) NR C, LD				TDD	FR2 DIFF
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 is configured, this feature is mandatory supported. UEs support is mandatory for the UE supports HO between FR1 and FR2. Support is mandatory for the UE supports HO between FR1 and FR2. Support is mandatory for the UE supports both FDD and TDD. Indicates whether the UE supports HO between FR1 and FR2. Support is mandatory for only both FR1 and FR2. This field only applies to NR SA/NR-DC/NE-DC (e.g., PCell handover). For PSCell change when (NO)EN- DC/NR-DC is configured. It is feature is mandatory supporting this shall indicate support of <i>handoverInterF</i> for both FR1 and FR2.2. This field only applies to NR SA/NR-DC/NE-DC (e.g., PCell handover) and PSCell change when (NG)EN-DC/NR-DC is configured. UEs supporting this shall indicate support of <i>handoverInterF</i> for both FR1 and FR2.2. This field only applies to NR SA/NR-DC/NE-DC (e.g., PCell handover) and PSCell change when (NG)EN-DC/NR-DC is configured. UEs supporting this shall indicate support of <i>handoverInterF</i> for both FR1 and FR2.2. This field only applies to NR SA/NR-DC/NE-DC (e.g., PCell handover) and PSCell change when (NG)EN-DC/NR-DC is configured. UEs supporting this shall indicate support of <i>handoverInterF</i> for both FR1 and FR2.2. <i>handoverInterF</i> for bo	handoverFDD-TDD	UE	Yes	No	No
the UE supports both FDD and TDD. This field only applies to NR SA/NR-CC/NE- DC (e.g. PCeII handover). For SCeII change when (NG)EN-DC/NR-DC is configured, this feature is mandatory supported. UEs supporting this shall indicate support of <i>handover/InterF</i> for both FDD and TDD. <i>handover/RF-FR2</i> Indicates whether the UE supports HO between FR1 and FR2. Support is mandatory for the UE support of handover/for PSCeII change when (NC)EN- DC/NR-DC (s.g. PCeII handover). For SCeII change when (NC)EN- DC/NR-DC (s.g. PCeII handover) for both FR1 and FR2. This field only applies to NR SA/NR-DC/NE-DC (s.g. PCeII handover) and PSCeII change when (NC)EN-DC/NR-DC is configured. UEs supporting this shall indicate support of <i>handover/fRF-FR2-2+17</i> Indicates whether the UE supports HO between FR2-1 and FR2-2. This field only applies to NR SA/NR-DC/NE-DC (s.g. PCeII handover) and PSCeII change when (NG)EN-DC/NR-DC is configured. UEs supporting this shall indicate support of <i>handover/interF-</i> for both FR1 and FR2-2. <i>handover/interF-</i> for both FR1 and FR2-2. <i>handover/interF-</i> for both FR2-1 and FR2-2. This field only applies to NR SA/NR-DC/NE-DC (s.g. PCeII handover) and PSCeII change when (NG)EN-DC/NR-DC is configured. UEs supporting this shall indicate support of <i>handover/interF-</i> , <i>handover/interF-frequency</i> HO. It indicates the support for <i>inter-frequency</i> . HO from the corresponding duplex mode and from frequency range indicated to be supports as described in Annex B. This field only applies to NR SA/NR-DC/NE-DC (s.g. PCeII handover). OF PSCeII change when (NG)EN-DC/NR-DC (s.C. PCII handover). For PSCeII change when (NG)EN-DC/NR-EDC (s.C. PCII handover). For PSCeII change when (NG)EN-DC/NR-EDC (s.C. PCII handover). For PSCeII change when NR SA/NR-DC/NE-CC (s.C. PCEI handover). For PSCeII change when (NG)EN-DC/NR-EDC (s.C. PCII handover). For PSCeII change when (NG)EN-DC/NR-EDC (s.C. PCII handover). For PSCeII change when (NG)EN-DC/NR-EDC (s.C. PCII handoveR) and PSC second protock request as specified in TS 38.331 [9].	Indicates whether the UE supports HO between FDD and TDD. It is mandated if				
DC (e.g., PCell handover). For PSCell change when (NO)EN-DC/NR-DC is configured, this feature is mandatory supported. UEs supporting this shall indicate support of <i>handover/InterF</i> for both FDD and TDD.       UE       Yes       No       No         handover/InterF for both FDD and TDD.       UE       Yes       No       No         CNRDOC 50: configured, this feature is mandatory supported. UEs supporting this shall indicate support of <i>handover/InterF</i> for both FR1 and FR2.       UE       No       No         Andover/InterFR2:2-177       Indicates whether the UE supports PO between FR1 and FR2.2. This field only applies to NR SA/NR-DC/NR-DC (e.g. PCell handover) and PSCell change when (NO)EN-DC/NR-DC is configured. UEs supporting this shall indicate support of <i>handover/InterF</i> for both FR2-1 and FR2-2.       UE       No       No         Andover/R2-1FR2:2-177       Indicates whether the UE supports PO between FR2-1 and FR2-2. This field only applies to NR SA/NR-DC/NE-DC (e.g. PCell handover) and PSCell change when (NO)EN-DC/NR-DC is configured. UEs supporting this shall indicate support of <i>handover/interF</i> for both FR2-1 and FR2-2.       UE       No       No       No         Indicates whether the UE supports Inter-frequency HO from the corresponding duplex mode and from frequency range indicated to be supports inter-frequency. For PSCell change when (NG)EN-DC/NE-DC (e.g. PCell handover). For PSCell change when (NG)EN-DC/NE-DC (e.g. PCell handover). For PSCel change when (NG)EN-DC/NE-DC (e.g. PCell handover). For PSCell change when (NG)EN-DC/NE-DC (e.g. PCell handover). For PSCell change when (NG)EN-DC/NE-DC (e.g. PCell handover). For PSCell change when (NG)EN-DC/NE-DC (e.g. PCe	the UE supports both FDD and TDD. This field only applies to NR SA/NR-DC/NE-				
configured, this feature is mandatory supported. UEs support of handover/ther? to both FDD and TDD.       Vestors 1000000000000000000000000000000000000	DC (e.g. PCell handover). For PSCell change when (NG)EN-DC/NR-DC is				
support of handover/Inter/F for both FDD and TDD. handover/FRI-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. PCeII handover). For PSCeII change when (NC)[EN- DC/NR-DC is configured. this feature is mandatory supported. UEs supporting this shall indicate support of handover/nter/F for both FR1 and FR2. handover/fRI-FR2-2-r17 Indicates whether the UE supports HO between FR1 and FR2-2. This field only applies to NR SA/NR-DC/NE-DC (e.g. PCeII handover) and PSCeII change when (NC)[EN-DC/NR-DC is configured. UEs supporting this shall indicate support of handover/triter/ For both FR1 and FR2-2. handover/triter/ For both FR1 and FR2-2. handover/triter/, handover/triter/equency HO. It indicates the support of inter-frequency HO from the corresponding duplex mode and from frequency range indicates to be supports and the frequency HO. It indicates the support of inter-frequency HO from the corresponding duplex mode and from frequency range indicates to be supports HO to EUTRA connected to EPC. It is indicates whether the UE supports HOTRA connected to EPC. It is indicates whether the UE supports HOTRA connected to EPC. It is indicates whether the UE supports HOTRA connected to EPC. It is indicates whether the UE supports HOTRA connected to EPC. It is indicates whether the UE supports HOTRA connected to EPC. It is indicates whether the UE supports HOTRA connected to EPC. It is indicates whether the UE supports HOTRA connected to EPC. It is indicates whether the UE supports HOTRA connected to EPC. It is indicates whether the UE supports HOTRA connected to EPC. It is indicates whether the UE supports HOTRA connected to EPC. It is indicates whether the UE supports HOTRA connected to EPC. It is indic	configured, this feature is mandatory supported. UEs supporting this shall indicate				
handover/R1-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 SANRE-OCNE-DC (e.g. PCell handover), ror PSCell change when (NG)EN- DC/NR-DC is configured, this feature is mandatory supported. UEs supporting this shall indicates whether the UE supports HO between FR1 and FR2. handover/fR1-FR2-2-r17 indicates whether the UE supports HO between FR1 and FR2. handover/fR2-1-FR2-2-r17 indicates whether the UE supports HO between FR2 and FR2-2. This field only applies to NR SA/NR-DC/NE-DC (e.g. PCell handover) and PSCell change when (NG)EN-DC/NR-DC is configured. UEs supporting this shall indicate support of handover/fraz-1-FR2-2-r17 Indicates whether the UE supports HO between FR2-1 and FR2-2. This field only applies to NR SA/NR-DC/NE-DC (e.g. PCell handover) and PSCell change when (NG)EN-DC/NR-DC is configured. UEs supporting this shall indicate support of handover/fraz-fraz and FR2-2.UENoNoNoNandover/fraz-fraz inter-frequency HO. It indicates the support of handover/fraz-fraz and FR2-2.UEYesYesYesIndicates whether the UE supports the 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. The sequence of the frequency HO. It indicates whether the UE supports and settre is mandatory supported.UEVesYesIndicates whether the UE supports Of the UTRA connected to EPC. It is mandated if the UE supports EUTRA connected to EPC.UENoNoYesIndicates whether the UE supports onfiguration of NR SSB measurements in RRC_DLE/RRC_INACTIVE and reporting of the corresponding results upon netw	support of handoverInterF for both FDD and TDD.				
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 DC/NR-DC is configured. the Support of Landover/InterF for both FR1 and FR2. This field only applies to NR SANR-DC/NR-DC is configured. UE supporting this shall indicate support of <i>handover/InterF</i> for both FR1 and FR2. This field only applies to NR SANR-DC/NR-DC is configured. UE supporting this shall indicate support of <i>handover/InterF</i> for both FR1 and FR2-2. This field only applies to NR SANR-DC/NR-DC is configured. UE supporting this shall indicate support of <i>handover/InterF</i> for both FR1 and FR2-2. This field only applies to NR SANR-DC/NR-DC is configured. UE supporting this shall indicate support of <i>handover/InterF</i> . <i>Handover/InterF</i> for both FR1 and FR2-2. This field only applies to NR SANR-DC/NR-DC is configured. UE supporting this shall indicate support of <i>handover/InterF</i> . <i>Handover/Int</i>	handoverFR1-FR2	UE	Yes	No	No
mandatory for the UE supporting both FR1 and FR2. This field only applies to NR SANR-DC/NE-DC (e.g. PCell handover). For PSCell change when (NG)EN- DC/NR-DC is configured, this feature is mandatory supported. UEs supporting this shall indicate support of <i>InadoverInterF</i> for both FR1 and FR2.       IUE       No       No         Indicates whether the UE supports HO between FR1 and FR2.       This field only applies to NR SA/NR-DC/NE-DC (e.g. PCell handover) and PSCell change when (NG)EN-DC/NR-DC is configured. UEs supporting this shall indicate support of <i>InadoverInterF</i> for both FR1 and FR2.2.       UE       No       No         Indicates whether the UE supports HO between FR2-1 and FR2-2. This field only applies to NR SA/NR-DC/NE-DC (e.g. PCell handover) and PSCell change when (NG)EN-DC/NR-DC is configured. UEs supporting this shall indicate support for inter-frequency HO. Trom 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/NE-DC (e.g. PCell handover) apported.       UE       No       No         Na ANR-PC/NE-DC (e.g. PCell handover), For PSCell change when (NG)EN-EXCHAPC handover, FerPC-r17       UE       No       No       Yes (Indicates whether the UE supports BUTRA connected to EPC. It is mandated if the UE supports SUTRA connected to EPC.       U	Indicates whether the UE supports HO between FR1 and FR2. Support is				
SANK-DC/NE-DC (e.g., PCell handover), For PSCell change when (NG)EN- bandover/Inter/FR2-217       UE       No       No         Indicates whether the UE supports HO between FR1 and FR2.       UE       No       No       No         Andover/Inter/FR2-217       UE       No       No       No       No         Indicates whether the UE supports HO between FR1 and FR2.2.       This field only applies to NR SANR-DC/NE-DC (e.g. PCell handover) and PSCell change when (NG)EN-DC/NR-DC is configured. UEs supporting this shall indicate support of handover/Inter/F, handover/Inter/Fr17       UE       No       No         Indicates whether the UE supports HO between FR2-1 and FR2-2.       This field only applies to NR SANR-DC/NE-DC (e.g. PCell handover) and PSCell change when (NG)EN-DC/NR-DC is configured. UEs supporting this shall indicate support for inter-frequency HO from the corresponding duplex mode and from frequency range indicated to be supports inter-frequency HO. It indicates the support for inter-frequency HO from the corresponding duplex mode and from frequency range indicated to be supports a described in Annex B. This field only applies to NR SANR-DC/NE-DC (e.g. PCell handover). For PSCell change when (NG)EN-DC/NE-DC (e.g. PCell) Andover). For PSCell change when (NG)EN- DC/NR-DC is configured, this feature is mandatory supported.       UE       Yes       Yes         Indicates whether the UE supports HO to EUTRA connected to EPC.       UE       No       No       FR2-2         Indicates whether the UE supports configuration of NR SSB measurements in RRC [DLE/RC] INACTIVE and reporting of the corresponding presults upon netw	mandatory for the UE supporting both FR1 and FR2. This field only applies to NR				
DC/NPC-DC is configured, this require is mandatory supported.         UE         No         No           handover/R1-FR22-r17         UE         No         No         No           Indicates whether the UE supports HO between FR1 and FR2-2. This field only applies to NR SA/NR-DC/NE-DC (e.g. PCell handover) and PSCell change when (NG)EN-DC/NR-DC is configured. UE supporting this shall indicate support of handover/nter/For both FR1 and FR2-2.         UE         No         No         No           Indicates whether the UE supports HO between FR2-1 and FR2-2. This field only applies to NR SA/NR-DC/NE-DC (e.g. PCell handover) and PSCell change when (NG)EN-DC/NR-DC (is configured. UE's supporting this shall indicate support for inter/frequency Ho. It indicates the support for inter/frequency HO from the corresponding duplex mode and from frequency range indicated to be supports HO to EUTRA connected to EPC. It is mandatory is propring this feature is mandatory supported.         UE         Yes         Yes         Yes         Inficates whether the UE supports BUTRA connected to EPC. It is mandated if the UE supports BUTRA connected to EPC. It is mandated if the UE supports BUTRA connected to EPC.         UE         No         No         Yes         Inficates whether the UE supports BUTRA connected to EPC. It is mandeter is indicated for FR2-2 DIFF)         IDE/FIN         Idelaneative/RM-MeasReport-116         IUE         No         No         Yes         Inficates whether the UE supports BUTRA connected to EPC. It is mandeter is indicated for FR1-and FR2-differently, each indication corresponding results upon network request as specified in TS 38.331 [9]. It this parameter	SA/NR-DC/NE-DC (e.g. PCell handover). For PSCell change when (NG)EN-				
Shall indicate Support of <i>handoverinter</i> for both FR1 and FR2.       UE       No       No         Indicates whether the UE supports HO between FR1 and FR2-2. This field only applies to NS SAVR.PCDCHE-DC (e.g. PCell handover) and PSCell change when (NG)EN-DC/NR-DC is configured. UEs supporting this shall indicate support of <i>handoverInterF</i> for both FR1 and FR2-2.       Weiler SAVR.PCDC TR PC (e.g. PCell handover) and PSCell change when (NG)EN-DC/NR-DC is configured. UEs supporting this shall indicate support of <i>handoverInterF</i> . For both FR2 1 and FR2-2.       Weiler SAVR.PCD/WE-DC (e.g. PCell handover) and PSCell change when (NG)EN-DC/NR-DC is configured. UEs supporting this shall indicate support of <i>handoverInterF</i> . <i>handoverInterF</i> . F17       UE       Veiler Yes       Yes       Yes         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 supports HO to EUTRA connected to EPC. It is mandated if the UE supports configuration of NR SSB measurements in RRC_IDLE/RRC_INACTIVE and reporting of the corresponding results upon entwork request as specified in TS 38.331 (9). If this parameter is indicated for FR2-2 DIFF)       Weiler No       No       Yes         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 FR2-2 DIFF)       No       No       No       Yes         Indicates whether the UE supports configuration of E-UTRA measurements in RRC_IDLE/RRC_INACTIVE and reporting of the corresponding results upon neaswork there the UE supports confi	DC/NR-DC is configured, this feature is mandatory supported. UEs supporting this				
National StressUENoNoNoIndicates whether the UE supports HO between FR1 and FR2-2. This field only applies to NR SA/NR-DC/NE-DC (e.g. PCell handover) and PSCell change when (NO)EN-DC/NR-DC is configured. UEs supporting this shall indicate support of handover/InterF for both FR1 and FR2-2.UENoNoNoIndicates whether the UE supports HO between FR2-1 and FR2-2. This field only applies to NR SA/NR-DC/NE-DC (e.g. PCell handover) and PSCell change when (NO)EN-DC/NR-DC is configured. UEs supporting this shall indicate support of handoverInterF for both FR2-1 and FR2-2.UENoNoNoIndicates 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 (NS)EN- DC/NR-DC is configured. UEs supports to FOF SCell change when (NS)EN- DC/NR-DC is configured. UE supports to FUTRA connected to EPC. It is mandated if the UE supports EUTRA connected to EPC. It is mandated if the UE supports configuration of NR SSB measurements in RRC_DLE/RRC_INACTIVE and reporting of the corresponding tesults upon network request as specified in TS 38.331 [9]. If this parameter is indicated for FR2-2 DIFF)VENoNoYesIndicates whether the UE supports beam level measurements in RRC_DLE/RRC_INACTIVE and reporting of the corresponding beam measurement results upon network request as specified in TS 38.331 [9]. It this parameter is indicated for FR2-2 DIFF)WoNoNoIdelanactive/RM-ReasReport-r16 Indicates whether the UE supports configuration of E-UTRA measurements in RRC	shall indicate support of <i>nandoverinterF</i> for both FR1 and FR2.		Na	Nia	Nia
Indicates whene the UE supports NO deriver) and PSCell change when       VE       Ve         Indicates whener for both FR1 and FR2-2.       UE       No       No       No         Indicates whener for both FR1 and FR2-2.       UE       No       No       No         Indicates whener the UE supports HD between FR2-1 and FR2-2. This field only applies to NR SA/NR-DC/NE-DC (e.g. PCell handover) and PSCell change when (NG)EN-DC/NR-DC is configured. UEs supporting this shall indicate support of handover/inter/F for both FR2-1 and FR2-2.       UE       Ves       Yes       Yes       Yes       (Incleates 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 supports and escribed 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.       UE       Ves       Yes       Yes       (Incleates whether the UE supports indicates whether the UE supports configuration of NR SSB measurements in RRC_DLE/RC_NACTIVE and reporting of the corresponding trausilis upon network request as specified in TS 38.331 [9]. If this parameter is indicated for FR2-2. DIFF)       Ves       No       No       Yes       Yes       Ves       IfF2.2       DIFF)       FR2-2       DIFF)       DIFF)       FR2-2       DIFF)       IfF2.2       DIFF)       IfF2.2       IfF2.2       DIFF)       IfF2.2       DIFF)       IfF2.2       IfF2.2       IfF2.2       IfF5	<b>NandoverFR1-FR2-2-F17</b>	UE	INO	INO	INO
apples to Mr. OPC/NR-DC is configured. UEs supporting this shall indicate support of handover/InterF for both FR1 and FR2-2.       IUE       No       No         Indicates whether the UE supports HO between FR2-1 and FR2-2. This field only applies to NR SANR-DC/NE-DC (e.g. PCell handover) and PSCell change when (NG)EN-DC/NR-DC is configured. UEs supporting this shall indicate 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       Yes         Indicates whether the UE supports IUTRA connected to EPC. It is mandated if the UE supports EUTRA connected to EPC. It is mandated if the UE supports EUTRA connected to EPC.       UE       No       No       Yes       Yes         Indicates whether the UE supports board from frequency reade there the UE supports EUTRA connected to EPC.       UE       No       No       Yes       Yes         Indicates whether the UE supports board from orresponding results upon network request as specified in TS 38.331 [9]. If this parameter is indicated for FR2-2       UFF)       IUFF)         IdelancetiveRN-MeasBeamReport-r16       UE       No       No       Yes         Indicates whether the UE supports configuration of E-UTRA 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	applies to NR SA/NR-DC/NE-DC (e.g. PCell bandover) and PSCell change when				
(Ho)ENDORMENTAL Set Supports       UE       No       No         handover/filer/F for both FR1 and FR2-2.       UE       No       No         Indicates whether the UE supports HO between FR2-1 and FR2-2. This field only applies to NR SA/NR-DC/NE-DC (e.g. PCell handover) and PSCell change when (NG)EN-DC/NR-DC is configured. UEs supporting this shall indicate support of inter-frequency HO from the corresponding duplex mode and from frequency range indicated to be supports inter-frequency HO. It indicates the support for inter-frequency HO from the corresponding duplex mode and from frequency range indicated to be supports HO to EUTRA connected to EPC. It is mandated if the UE supports HO to EUTRA connected to EPC. It is mandated if the UE supports EUTRA connected to EPC. It is mandated if the UE supports EUTRA connected to EPC. It is mandated if the UE supports EUTRA connected to EPC. It is functionates whether the UE supports HO to EUTRA connected to EPC. It is mandated if the UE supports EUTRA configuration of NR SSB measurements in RRC_IDLE/RRC_INACTIVE and reporting of the corresponding results upon results upon results upon network request as specified in TS 38.331 [9]. It this parameter is indicated for PC. DIFF)       VE       No       No       Yes         Indicates whether the UE supports configuration of INR SSB measurements in RRC_IDLE/RRC_INACTIVE and reporting of the corresponding results upon network request as specified in TS 38.331 [9]. It this parameter is indicated for PC.       No       No       Yes         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]. A UE suports to figuration of E-UTRA measurements in RRR	(NG)EN_DC/NB_DC is configured []Es supporting this shall indicate support of				
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applies to NR SA/NR-DC/NE-DC (e.g. PCell handover) and PSCell change when (NG)EN-DC/NR-DC is configured. UEs supporting this shall indicate support of handoverInterF. for both FR2-1 and FR2-2.UEYesYesIndicates 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). FPSCell change when (NG)EN- DC/NR-DC is configured, this feature is mandatory supported.UEYesYesIndicates whether the UE supports HO to EUTRA connected to EPC. It is mandated if the UE supports EUTRA connected to EPC.UECYYesYesIndicates whether the UE supports to report of the corresponding results upon request as specified in TS 38.331 [9]. If this parameter is indicated for FR2-2 differently, each indication corresponds to the frequency range of measured target cell.UENoNoYesIdicitates whether the UE supports beam level measurements in RRC_IDLE/RRC_INACTIVE and reporting of the corresponding results upon newsure target cell.UENoNoYesIdicitates 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 ide/nactiveNR-MeasReport-r16UENoNoIndicates whether the UE supports configuration of R-UTRA 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 suports this feature shall also support ide/nact	Indicates whether the UE supports HO between ER2-1 and ER2-2. This field only	02			
(NG)EN-DC/NR-DC is configured. UEs supporting this shall indicate support of handover/interF for both FR2-1 and FR2-2.       Indicates whether the UE supports inter-frequency HO. It indicates the support for inter-frequency HO from the corresponding duplex mode and from frequency range indicated to be supported as described in Annex B. This field only applies to NR SA/NR-DC/NE-DC (e.g. PCell handover). For PSCell change when (NG)EN-DC/NR-DC is configured, this feature is mandatory supported.       UE       Yes       Yes       Yes <i>handoverLTE-EPC, handoverLTE-EPC-r17</i> UE       UE       CY       Yes       Yes       (Incl         Indicates whether the UE supports EUTRA connected to EPC. It is mandated if the UE supports EUTRA connected to EPC.       UE       No       No       (Incl         Indicates whether the UE supports configuration of NR SSB measurements in Indicates whether the UE supports and reporting of the corresponding results upon network request as specified in TS 38.331 [9]. It his parameter is indicated for FR1 and FR2 differently, each indication corresponds to the frequency range of measurement results upon network request as specified in TS 38.331 [9]. A UE supports this feature shall also support idleInactiveNR-MeasReport-r16. If this parameter is indicated for FR1 and FR2 differently, each indication corresponding results upon network request as specified in TS 38.331 [9]. The field 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]. The field indicates whether the UE supports configuration of a validity area for NR measurement results upon network request as specified in TS 38.331 [9]. The field indicat	applies to NR SA/NR-DC/NF-DC (e.g. PCell handover) and PSCell change when				
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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.FURE 2000000000000000000000000000000000000	Indicates whether the UE supports inter-frequency HO. It indicates the support for				(Incl
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.DIFF) <i>handoverl.TE-EPC, handoverl.TE-EPC-r17</i> Indicates whether the UE supports DO to EUTRA connected to EPC.UECYYes <i>idelnactiveNR-MeasReport-r16, idlelnactiveNR-MeasReport-r17</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 measurement results upon network request as specified in TS 38.331 [9]. A UE supports this feature shall also support <i>idlelinactiveNR-MeasReport-r16</i> . If this parameter is indicated for FR1 and FR2 differently, each indication of E-UTRA measurements in RRC_IDLE/RRC_INACTIVE and reporting of the corresponding results upon measurement results upon network request as specified in TS 38.331 [9]. A UE supports this feature shall also support <i>idlelinactiveNR-MeasReport-r16</i> . If this parameter is indicated for FR1 and FR2 differently, each indication corresponds to the frequency range of measured target cell.UENoNo <i>idlelnactive-ValidityArea-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].UENoNo <i>idlelnactive-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].UENoNo <i>idlelnactive-Valid</i>	inter-frequency HO from the corresponding duplex mode and from frequency				FR2-2
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       CY       Yes         Indicates whether the UE supports H0 to EUTRA connected to EPC. It is mandated if the UE supports EUTRA connected to EPC.       UE       CY       Yes       (Incl FR2-2 DIFF) <i>idelnactiveNR-MeasReport+r16, idlelnactiveNR-MeasReport+r17</i> UE       No       No       Yes         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> UE       No       No       Yes         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 <i>idleInactiveEUTRA-MeasReport-r16</i> UE       No       No       No       No         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]. <td>range indicated to be supported as described in Annex B. This field only applies to</td> <td></td> <td></td> <td></td> <td>DIFF)</td>	range indicated to be supported as described in Annex B. This field only applies to				DIFF)
DC/NR-DC is configured, this feature is mandatory supported.       ImadoverLTE-EPC, handoverLTE-EPC-r17       UE       CY       Yes         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       (Incl. FR2-2 DIFF) <i>idleInactiveNR-MeasReport-r16, idleInactiveNR-MeasReport-r17</i> UE       No       No       Yes       (Incl. FR2-2 DIFF) <i>idleInactiveNR-MeasReport-r16, idleInactiveNR-measReport-r17</i> UE       No       No       Yes       (Incl. FR2-2 DIFF) <i>idleInactiveNR-MeasReport-r16, idleInactiveNR-measReport-r17</i> UE       No       No       Yes         Indicates whether the UE supports configuration of NR SSB measurements in measuremet results upon network request as specified in TS 38.331 [9]. If this parameter is indicated for FR1 and FR2 differently, each indication 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       No       No <i>idleInactiveEUTRA-MeasReport-r16</i> UE       No       N	NR SA/NR-DC/NE-DC (e.g. PCell handover). For PSCell change when (NG)EN-				
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manaated if the UE supports EUTRA connected to EPC.PR2-2idleInactiveNR-MeasReport-r16, idleInactiveNR-MeasReport-r17UENoNoRRC_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.UENoNoYesidleInactiveNR-MeasBeamReport-r16 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 idleInactiveNR-MeasReport-r16. If this parameter is indicated for FR1 and FR2 differently, each indication corresponds to the frequency range of measured target cell.UENoNoYesidleInactiveVR-MeasReport-r16 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].UENoNoNoidleInactive-ValidityArea-r16 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].UENoNoNoindicates support of up to 192 CSI-RS resource for L3 mobility configuration per measurement to 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 two independent measurement upports the fR2 specified in clause 9.1.2 of TS 38.133 [5]. The field also indicates whether the UE supports two independent measurem	Indicates whether the UE supports HO to EUTRA connected to EPC. It is				
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RRC_IDLE/RRC_INACTIVE and reporting of the corresponding results upon       FR2-2         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         Indicates whether the UE supports beam level measurements in       UE       No       No       Yes         Indicates whether the UE supports beam level measurements in       RRC_IDLE/RRC_INACTIVE and reporting of the corresponding beam       UE       No       No       Yes         Indicates whether the 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       No         Indicates whether the UE supports configuration of E-UTRA measurements in Indicates whether the UE supports of the corresponding results upon network request as specified in TS 38.331 [9].       UE       No       No       No         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         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       Yes         Ind	Indicates whether the UE supports configuration of NR SSB measurements in	02			(Incl
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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 <i>idleInactiveEUTRA-MeasReport-r16</i> UE       No       No         Indicates whether the UE supports configuration of E-UTRA measurements in       WE       No       No         RRC_IDLE/RRC_INACTIVE and reporting of the corresponding results upon       UE       No       No       No         Indicates whether the UE supports configuration of a validity area for NR       WE       No       No       No         Indicates whether the UE supports configuration of a validity area for NR       WE       No       No       No         Indicates whether the UE supports configuration of a validity area for NR       WE       No       No       No         Indicates support of up to 192 CSI-RS resource for L3 mobility configuration per       WE       No       No       Yes         IndependentGapConfig       UE       No       No       No       No         This field indicates whether the UE supports two independent measurement gap       UE       No       No       No         IndependentGapConfig       UE       No       No       No <td>Indicates whether the UE supports beam level measurements in</td> <td></td> <td></td> <td></td> <td></td>	Indicates whether the UE supports beam level measurements in				
measurement results upon network request as specified in 1'S 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       UE       No       No <i>idleInactiveEUTRA-MeasReport-r16</i> UE       No       No       No         Indicates whether the UE supports configuration of E-UTRA measurements in network request as specified in TS 38.331 [9].       UE       No       No       No <i>idleInactive-ValidityArea-r16</i> UE       No       No       No       No         Indicates whether the UE supports configuration of a validity area for NR       UE       No       No       No         Indicates whether the UE supports configuration of a validity area for NR       UE       No       No       No         Indicates whether the UE supports configuration of a validity area for NR       UE       No       No       No         measurements in RRC_IDLE/RRC_INACTIVE as specified in TS 38.331 [9].       UE       No       No       Yes         Indicates support of up to 192 CSI-RS resource for L3 mobility configuration per measurement object configured with associatedSSB.       UE       No       No       No <i>independentGapConfig</i> UE       No       No       No       No       No	RRC_IDLE/RRC_INACTIVE and reporting of the corresponding beam				
supports this feature shall also support IdieInactive/IX-INeasReport-I/16. If this parameter is indicated for FR1 and FR2 differently, each indication corresponds to the frequency range of measured target cell.       Image: Imag	measurement results upon network request as specified in TS 38.331 [9]. A UE				
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Indicates support of up to 192 CSI-RS resource for L3 mobility configuration per measurement object configured with associatedSSB.       UE       No       No <i>independentGapConfig</i> UE       No       No       No         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       Image: No       No	increasedNumberofCSIRSPerMO-r16	UE	No	No	Yes
independentGapConfig       UE       No       No         This field indicates whether the UE supports two independent measurement gap       UE       No       No         field also indicates whether the UE supports the FR2 inter-RAT measurement       UE       No       No	Indicates support of up to 192 CSI-RS resource for L3 mobility configuration per				
Independent GapConfig       UE       No       No         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	measurement object configured with associatedSSB.	=			<u> </u>
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	Independent GapContig	UE	NO	NO	No
field also indicates whether the UE supports the FR2 inter-RAT measurement	configurations for EP1 and EP2 appoints two independent measurement gap				
without gaps when (NG)EN-DC is not configured	toringurations for $FRT$ and $FRZ$ specified in Glause 3.1.2 of TS 30.133 [5]. The field also indicates whether the LIE supports the EP2 inter PAT measurement				
	without gaps when (NG)FN-DC is not configured				

Definitions for parameters	Per	М	FDD- TDD	FR1- FR2
			DIFF	DIFF
<i>independentGapConfig-maxCC-r17</i> This field indicates whether the UE supports two independent measurement gap configurations for FR1 and FR2 as specified in clause 9.1.2 of TS 38.133 [5] while the number of configured serving cells is less than or equal to the indicated number.	UE	No	No	No
<ul> <li>The capability signaling includes the following parameters:</li> <li><i>fr1-Only-r17</i> indicates the maximum number of configured serving cells when only NR FR1 serving cells are configured</li> <li><i>fr2-Only-r17</i> indicates the maximum number of configured serving cells when only NR FR2 serving cells are configured</li> <li><i>fr1-AndFR2-r17</i> indicates the maximum number of configured serving cells when both NR FR1 and NR FR2 serving cells are configured</li> </ul>				
The absence of the <i>fr1-Only-r17</i> or <i>fr2-Only-r17</i> field indicates that per-FR gap is not supported when only FR1 or FR2 serving cells are configured. Absence of the <i>fr1-AndFR2</i> field indicates that per-FR-gap is not supported when both FR1 and FR2 serving cells are configured. Value "1" for <i>fr1-Only-r17</i> or <i>fr2-Only-r17</i> indicates support of the per-FR gap when only PCell is configured (no additional CC). Value "2" for <i>fr1-Only-r17</i> or <i>fr2-Only-r17</i> indicates support of the per-FR gap when PCell and 1 additional CC are configured, and so on. Value "1" or "2" for <i>fr1- AndFR2-r17</i> indicates the support of per-FR gap when PCell and "1" additional CC are configured.				
UE indicating support of this feature in UE-NR-Capability shall not indicate support of independentGapConfig in UE-NR-Capability.				
<i>independentGapConfigPRS-r17</i> Indicates whether the UE supports two independent measurement gap configurations for FR1 and FR2 for PRS measurement, as specified in clause 9.1.2 of TS 38.133 [5].	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>interSatMeas-r17</i> Indicates whether the UE supports inter-satellite measurement as specified in TS 38.331 [9] It is mandatory if the UE supports <i>nonTerrestrialNetwork-r17</i>	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
<ul> <li>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.     </li> <li>NOTE 1: A slot is based on minimum SCS among active BWPs across all CCs configured for SRS-RSRP measurement.</li> <li>NOTE 2: A SRS resource occasion that overlaps with the slot is counted as one measurement resource in the slot.</li> </ul>	UE	CY	TDD only	No

Definitions for parameters	Per	Μ	FDD-	FR1-
				FR2
maxNumberCSI-RS-RRM-RS-SINR		CY	No	No
Defines the maximum number of CSI-RS resources for RRM and RS-SINR measurement across all measurement frequencies per slot. If UE supports any of <i>csi-RSRP-AndRSRQ-MeasWithSSB</i> , <i>csi-RSRP-AndRSRQ-MeasWithoutSSB</i> , and <i>csi-SINR-Meas</i> , UE shall report this capability.	UL		NO	NO
NOTE: A slot is based on minimum SCS among all measurement frequencies configured for RRM and RS-SINR measurement.				
maxNumberPerSlotCLI-SRS-RSRP-r16	UE	CY	TDD	No
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			only	
maxNumberResource-CSI-RS-RLM	UE	CY	No	Yes
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 canability.				
ncsg-MeasGanNR-Patterns-r17	LIE	No	No	No
Indicates whether the UE supports NR-only NCSG patterns. The left most bit in	01			
the bitmap corresponds to NCSG pattern #0 and the right most bit in the bitmap corresponds to NCSG pattern #23. A bit in the bitmap is set to 1 if the corresponding pattern is supported by the UE. NCSG patterns #0 to #23 are as specified in TS38.133 [5].				
NCSG patterns #2 and #3 are mandatory (i.e. the corresponding bits in the bitmap is set to 1) if the UE includes this field. NCSG patterns #17 and #18 are mandatory (i.e. the corresponding bits in the bitmap is set to 1) if UE includes this field and supports a FR2 band. UEs supporting this shall indicate support of <i>nr</i> - <i>NeedForGapNCSG-Reporting-r17</i>				
ncsg-MeasGapPatterns-r17	UE	No	No	No
Indicates whether the UE supports NCSG patterns. The left most bit in the bitmap corresponds to NCSG pattern #0 and the right most bit in the bitmap corresponds to NCSG pattern #23. A bit in the bitmap is set to 1 if the corresponding pattern is supported by the UE. NCSG patterns #0 to #23 are as specified in TS38.133 [5].				
NCSG patterns #0 and #1 are mandatory (i.e. the corresponding bits in the bitmap is set to 1) if the UE includes this field. NCSG patterns #13 and #14 are mandatory (i.e. the corresponding bits in the bitmap is set to 1) if UE supports <i>ncsg-</i> <i>MeasGapPerFR-r17</i> or if the UE is NCSG capable and supports FR2 band in standalone mode. UEs supporting this shall indicate support of <i>nr-</i> <i>NeedForGapNCSG-Reporting-r17</i> or <i>eutra-NeedForGapNCSG-Reporting-r17</i> .				
ncsg-MeasGapPerFR-r17	UE	No	No	No
Indicates whether the UE supports per-FR NCSG. UEs supporting this shall indicate support of <i>nr-NeedForGapNCSG-Reporting-r17</i> .				
ncsg-SymbolLevelScheduleRestrictionInter-r17	UE	No	No	FR2
Indicates whether the UE supports performing measurement with NCSG based on flag <i>deriveSSB-IndexFromCell-inter</i> and meeting the following requirements that the scheduling restriction in FR2 serving cell during NCSG ML is on SSB symbol level. UEs supporting this shall indicate support of <i>nr-NeedForGapNCSG-Reporting-r17</i> .				only
nr-AutonomousGaps-r16	UE	No	No	Yes
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.				
nr-AutonomousGaps-ENDC-r16	UE	No	No	Yes
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.				

Definitions for parameters	Per	Μ	FDD-	FR1-
			TDD DIFF	FR2 DIFF
nr-AutonomousGaps-NEDC-r16	UE	No	No	Yes
Defines whether the UE supports, upon configuration of useAutonomousGaps 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.	=			
nr-AutonomousGaps-NRDC-r16	UE	NO	NO	Yes
Defines whether the OE supports, upon configuration of useAutonomousGaps by				
reading the SL of the peighbouring 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.				
nr-CGI-Reporting	UE	CY	No	No
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 conligured in NR-DC. The consistent DRX conliguration 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 optional for RedCap				
UFs.				
nr-CGI-Reporting-ENDC	UE	Yes	No	No
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.				
reportAddNeighMeasForPeriodic-r16	UE	CY	No	No
Defines whether the UE supports periodic reporting of best heighbour cells per				
nr-CGI-Reporting-NEDC	LIF	Yes	No	No
Defines whether the UE supports acquisition of relevant information from a	0L	103		
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.				
nr-CGI-Reporting-NPN-r16	UE	CY	No	No
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				
s of the neighbouring cell and reporting the acquired information to the network as specified in TS 38 331 [0]. If LIE supports NPN, LIE shall report this capability. It				
is optional for RedCap UEs.				
nr-CGI-Reporting-NRDC	UE	Yes	No	No
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.		No	No	No
Indicates whether the LIE supports reporting of the NCSG and measurement gap	UE	INO	INO	INO
requirement information for SSB based measurement in the LIF response to a				
network configuration RRC message as specified in TS 38.331 [9].				
nr-NeedForGap-Reporting-r16	UE	No	No	No
Indicates whether the UE supports reporting the measurement gap requirement				
information for NR target in the UE response to a network configuration RRC				
message.				
parallelMeasurementGap-r17	UE	No	FDD	FR1
indicates whether the UE supports 2 parallel measurement gaps for NTN SSB based PRM measurements. If a UE does not include this field but includes			only	only
nonTerrestrialNetwork-r17 the UE supports 1 measurement gap for NTN SSP				
based RRM measurements. If this parameter is indicated a LIF shall also support				
that two parallel measurement gaps with the same gap type can be associated to				
one frequency layer. A UE supporting this feature shall also indicate the support of				
nonTerrestrialNetwork-r17.				

Definitions for parameters	Per	М	FDD-	FR1-
			TDD DIFF	FR2 DIFF
parallelSMTC-r17	UE	No	FDD	FR1
Indicates whether the UE supports NTN SSB based RRM measurements on target			only	only
cells belonging to 4 SMTC-s on a single frequency carrier. If a UE does not include				
this field but includes <i>nonTerrestrialNetwork-r17</i> , the UE supports NTN SSB based				
RRM measurements on target cells belonging to 2 SMTG-s on a single frequency				
camer.		CV	No	No
Indicates whether the LIE supports periodic ELITRA measurement and reporting. It	UE		INU	INO
is mandated if the UE supports EUTRA.				
pcellT312-r16	UE	No	No	No
Indicates whether the UE supports T312 based fast failure recovery for PCell.				
preconfiguredUE-AutonomousMeasGap-r17	UE	No	No	No
Indicates whether the UE supports the preconfigured measurement gap with UE-				
autonomous mechanism for activation and deactivation as specified in TS 38.133				
[5].		NI-	NI	NI-
preconfigured/w-controlled/weasGap-r17	UE	INO	INO	INO
nducates whether the OE supports the precontigured measurement gap with network-controlled mechanism for activation and deactivation as specified in TS				
38 133 [5]				
serviceLinkPropDelayDiffReporting-r17	UE	No	No	No
Indicates whether the UE supports the reporting of service link propagation delay			_	
difference between serving cell and neighbour cell(s). A UE supporting this feature				
shall also indicate the support of nonTerrestrialNetwork-r17.				
simultaneousRxDataSSB-DiffNumerology	UE	No	No	Yes
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 15 38.133 [5].		No	No	Voc
Indicates whether the LIE supports concurrent SSB based inter-frequency	UE	INU	INU	165
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				
interFrequencyMeas-NoGap-r16. 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.	=			
STID-MeasPSCell	UE	NO	Yes	No
indicates whether the UE supports SFID measurements between the PCell and a configured PSCell. If this canability is included in LIE-MPDC-Canability, it indicates				
that the LIE supports SETD measurement between PCell and PSCell in (NG)EN-				
DC. If this capability is included in UF-NR-Capability, it indicates that the UF				
supports SFTD measurement between PCell and PSCell in NR-DC.				
sftd-MeasPSCell-NEDC	UE	No	Yes	No
Indicates whether the UE supports SFTD measurement between the NR PCell				
and a configured E-UTRA PSCell in NE-DC.	=			
sttd-MeasNR-Cell	UE	NO	Yes	No
holders when en the SFTD measurement with and without measurement gaps				
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.				
sftd-MeasNR-Neigh	UE	No	Yes	No
indicates whether the inter-frequency SFTD measurement with and without measurement gaps between the NR DCell and inter-frequency NP pointbour cells				
is supported by the UE when MR-DC is not configured. The SETD measurement				
without gaps can be used when the UF supports at least one DC or CA hand				
combination consisting of the set of the current NR serving frequencies and the				
NR frequency where SFTD measurement is configured.				
sftd-MeasNR-Neigh-DRX	UE	No	Yes	No
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 MIK-UC IS NOT CONTIGUIED.				

Definitions for parameters	Per	М	FDD-	FR1- FR2
			DIFF	DIFF
ssb-RLM	UE	Yes	No	No
Indicates whether the UE can perform radio link monitoring procedure based on measurement of SS/PBCH block as specified in TS 38 213 [11] and TS 38 133 [5]				
This field shall be set to supported. This applies only to non-shared spectrum				
channel access. For shared spectrum channel access. ssb-RLM-				
DynamicChAccess-r16 or ssb-RLM-Semi-StaticChAccess-r16 applies.				
ssb-AndCSI-RS-RLM	UE	No	No	No
Indicates whether the UE can perform radio link monitoring procedure based on				
measurement of SS/PBCH block and CSI-RS as specified in TS 38.213 [11] and				
TS 38.133 [5]. If the UE supports this feature, the UE needs to report				
maxNumberResource-CSI-RS-RLM. This applies only to non-shared spectrum				
channel access. For shared spectrum channel access, ssp-AndCSI-RS-RLM-r16				
applies.		No	No	Voc
Indicates whether the LIE can perform SS-SINR measurement as specified in TS	UE	INU	INU	165
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, ss-SINR-Meas-r16 applies.				
supportedGapPattern	UE	CY	No	No
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 15 38.133				
b and so on. The OE shall set the bits corresponding to the measurement gap				
supports a band in ER2 or if the UE is an (NG)EN-DC capable UE that supports				
independentGapConfig and supports a band in FR2.				
supportedGapPattern-r16	UE	No	No	No
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				
ProcessingCanability r16 defined in TS 37 355 [22]				
supportedGanPattern-NRonly-r16	LIF	FD	No	No
Indicates measurement gap pattern(s) optionally supported by the UE for NR SA	0L	10	110	
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.				
supportedGapPattern-NRonly-NEDC-r16	UE	No	No	No
Indicates whether the UE supports gap patterns 2, 3 and 11 in NE-DC when the				
trequencies to be measured within this measurement gap are all NR frequencies.				

## 4.2.9a MeasAndMobParametersMRDC

Definitions for parameters	Per	М	FDD-	FR1-
			TDD DIFF	FR2 DIFF
condHandoverWithSCG-ENDC-r17	UE	No	No	No
Indicates whether the UE supports conditional handover with NR SCG				
configuration for EN-DC. The UE indicating support of this feature shall also				
indicate the support of <i>cho-r16</i> as specified in TS 36.306 [15] and at least one EN-				
DC band combination.	· · · <del>_</del>			
condHandoverWithSCG-NEDC-r17	UE	No	No	No
Indicates whether the UE supports conditional handover with E-UTRA SCG				
indicate the support of condHandover-r16 and at least one NE-DC hand				
condPSCellChangeFDD-TDD-r16	UE	No	No	No
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 both				
FDD and TDD.				
condPSCellChangeFR1-FR2-r16	UE	No	No	No
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 both FR1				
and FR2.		No	No	No
This field indicates whether the LIE supports two independent measurement gap	UE	INO	INO	INO
configurations for FR1 and FR2 as specified in clause 9.1.2 of TS 38.133 [5] while				
the number of configured serving cells is less than or equal to the indicated				
number.				
The capability signaling includes the following parameters:				
- fr1-Only-r17 indicates the maximum number of configured serving cells				
when E-UTRA and NR FR1 serving cells are configured				
- II2-Only-ITT is not applicable when the neu independentGapConing-				
- fr1-AndFR2-r17 indicates the maximum number of configured serving cells				
when E-UTRA and NR FR2 serving cells are configured or when E-UTRA.				
NR FR1 and NR FR2 serving cells are configured.				
The absence of the <i>fr1-Only-r17</i> field indicates that per-FR gap is not supported				
when E-UTRA and NR FR1 serving cells are configured. Absence of the fr1-				
And FR2 field indicates that per-FR-gap is not supported when E-UTRA and NR				
cells are configured. Value "1" or "2" for fr1-Only-r17 or fr1-AndER2-r17 indicates				
the support of per-FR gap when PCell and "1" additional CC are configured				
UE indicating support of this feature in UE-MRDC-Capability shall not indicate				
support of independentGapConfig in UE-MRDC-Capability.				
inter-SN-condPSCellChangeFDD-TDD-ENDC-r17	UE	No	No	No
Indicates whether the UE supports inter SN conditional PSCell change between				
FDD and IDD cells in EN-DC.				
Ine parameter can only be set				
- II IIII-IIIIIIIIIIIIIIIIIIIIIIIIIIII				
InitiatedCondPSCellChange-FR2TDD-FNDC-r17 is supported: or				
- if sn-InitiatedCondPSCellChange-FR1FDD-ENDC-r17 is supported and at				
least one of sn-InitiatedCondPSCellChange-FR1TDD-ENDC-r17 and sn-				
InitiatedCondPSCellChange-FR2TDD-ENDC-r17 is supported.				
inter-SN-condPSCellChangeFDD-TDD-NRDC-r17	UE	No	No	No
Indicates whether the UE supports inter SN conditional PSCell change between				
FUD and TDD cells in NR-DC. The parameter can only be set if <i>mn</i> -				
Initiated CondPSCell Change NRDC-r17 is set for FDD band(s) and TDD band(s), or an initiated CondPSCell Change NRDC r17 is set for FDD band(s) and TDD				
band(s).				

inter-SN-condPSCellChangeFR1-FR2-ENDC-r17	UE	No	No	No
Indicates whether the UE supports inter SN conditional PSCell change between				
FR1 and FR2 cells in EN-DC.				
The parameter can only be set:				
- if mn-InitiatedCondPSCellChange-FR2TDD-ENDC-r17 is supported and at				
least one of mn-InitiatedCondPSCellChange-FR1TDD-ENDC-r17 and mn-				
InitiatedCondPSCellChange-FR1FDD-ENDC-r17 is supported; or				
- if sn-InitiatedCondPSCellChange-FR2TDD-ENDC-r17 is supported and at				
least one of sn-InitiatedCondPSCellChange-FR1TDD-ENDC-r17 and sn-				
InitiatedCondPSCellChange-FR1FDD-ENDC-r17 is supported.				
inter-SN-condPSCellChangeFR1-FR2-NRDC-r17	UE	No	No	No
Indicates whether the UE supports inter SN conditional PSCell change between				
FR1 and FR2 cells. The parameter can only be set if <i>mn</i> -				
InitiatedCondPSCellChangeNRDC-r17 is set for FR1 band(s) and FR2 band(s), or				
sn-InitiatedCondPSCellChangeNRDC-r17 is set for FR1 band(s) and FR2 band(s).				
mn-InitiatedCondPSCellChange-FR1FDD-ENDC-r17	UE	No	No	No
Indicates whether the UE supports MN initiated conditional PSCell change within				
all supported FR1-FDD bands in EN-DC, which is configured by E-UTRA				
conditionalReconfiguration field using MN configured measurement as triggering				
condition. The UE supporting this feature shall also support 2 trigger events for				
same execution condition in MN initiated conditional PSCell change in EN-DC.				
mn-InitiatedCondPSCellChange-FR1TDD-ENDC-r17	UE	No	No	No
Indicates whether the UE supports MN initiated conditional PSCell change within				
all supported FR1-TDD bands in EN-DC, which is configured by E-UTRA				
conditionalReconfiguration field using MN configured measurement as triggering				
condition. The UE supporting this feature shall also support 2 trigger events for				
same execution condition in MN initiated conditional PSCell change in EN-DC.				
mn-InitiatedCondPSCellChange-FR2TDD-ENDC-r17	UE	No	No	No
Indicates whether the UE supports MN initiated conditional PSCell change within			_	-
all supported FR2-TDD bands in EN-DC, which is configured by E-UTRA				
conditionalReconfiguration field using MN configured measurement as triggering				
condition. The UE supporting this feature shall also support 2 trigger events for				
same execution condition in MN initiated conditional PSCell change in EN-DC.				
pscellT312-r16	UE	No	No	No
Indicates whether the UE supports T312 based fast failure recovery for PSCell.				
sn-InitiatedCondPSCellChange-FR1FDD-ENDC-r17	UE	No	No	No
Indicates whether the UE supports SN initiated inter-SN conditional PSCell change				
within all supported FR1-FDD bands in EN-DC, which is configured by E-UTRA				
conditionalReconfiguration field using SN configured measurement as triggering				
condition. The UE supporting this feature shall also support 2 trigger events for				
same execution condition in SN initiated inter-SN conditional PSCell change in				
EN-DC.				
sn-InitiatedCondPSCellChange-FR1TDD-ENDC-r17	UE	No	No	No
Indicates whether the UE supports SN initiated inter-SN conditional PSCell change				
within all supported FR1-TDD bands in EN-DC, which is configured by E-UTRA				
conditionalReconfiguration field using SN configured measurement as triggering				
condition. The UE supporting this feature shall also support 2 trigger events for				
same execution condition in SN initiated inter-SN conditional PSCell change in				
EN-DC.				
sn-InitiatedCondPSCellChange-FR2TDD-ENDC-r17	UE	No	No	No
Indicates whether the UE supports SN initiated inter-SN conditional PSCell change				
within all supported FR2-TDD bands in EN-DC, which is configured by E-UTRA				
conditionalReconfiguration field using SN configured measurement as triggering				
condition. The UE supporting this feature shall also support 2 trigger events for				
same execution condition in SN initiated inter-SN conditional PSCell change in				
EN-DC.				

# 4.2.10 Inter-RAT parameters

Definitions for parameters	Per	М	FDD- TDD
			DIFF
mfbi-EUTRA	UE	Yes	No
Indicates whether the UE supports the mechanisms defined for cells broadcasting multi			
band information i.e. comprehending <i>multiBandInfoList</i> defined in TS 36.331 [17].			
modifiedMPR-BehaviorEUTRA	UE	No	No
modifiedMPR-Behavior in 4.3.5.10, TS 36.306 [15].			
multiNS-Pmax-EUTRA	UE	No	No
<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 voiceFallbackIndication in RRCRelease and MobilityFromNRCommand. If this field is included, the UE shall support IMS voice over	UE	No	No	No
NR and IMS voice over E-UTRA via EPC. 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
<b>voiceOverNR, voiceOverNR-r17</b> Indicates whether the UE supports IMS voice over NR. It is mandated to the UE if the UE is capable of IMS voice over NR (including SNPN if the UE is SNPN capable). 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 (Incl FR2-2 DIFF)
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
0.	0-1	CP-OFDM waveform	1) CP-OFDM for DL	mormation
Waveform,		for DL and UL	2) CP -OFDM for UL	
modulation	0-3	DL modulation scheme	1) QPSK modulation	
, subcarrier			2) 16QAM modulation	
and CP	0.4	LIL modulation schome	OPSK modulation for FRT	
	0-4		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	1), component
				2), component
	1-3	SS block based RI M	SS-SINR measurement	3) except paging
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	
			3) Support 1 symbol EL DMRS and 2 additional DMRS	
			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	
	0.40		symbol	
	2-12	Basic PUSCH	Data RE mapping Single layer (single Tx) transmission	
		ITATISTIISSION	Single nort 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	
			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 FR1	
			4) 8Tx codebook for FR1 when configured as wideband	
			CSI report	
			7) a-CSI on PUSCH (at least Z value >= 14 symbols, detail	
			further check a-CSI on n-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	
	1	1	2) Support periodic/aperiodic SKS transmission	

				[
3. DL	3-1	Basic DL control	1) One configured CORESE I per BWP per cell in addition	
control		channel	to CORESE 10	
channel			- CORESET resource allocation of 6RB bit-map and	
and			duration of 1 – 3 OFDM symbols for FR1	
procedure			- 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	
			<ul> <li>Interleaved and non-interleaved CCE-to-REG mapping</li> </ul>	
			- Precoder-granularity of REG-bundle size	
			- PDCCH DMRS scrambling determination	
			- ICI 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	
			Fulles.	
			- For type 1 CSS with dedicated RRC configuration, type 3	
			2 OEDM everybole of a plot	
			5 OF DIVI Symbols of a side	
			for type 1 CSS without dedicated RRC configuration and	
			any OEDM symbol(s) of a slot, with the monitoring	
			any OFDM symbol(s) of a slot, with the momentum	
			configuration or Type 1- CSS without dedicated RRC	
			within a single span of three consecutive OEDM symbols	
			within a single span of three consecutive OF Divi symbols	
			3) Monitoring DCI formate $0, 0, 1, 0, 0, 1, 1, 1$	
			4) Number of PDCCH blind decedes per slot with a given	
			SCS follows Case 1.1 table	
			5) Processing one unicast DCI scheduling DL and one	
			unicast DCI scheduling LIL per slot per scheduled CC for	
4 UI	4-1	Basic UL control	1) PUCCH format 0 over 1 OEDM symbols once per slot	
control		channel	2) PUCCH format 0 over 2 OEDM symbols once per slot	
channel		onannon	with frequency hopping as "enabled"	
and			3) PUCCH format 1 over 4 – 14 OFDM symbols once per	
procedure			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	
			group for control multiplexing	
	4-10	Dynamic HARQ-ACK	Dynamic HARQ-ACK codebook	
		codebook		

5. Scheduling /HARQ operation	5-1	Basic scheduling/HARQ operation	<ol> <li>Frequency-domain resource allocation         <ul> <li>RA Type 0 only and Type 1 only for PDSCH without interleaving</li> <li>RA Type 1 for PUSCH without interleaving</li> <li>Time-domain resource allocation                 <ul></ul></li></ul></li></ol>	
6. CA/DC, BWP, SUL	6-1	Basic BWP operation with restriction	<ol> <li>1) 1 UE-specific RRC configured DL BWP per carrier</li> <li>2) 1 UE-specific RRC configured UL BWP per carrier</li> <li>3) RRC reconfiguration of any parameters related to BWP</li> <li>4) BW of a UE-specific RRC configured BWP includes BW</li> <li>of CORESET#0 (if CORESET#0 is present) and SSB for</li> <li>PCell/PSCell (if configured) and BW of the UE-specific</li> <li>RRC configured BWP includes SSB for SCell if there is</li> <li>SSB on SCell</li> </ol>	
7. Channel coding	7-1	Channel coding	<ol> <li>LDPC encoding and associated functions for data on DL and UL</li> <li>Polar encoding and associated functions for PBCH, DCI, and UCI</li> <li>Coding for very small blocks</li> </ol>	
8. UL TPC	8-3	Basic power control operation	<ol> <li>Accumulated power control mode for closed loop</li> <li>1 TPC command loop for PUSCH, PUCCH respectively</li> <li>One or multiple DL RS configured for pathloss estimation</li> <li>One or multiple p0-alpha values configured for open loop PC</li> <li>PUSCH power control</li> <li>PUCCH power control</li> <li>PRACH power control</li> <li>SRS power control</li> <li>PHR</li> </ol>	

Features	Index	Feature group	Components	Additional
0. General	N/A	IAB procedures	<ol> <li>Routing using BAP protocol, as specified in TS 38.340</li> <li>[23]</li> <li>Bearer mapping using BAP protocol, as specified in TS 38.340 [23]</li> <li>IAB-node IP address signalling over RRC, as specified in TS 38.331 [9]</li> </ol>	
1. PDCP	1-0	Basic PDCP procedures	<ol> <li>(de)Ciphering on SRB</li> <li>Integrity protection on SRB</li> <li>Timer based SDU discard</li> <li>Re-ordering and in-order delivery</li> <li>Duplicate discarding</li> <li>18bits SN</li> </ol>	
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	<ol> <li>1) RA procedure on PCell</li> <li>2) IAB-MT initiated RA procedure (including for beam recovery purpose)</li> <li>3) NW initiated RA procedure (i.e. based on PDCCH)</li> <li>4) Support of ssb-Threshold and association between preamble/PRACH occasion and SSB</li> <li>5) Preamble grouping</li> <li>6) UL single TA maintenance</li> <li>7) HARQ operation for DL and UL</li> <li>8) LCH prioritization</li> <li>9) Prioritized bit rate</li> <li>10) Multiplexing</li> <li>11) SR with single SR configuration</li> <li>12) BSR</li> <li>13) PHR</li> <li>14) 8bits and 16bits L field</li> </ol>	
9. RRC	9-1 9-2	RRC buffer size 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-DetectionRecovery-Indication-r17	IAB-	No	No	No
Indicates whether the IAB-MT supports BH RLF detection indication and BH RLF recovery indication handling as specified in TS 38.340 [23]	MT			
bh-RLF-Indication-r16	IAB-	No	No	No
Indicates whether the IAB-MT supports BH RLF indication handling as specified in TS 38.331 [9] and in TS 38.340 [23]	MT			
directSN-AdditionFirstRRC-IAB-r16	IAB-	No	No	No
Indicates whether the IAB-MT supports direct SN addition in the first RRC connection reconfiguration after RRC connection establishment.	MT			

### 4.2.15.3 SDAP Parameters

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

### 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	MT			
specified in TS 38.331 [9].				

## 4.2.15.5 BAP Parameters

Definitions for parameters	Per	М	FDD- TDD DIFF	FR1- FR2 DIFF
bapHeaderRewriting-Rerouting-r17	IAB-	No	No	No
Indicates whether the IAB-MT supports BAP header rewriting for inter-donor-DU re- routing, as specified in TS 38.340 [23] and TS 38.300 [28]. IAB-donor-DUs can belong to the same or different IAB-donor CUs.	MT			
bapHeaderRewriting-Routing-r17	IAB-	No	No	No
Indicates whether the IAB-MT supports BAP header rewriting for inter-donor CU partial migration, inter-donor-CU RLF recovery and inter-donor-CU topology redundancy, as specified in TS 38.340 [23] and TS38.300 [28].	MT			
flowControlBH-RLC-ChannelBased-r16	IAB-	No	No	No
Indicates whether the IAB-MT supports flow control procedures and flow control feedback per backhaul RLC channel, as specified in TS 38.340 [23].	MT			
flowControlRouting-ID-Based-r16	IAB-	No	No	No
Indicates whether the IAB-MT supports flow control procedures and flow control feedback per Routing ID, as specified in TS 38.340 [23].	MT			

### 4.2.15.6 MAC Parameters

Definitions for parameters	Per	М	FDD- TDD DIFF	FR1- FR2 DIFF
Icg-ExtensionIAB-r17	IAB-	No	No	No
Indicates whether the IAB-MT supports extended logical channel group as specified	MT			
in TS 38.321 [8]. A UE supporting this feature shall also support Extended Buffer				
Status Report formats and Extended Pre-emptive BSR formats (if <i>preEmptiveBSR</i> -				
r16 is supported).				
Icid-ExtensionIAB-r16	IAB-	No	No	No
Indicates whether the IAB-MT supports extended Logical Channel ID space using	MT			
two-octet eLCID, as specified in TS 38.321 [8].				
preEmptiveBSR-r16	IAB-	No	No	No
Indicates whether the IAB-MT supports Pre-emptive BSR as specified in TS 38.321	MT			
[8].				

## 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
<b>handoverIntraF-IAB-r16</b> 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

Loge         Loge <thloge< th="">         Loge         Loge         <thl< th=""><th>Definitions for parameters</th><th>Per</th><th>М</th><th>FDD-</th><th>FR1-</th></thl<></thloge<>	Definitions for parameters	Per	М	FDD-	FR1-
case5-TimingAlignmentReception-IAB+17         IAB         No         No         No           Indicates whether the IAB-MT supports case 6 timing alignment reception and signaling to the parent-node that case 6 timing mode is required for simultaneous         IAB         No         No         No           Indicates whether the IAB-MT supports case 7 timing affset indication reception and case 7 timing at parent-node indication reception as specified in TS 38.213 [11].         IAB         No         No         No           Indicates whether the IAB-MT supports Case 7 timing affset indication reception and precording for signel-sayer PUSCH.         IAB         No         No         No           Indicates the support of monitoring DCI Format 2. 5 scrambled by AI-RNTI for indicates the support of directional collision handling between MCG and SCG cell(s) of the dual parent nodes for simultaneous operation in inter-donor and/or intra-donor         IAB         No         No         No           Indicates the support of desired DL Tx power algustment reporting and DL Tx power algustment faces the support of desired DL Tx power algustment reporting and DL Tx power algustment reception.         IAB         No         No         No           Indicates the support of desired DL Tx power algustment caseeff and case#7 as gustom faces/table/tab				TDD DIFF	FR2 DIFF
Indicates whether the IAB-MT supports case 6 timing alignment reception and signaling to the parent-node that case 6 timing mode is required for simultaneous transmission as specified in TS 38.213 [11].         Image: Charling and Ch	case6-TimingAlignmentReception-IAB-r17	IAB	No	No	No
Transmission as specified in TS 38.213 (11).         Indication of the product of aniholandod of the product	Indicates whether the IAB-MT supports case 6 timing alignment reception and signalling to the parent-node that case 6 timing mode is required for simultaneous	-MT			
case-7-triming/Alignment/Reception-AB-r17         IAB         No         No         No           Indicates whether the IAB-MT supports case 7 timing offset indication reception and case 7 timing at parent-node indication reception as specified in TS 38.213 [11].         IAB         No         No         No           Idf:SOFDM/WaveformUL-AB-r16         IAB         No         No         No         No           Indicates the support of moring DCI Format 2.5 scrambled by AI-RNT1 for indication of soft resource availability to an IAB node as specified in TS 38.212 [10].         IAB         No         No         No           Indicates the support for directional collision handling between MCG and SCG coll(s)         -MT         No         No         No           Indicates the support of directional collision handling between MCG and SCG coll(s)         -MT         No         No         No           Indicates the support of desired DL Tx power adjustment reception.         -MT         IAB         No         No         No           Indicates the support of desired IAB-MT PSD range reporting.         -MT         IAB         No         No         No           Indicates the support of DE-IGMALSymbols reception.         IAB         No         No         No         No           Indicates the support of DE-IGMALSymbols reception gand         FortidAB-ADA         -MT         IAB <t< td=""><td>transmission as specified in TS 38.213 [11].</td><td></td><td></td><td></td><td></td></t<>	transmission as specified in TS 38.213 [11].				
Indicates whether the IAB-MT supports case 7 timing offset indication reception and case 7 timing at parent-node indication reception as specified in TS 38.213 [11]. dtts-OPDM-WaveformUL-IAB-r16 Indicates the support of monitoring DCI Format 2_5 scrambled by AI-RNT1 for indication store Support for Support PS-OFDM waveform for UL and transform Indicates the support of monitoring DCI Format 2_5 scrambled by AI-RNT1 for indication store Support for Support PS-OFDM waveform and/or intra-donor C operation. Indicates the support of monitoring DCI Format 2_5 scrambled by AI-RNT1 for Indicates the support of monitoring DCI Format 2_5 scrambled by AI-RNT1 for IAB Indicates the support of monitoring DCI Format 2_5 scrambled by AI-RNT1 for Indicates the support of actional collision handling between MCG and SCG cell(s) of the dual parent nodes for simultaneous operation in inter-donor and/or intra-donor C operation. Ide:scred-Vark/IU-PowerAdjustment-r17 Indicates the support of monitoring DCI Format 2_5 scrambled by AI-RNT1 for Indicates the support of monitoring DCI Format 2_5 scrambled by AI-RNT1 for Indicates the support of monitoring DCI Format 2_5 scrambled by AI-RNT1 for Indicates the support of monitoring DCI Format 2_5 scrambled by AI-RNT1 for Indicates the support of monitoring DCI Format 2_5 scrambled by AI-RNT1 for Indicates the support of monitoring DCI Format 2_5 scrambled by AI-RNT1 for Indicates the support of monitoring DCI Format 2_5 scrambled by AI-RNT1 for Indicates the support of monitoring DCI Format 2_5 scrambled by AI-RNT1 for Indicates the support of monitoring DCI Format 2_5 scrambled by AI-RNT1 for Indicates the support of monitoring DCI Format 2_5 scrambled by AI-RNT1 for Indicates the support of monitoring DCI Format 2_5 scrambled by AI-RNT1 for Indicates the support of monitoring DCI Format 2_5 scrambled by AI-RNT1 for Indicates the support of monitoring DCI Format 2_5 scrambled by AI-RNT1 for Indicates the support of monitoring DCI Format 2_5 scrambled by AI-RNT1 for Indicates the support of	case7-TimingAlignmentReception-IAB-r17	IAB	No	No	No
Lase / mining al parentificitie function face public as specified in TS 35.2.15 [11].         IAB         No         No           Indicates whether the IAB-MT supports DFT-S-OFDM waveform for UL and transform         -MT         -MT         -MT           precoding for single-layer PUSCH.         IAB         No         No         No           Indicates the support of motioning 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         No         No         No           Indicates the support of discretional collision handling between MCG and SCG cell(s) of the dual parent nodes for simultaneous operation in inter-donor and/or intra-donor         IAB         No         No         No           Indicates the support of desired DL Tx power adjustment reporting and DL Tx power adjustment reception.         IAB         No         No         No           Indicates the support of desired IAB-MT PSD range reporting.         -MT         IAB         No         No         No           Indicates the support of Desired (IAB-MT PSD range reporting and ProvidedGuardSymbols         -MT         IAB         No         No         No           Indicates the support of DesiredGuardSymbols reporting and ProvidedGuardSymbols reception-IAB-r16         IAB         No         No         No           Indicates the support of DesiredGuardSymbols reporting and ProvidedGuardSymbols rece	Indicates whether the IAB-MT supports case 7 timing offset indication reception and	-MT			
Indicates whether the IAB-MT supports DFT-S-OFDM waveform for UL and transform         -MT         No         No           reccding for single-layer PUSCH.         IAB         No         No         No         No           rdicates the support of monitoring DCI format 2_5 scrambled by AI-RNTI for indicates the support of directional collision handling between MCG and SCG cell(s)         IAB         No         No         No           of the dual parent nodes for simultaneous operation in inter-donor and/or intra-donor         IAB         No         No         No           DC operation.         desired-IAF-PowerAdjustment-PT         IAB         No         No         No           Indicates the support of Desired IAB-MT PSD range reporting.         -MT         IAB         No         No         No           Indicates the support of desired DL Tx power adjustment reporting and ProvidedGuardSymbols         IAB         No         No         No           Indicates the support of DesiredGuardSymbols reporting and ProvidedGuardSymbols         -MT         IAB         No         No         No           Indicates the support of extended DesiredGuardSymbols reporting and ProvidedGuardSymbols         IAB         No         No         No           Indicates the support of monitoring DCI Format 2_5 scrambled by AI-RNT for indicates the support of extended DesiredGuardSymbols receproting and ProvidedGuardSymbols         IAB </td <td>dft-S-OFDM-WaveformUL-IAB-r16</td> <td>IAB</td> <td>No</td> <td>No</td> <td>No</td>	dft-S-OFDM-WaveformUL-IAB-r16	IAB	No	No	No
precoding for single-layer PUSCH.         Image: Control of the support of monitoring DCI Format 2_5 scrambled by ALRNTI for indication of soft resource availability to an IAB node as specified in TS 38.212 [10].         No         No           Indicates the support of increational collision handling between MCG and SCG cell(s)         IAB         No         No           Indicates the support of desired DL Tx power adjustment reporting and DL Tx power adjustment reception.         IAB         No         No         No           Indicates the support of desired IAB-MT PSD range reporting.         IAB         No         No         No           Indicates the support of besired IAB-MT PSD range reporting.         IAB         No         No         No           Indicates the support of Desired IAB-MT PSD range reporting.         IAB         No         No         No           Indicates the support of Desired IAB-MT PSD range reporting.         IAB         No         No         No           Indicates the support of Desired IAB-MT PSD range reporting and ProvidedGuardSymbols         IAB         No         No         No           Indicates the support of DesiredGuardSymbols reporting and ProvidedGuardSymbols         IAB         No         No         No           Indicates the support of basicefGuardSymbols reporting and ProvidedGuardSymbols reporting and ProvidedGuardSymbols         IAB         No         No         No	Indicates whether the IAB-MT supports DFT-S-OFDM waveform for UL and transform	-MT			
Idc:23-AI-KN II-Support-AIA-716         IAB         No         No         No           Indicates the support of motioning 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         No         No           Indicates the support of control of disrectional collision handling between MCG and SCG cell(s) of the dual parent nodes for simultaneous operation.         IAB         No         No         No           Indicates the support of desired DL Tx power adjustment reporting and DL Tx power adjustment reception.         IAB         No         No         No           Indicates the support of desired IAB-MT PSD range reporting.         IAB         No         No         No           Indicates the support of notioning DCI Format 2_5 scrambled by AI-RNTI for indicates the support of notioning DCI Format 2_5 scrambled by AI-RNTI for indicates the support of notioning DCI Format 2_5 scrambled by AI-RNTI for indicates the support of extended DasiredGuardSymbols reporting and ProvidedGuardSymbols reporting and ProvidedGuardSymbols reception as specified in TS 38.213 [11].         IAB         No         No         No           Indicates the support of extended DesiredGuardSymbols reporting and ProvidedGuardSymbols reception to the secure on support a certain timing mode (Case 6, Case 7), the reported/provided values shall be ignored.         IAB         No         No         No           Indicates the support of this feature shall also indicate suport of the reported/provided values shall be ignored	precoding for single-layer PUSCH.				
Indication of soft resource availability to an IAB node as specified in TS 33.212 [10].         IAB         No         No           Indicates the support of indicates availability to an IAB node as specified in TS 33.212 [10].         IAB         No         No           Indicates the support of indicational collision handling between MCG and SCG cell(s) of the dual parent nodes for simultaneous operation in inter-donor and/or intra-donor DC operation.         IAB         No         No         No           Indicates the support of cleared IAB-HT power adjustment reporting and DL Tx power adjustment reception.         IAB         No         No         No           Indicates the support of cleared IAB-HT PSD range reporting.         IAB         No         No         No           Indicates the support of monitoring DCI Format 2.5 scrambled by AI-RNTI for indicates the support of monitoring DCI Format 2.5 scrambled by AI-RNTI for indicates the support of Desired/AuradSymbols reporting and ProvidedGuardSymbols         IAB         No         No           guardSymbolReportReception-IAB-r16 Indicates the support of basined/AuradSymbols reporting and Provided/GuardSymbols reception in one witching scenarios case#6 and case#7 as specified in TS38.213 [11].         IAB         No         No         No           UE indicating support of this feature shall also indicate support of one or more of case6-TimingAlignmentReception-IAB-r17 rot for reported/provided values shall be ignored.         IAB         No         No         No           pucc	dci-25-AI-RN II-Support-IAB-r16		NO	NO	NO
InfectionalCollisionDC-IAB-r17         IAB         No         No         No           Indicates the support of releational collision handling between MCG and SCG cell(s)         -MT         No         No           Idract-RowerAdjustment-IAB-r17         IAB         No         No         No           Indicates the support of desired DL Tx power adjustment reporting and DL Tx power         -MT         No         No           Indicates the support of Desired IAB-MT PSD range reporting.         -MT         No         No         No           Indicates the support of Desired IAB-MT PSD range reporting.         -MT         IAB         No         No         No           Indicates the support of DesiredCuardSymbols reporting and ProvidedGuardSymbols         -MT         No         No         No           Indicates the support of DesiredCuardSymbols reporting and ProvidedGuardSymbols         -MT         -MT         No         No           Indicates the support of DesiredCuardSymbols reporting and ProvidedGuardSymbols         -MT         No         No         No           Indicates the support of the feature shall also indicate support of one or more of case67-TimingAlignmentReception-IAB-r17         IAB         No         No         No           Indicates whether the IAB-MT supports receiving PDSCH using PDSCH mapping type I         IAB         No         No <td< td=""><td>indicates the support of monitoring Dornormat 2_5 scrambled by AFRITION indication of soft resource availability to an IAB node as specified in TS 38.212 [10].</td><td></td><td></td><td></td><td></td></td<>	indicates the support of monitoring Dornormat 2_5 scrambled by AFRITION indication of soft resource availability to an IAB node as specified in TS 38.212 [10].				
Indicates the support for directional collision handling between MCG and SCG cell(s)       -MT         Of the dual parent nodes for simultaneous operation in inter-donor and/or intra-donor       -MT         Idtrx-PowerAdjustment/IB-r17       IAB       No       No         Indicates the support of desired DL Tx power adjustment reporting and DL Tx power       -MT       -MT         Indicates the support of Desired IAB-MT PSD range reporting.       -MT       IAB       No       No         Indicates the support of monitoring DCI Format 2, 5 scrambled by AI-RNTI for indication of PMS ottresource availability to an IAB-node.       -MT       No       No       No         Indicates the support of DesiredGuardSymbols reporting and ProvidedGuardSymbols       IAB       No       No       No       No         Indicates the support of DesiredGuardSymbols reporting and ProvidedGuardSymbols       -MT       -MT       -MT         Indicates the support of the steature shall also indicate support of one or more of case/TimingAignmentReception-IAB-r17       IAB       No       No       No         Indicates the support of Its feature shall also indicate support of one or more of case/TimingAignmentReception-IAB-r17       IAB       No       No       No         Indicates whether the IAB-MT supports receiving PDSCH using PDSCH mapping type       IAB       No       No       No         Indicates whether the IAB-MT supports	directionalCollisionDC-IAB-r17	IAB	No	No	No
Dr. De data partier.       IAB       No       No         DC operation.       IAB       No       No       No         Indicates the support of Desired IAB-MT PSD range reporting.       IAB       No       No       No         Indicates the support of Desired IAB-MT PSD range reporting.       IAB       No       No       No         Indicates the support of Desired IAB-MT PSD range reporting.       IAB       No       No       No         Indicates the support of monitoring DCI Format 2_5 scrambled by AI-RNTI for indication of FDM soft resource availability to an IAB-node.       IAB       No       No       No         Indicates the support of Desired/BardSymbols reporting and ProvidedGuardSymbols reception-IAB-r16       IAB       No       No       No         Indicates the support of this feature shall also indicate support of one or more of case6-TimingAlignmentReception-IAB-r17       IAB       No       No       No         Indicates the support of this feature shall also indicate support of one or more of case6-TimingAlignmentReception-IAB-r17       IAB       No       No       No         IVE indicating support of this feature shall also indicate support of one or more of case6-TimingAlignmentReception-IAB-r17       IAB       No       No       No         IVE indicates whether the IAB-MT supports receiving PDSCH using PDSCH mapping type       -MT       -MT       -MT<	Indicates the support for directional collision handling between MCG and SCG cell(s)	-MT			
dI-tz-PowerAdjustment-IAB-r17       IAB       No       No       No         Indicates the support of desired DL Tx power adjustment reporting and DL Tx power       IAB       No       No         desired-uI-tx-PowerAdjustment-r17       IAB       No       No       No         Indicates the support of besired IAB-MT PSD range reporting.       -MT       IAB       No       No         Indicates the support of monitoring DCI Format 2, 5 scrambled by AI-RNTI for       IAB       No       No       No         Indicates the support of besiredGuardSymbols reporting and ProvidedGuardSymbols       IAB       No       No       No         Indicates the support of besiredGuardSymbols reporting and       IAB       No       No       No         Indicates the support of this feature shall also indicate support of one or more of case6-TimingAlignmentReception-IAB-r17 and caser 7-TimingAlignmentReception-IAB-r17       IAB       No       No         Indicates whether the IAB-MT supports receiving PDSCH mapping type       IAB       No       No       No         Indicates whether the IAB-MT supports transmission of a PUCCH format 2 (2 OFDM       IAB       No       No       No         Indicates whether the IAB-MT supports transmission of a PUCCH format 3 (4-14       -MT       MT       No       No       No       Yees         Indicates whether the	DC operation.				
Indicates the support of desired DL Tx power adjustment reporting and DL Tx power       -MT         desired-ut-/x-PowerAdjustment-r17       IAB       No       No         Indicates the support of Desired IAB-MT PSD range reporting.       -MT       IAB       No       No         Indicates the support of monitoring DCI Format 2_5 scrambled by AI-RNTI for indication of PDM soft resource availability to an IAB-node.       IAB       No       No       No <i>guardSymbolReportReception-IAB-r16</i> IAB       No       No       No       No         Indicates the support of extended DesiredGuardSymbols reporting and ProvidedGuardSymbols reporting and ProvidedGuardSymbols reporting and ProvidedGuardSymbols reporting and ProvidedGuardSymbols reception to new switching scenarios case#6 and case#7 as specified in TS38.213 [11].       IAB       No       No       No         UE indicates the support of this feature shall also indicate support of one or more of case6-TimingAlignmentReception-IAB-r17 and case7-TimingAlignmentReception-IAB-r17.       IAB       No       No       No         NOTE:       If an IAB node does not support a certain timing mode (Case 6, Case 7), the reported/provided values shall be ignored.       IAB       No       No       No         Pdcsh-MappingTypeA       IAB       No       No       No       Yes         Indicates whether the IAB-MT supports transmission of a PUCCH format 2 (2 OFDM       IAB       No	dl-tx-PowerAdjustment-IAB-r17	IAB	No	No	No
adjustment reception.       IAB       No       No         Indicates the support of Desired IAB-MT PSD range reporting.       IAB       No       No       No         Indicates the support of Desired IAB-MT PSD range reporting.       IAB       No       No       No         Indicates the support of monitoring DCI Format 2_5 scrambled by AI-RNTI for       IAB       No       No       No         Indicates the support of DesiredGuardSymbols reporting and ProvidedGuardSymbols       IAB       No       No       No         guardSymbolReportReception-IAB-16       IAB       No       No       No       No       No         Indicates the support of extended DesiredGuardSymbols reporting and ProvidedGuardSymbols reception in S38.213 [11].       IAB       No       No       No       No         ProvidedGuardSymbols reception-IAB-17       IAB indicates whether the IAB-MT supports a certain timing mode (Case 6, Case 7), the reported/provided values shall be ignored.       IAB       No       No       No         Indicates whether the IAB-MT supports transmission of a PUCCH format 2 (2 OFDM       IAB       No       No       Yes         Indicates whether the IAB-MT supports transmission of a PUCCH format 3 (4-14       -MT       No       No       Yes         OFDM symbols in total) with frequency hopping in a slot.       IAB       No       No	Indicates the support of desired DL Tx power adjustment reporting and DL Tx power	-MT			
Indicates the support of Desired IABMT PSD range reporting.         INT         INT <thint< th="">         INT</thint<>	adjustment reception.	IAR	No	No	No
Idm. SoftResourceAvailability-DynamicIndication-r17         IAB         No         No         No           Indicates the support of monitoring DCI Format 2_5 scrambled by AI-RNTI for indication of FDM soft resource availability to an IAB-node.         IAB         No         No         No           guardSymbolReportReception-IAB-r16         IAB         No         No         No         No           indicates the support of DesiredGuardSymbols reporting and ProvidedGuardSymbols         IAB         No         No         No           guardSymbolReportReception-IAB-r17         Indicates the support of extended DesiredGuardSymbols reporting and ProvidedGuardSymbols reception to new switching scenarios case#6 and case#7 as specified in TS38.213 [11].         IAB         No         No         No           UE indicating support of this feature shall also indicate support of one or more of case6-TimingAlignmentReception-IAB-r17 and case7-TimingAlignmentReception-IAB- r17.         IAB         No         No         No           NOTE:         If an IAB node does not support a certain timing mode (Case 6, Case 7), the reported/provided values shall be ignored.         IAB         No         No         No         MT           A with less than seven symbols.         IAB         No         No         No         MT           Pucch-F2-WithFH         IAB         No         No         No         No         MT	Indicates the support of Desired IAB-MT PSD range reporting.	-MT			
Indicates the support of monitoring DCI Format 2_5 scrambled by AI-RNTI for -MT - MT	fdm-SoftResourceAvailability-DynamicIndication-r17	IAB	No	No	No
Indication of PDMCReportReception-IAB-r16       IAB       No       No         Indicates the support of DesiredGuardSymbols reporting and ProvidedGuardSymbols       -MT       No       No         guardSymbolReportReception-IAB-r17       IAB       No       No       No         Indicates the support of extended DesiredGuardSymbols reporting and       -MT       IAB       No       No         ProvidedGuardSymbols reception to new switching scenarios case#6 and case#7 as       Specified in TS38.213 [11].       IAB       No       No       No         UE indicating support of this feature shall also indicate support of one or more of case6-TimingAlignmentReception-IAB-r17 and case7-TimingAlignmentReception-IAB-r17.       IAB       No       No       No         Pdsch-MappingTypeA       If an IAB node does not support a certain timing mode (Case 6, Case 7), the reported/provided values shall be ignored.       IAB       No       No       No         Pdsch-MappingTypeA       IAB       No       No       No       No       No         Indicates whether the IAB-MT supports transmission of a PUCCH format 2 (2 OFDM symbols in total) with frequency hopping in a slot.       IAB       No       No       No         Pucch-F2-WithFH       IAB-DU beam Reception       IAB       No       No       No       No         Indicates whether the IAB-MT supports transmission of	Indicates the support of monitoring DCI Format 2_5 scrambled by AI-RNTI for	-MT			
Indicates the support of DesiredGuardSymbols reporting and ProvidedGuardSymbols       -MT         Indicates the support of extended DesiredGuardSymbols reporting and       IAB       No       No         ProvidedGuardSymbols reception to new switching scenarios case#6 and case#7 as specified in TS 38.213 [11].       IAB       No       No         UE indicating support of this feature shall also indicate support of one or more of case6-TimingAlignmentReception-IAB-r17 and case7-TimingAlignmentReception-IAB-r17.       IAB       No       No         NOTE:       If an IAB node does not support a certain timing mode (Case 6, Case 7), the reported/provided values shall be ignored.       IAB       No       No         Pdsch-MappingTypeA       IAB       No       No       No       No         Indicates whether the IAB-MT supports receiving PDSCH using PDSCH mapping type       IAB       No       No       Yes         Indicates whether the IAB-MT supports transmission of a PUCCH format 2 (2 OFDM       IAB       No       No       Yes         Indicates whether the IAB-MT supports transmission of a PUCCH format 3 (4–14       -MT       IAB       No       No       Yes         Indicates the support of restricted IAB-DU beam reception.       IAB       No       No       No       No       Yes         Indicates the support of restricted IAB-MT beamTransmission of a DL and UL       -MT       IAB	quardSvmbolReportReception-IAB-r16	IAB	No	No	No
reception as specified in TS 38.213 [11].       IAB       No         guardSymbolReportReception-IAB-r17       IAB       No       No         Indicates the support of extended DesiredGuardSymbols reporting and ProvidedGuardSymbols reception to new switching scenarios case#6 and case#7 as specified in TS38.213 [11].       IAB       No       No         UE indicating support of this feature shall also indicate support of one or more of case6-TimingAlignmentReception-IAB-r17 and case7-TimingAlignmentReception-IAB- r17.       IAB       No       No         NOTE:       If an IAB node does not support a certain timing mode (Case 6, Case 7), the reported/provided values shall be ignored.       IAB       No       No         pdsch-MappingTypeA       IAB       No       No       No       No         Indicates whether the IAB-MT supports receiving PDSCH using PDSCH mapping type A with less than seven symbols.       IAB       No       No       Yes         pucch-F3-WithFH       IAB-IAB-MT supports transmission of a PUCCH format 2 (2 OFDM symbols in total) with frequency hopping in a slot.       IAB       No       No       Yes         OFDM symbols in total) with frequency hopping in a slot.       -MT       -MT       IAB       No       No       No         Pucch-F3-WithFH       IAB-IAT-IAB-MT-BeamTransmission-r17       IAB       No       No       No       No         Indicates the suppo	Indicates the support of DesiredGuardSymbols reporting and ProvidedGuardSymbols	-MT			
guarasymbolkeportreception-IAB-T1       IAB       No       No       No         Indicates the support of extended DesiredGuardSymbols reporting and       -MT       -MT       -MT         ProvidedGuardSymbols reception to new switching scenarios case#6 and case#7 as specified in TS38.213 [11].       -MT       -MT       -MT         UE indicating support of this feature shall also indicate support of one or more of case6-TimingAlignmentReception-IAB-r17 and case7-TimingAlignmentReception-IAB-r17.       NO       No       No         NOTE:       If an IAB node does not support a certain timing mode (Case 6, Case 7), the reported/provided values shall be ignored.       IAB       No       No       No         pdsch-MappingTypeA       IAB       No       No       No       No       No       No         ndicates whether the IAB-MT supports receiving PDSCH using PDSCH mapping type       IAB       No       No       Yes         nucleates whether the IAB-MT supports transmission of a PUCCH format 2 (2 OFDM       IAB       No       No       Yes         Indicates whether the IAB-MT supports transmission of a PUCCH format 3 (4~14       IAB       No       No       No         OFDM symbols in total) with frequency hopping in a slot.       IAB       No       No       No       No         restricted-IAB-DU-BeamReception-r17       IAB       No       No	reception as specified in TS 38.213 [11].				
Image: Second Symbols       Image: Second Symbols       Image: Second Symbols       Image: Second Symbols         Image: Second Symbols       Reception to new switching scenarios case#6 and case#7 as specified in TS38.213 [11].       Image: Symbols	guardSymbolReportReception-IAB-r17 Indicates the support of extended DesiredGuardSymbols reporting and	-MT	NO	NO	NO
specified in TS38.213 [11].       UE indicating support of this feature shall also indicate support of one or more of case6-TimingAlignmentReception-IAB-r17 and case7-TimingAlignmentReception-IAB-r17.       NOTE: If an IAB node does not support a certain timing mode (Case 6, Case 7), the reported/provided values shall be ignored.       IAB       No       No         pdsch-MappingTypeA       IAB-MT supports receiving PDSCH using PDSCH mapping type       IAB       No       No         ndicates whether the IAB-MT supports receiving PDSCH using PDSCH format 2 (2 OFDM       IAB       No       No         pucch-F2-WithFH       Indicates whether the IAB-MT supports transmission of a PUCCH format 2 (2 OFDM       IAB       No       No         symbols in total) with frequency hopping in a slot.       IAB       No       No       Yes         Indicates whether the IAB-MT supports transmission of a PUCCH format 3 (4-14       -MT       -MT       No       No         OFDM symbols in total) with frequency hopping in a slot.       IAB       No       No       No       No         restricted-IAB-DU-BeamReception-r17       IAB       No       No       No       No         Indicates the support of restricted IAB-DU beam reception.       -MT       -MT       No       No         restricted-IAB-MT-BeamTransmission-r17       IAB       No       No       No       No         Indicat	ProvidedGuardSymbols reception to new switching scenarios case#6 and case#7 as				
UE indicating support of this feature shall also indicate support of one or more of case6-TimingAlignmentReception-IAB-r17 and case7-TimingAlignmentReception-IAB-r17.       Image: State St	specified in TS38.213 [11].				
DeterminingAlignmentReception-IAB-r17 and case7-TimingAlignmentReception-IAB- r17.       IAB       No       No         NOTE:       If an IAB node does not support a certain timing MignmentReception-IAB- r17.       IAB       No       No         pdsch-MappingTypeA       IAB       No       No       No         Indicates whether the IAB-MT supports receiving PDSCH using PDSCH mapping type       IAB       No       No         A with less than seven symbols.       IAB       No       No       Yes         Indicates whether the IAB-MT supports transmission of a PUCCH format 2 (2 OFDM       IAB       No       No         symbols in total) with frequency hopping in a slot.       IAB       No       No       Yes         Indicates whether the IAB-MT supports transmission of a PUCCH format 3 (4~14       IAB       No       No       Yes         OFDM symbols in total) with frequency hopping in a slot.       IAB       No       No       No       No         restricted-IAB-DU-BeamReception-r17       IAB       No       No       No       No       No         Indicates the support of restricted IAB-DU beam reception.       -MT       IAB       No       No       No         Indicates the support of recommended IAB-MT beam transmission for DL and UL       -MT       IAB       No       No <t< td=""><td>LIE indicating support of this feature shall also indicate support of one or more of</td><td></td><td></td><td></td><td></td></t<>	LIE indicating support of this feature shall also indicate support of one or more of				
r17.       NOTE:       If an IAB node does not support a certain timing mode (Case 6, Case 7), the reported/provided values shall be ignored.       IAB       No       No         pdsch-MappingTypeA       IAB       No       No       No       No         A with less than seven symbols.       IAB       No       No       Yes         Jucch-F2-WithFH       IAB       No       No       Yes         Indicates whether the IAB-MT supports transmission of a PUCCH format 2 (2 OFDM       IAB       No       No       Yes         Indicates whether the IAB-MT supports transmission of a PUCCH format 3 (4~14       IAB       No       No       Yes         Indicates whether the IAB-MT supports transmission of a PUCCH format 3 (4~14       IAB       No       No       Yes         Indicates whether the IAB-MT supports transmission of a PUCCH format 3 (4~14       -MT       MT       No       No       Yes         Indicates whether the IAB-MT-BeamReception.r17       IAB       No       No       No       No         Indicates the support of recommended IAB-MT beam transmission for DL and UL       -MT       -MT       IAB       No       No       No         Indicates the support of up to 4 SMTCs configurations per frequency location, including IAB-specific SMTC window periodicities.       IAB       No       No       No	case6-TimingAlignmentReception-IAB-r17 and case7-TimingAlignmentReception-IAB-				
NO1E:       If an IAB node does not support a certain timing mode (Case 6, Case 7), the reported/provided values shall be ignored.       IAB       No       No         pdsch-MappingTypeA       IAB       No       No       No       No         A with less than seven symbols.       IAB       No       No       No       No         pucch-F2-WithFH       IAB       No       No       Yes         Indicates whether the IAB-MT supports transmission of a PUCCH format 2 (2 OFDM       IAB       No       No       Yes         Indicates whether the IAB-MT supports transmission of a PUCCH format 3 (4~14       IAB       No       No       Yes         Indicates whether the IAB-MT supports transmission of a PUCCH format 3 (4~14       IAB       No       No       Yes         Indicates whether the IAB-MT supports transmission of a PUCCH format 3 (4~14       -MT       -MT       -MT         OFDM symbols in total) with frequency hopping in a slot.       IAB       No       No       No         restricted-IAB-DU-BeamReception-r17       IAB       No       No       No       No         Indicates the support of recommended IAB-MT beam transmission for DL and UL       -MT       -MT       -MT         beam.       separateRACH-IAB-Support-r16       IAB       No       No       No <t< td=""><td>r17.</td><td></td><td></td><td></td><td></td></t<>	r17.				
IndexterIndexterIABNoNopdsch-MappingTypeAIABNoNoNoIndicates whether the IAB-MT supports receiving PDSCH using PDSCH mapping typeIABNoNoPucch-F2-WithFHIAB-MT supports transmission of a PUCCH format 2 (2 OFDMIABNoNoSymbols in total) with frequency hopping in a slot.IABNoNoYesPucch-F3-WithFHIAB-MT supports transmission of a PUCCH format 3 (4~14-MTNoNoOFDM symbols in total) with frequency hopping in a slot.IABNoNoYesrestricted-IAB-DU-BeamReception-r17IABNoNoNoIndicates the support of restricted IAB-DU beam receptionMTNoNorecommended-IAB-MT-BeamTransmission-r17IABNoNoNoIndicates the support of recommended IAB-MT beam transmission for DL and UL-MTNoNobeamseparateSMTC-InterIAB-Support-r16IABNoNoNoNoIndicates the support of separate RACH configurations per frequency location, including IAB-specific SMTC window periodicitiesseparateRACH-IAB-Support-r16IABNoNoNo.NoIndicates the support of separate RACH configurations including new IAB-specificoffset and scaling factorstheta the support of T_delta reception for case 1 OTA timing alignment as<	NOTE: If an IAB node does not support a certain timing mode (Case 6, Case 7), the reported/provided values shall be ignored				
Indicates whether the IAB-MT supports receiving PDSCH using PDSCH mapping type A with less than seven symbolsMT-MT <i>pucch-F2-WithFH</i> Indicates whether the IAB-MT supports transmission of a PUCCH format 2 (2 OFDM symbols in total) with frequency hopping in a slot.IAB -MTNoNoYes <i>pucch-F3-WithFH</i> Indicates whether the IAB-MT supports transmission of a PUCCH format 3 (4–14IAB -MTNoNoYes <i>pucch-F3-WithFH</i> Indicates whether the IAB-MT supports transmission of a PUCCH format 3 (4–14IAB -MTNoNoYesOFDM symbols in total) with frequency hopping in a slot.IAB -MTNoNoNoYes <i>restricted-IAB-DU-BeamReception-r17</i> Indicates the support of restricted IAB-DU beam reception.IAB -MTNoNoNoNo <i>restricted-IAB-MT-BeamTransmission-r17</i> Indicates the support of recommended IAB-MT beam transmission for DL and UL beam.IAB -MTNoNoNoNo <i>separateSMTC-InterIAB-Support-r16</i> Indicates the support of up to 4 SMTCs configurations per frequency location, including IAB-specific SMTC window periodicities.IAB -MTNoNoNoNo <i>separateRACH-IAB-Support-r16</i> Indicates the support of separate RACH configurations including new IAB-specific offset and scaling factors.IAB -MTNoNoNoNo <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 -MTNoNoNoNo <i>ulfexibleDL-SlotFormatSemiStatic-IAB-r16</i> Indicates the	pdsch-MappingTypeA	IAB	No	No	No
A with less than seven symbols.       IAB       IAB       IAB       No       Yes <i>pucch-F2-WithFH</i> IAB       No       Yes         Indicates whether the IAB-MT supports transmission of a PUCCH format 2 (2 OFDM       IAB       No       No       Yes <i>pucch-F3-WithFH</i> IAB       No       No       Yes         Indicates whether the IAB-MT supports transmission of a PUCCH format 3 (4~14       IAB       No       No       Yes         Indicates whether the IAB-MT supports transmission of a PUCCH format 3 (4~14       IAB       No       No       Yes         Indicates the support of total) with frequency hopping in a slot.       IAB       No       No       No       No <i>restricted-IAB-DU-BeamReception-r17</i> IAB       No       No       No       No         Indicates the support of restricted IAB-DU beam reception.       -MT       IAB       No       No       No         Indicates the support of recommended IAB-MT beam transmission for DL and UL       -MT       IAB       No       No       No         Indicates the support of up to 4 SMTCs configurations per frequency location, including IAB-specific SMTC window periodicities.       IAB       No       No       No         separateRACH-IAB-Support-r16       IAB       No       No	Indicates whether the IAB-MT supports receiving PDSCH using PDSCH mapping type	-MT			
Indicates whether the IAB-MT supports transmission of a PUCCH format 2 (2 OFDM symbols in total) with frequency hopping in a slot.IAB -MTNONOpucch-F3-WithFH Indicates whether the IAB-MT supports transmission of a PUCCH format 3 (4~14IAB -MTNONOPucch-F3-WithFH Indicates whether the IAB-MT supports transmission of a PUCCH format 3 (4~14IAB -MTNONOPucch-F3-WithFH Indicates whether the IAB-MT supports transmission of a PUCCH format 3 (4~14IAB -MTNONOPucch-F3-WithFH Indicates the support of restricted IAB-DU beam reception.IAB -MTNONOIndicates the support of restricted IAB-DU beam receptionMTIAB -MTNONOIndicates the support of recommended IAB-MT beam transmission for DL and UL beam.IAB -MTNONONOseparateSMTC-InterIAB-Support-r16 Indicates the support of up to 4 SMTCs configurations per frequency location, including IAB-specific SMTC window periodicities.IAB -MTNONONOseparateRACH-IAB-Support-r16 Indicates the support of separate RACH configurations including new IAB-specific offset and scaling factors.IAB -MTNONONOt-DeltaReceptionSupport of T_delta reception for case 1 OTA timing alignment as specified in TS 38.213 [11].IAB -MTNONONOul-flexibleDL-SlotFormatSemiStatic-IAB-r16 Indicates the support of semi-static configuration/indication of UL-Flexible-DL slot formats for IAB-MT resources.IAB -MTNONO	A with less than seven symbols.	IAB	No	No	Voc
symbols in total) with frequency hopping in a slot.IABNoNoYes <i>pucch-F3-WithFH</i> IABNONoYesIndicates whether the IAB-MT supports transmission of a PUCCH format 3 (4-14-MTIABNONoOFDM symbols in total) with frequency hopping in a slot.IABNONONo <i>restricted-IAB-DU-BeamReception-r17</i> IABNONONoIndicates the support of restricted IAB-DU beam receptionMTIABNONOIndicates the support of recommended IAB-MT beam transmission for DL and UL-MT-MTNONObeam.separateSMTC-InterIAB-Support-r16IABNONONOIndicates the support of up to 4 SMTCs configurations per frequency location, including IAB-specific SMTC window periodicities.IABNONOseparateRACH-IAB-Support-r16IABNONONOIndicates the support of separate RACH configurations including new IAB-specific-MTNONOIndicates the support of T_delta reception for case 1 OTA timing alignment as specified in TS 38.213 [11].IABNONONO <i>ul-flexibleDL-SlotFormatSemiStatic-IAB-r16</i> IABNONONONOIndicates the support of semi-static configuration/indication of UL-Flexible-DL slot-MTNONO	Indicates whether the IAB-MT supports transmission of a PUCCH format 2 (2 OFDM	-MT	INU	INO	165
pucch-F3-WithFHIABNoNoYesIndicates whether the IAB-MT supports transmission of a PUCCH format 3 (4~14-MT-MT-MT-MTOFDM symbols in total) with frequency hopping in a slot.IABNoNoNoNorestricted-IAB-DU-BeamReception-r17IABNoNoNoNoIndicates the support of restricted IAB-DU beam receptionMTIABNoNoNoIndicates the support of recommended IAB-MT-BeamTransmission-r17IABNoNoNoNoIndicates the support of recommended IAB-MT beam transmission for DL and UL-MT-MTNoNobeam.separateSMTC-InterIAB-Support-r16IABNoNoNoNoIndicates the support of up to 4 SMTCs configurations per frequency location, including IAB-specific SMTC window periodicities.IABNoNoNoseparateRACH-IAB-Support-r16IABNoNoNoNoIndicates the support of separate RACH configurations including new IAB-specific offset and scaling factors.IABNoNoNot-DeltaReceptionSupport-IAB-r16IABNoNoNoNoNoIndicates the support of restricted of T_delta reception for case 1 OTA timing alignment as specified in TS 38.213 [11].IABNoNoNoul-flexibleDL-SlotFormatSemiStatic-IAB-r16IABNoNoNoNoIndicates the support of semi-static configuration/indication of UL-Flexible-DL slot-MTIABNoNo<	symbols in total) with frequency hopping in a slot.				
Indicates whether the IAB-MT supports transmission of a POCCH format 3 (4~14       -MT         OFDM symbols in total) with frequency hopping in a slot.       IAB       No       No <i>restricted-IAB-DU-BeamReception-r17</i> IAB       No       No       No         Indicates the support of restricted IAB-DU beam reception.       -MT       IAB       No       No <i>recommended-IAB-MT-BeamTransmission-r17</i> IAB       No       No       No         Indicates the support of recommended IAB-MT beam transmission for DL and UL       -MT       -MT       IAB       No       No <i>separateSMTC-InterIAB-Support-r16</i> IAB       No       No       No       No       No         Indicates the support of up to 4 SMTCs configurations per frequency location, including IAB-specific SMTC window periodicities.       IAB       No       No       No <i>separateRACH-IAB-Support-r16</i> IAB       No       No       No       No         Indicates the support of separate RACH configurations including new IAB-specific       -MT       -MT       -MT         offset and scaling factors.       -MT       -MT       -MT       No       No <i>t-DeltaReceptionSupport-IAB-r16</i> IAB       No       No       No         Indicates the support of T_delta rece	pucch-F3-WithFH		No	No	Yes
restricted-IAB-DU-BeamReception-r17 Indicates the support of restricted IAB-DU beam reception.IAB -MTNoNoNoIndicates the support of restricted IAB-DU beam reception.IAB -MTNoNoNoIndicates the support of recommended IAB-MT beam transmission for DL and UL beam.IAB -MTNoNoNoseparateSMTC-InterIAB-Support-r16 Indicates the support of up to 4 SMTCs configurations per frequency location, including IAB-specific SMTC window periodicities.IAB NoNoNoNoseparateRACH-IAB-Support-r16 Indicates the support of separate RACH configurations including new IAB-specific offset and scaling factors.IAB NoNoNoNot-DeltaReceptionSupport-inf6 Indicates the support of T_delta reception for case 1 OTA timing alignment as 	OFDM symbols in total) with frequency hopping in a slot.	-1711			
Indicates the support of restricted IAB-DU beam receptionMTrecommended-IAB-MT-BeamTransmission-r17IABNoNoIndicates the support of recommended IAB-MT beam transmission for DL and UL-MT-MTbeamMTIABNoNoseparateSMTC-InterIAB-Support-r16IABNoNoIndicates the support of up to 4 SMTCs configurations per frequency location, including IAB-specific SMTC window periodicities.IABNoNoseparateRACH-IAB-Support-r16IABNoNoNoIndicates the support of separate RACH configurations including new IAB-specific-MT-MToffset and scaling factors.IABNoNoNot-DeltaReceptionSupport-IAB-r16IABNoNoNoIndicates the support of T_delta reception for case 1 OTA timing alignment as specified in TS 38.213 [11].IABNoNoNoul-flexibleDL-SlotFormatSemiStatic-IAB-r16IABNoNoNoNoIndicates the support of semi-static configuration/indication of UL-Flexible-DL slot-MT-MTIAB	restricted-IAB-DU-BeamReception-r17	IAB	No	No	No
recommended-IAB-IMI -Beam Transmission-r17IABNoNoNoIndicates the support of recommended IAB-MT beam transmission for DL and UL beamMT-MT-MTseparateSMTC-InterIAB-Support-r16IABNoNoNoIndicates the support of up to 4 SMTCs configurations per frequency location, including IAB-specific SMTC window periodicities.IABNoNoNoseparateRACH-IAB-Support-r16IABNoNoNoNoIndicates the support of separate RACH configurations including new IAB-specific-MT-MT-MToffset and scaling factorsDeltaReceptionSupport-IAB-r16IABNoNoNoIndicates the support of T_delta reception for case 1 OTA timing alignment as specified in TS 38.213 [11].IABNoNoNoul-flexibleDL-SlotFormatSemiStatic-IAB-r16IABNoNoNoNoIndicates the support of semi-static configuration/indication of UL-Flexible-DL slot-MT-MT-MT	Indicates the support of restricted IAB-DU beam reception.	-MT	NIa	NI-	NI-
beam.       IAB       No       No         separateSMTC-InterIAB-Support-r16       IAB       No       No         Indicates the support of up to 4 SMTCs configurations per frequency location, including IAB-specific SMTC window periodicities.       IAB       No       No         separateRACH-IAB-Support-r16       IAB       No       No       No         Indicates the support of separate RACH configurations including new IAB-specific       -MT       -MT         offset and scaling factors.       -MT       -MT       No         t-DeltaReceptionSupport-IAB-r16       IAB       No       No         Indicates the support of T_delta reception for case 1 OTA timing alignment as specified in TS 38.213 [11].       IAB       No       No         ul-flexibleDL-SlotFormatSemiStatic-IAB-r16       IAB       No       No       No         Indicates the support of semi-static configuration/indication of UL-Flexible-DL slot       -MT       -MT       No	Indicates the support of recommended IAB-MT beam transmission for DL and UI	-MT	INO	NO	NO
separateSMTC-InterIAB-Support-r16IABNoNoNoIndicates the support of up to 4 SMTCs configurations per frequency location, including IAB-specific SMTC window periodicitiesMT-MT-MTseparateRACH-IAB-Support-r16IABNoNoNoIndicates the support of separate RACH configurations including new IAB-specific-MT-MToffset and scaling factorsMT-MT-MTt-DeltaReceptionSupport-IAB-r16IABNoNoNoIndicates the support of T_delta reception for case 1 OTA timing alignment as specified in TS 38.213 [11]MT-MT-MTul-flexibleDL-SlotFormatSemiStatic-IAB-r16IABNoNoNoIndicates the support of semi-static configuration/indication of UL-Flexible-DL slot-MT-MT-MT	beam.				
Indicates the support of up to 4 SMTCs configurations per frequency location, including IAB-specific SMTC window periodicities.       -MI         separateRACH-IAB-Support-r16       IAB       No       No         Indicates the support of separate RACH configurations including new IAB-specific offset and scaling factors.       IAB       No       No         t-DeltaReceptionSupport-IAB-r16       IAB       No       No       No         Indicates the support of T_delta reception for case 1 OTA timing alignment as specified in TS 38.213 [11].       IAB       No       No         ul-flexibleDL-SlotFormatSemiStatic-IAB-r16       IAB       No       No       No         Indicates the support of semi-static configuration/indication of UL-Flexible-DL slot       -MT       IAB       No       No	separateSMTC-InterIAB-Support-r16	IAB	No	No	No
separateRACH-IAB-Support-r16       IAB       No       No         Indicates the support of separate RACH configurations including new IAB-specific       IAB       -MT       No         offset and scaling factors.       IAB       No       No       No         t-DeltaReceptionSupport-IAB-r16       IAB       No       No       No         Indicates the support of T_delta reception for case 1 OTA timing alignment as specified in TS 38.213 [11].       IAB       No       No       No         ul-flexibleDL-SlotFormatSemiStatic-IAB-r16       IAB       No       No       No       No         Indicates the support of semi-static configuration/indication of UL-Flexible-DL slot       IAB       No       No       No	Indicates the support of up to 4 SMTCs configurations per frequency location,	-M I			
Indicates the support of separate RACH configurations including new IAB-specific       -MT       -MT         offset and scaling factors.       -IAB-r16       IAB       No       No         Indicates the support of T_delta reception for case 1 OTA timing alignment as specified in TS 38.213 [11].       IAB       No       No       No         ul-flexibleDL-SlotFormatSemiStatic-IAB-r16       IAB       No       No       No       No         Indicates the support of semi-static configuration/indication of UL-Flexible-DL slot       IAB       No       No       No	separateRACH-IAB-Support-r16	IAB	No	No	No
offset and scaling factors.       IAB       No       No         t-DeltaReceptionSupport-IAB-r16       IAB       No       No       No         Indicates the support of T_delta reception for case 1 OTA timing alignment as specified in TS 38.213 [11].       IAB       No       No       No         ul-flexibleDL-SlotFormatSemiStatic-IAB-r16       IAB       No       No       No       No         Indicates the support of semi-static configuration/indication of UL-Flexible-DL slot       IAB       No       No       No	Indicates the support of separate RACH configurations including new IAB-specific	-MT			
Indicates the support of T_delta reception for case 1 OTA timing alignment as specified in TS 38.213 [11].       IAB       NO       NO       NO         Indicates the support of T_delta reception for case 1 OTA timing alignment as specified in TS 38.213 [11].       IAB       NO       NO       NO         Indicates the support of semi-static configuration/indication of UL-Flexible-DL slot       IAB       NO       NO       NO	offset and scaling factors.		Nie	N La	Nla
specified in TS 38.213 [11].       IAB       No       No         ul-flexibleDL-SlotFormatSemiStatic-IAB-r16       IAB       No       No         Indicates the support of semi-static configuration/indication of UL-Flexible-DL slot       -MT       -MT	Indicates the support of T delta reception for case 1 OTA timing alignment as	-MT	INO	INO	INO
ul-flexibleDL-SlotFormatSemiStatic-IAB-r16       IAB       No       No         Indicates the support of semi-static configuration/indication of UL-Flexible-DL slot       -MT       -MT       No         formats for IAB-MT resources.       -MT       -MT       -MT       No	specified in TS 38.213 [11].				
Indicates the support of semi-static configuration/indication of UL-Flexible-DL slot	ul-flexibleDL-SlotFormatSemiStatic-IAB-r16	IAB	No	No	No
	formats for IAB-MT resources.	-1VI I			

<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
<i>updated-T-DeltaRangeReception-r17</i> Indicates the support of updated T_Delta range reception. UE indicating support of this feature shall also support <i>case6-</i> <i>TimingAlignmentReception-IAB-r17</i> .	IAB -MT	No	No	No

#### 4.2.15.8 MeasAndMobParameters Parameters

Definitions for parameters	Per	Μ	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			
intraAndInterF-MeasAndReport	IAB-	Yes	Yes	No
Indicates whether the IAB-MT supports NR intra-frequency and inter-frequency measurements and at least periodical reporting.	MT			

### 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 mode, as specified in TS 36.331 [17].	MT			
scg-DRB-NR-IAB-r16	IAB-	No	No	No
Indicates whether the IAB-MT supports SCG DRB with NR PDCP when IAB-MT operates in EN-DC mode.	MT			
interNR-MeasEUTRA-IAB-r16	IAB-	No	No	No
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.	MT			

### 4.2.15.10 NRDC Parameters

Definitions for parameters	Per	М	FDD- TDD DIFF	FR1- FR2 DIFF
<i>f1c-OverNR-RRC-r17</i> Indicates whether the IAB-MT supports F1-C signalling over DLInformationTransfer and ULInformationTransfer messages via MN when IAB-MT operates in NR-DC and MN is the non-F1-termination node or via SN when IAB-MT operates in NR-DC and SN is the non-F1-termination node, as specified in TS 38.401 [33] and TS 37.340 [7].	IAB- MT	No	No	No
<i>simultaneousRxTx-IAB-MultipleParents-r17</i> Indicates the support of simultaneous transmission and reception of an IAB-node from multiple parent nodes.	BC	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
accessStratumReleaseSidelink-r16	UE	Yes	No	No
Indicates the access stratum release for NR sidelink communication the UE				
supports as specified in TS 38.331 [9].				
relayUE-Operation-L2-r17	UE	No	No	No
Indicates whether NR L2 sidelink relay UE operation is supported by the UE.				
remoteUE-Operation-L2-r17	UE	No	No	No
Indicates whether NR L2 sidelink remote UE operation is supported by the UE.				
remoteUE-PathSwitchToldleInactiveRelay-r17	UE	No	No	No
Indicates whether L2 sidelink remote UE supports direct to indirect path switch with target relay in RRC_IDLE or RRC_INACTIVE state.				

### 4.2.16.1.2 Sidelink PDCP Parameters

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

### 4.2.16.1.3 Sidelink RLC Parameters

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

### 4.2.16.1.4 Sidelink MAC Parameters

Definitions for parameters	Per	M	FDD- TDD DIFF	FR1- FR2 DIFF
drx-OnSidelink-r17	UE	No	No	No
Indicates whether UE supports sidelink DRX for unicast, groupcast and broadcast.				
Icp-RestrictionSidelink-r16	UE	No	No	No
Indicates whether UE supports the selection of logical channels for each SL grant 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
p0-OLPC-Sidelink-r17	UE	No	No	No
Indicates whether the UE supports the use of P0 parameters (i.e. <i>dl-P0-PSSCH</i> -				
PSCCH-r17, sI-P0-PSSCH-PSCCH-r17, dI-P0-PSBCH-r17, dI-P0-PSFCH-r17) for				
sidelink open loop power control.				
supportedBandCombinationListSidelinkEUTRA-NR-r16	UE	No	No	No
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> .	=			
supportedBandCombinationListSidelinkNR-r16	UE	No	No	No
Defines the supported joint NR sidelink communication band combinations by the				
UE. A failback band combination resulting from the reported sidelink band				
combination shall be supported by the UE.	=			
supportedBandCombinationListSL-NonRelayDiscovery-r17	UE	NO	NO	NO
Defines the supported band combinations of NR sidelink non-relay discovery				
message transmission and reception by the UE.	=			
supportedBandCombinationListSL-RelayDiscovery-r17	UE	NO	NO	NO
Defines the supported band combinations of NR sidelink relay discovery message				
transmission and reception by the UE. This parameter is used by the remote UE				
and relay UE, and for the case of L2 and L3 relay.				<b>N</b> 1
supportedBandListSidelink-r16	UE	NO	NO	NO
Indicates frequency bands supported for INR sidelink communications and				
parameters supported for each frequency band, as specified in 4.2.16.1.6.				
in a participation of the supported band Complication ListSL-INOR Relay Discovery-r17				
or supported band Control ination ListSL-Relay Discovery-rin, the band supports non-				
relay/relay INK Sucellfik Discovery.				

### 4.2.16.1.6 BandSidelink Parameters

Definitions for parameters	Per	М	FDD- TDD DIFF	FR1- FR2 DIFF
<ul> <li><i>congestionControlSidelink-r16</i></li> <li>Indicates 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: <ul> <li><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 TS 38.101-1 [2], Table 5.2E.1-1. Otherwise, it is mandatory.</li> <li>UE can adjust its radio parameters based on CBR measurement and CRlimit.</li> <li><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.</li> </ul> </li> <li>This field is only applicable if the UE supports <i>sl-Reception-r16</i> and at least one of <i>sl-TransmissionMode1-r16</i> and <i>sl-TransmissionMode2-r16</i>.</li> </ul>	Band	CY	N/A	N/A
<ul> <li>Support of this feature is mandatory if UE supports NR sidelink.</li> <li>csi-ReportSidelink-r16</li> <li>Indicates UE supports Sidelink CSI report. If supported, this parameter indicates the support of the capabilities and includes the parameters as follows:         <ul> <li>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.</li> <li>UE supports RI and CQI feedback on sidelink.</li> </ul> </li> <li>This field is only applicable if the UE supports at least one of sl-Reception-r16, sl-TransmissionMode1-r16 and sl-TransmissionMode2-r16.</li> </ul>	Band	CY	N/A	N/A
<ul> <li>Support of this feature is mandatory if UE supports NR sidelink.</li> <li>enb-Sync-Sidelink-r16</li> <li>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: <ul> <li>UE can transmit or receive NR sidelink based on the synchronization to an eNB.</li> <li>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.</li> <li>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.</li> <li>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 SyncRef UE as the synchronization reference according to the synchronization procedure with sl-SyncPriority set to GNSS and Sl-NbAsSync set to true.</li> </ul> </li> </ul>	Band	No	N/A	N/A
<ul> <li>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>.</li> <li><i>enb-Sync-Sidelink-v1710</i></li> <li>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: <ul> <li>UE can transmit NR sidelink based on the synchronization to an eNB.</li> <li>If UE supports <i>sync-GNSS-r17</i>, UE additionally supports eNB, GNSS as the synchronization reference according to the synchronization procedure with <i>sl-SyncPriority</i> set to <i>gnbEnb</i>.</li> <li>If UE supports <i>sync-GNSS-r17</i>, UE additionally supports eNB, GNSS 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>true</i>.</li> </ul> </li> <li>This field is only applicable if the UE supports <i>sync-Sidelink-v1710</i>.</li> <li>NOTE: 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.</li> </ul>	Band	No	N/A	N/A

<b>fewerSymbolSlotSidelink-r16</b> 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 al Pecentian r16 of	Band	No	N/A	N/A
TransmissionMode1-r16 and sl-TransmissionMode2-r16.				
IowSE-64QAM-MCS-TableSidelink-r16 Indicates UE can transmit and receive PSSCH according to the low-spectral efficiency 640AM MCS table	Band	No	N/A	N/A
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> .				
psfch-FormatZeroSidelink-r16	Band	CY	N/A	N/A
Indicates whether UE supports PSFCH format 0. If supported, this parameter indicates the support of the capabilities and includes the parameters as follows:		-		
- UE can transmit and receive NR PSFCH format 0.				
<ul> <li>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.</li> </ul>				
<ul> <li>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.</li> </ul>				
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 TS 38.101-1 [2] Table 5.2E.1-1.				
Support of this feature is mandatory if UE supports NR sidelink.				
rankTwoReception-r16	Band	No	N/A	N/A
Indicates whether UE supports rank 2 PSSCH reception. This field is only applicable if the UE supports <i>sl-Reception-r16</i> .				
rx-IUC-Scheme1-NonPreferredMode2Sidelink-r17	Band	No	N/A	N/A
Indicates whether UE supports reception of non-preferred resource set for NR sidelink for mode 2. If supported, this parameter indicates the support of the capabilities as follows: - UE can receive inter-UE coordination information of non-preferred resource set and use the resource in NR	Dana	NO		
<ul> <li>Set and use the received information into source (re-)selection in NK sidelink mode 2.</li> <li>UE can transmit an explicit request for inter-UE coordination information of</li> </ul>				
non-preferred resource set only.				
UE supporting this feature shall support receiving NR sidelink of S-SSB or indicate support of sync-Sidelink-r16 or sync-Sidelink-v1710.				
NOTE: 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.				
rx-IUC-Scheme1-PreferredMode2Sidelink-r17	Band	No	N/A	N/A
Indicates whether UE supports reception of preferred resource set for NR sidelink for mode 2. If supported, this parameter indicates the support of the capabilities as follows:				
<ul> <li>UE can receive inter-UE coordination information of preferred resource set and use the received information in its own resource (re-)selection in NR sidelink mode 2.</li> </ul>				
<ul> <li>UE can transmit an explicit request for inter-UE coordination information of preferred resource set only.</li> </ul>				
UE supporting this feature shall support receiving NR sidelink of S-SSB or indicate support of <i>sync-Sidelink-r16</i> or <i>sync-Sidelink-v1710</i> .				
NOTE: 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.				

<b>rx-IUC-Scheme1-SCI-r17</b> Indicates whether UE can receive Scheme 1 inter-UE coordination transmission over 2nd SCI that is used in addition to the MAC-CE carrying the same inter-UE coordination information in the same transmission.	Band	No	N/A	N/A
UE indicating support of this feature shall indicate support of at least one of <i>rx-IUC-Scheme1-Preferred-Mode2Sidelink-r17</i> and <i>rx-IUC-Scheme1-NonPreferred-Mode2Sidelink-r17</i> .				
NOTE: 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.				
rx-IUC-Scheme1-SCI-ExplicitReq-r17	Band	No	N/A	N/A
Indicates whether UE can receive an explicit request for inter-UE coordination information of both preferred resource set and non-preferred resource set over 2nd SCI that is used in addition to the MAC-CE carrying the explicit request in the same transmission. UE indicating support of this feature shall indicate support of <i>tx-IUC-Scheme1-Mode2Sidelink-r17</i> .				
NOTE: 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.				
<ul> <li><i>rx-IUC-Scheme2-Mode2Sidelink-r17</i>         Indicates whether UE supports reception of inter-UE coordination scheme 2 for NR sidelink for mode 2. If supported, this parameter indicates the support of the capabilities and includes the parameters as follows:         <ul> <li>UE can receive inter-UE coordination information of presence of expected/potential resource conflict and use the received information in its own resource re-selection in NR sidelink mode 2.</li> <li>UE 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.</li> </ul> </li> <li>UE supporting this feature shall support receiving NR sidelink of S-SSB or indicate support of <i>sync-Sidelink-r16</i> or <i>sync-Sidelink-v1710</i>.</li> <li>NOTE 1: If UE reports more than one capability of <i>psfch-FormatZeroSidelink-r16</i>, <i>rx-sidelinkPSFCH-r17</i> and <i>rx-IUC-Scheme1-PreferredMode2Sidelink-r17</i>, the reported value of the number of PSFCH(s) resources in each capability is the total number and the same among those capabilities.</li> <li>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</li> </ul>	Band	No	N/A	N/A
scheme2-ConflictDeterminationRSRP-r17 Indicates whether UE can determine a conflict for overlapping resource reservation between UE-B and another UE based on RSRP difference of the two reservations. UE indicating support of this feature shall indicate support of <i>tx-IUC-Scheme2-Mode2Sidelink-r17</i> .	Band	No	N/A	N/A
with only the PC5 interface in TS 38.101-1 [2] Table 5.2E.1-1.				
<i>si-openLoopPC-RSRP-ReportSidelink-r16</i> Indicates whether UE supports sidelink pathloss based open loop power control and RSRP report in case of unicast. This field is only applicable if the UE supports <i>sl-Reception-r16</i> and at least one of <i>sl-TransmissionMode1-r16</i> and <i>sl-TransmissionMode2-r16</i> .	Band	CY	N/A	N/A
Support of this feature is mandatory if UE supports NK sidelink.				

<i>sl-Reception-r16</i> Indicates whether receiving 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.				
<ul> <li>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.</li> </ul>				
<ul> <li>pscch-RxSidelink, which indicates the number of PSCCH that the supports for reception in a slot. Value value1 corresponds to floor (N<sub>RB</sub> /10 RBs), value2 corresponds to 2*floor (N<sub>RB</sub> /10 RBs);</li> </ul>				
- 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.				
<ul> <li>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 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 TS 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 FR2.</li> <li><i>extendedCP-RxSidelink</i>, 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.</li> <li>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.</li> </ul>				
NOTE 1: N <sub>RB</sub> is the number of RBs defined per channel bandwidth by RAN4 in TS 38.101-1 [2], Table 5.3.2-1 for FR1 and TS 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. If a band is included in <i>supportedBandCombinationListSL-NonRelayDiscovery-r17</i> or <i>supportedBandCombinationListSL-RelayDiscovery-r17</i> , it indicates whether receiving non-relay/relay NR sidelink discovery is supported.				
sI-Rx-256QAM-r16	Band	No	N/A	FR1
This field is only applicable if the UE supports <i>sl-Reception-r16</i> .				only

<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
<ul> <li>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.</li> </ul>				
<ul> <li>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.</li> </ul>				
- UE can transmit PSSCH according to the normal 64QAM MCS OFDM table.				
- UE supports PT-RS transmission in FR2.				
<ul> <li>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.</li> </ul>				
<ul> <li>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 TS 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>.</li> </ul>				
<ul> <li>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 TS 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>.</li> </ul>				
- 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.				
<ul> <li>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 TS 38.101-1 [2], Table 5.2E.1-1. Otherwise, it is not supported.</li> </ul>				
<ul> <li>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 TS 38.101-1 [2], Table 5.2E.1-1. Otherwise, it is mandatory.</li> </ul>				
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. If a band is included in <i>supportedBandCombinationListSL-NonRelayDiscovery-r17</i> or <i>supportedBandCombinationListSL-RelayDiscovery-r17</i> , it indicates whether receiving non-relay/relay NR sidelink discovery is supported.				

<ul> <li>sl-TransmissionMode2-r16         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:         <ul> <li>UE can transmit PSCCH/PSSCH using NR sidelink mode 2 configured by NR Uu or preconfiguration.</li> <li>harq-TxProcessModeTwoSidelink, which indicates the number of sidelink HARO processes across all links that the UE supports for NR PSSCH</li> </ul> </li> </ul>	Band	CY	N/A	N/A	
<ul> <li>transmission using mode 2. Value n8 corresponds to 8, n16 corresponds to 16.</li> <li>UE can transmit PSSCH according to the normal 64QAM MCS table.</li> <li>UE supports PT PS transmission in EP2.</li> </ul>					
<ul> <li>UE supports PT-RS transmission in FR2.</li> <li>UE can perform mode 2 sensing and resource allocation operations</li> <li><i>scs-CP-PatternTxSidelinkModeTwo</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 TS 38.101-1 [2], Table 5.2E.1-1. Otherwise, it is mandatory. For a band indicated with only the PC5 interface in TS 38.101-1 [2], Table 5.2E.1-1, UE supports transmission using 30 kHz subcarrier spacing with normal CP in FR1, 120 kHz subcarrier spacing with normal CP in FR1, 120 kHz subcarrier spacing with normal CP in FR2.</li> <li>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.</li> <li><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 TS38.101-1 [2], Table 5.2E.1-1. Otherwise, it is mandatory.</li> </ul>					
This field is only applicable if the UE supports <i>sl-Reception-r16</i> .					
<ul> <li>NOTE 1: Random selection in the exceptional pool is supported.</li> <li>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.</li> </ul>					
Support of this feature is mandatory if UE supports NR sidelink.			1		

<i>sl-TransmissionMode2-RandomResourceSelection-r17</i> Indicates transmitting NR sidelink mode 2 with random resource selection is supported. If supported, this parameter indicates the support of the capabilities and includes the parameters as follows:	Band	No	N/A	N/A
<ul> <li>UE can transmit PSCCH/PSSCH using NR sidelink mode 2 with random resource selection configured by NR Uu or preconfiguration.</li> <li><i>harq-TxProcessModeTwoSidelink-r17</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.</li> <li>UE can transmit PSSCH according to the normal 64QAM MCS table.</li> <li>UE supports PT-RS transmission in FR2.</li> <li><i>scs-CP-PatternTxSidelinkModeTwo-r17</i>, 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 2 with random resource selection. 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.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 TS 38.101-1 [2], Table 5.2E.1-1. Otherwise, it is mandatory. For a band indicated with only the PC5 interface in TS 38.101-1 [2], Table 5.2E.1-1, UE supports for NR sidelink communication transmission using mode 2 with random resource selection.</li> <li><i>extendedCP-Mode2Random-r17</i>, which indicates whether the UE supports 60 kHz subcarrier spacing with extended CP length for NR sidelink communication transmission using mode 2 with random resource selection.</li> <li>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.</li> <li><i>d-openLoopPC-Sidelink-r17</i>, which indicates whether UE supports DL pathloss based open loop power control when mode 2 is configured by NR Uu,</li></ul>				
UE supporting this feature shall support receiving NR sidelink of S-SSB or indicate support of <i>sync-Sidelink-r16</i> or <i>sync-Sidelink-v1710</i> . If a band is included in <i>supportedBandCombinationListSL-NonRelayDiscovery-r17</i> or <i>supportedBandCombinationListSL-RelayDiscovery-r17</i> , it indicates whether transmitting NR sidelink mode 2 with random resource selection is supported for non-relay/relay NR sidelink discovery.				
<ul> <li>NOTE 1: 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.</li> <li>NOTE 2: If UE reports more than one features of <i>sl-TransmissionMode2-r16</i>, <i>sl-TransmissionMode2-PartialSensing-r17</i> and <i>sl-TransmissionMode2-RandomResourceSelection-r17</i>, the reported value of <i>harq-TxProcessModeTwoSidelink</i> in each feature is the total number of SL processes and the same among those features.</li> <li>NOTE 3 Random selection in the exceptional pool is supported.</li> </ul>				
sl-Tx-256QAM-r16	Band	No	N/A	FR1
Indicates UE can transmit PSSCH according to the 256QAM MCS table.		-		only
This field is only applicable if the UE supports at least one of sl-				-
TransmissionMode1-r16 and sl-TransmissionMode2-r16				

<i>sync-Sidelink-r16</i> Indicates 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 sl-Reception-r16.				
- UE can transmit S-SSB in NR sidelink if it supports <i>sl-TransmissionMode1-</i> <i>r16</i> or <i>sl-TransmissionMode2-r16</i> .				
<ul> <li>UE supports 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 <i>false</i>.</li> </ul>				
<ul> <li>gNB-Sync, 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 TS 38.101-1 [2], Table 5.2E.1-1. Otherwise, it is mandatory.</li> </ul>				
- 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 TS38.101-1 [2], Table 5.2E.1-1. Otherwise, it is mandatory.				
- <i>gNB-GNSS-UE-SyncWithPriorityOnGNSS</i> , 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 <i>GNSS</i> and <i>sl-NbAsSync</i> set to true for NR Uu, if the band is indicated with only the PC5 interface in TS 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 TS 38.101-1 [2] Table 5.2E.1-1.				
Support of this feature is mandatory if UE supports NR sidelink.				

sync-Sidelink-v1710	Band	No	N/A	N/A
Indicates whether UE supports synchronization sources for NR sidelink. If				
supported, this parameter indicates the support of the capabilities and includes the				
parameters as follows:				
<ul> <li>sync-GNSS-r17, which indicates UE supports GNSS as the synchronization</li> </ul>				
reference according to the synchronization procedure with sl-SyncPriority set				
to GNSS and sl-NbAsSync set to false. This capability is only required to be				
supported in a band indicated with only the PC5 interface in TS 38.101-1 [2],				
Table 5.2E.1-1				
<ul> <li>gNB-Sync-r17, which indicates whether UE can transmit NR sidelink based</li> </ul>				
on the synchronization to an gNB for NR Uu, if the band is indicated with				
only the PC5 interface in TS 38.101-1 [2], Table 5.2E.1-1, it is not required to				
be supported. Otherwise, it is mandatory.				
- gNB-GNSS-UE-SyncWithPriorityOnGNB-ENB-r17, which indicates whether				
UE additionally supports gNB, GNSS as the synchronization reference				
according to the synchronization procedure with sl-SyncPriority set to				
gnbEnb for NR Uu, if the band is indicated with only the PC5 interface in TS				
38.101-1 [2], Table 5.2E.1-1, it is not required to be supported. Otherwise, it				
IS mandatory.				
- give-gives-ue-syncwithPriorityOngives-rif, which indicates whether UE				
additionally supports gINB, GINSS as the synchronization reference				
according to the synchronization procedure with si-syncPhonicy set to Gives				
and si-wassync set to true for NR Ou, it the band is indicated with only the				
PC5 Interface in 15 38.101-1 [2], Table 5.2E.1-1, it is not required to be				
Supported. Otherwise, it is mandatory.				
- UE call transmission Modo2 r16 or st Transmission Modo2 Partial Sonsing				
r17 or st TransmissionMode2 PandomPasourceSelection r17				
IT of St-Hanshillssioninouez-Randoni Resource Selection-11.				
110.				
NOTE: 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.				
ue-PowerClassSidelink-r16	Band	No	N/A	N/A
This parameter indicates the supported power class for this band used for sidelink.				
If the field is absent, the UE supports the default power class in TS 38.101-1 [2],				
Table 6.2E.1.2-2.				

4.2.16.1.7 BandCombinationListSidelinkEUTRA-NR Parameters

Definitions for parameters	Per	М	FDD- TDD DIFF	FR1- FR2 DIFF
<i>rx-Sidelink-r16</i> 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
rx-sidelinkPSFCH-r17Indicates whether UE can receive PSFCH with HARQ-ACK information in NRsidelink and also the maximum number of PSFCH(s) resources N in a slot. If UEreports more than one of psfch-FormatZeroSidelink-r16, rx-sidelinkPSFCH-r17andrx-IUC-Scheme2-Mode2Sidelink-r17, the reported value N is the total number andthe same among psfch-FormatZeroSidelink-r16, rx-sidelinkPSFCH-r17 and rx-IUC-Scheme2-Mode2Sidelink-r17.UE supporting this feature shall support receiving NR sidelink of S-SSB and at leastone of sl-TransmissionMode1-r16 or sl-TransmissionMode2-r16 or sl-TransmissionMode2-RandomResourceSelection-r17 or sl-TransmissionMode2-PartialSensing-r17.	FS	No	N/A	N/A
NOTE: 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.				
<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 TS 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

al Transmissis Madeo Davis Canaing v47	<b>F</b> 0	Na		NI/A
SI-Transmissionwodez-PartialSensing-rif	гэ	INO	IN/A	IN/A
Indicates transmitting INR sidelink mode 2 with partial sensing is supported. If				
supported, this parameter indicates the support of the capabilities and includes the				
parameters as follows:				
<ul> <li>UE can transmit PSCCH/PSSCH using NR sidelink mode 2 with partial</li> </ul>				
sensing configured by NR Uu or preconfiguration.				
<ul> <li>harq-TxProcessModeTwoSidelink-r17, which indicates the number of</li> </ul>				
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.				
<ul> <li>UE can transmit PSSCH according to the normal 64QAM MCS table</li> </ul>				
- UE supports PT-RS transmission in FR2				
- LIE can perform periodic-based narrial sensing and resource allocation				
operation				
Operation.				
- OE can perform contiguous partial sensing and resource allocation				
operation.				
- scs-CP-Pattern I xSidelinkiviode I wo-r17, the subcarrier spacing with normal				
CP and the corresponding bandwidth that the UE supports for NR sidelink				
communication transmission using NR sidelink mode 2 with partial sensing.				
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. 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. For a band indicated with only the PC5 interface				
in TS 38 101-1 [2] Table 5 2E 1-1 LIE supports transmission using 30 kHz				
subcarrier spacing with normal CP in ER1, 120 kHz subcarrier spacing with				
normal CP in EP2				
normal of interval. avtandadCD Mada2DartialSansing r17 which indicates whathar the UE				
- extended of -modezi anial sensing-inf, which indicates whether the OL				
supports 60 kHz subcarrier spacing with extended CP length for NR sidelink				
communication transmission using mode 2 with partial sensing.				
- 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.				
<ul> <li>dl-openLoopPC-Sidelink-r17, which indicates whether UE supports DL</li> </ul>				
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 TS 38.101-1 [2],				
Table 5.2E.1-1. Otherwise, it is mandatory.				
UE supporting this feature shall support receiving NR sidelink of S-SSB or indicate				
support of svnc-Sidelink-r16 or svnc-Sidelink-v1710.				
If a band combination is included in supportedBandCombinationListSL-				
NonRelayDiscovery-r17 or supportedBandCombinationListSL-RelayDiscovery-r17				
it indicates whether transmitting NR sidelink mode 2 with partial sensing is				
supported for non-relay/relay NR sidelink discovery				
supported for non-relay/relay fire sidelink discovery.				
NOTE 1. Configuration by NR LIU 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				
NOTE 2: If LIE reports more than one feature of al Transmission Model #16 of				
TransmissionMode2 DertialSensing r17 and al TransmissionMode2				
Dendem Descures Scientian v17 the reported value of here				
KandornikesourceSelection-r17, the reported value of narg-				
i xprocessivicae i wosiaelink in each FG is the total number of SL				
processes and the same among those FGs.				
NOTE 3: Random selection in the exceptional pool is supported.				

tx-IUC-Scheme1-Mode2Sidelink-r17	FS	No	N/A	N/A
NR sidelink for mode 2. If supported, this parameter indicates the support of the				
capabilities as follows:				
<ul> <li>UE can transmit inter-UE coordination information of preferred resource</li> </ul>				
set/non-preferred resource set in NR sidelink mode 2.				
- UE can receive an explicit request for inter-UE coordination information of				
both preferred resource set and non-preferred resource set.				
UE supporting this feature shall support receiving NR sidelink of S-SSB or indicate				
support of sync-Sidelink-r16 or sync-Sidelink-v1710.				
NOTE: 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.				
tx-IUC-Scheme2-Mode2Sidelink-r17	FS	No	N/A	N/A
Indicates whether UE supports transmission of inter-UE coordination scheme 2 for				
NR sidelink for mode 2. If supported, this parameter indicates the support of the				
capabilities and includes the parameters as follows:				
- UE can transmit inter-UE coordination information of presence of				
expected/potential resource conflict in NR sidelink mode 2.				
<ul> <li>OE can transmit up to M PSFCH(s) resources in a slot where M takes the values of {4, 8, 16}</li> </ul>				
If UE reports both psfch-FormatZeroSidelink-r16 and tx-IUC-Scheme2-				
<i>Mode2Sidelink-r17</i> , the reported value M is the total number and the same in both				
psfch-FormatZeroSidelink-r16 and tx-IUC-Scheme2-Mode2Sidelink-r17.				
UE supporting this feature shall indicate support of rx-IUC-Scheme2-				
Mode2Sidelink-r17 and indicate support at least one among sync-Sidelink-r16,				
sync-Sidelink-v1710 and receiving NR sidelink of S-SSB.				
NOTE: 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.				
tx-Sidelink-r16	Band	No	N/A	N/A
Indicates 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.				

### 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			

### 4.2.16.2.1 *BandSideLinkEUTRA* parameters

Descriptions for parameters	Per	Μ	FDD- TDD DIFF
<ul> <li>gnb-ScheduledMode3SidelinkEUTRA-r16</li> <li>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:         <ul> <li>the UE can be scheduled by gNB using DCI format 3_1 for V2X sidelink mode 3 transmission.</li> <li>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.</li> </ul> </li> </ul>	Band	No	N/A
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	Μ	FDD-	FR1-
			TDD	FR2
			DIFF	DIFF
onDemandSI-Report-r17	UE	No	No	No
Indicates whether the UE supports delivery of on-Demand SI information upon				
request from the network as specified in TS 38.331 [9].				
pscell-MHI-Report-r17	UE	No	No	No
Indicates whether the UE supports the storage of PSCell mobility history information				
and the reporting in UEInformationResponse message as specified in TS 38.331 [9].				
rach-Report-r16	UE	No	No	No
Indicates whether the UE supports delivery of RA report upon request from the				
network.				
rlfReportCHO-r17	UE	No	No	No
Indicates whether the UE supports RLF-Report for conditional handover.				
rlfReportDAPS-r17	UE	No	No	No
Indicates whether the UE supports RLF-Report for DAPS handover.				
success-HO-Report-r17	UE	No	No	No
Indicates whether the UE supports the storage and delivery of Successful Handover				
Report upon request from the network as specified in TS 38.331 [9].				
twoStepRACH-Report-r17	UE	No	No	No
Indicates whether the UE supports the storage and delivery of 2-step RACH related				
information upon request from the network as specified in TS 38.331 [9].				

# 4.2.18 UE-based performance measurement parameters

Definitions for parameters	Per	М	FDD-	FR1-
			DIFF	DIFF
barometerMeasReport-r16	UE	No	No	No
Indicates whether the UE supports uncompensated barometeric pressure				
measurement reporting upon request from the network.				
earlyMeasLog-r17	UE	No	No	No
Indicates whether the UE supports the storage of Early Measurement Logging in				
logged measurements and the reporting upon request from the network as specified				
in TS 38.331 [9].				
excessPacketDelay-r17	UE	No	No	No
Indicates whether the UE supports the UL PDCP excess packet delay measurement				
per DRB as specified in TS 38.314 [26]. A UE that supports the UL PDCP excess				
packet delay measurement shall also support the measurement configuration and				
reporting as specified in TS 38.331 [9].				
gnss-Location-r16	UE	CY	No	No
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, MDT, and NTN related				
measurements in RRC_CONNECTED, RRC_IDLE and RRC_INACTIVE state. A UE				
shall set this field to <i>supported</i> if it indicates the support of <i>nonTerrestrialNetwork-r17</i> .				
immMeasBT-r16	UE	No	No	No
Indicates whether the UE supports Bluetooth measurements in RRC_CONNECTED				
state.				
immMeasWLAN-r16	UE	No	No	No
Indicates whether the UE supports WLAN measurements in RRC_CONNECTED				
state.				
loggedMeasBT-r16	UE	No	No	No
Indicates whether the UE supports Bluetooth measurements in RRC_IDLE and				
		NI-	NLa	NI-
loggeaweasurements-rio	UE	INO	INO	INO
DBC INACTIVE state A UE that supports logged measurements in RRC_IDLE and				
RRC_INACTIVE state. A DE that supports logged measurements shall support both				
logged model model of the second seco				
logged Measurements is 04ND.		No	No	No
Indicates whether the LIE supports WI AN measurements in RBC IDLE and			INU	INU
multipleCFF-Report-r17	LIE	No	No	No
Indicates whether the LIE supports the storage and delivery of multiple CEE reports	02			140
upon request from the network as specified in TS 38 331 [9]				
orientationMeasReport-r16	UF	No	No	No
Indicates whether the UE supports orientation information reporting upon request from	02			110
the network.				
sigBasedLogMDT-OverrideProtect-r17	UE	No	No	No
Indicates whether the UE supports the override protection of the signalling based				
logged measurements configured in NR.				
speedMeasReport-r16	UE	No	No	No
Indicates whether the UE supports speed information reporting upon request from the				
network.				
ulPDCP-Delay-r16	UE	No	No	No
Indicates whether the UE supports UL PDCP Packet Average Delay measurement (as				
specified in TS 38.314 [26]) and reporting in RRC_CONNECTED state.				

# 4.2.19 High speed parameters

Definitions for parameters	Per	М	FDD- TDD	FR1- FR2
			DIFF	DIFF
<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
<i>measurementEnhancement-r16</i> Indicates whether the UE supports the enhanced intra-NR and inter-RAT E-UTRAN RRM requirements for MN configured measurement enhancement when MR-DC is not configured, and the enhanced intra-NR RRM requirements for SN configured measurement enhancement when (NG)EN-DC is configured, to support high speed up to 500 km/h as specified in TS 38.133 [5].	UE	No	No	FR1 only
<ul> <li>measurementEnhancementCA-r17</li> <li>Indicates whether the UE supports the enhanced RRM requirements for carrier aggregation to support high speed up to 500 km/h as specified in TS 38.133 [5].</li> <li>UE indicating support of this feature shall indicate support of measurementEnhancement-r16 or intraNR-MeasurementEnhancement-r16.</li> </ul>	UE	No	No	FR1 only
<ul> <li>measurementEnhancementInterFreq-r17</li> <li>Indicates whether the UE supports the enhanced RRM requirements for inter- frequency measurements in connected mode to support high speed up to 500 km/h as specified in TS 38.133 [5].</li> <li>UE indicating support of this feature shall indicate support of measurementEnhancement-r16 or intraNR-MeasurementEnhancement-r16.</li> </ul>	UE	No	No	FR1 only

### 4.2.20 Application layer measurement parameters

Definitions for parameters	Per	M	FDD- TDD	FR1- FR2
goe-Streaming-MeasReport-r17	UE	No	No	No
Indicates whether the UE supports NR QoE Measurement Collection for streaming				
services, see TS 26.247 [29].				
qoe-MTSI-MeasReport-r17	UE	No	No	No
Indicates whether the UE supports NR QoE Measurement Collection for MTSI				
services, see TS 26.114 [30].				
goe-VR-MeasReport-r17	UE	No	No	No
Indicates whether the UE supports NR QoE Measurement Collection for VR				
services, see TS 26.118 [31].				
ran-VisibleQoE-Streaming-MeasReport-r17	UE	No	No	No
Indicates whether the UE supports RAN visible QoE Measurement Collection for				
streaming services. A UE supporting this feature shall also support goe-				
Streaming-MeasReport-r17.				
ran-VisibleQoE-VR-MeasReport-r17	UE	No	No	No
Indicates whether the UE supports RAN visible QoE Measurement Collection for				
VR services. A UE supporting this feature shall also support goe-VR-MeasReport-				
r17.				
ul-MeasurementReportAppLayer-Seg-r17	UE	No	No	No
Indicates whether the UE supports RRC segmentation of the				
MeasurementReportAppLayer message in UL, as specified in TS 38.331 [9].				

### 4.2.21 RedCap Parameters

### 4.2.21.1 Definition of RedCap UE

RedCap UE is the UE with reduced capability:

- The maximum bandwidth is 20 MHz for FR1, and is 100 MHz for FR2. UE features and corresponding capabilities related to UE bandwidths wider than 20 MHz in FR1 or wider than 100 MHz in FR2 are not supported by RedCap UEs;
- The maximum mandatory supported DRB number is 8;
- The mandatory supported PDCP SN length is 12 bits while 18 bits being optional;
- The mandatory supported RLC AM SN length is 12 bits while 18 bits being optional;
- For FR1, 1 DL MIMO layer if 1 Rx branch is supported, and 2 DL MIMO layers if 2 Rx branches are supported; for FR2, either 1 or 2 DL MIMO layers can be supported, while 2 Rx branches are always supported. For FR1 and FR2, UE features and corresponding capabilities related to more than 2 UE Rx branches or more than 2 DL MIMO layers, as well as UE features and capabilities related to more than 1 UE Tx branch or more than 1 UL MIMO layer are not supported by RedCap UEs;
- CA, MR-DC, DAPS, CPAC and IAB (i.e., the RedCap UE is not expected to act as IAB node) related UE features and corresponding capabilities are not supported by RedCap UEs. 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 remain applicable for RedCap UEs same as non-RedCap UEs, unless indicated otherwise.

### 4.2.21.2 General parameters

Definitions for parameters	Per	M	FDD- TDD DIFF
<i>ncd-SSB-ForRedCapInitialBWP-SDT-r17</i> Indicates that the UE supports using RedCap-specific initial DL BWP associated with NCD-SSB for SDT. If absent, the UE only supports SDT in an initial DL BWP that includes the CD-SSB. UE supporting this feature shall indicate support of <i>supportOfRedCap-r17</i> and <i>ra-SDT-r17</i> and/or cg-SDT-r17.	UE	No	No
<i>supportOf16DRB-RedCap-r17</i> Indicates whether the RedCap UE supports 16 DRBs. This capability is only applicable for RedCap UEs.	UE	No	No
<ul> <li>supportOfRedCap-r17</li> <li>Indicates that the UE is a RedCap UE with comprised of at least the following functional components: <ul> <li>Maximum FR1 RedCap UE bandwidth is 20 MHz;</li> <li>Maximum FR2 RedCap UE bandwidth is 100 MHz;</li> <li>Support of RedCap early indication based on Msg1, MsgA (if UE indicated support of twoStepRACH-r16) and Msg3 for random access;</li> <li>Separate initial UL BWP for RedCap UEs;</li> <li>It includes the configuration(s) needed for RedCap UE to perform random access</li> <li>Enabling/disabling of frequency hopping for common PUCCH resources</li> <li>Separate initial DL BWP for RedCap UEs;</li> <li>It includes CSS/CORESET for random access</li> <li>For separate initial DL BWP only used for Paging, CD-SSB is included</li> <li>For separate initial DL BWP only used for RACH, SSB may or may not be included</li> <li>For separate initial DL BWP used in connected mode as BWP#0 configuration option 1, CD-SSB is included</li> <li>I UE-specific RRC configured DL BWP per carrier;</li> <li>UE-specific RRC configured DL BWP per carrier;</li> <li>UE-specific RRC-configured DL BWP with CD-SSB or NCD-SSB;</li> <li>NCD-SSB based measurements in RRC-configured DL BWP.</li> </ul> </li> </ul>	UE	CY	No

# 4.2.21.3 PDCP parameters

Definitions for parameters	Per	Μ	FDD- TDD DIFF
longSN-RedCap-r17	UE	No	No
Indicates whether the RedCap UE supports 18 bit length of PDCP sequence number.			
I his capability is only applicable for RedCap UEs.			

### 4.2.21.4 RLC parameters

Definitions for parameters	Per	Μ	FDD- TDD DIFF
am-WithLongSN-RedCap-r17	UE	No	No
Indicates whether the RedCap UE supports AM DRB with 18 bit length of RLC sequence number. This capability is only applicable for RedCap UEs.			

### 4.2.21.5 MeasAndMobParameters

Definitions for parameters	Per	М	FDD- TDD DIFF	FR1- FR2 DIFF
rrm-RelaxationRRC-ConnectedRedCap-r17	UE	No	No	No
Indicates whether UE supports Rel-17 relaxed RRM measurements in				
RRC_CONNECTED as specified in TS 38.331 [9].				

### 4.2.21.6 Physical layer parameters

### 4.2.21.6.1 *BandNR* parameters

Definitions for parameters	Per	М	FDD- TDD DIFF	FR1- FR2 DIFF
<i>bwp-WithoutCD-SSB-OrNCD-SSB-RedCap-r17</i> Indicates support of RRC-configured DL BWP without CD-SSB or NCD-SSB. The UE can include this field only if the UE supports <i>supportOfRedCap-r17</i> .	Band	No	N/A	N/A
<i>halfDuplexFDD-TypeA-RedCap-r17</i> Indicates support of Half-duplex FDD operation (instead of full-duplex FDD operation) type A for RedCap UE. The UE can include this field only if the UE supports <i>supportOfRedCap-r17</i> .	Band	No	FDD only	FR1 only

### 4.2.21.7 SON parameters

Definitions for parameters	Per	м	FDD- TDD DIFF	FR1- FR2 DIFF
<b>cef-ReportRedCap-r17</b> Indicates whether the RedCap UE supports the storage of connection establishment failure or connection resume failure information and the reporting in <i>UEInformationResponse</i> message as specified in TS 38.331 [9]. It is mandatory with capability signaling for RedCap UEs.	UE	CY	No	No
<i>rlf-ReportRedCap-r17</i> Indicates whether the RedCap UE supports the storage of radio link failure information or handover failure information and the reporting in <i>UEInformationResponse</i> message as specified in TS 38.331 [9]. It is mandatory with capability signaling for RedCap UEs.	UE	CY	No	No

# 5 Optional features without UE radio access capability parameters

## 5.1 PWS features

#### Definitions for feature

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

ETWS

CMAS

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

KPAS

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

Selection of acceptable E-UTRA cell upon HO failure during EPS fallback for emergency call

It is optional for UE to support selecting an acceptable E-UTRA cell supporting emergency call if no suitable E-UTRA cell is available upon handover failure during EPS fallback when the UE has an ongoing emergency call as specified in TS 38.331 [9].

E-UTRA cell selection upon HO failure during EPS services fallback

It is optional for UE to support selecting a suitable E-UTRA cell, and support selecting an acceptable E-UTRA cell supporting emergency call if no suitable E-UTRA cell is available upon handover failure when the UE is performing emergency services fallback as specified in TS 38.331 [9].

# 5.4 Other features

Definitions for feature			
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].			
HSDN cell reselection			
It is optional for UE to support HSDN cell reselection priority handling in RRC_IDLE/RRC_INACTIVE as specified in TS 38.304 [21] and TS 38.331 [9].			
TRS occasions for idle mode and RRC_INACTIVE UEs			
It is optional for UE to support reading TRS configuration from SIB and receiving L1 indication for TRS availability.			
NOTE: Receiving L1 indication via DCI format 2_7 is supported only if the UE supports receiving DCI format 2_7.			
Minimization of service interruption			
It is optional for UE to support minimization of service interruption including reporting to NAS of disaster roaming information for available PLMNs and Access Barring check for Access Identity 3, as specified in TS 38,331 [9].			
Random access prioritisation for Slicing			
It is optional for UE to support slice-based prioritisation for random access as specified in TS 38.321 [8].			
Random access partitioning for Slicing			
It is optional for UE to support slice-based RACH partitioning as specified in TS 38.321 [8].			
Relaxed cell reselection on GSO			
It is optional for UE to support the relaxed cell reselection on GSO.			
Support of polarization signalling in NR NTN			
<ul> <li>It is optional for UE to support the polarization signalling in NR NTN comprised of the following functional components:</li> <li>Support polarization indication reception in SIB indicating DL and/or UL polarization information using respective polarization type parameters to indicate: RHCP or LHCP or linear;</li> <li>Support polarization signalling for target serving cell in handover command message;</li> <li>Support polarization signalling for non-serving cell in RRM measurement configuration.</li> </ul>			

# 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.

### **Receiving NR sidelink of S-SSB**

It is optional for UE to receive S-SSB in NR sidelink and support synchronisation to a reference UE.

# 5.6 RRM measurement features

### Definitions for feature

### High speed inter-frequency IDLE/INACTIVE measurements

It is optional for UE to support high speed inter-frequency measurements in RRC\_IDLE/RRC\_INACTIVE as specified in TS 38.133 [5].

#### Location-based measurement initiation

It is optional for the UE in RRC\_IDLE/RRC\_INACTIVE to support location based RRM measurements of neighbour cells in NTN quasi-Earth fixed cell as specified in TS 38.304 [21].

### 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].

#### Rel-17 relaxed measurement for RRC\_IDLE/RRC\_INACTIVE

It is optional for RedCap UE to support Rel-17 relaxed RRM measurements of neighbour cells in

RRC\_IDLE/RRC\_INACTIVE as specified in TS 38.304 [21].

### Enhanced RRM requirements for measurements in IDLE and INACTIVE modes

It is optional for UE to support enhanced RRM requirements for measurements for NTN bands (FR1 only and FDD only) in RRC\_IDLE/RRC\_INACTIVE as specified in TS 38.133 [5]. If UE does not support this feature, other NTN measurement requirements (as specified in TS 38.133 [5], clause 4.2C.2 for RRC\_IDLE and clause 5.1C.2 for RRC\_INACTIVE) are applied.

#### Time-based measurement initiation

It is optional for the UE in RRC\_IDLE/RRC\_INACTIVE to support time based RRM measurements of neighbour cells in NTN quasi-Earth fixed cell as specified in TS 38.304 [21].

Definitions for feature

# 5.7 MDT and SON features

#### Mobility history information storage

It is optional for UE to support the storage of PCell 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 previousPCellId 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.

### SCG Failure Report for MRO

It is optional for UE to support the delivery of the SCG failure related parameters for MRO in *SCGFailureInformation* message to the network.

#### SpCell ID indication

It is optional for UE to support the delivery of the *spCellID-r17* in the RA-Report, if the RA procedure is performed in a SCell of the MCG/SCG.

### RLF report after successful fast MCG recovery

It is optional for UE to support logging *previousPCellId, lastHO-Type,* and *timeConnFailure* when T316 was not running before entering the PCell in which the radio link failure was detected.

# 5.8 Extended DRX features

#### Definitions for feature

### Rel-17 extended DRX in RRC\_IDLE

It is optional for UE to support Rel-17 extended DRX cycle up to 10485.76 seconds and paging in extended DRX in RRC\_IDLE as specified in TS 38.331 [9] and TS 38.304 [21]. A UE that supports extended DRX shall also support *inactiveStatePO-Determination-r17*.

### 5.9 Sidelink Relay Features

Definitions for feature
L3 sidelink relay UE operation
It is optional for UE to support L3 sidelink relay UE operation as specified in TS 38.331 [9].
L3 sidelink remote UE operation
It is optional for UE to support L3 sidelink remote UE operation as specified in TS 38.331 [9].

## 5.10 MBS features

### Definitions for feature

### **Broadcast reception**

It is optional for UE to support broadcast reception as specified in TS 38.331 [9]. A UE that supports the feature shall also support:

- Group-common PDCCH/PDSCH for broadcast with CRC scrambled by MCCH-RNTI;
- Group-common PDCCH/PDSCH for broadcast with CRC scrambled by G-RNTI(s) for MTCH;
- CFR configuration for broadcast;
- CORESET and common search space for broadcast;
- DCI format 4\_0 with CRC scrambled with G-RNTI/MCCH-RNTI for broadcast;
- Inter-slot TDM between unicast PDSCH and MCCH group-common PDSCH or MTCH group-common PDSCH, or between MCCH group-common PDSCH and MTCH group-common PDSCH, or among unicast PDSCH and MCCH group-common PDSCH and MTCH group-common PDSCH in different slots;
- MCCH change notification indication via DCI;
- RRC configured slot-level repetition up to 8 for MTCH;
- One G-RNTI per UE is supported for broadcast reception;
- Support of FDMed MCCH and PBCH;
- Support of up to 64QAM for FR1/FR2;
- 4 broadcast MRBs as the minimum number;
- PDCP 12 bits SN;
- ROHC with profiles 0x0000, 0x0001 and 0x0002;
- 4 ROHC context sessions;
- RLC UM with 6 bits SN;
- RLC UM with 12 bits SN;
- DRX with long DRX cycle for MBS broadcast as specified in TS 38.321 [8].

### 5.11 Idle/inactive measurement for voice fallback features

#### **Definitions for feature**

Idle/Inactive measurement for voice fallback It is optional for UE to support the idle/inactive measurement for EPS fallback in RRC\_IDLE/RRC\_INACTIVE as specified in TS 38.331 [9].

# Conditionally mandatory features without UE radio access capability parameters

Features	Condition
Acquisition of positioning SI messages with 80 milliseconds offset position compared to SI messages in <i>schedulingInfoList</i>	It is mandatory to support acquisition of positioning SI messages with 80 milliseconds offset position compared to SI messages in <i>schedulingInfoList</i> for UEs which support the acquisition of the posSIB types in <i>posSchedulingInfoList</i> as specified in TS 38.331 [9].
Acquisition of SI messages with explicit SI window positions	It is mandatory to support acquisition of SI messages with explicit SI window positions for UEs which support the SIB types in <i>schedulingInfoList2</i> as specified in TS 38.331 [9].
AS layer memory size for QoE paused measurement reports	It is mandatory to support the minimum AS layer memory size of 64KB for QoE paused measurement reports for UEs which support <i>qoe-Streaming-MeasReport-r17</i> , <i>qoe-MTSI-</i> <i>MeasReport-r17</i> or <i>qoe-VR-MeasReport-r17</i> .
Downlink SDAP header	Either NAS reflective QoS or as-ReflectiveQoS is supported.
Extended values for drx-HARQ-RTT-TimerDL/UL	It is mandatory for UEs which support FR2-2 bands with SCS 480kHz and/or 960kHz.
IMS emergency call	It is mandatory to support IMS emergency call over PLMN for UEs which are IMS voice capable in NR. It is mandatory to support IMS emergency call over SNPN for UEs that are SNPN capable and IMS voice capable over SNPNs.
Logged measurements suspension due to IDC interference	It is mandatory to support Logged measurements suspension due to IDC interference for UEs which are supporting logged measurements in RRC_IDLE and RRC_INACTIVE upon request from the network and in-device coexistence indication as specified in TS 38.331 [9].
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].
Paging cause in RAN paging message	It is mandatory for a UE to support paging cause in RAN paging if UE supports paging cause in CN paging.
Skipping UL configured grant if no data to transmit, as specified in release-15 version of TS 38.321 [8].	Either configuredUL-GrantType1 or <i>configuredUL-GrantType1-v1650</i> or configuredUL-GrantType2 or <i>configuredUL-GrantType2-v1650</i> is supported.
TA reporting during initial access	It is mandatory to support TA reporting during initial access for UEs supporting <i>uplink-TA-Reporting-r17</i> 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.	8 per UE, for RedCap UEs. 16 per UE, otherwise. NOTE 1 NOTE 3 NOTE 4	
#minCellperMeasObj ectNR	The minimum number of neighbour cells (excluding exclude-list cells) that a UE shall be able to store associated with a MeasObjectNR.	32 NOTE 2	
#minExcludedCellRa ngesperMeasObject NR	The minimum number of exclude-list cell PCI ranges that a UE shall be able to store associated with a MeasObjectNR.	8	
#minExcludedCellpe rMeasObjectEUTRA	The minimum number of exclude-list 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 exclude-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	
<ul> <li>NOTE 1: For one MAC entity, the maximum number of DRBs configured with PDCP duplication and with RLC entity(ies) associated with this MAC entity is 8.</li> <li>NOTE 2: In case of CGI reporting, the limit regarding the cells configured includes the cell for which the UE is requested to report CGI i.e. the amount of neighbour cells that can be included is at most (# minCellperMeasObjectRAT - 1), where RAT represents NR and EUTRA.</li> <li>NOTE 3: This requirement is applicable in NR SA, NR-DC and NE-DC.</li> </ul>			
NOTE 4: The value of each multic	NOTE 4: The value of parameter #DRBs defines the total number of multicast MRBs and DRBs, and each multicast MRB associated with two RLC entities is counted as two RBs.		

# 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 UF-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 including	g the serving cell(s) configured	
with configured grant.		
NOTE 2: For a given logical channel, the associated serving cells including the		
PUCCH cell(s) associated with this logical channel (via		
schedulingRequestID).		
NOTE 3: The associated serving cells including	g both the cell sending the	
command and the cell applying the command.		

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

# 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 <i>Ich-ToSCellRestriction</i> capability, the associated serving cells includes all serving cells in the CG; for a UE that supports <i>Ich-ToSCellRestriction</i> capability, the associated serving cells includes the serving cells indicated by <i>allowedServingCells</i> for the LCH.		
NOTE 2: The associated serving cells including both the cell sending the command and the cell applying the command.		

Table A.2-1: 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 associated serving cells including the		
PUCCH cell(s) associated with this logical channel (via		
schedulingRequestID).		

# 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	UECapabilitvInformation	UECapabilityInformationSidelink
accessStratumReleaseSi		X
delink		
outOfOrderDeliverySideli		Х
nk		
am-WithLongSN-Sidelink	Х	Х
um-WithLongSN-Sidelink	Х	Х
Icp-RestrictionSidelink	Х	
logicalChannelSR-	Х	
DelayTimerSidelink		
multipleSR-	X	
ConfigurationsSidelink		
multipleConfiguredGrants	X	
Sidelink		
supportedBandCombinati	X	
onListSidelinkEUTRA-NR		
supportedBandCombinati		Х
onListSidelinkNR		
gnb-	X	
EUIRA	×	
gno- SchodulodModo4Sidolink	^	
sl-Reception	Y	Y
sl-TransmissionMode1	X	<u>^</u>
sl-TransmissionMode2	X	
sl-TransmissionMode2-	X	
PartialSensing	~	
sl-TransmissionMode2-	x	
RandomResourceSelecti		
on		
sync-Sidelink	Х	
congestionControlSidelin	Х	
k		
sI-Tx-256QAM	Х	Х
sI-Rx-256QAM	Х	Х
psfch-	Х	
FormatZeroSidelink		
lowSE-64QAM-MCS-	Х	Х
TableSidelink		
csi-ReportSidelink		Х
enb-sync-Sidelink	Х	
rankTwoReception		Х
fewerSymbolSlotSidelink	X	
sl-openLoopPC-RSRP-	X	Х
ReportSidelink		
rx-IUC-Scheme1-	X	X
Preferrediviode2Sidelink	X	X
IX-IUC-Schemet-	^	X
ink		
	v	v
Mode2Sidelink	^	^
rx-IIIC-Scheme1-SCI	x	X
tx-Sidelink	X	<u>л</u>
rx-Sidelink	X	
ue-PowerClassSidelink	X	
drx-OnSidelink	X	X
enhancedUuDRX-	X	
forSidelink		
relayUE-Operation-L2	х	
remoteUE-Operation-L2	Х	
remoteUE-	Х	
PathSwitchToldleInactive		
Relav		

supportedBandCombinati	Х	
onListSL-RelayDiscovery		
supportedBandCombinati	Х	
onListSL-		
NonRelayDiscovery		
rx-IUC-Scheme1-SCI-	Х	X
ExplicitReq		
scheme2-		X
ConflictDeterminationRS		
RP		
tx-IUC-Scheme2-	Х	Х
Mode2Sidelink		
tx-IUC-Scheme1-	Х	X
Mode2Sidelink		
rx-sidelinkPSFCH	Х	
p0-OLPC-Sidelink	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 <i>bwp-DiffNumerology</i> and <i>bwp-SameNumerology</i> , the supported number of BWPs				
for each band is still based on the indi	cated number for this band regardless of			
whether it is a scheduling cell or sched	duled cell.			
NOTE 2: For crossCarrierSchedulingProcessing	NOTE 2: For crossCarrierSchedulingProcessing-DiffSCS-r16, if reported value is different			
between the band of the scheduled/triggered/indicated cell and the band of the				
scheduling/triggering/indicating cell, the value reported for the				
scneauing/triggering/indicating cell is applied.				
JIE 3: Applicable for cross carrier scheduling with the same SCS in the scheduling cell and				
the scheduled cell. If the reported value is different between the band of the				
scheduled/triggered/indicated cell and the band of the scheduling/triggering/indicating				

 Table A.5-1: General UE capabilities for which differentiation is allowed
## Annex B (informative): UE capability indication for UE capabilities with both FDD/TDD and FR1/FR2 differentiations

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

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Table D-1. Of capability indication for of capabilities with both FDD/1DD and FR1/FR2 differentiation	Table B-1: UE capability	indication for UE car	pabilities with both Fl	DD/TDD and FR1/FR2	differentiations
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S	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' FR2 TDD: 'supported'	Not included	Included	Not included	Included	Not included	Not included
	The 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	does not support	the UE capability i	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: 'pot supported'	Included	Not included	Not included	Not included	Included	Not included
		Not included	Not included	Not included	Not included	Included	Not included

NOTE 1: For a UE capability which cannot be differentiated between FR2-1 and FR2-2, 'FR2 TDD' in Table B-1 includes both 'FR2-1 TDD' and 'FR2-2 TDD'. NOTE 2: For a UE capability which can be differentiated between FR2-1 and FR2-2, 'FR2 TDD' in Table B-1 only means 'FR2-1 TDD'.

## Annex C (informative): Change history

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						Change history	
Date	Meeting	TDoc	CR	Rev	Cat	Subject/Comment	New version
06/2017	RAN2#9 8	R2-1704810				First version	0.0.1
06/2017	RAN2#N R2	R2-1707386					0.0.2
08/2017	RAN2#9 9	R2-1708750					0.0.3
12/2017	RAN2#1 00	R2-1712587					0.0.4
12/2017	RAN2#1 00	R2-1714141					0.0.5
12/2017	RAN2#1 00	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-80	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-80	RP-181216	0013	-	В	Delay budget report and MAC CE adaptation for NR for TS 38.306	15.2.0
09/2018	RP-81	RP-181940	8000	4	F	Correction on total layer2 buffer size	15.3.0
	RP-81	RP-181942	0024	1	F	Introduction of UE capability constraints	15.3.0
	RP-81	RP-181942	0030	-	F	38.306 corrections and cleanup	15.3.0
12/2018	RP-82	RP-182651	0016	4	F	Clarification for Interruption-based and gap-based SFTD measurement	15.4.0
	RP-82	RP-182653	0033	1	F	Timer based BWP switching	15.4.0
	RP-82	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 NR measurement not yet configured with EN-DC	15.4.0
	RP-82	RP-182661	0038	2	F	Update of L2 capability parameters	15.4.0
	RP-82	RP-182660	0047	2	F	Clarification on physical layer parameters of UE capability	15.4.0
	RP-82	RP-182666	0050	3	F	Introduce RRC buffer size in NR	15.4.0
	RP-82	RP-182664	0051	2	F	Clarification of multipleConfiguredGrants	15.4.0
	RP-82	RP-182664	0052	2	F	CR to 38.306 for PDCP CA duplication for SRB	15.4.0
	RP-82	RP-182661	0054	1	F	UE capability handling for FDD/TDD and FR1/FR2	15.4.0
	RP-82	RP-182663	0057	1	F	Clarify for per CC UL/DL modulation order capabilities	15.4.0
	RP-82	RP-182664	0058	1	F	Inter-frequency handover capability	15.4.0
	RP-82	RP-182665	0060	3	F	UE capability on PA architecture	15.4.0
	RP-82	RP-182661	0062	1	F	CR on signaling contiguous and non-contiguous EN-DC capability	15.4.0
	RP-82	RP-182813	0063	6	F	Update of UE capabilities	15.4.0
	RP-82	RP-182662	0065	2	F	Introduction of SRS switching capability	15.4.0
	RP-82	RP-182667	0068	2	В	CR on introduction of UE overheating support in NR SA scenario	15.4.0
	RP-82	RP-182664	0071	-	F	Introduction of SRS switching capability	15.4.0
03/2019	RP-83	RP-190634	0073	1	F	Capability for aperiodic CSI-RS triggering with different numerology between PDCCH and CSI-RS	15.5.0
	RP-83	RP-190542	0074	1	F	Layer-1 capability update	15.5.0
	RP-83	RP-190545	0075	2	F	CR to 38.306 on introducing nr-CGI-Reporting-ENDC	15.5.0
	RP-83	RP-190545	0086	2	F	CR to clarify intra-NR handover capabilities	15.5.0
	RP-83	RP-190546	0088	3	F	Clarification for PDSCHs and PUSCHs per slot for different TBs for UE capable of processing time capability 1	15.5.0

	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	15.5.0
						usage	
	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-84	RP-191373	0108	-	F	Laver-1. RF and RRM capability updates	15.6.0
	RP-84	RP-191373	0109	-	F	Clarification on UE capability of Ich-ToSCellRestriction	15.6.0
	RP-84	RP-191379	0110	2	F	Correction on description of additionalActiveSpatialRelationPUCCH	15.6.0
	RP-84	RP-191378	0111	1	F	Clarification on csi-RS-CFRA-ForHO	15.6.0
	RP-84	RP-191379	0114	2	F	CR on capability of maxUplinkDutyCycle for FR2	15.6.0
	RP-84	RP-191380	0115	2	F	38.306 miscellaneous corrections	15.6.0
	RP-84	RP-191378	0116	1	В	38.306 CR for late drop	15.6.0
	RP-84	RP-191381	0118	4	F	Clarification on supported modulation order capability	15.6.0
	RP-84	RP-191374	0119	-	F	Correction to PDCP parameters	15.6.0
	RP-84	RP-191381	0121	3	F	Corrections to UE Capability definitions	15.6.0
	RP-84	RP-191378	0122	1	F	38.306 Clarification on multiple TA capabilities	15.6.0
	RP-84	RP-191379	0123	2	F	CR to clarify non-codebook based PUSCH transmission	15.6.0
	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-84	RP-191378	0126	1	F	Clarification on SA fallback BC support	15.6.0
	RP-84	RP-191375	0128	<u> </u>	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-191379	0132	1	F	CR to capture UE supported DL/UL bandwidths	15.6.0
	RP-84	RP-191376	0133	-	F	UE capability signalling for FD-MIMO processing capabilities for EN- DC	15.6.0
	RP-84	RP-191376	0134	-	F	Modified UE capability on different numerologies within the same	15.6.0
	RP-84	RP-191554	0135	-	F	Removal of "Capability for aperiodic CSI-RS triggering with different numerology between PDCCH and CSI-RS"	15.6.0
09/2019	RP-85	RP-192196	0136	1	С	Additional capability signalling for 1024QAM support	15.7.0
	RP-85	RP-192191	0142	1	B	Introduction of SFTD measurement to neighbour cells for NR SA	15.7.0
	RP-85	RP-192193	0146	1	F	MR-DC measurement gap pattern capability	15.7.0
	RP-85	RP-192194	0151	3	F	Clarifying UE capability freqHoppingPUCCH-F0-2 and freqHoppingPUCCH-F1-3-4	15.7.0
<u> </u>	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-192190	0154	-	F	Capability of measurement gap patterns	15.7.0
	RP-85	RP-192193	0155	2	F	Correction to IMS capability	15.7.0
<u> </u>	RP-85	RP-192194	0156	3	F	UE Capabilities covering across all serving cells	15.7.0
	RP-85	RP-192190	0167	-	F	Clarification on UE capability on different numerologies within the same PUCCH group	15.7.0
<u> </u>	RP-85	RP-192193	0168	1	F	Correction on CA parameters in NR-DC	15.7.0
	RP-85	RP-192346	0169	-	С	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	0191	1	F	Corrections on PDCCH blind decoding in NR-DC	15.8.0
	RP-86	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-	15.8.0
	RP-86	RP-192937	0215	1	F	Correction on initial BWP bandwidth canabilities	1580
	RP-86	RP-192937	0216	1	F	NE-DC dynamic power sharing capability	15.8.0
	RP-86	RP-192935	0210		F	Clarification on crossCarrierScheduling-OtherSCS in R15	15.8.0
	RP-86	RP-102037	0210	_	F	Correction on ambiguity of LIE EDD/TDD ER1/ER2 canabilities	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)	1590
	RP-87	RP-200335	0209	5	F	CR to 38.306 on support of 70MHz channel bandwidth	15.9.0
	RP-87	RP-200334	0236	-	F	Correction on SRB capability in NR-DC	15.9.0
	RP-87	RP-200335	0248	2	F	Data rate for the case of single carrier standalone operation	15.9.0
	RP-87	RP-200334	0254	1	F	CR on the maximum stored number of deprioritisation frequencies	15.9.0
	RP-87	RP-200335	0255	2	F	Miscellaneous Corrections to LIE capability parameters	15.9.0
	RP-87	RP-200335	0259	1	F	UE capability of intra-hand requirements for inter-hand EN-DC/NE-DC	15.9.0
03/2020	RP-87	RP-200356	0145	1	F	CR on capability of maxUplinkDutyCycle for inter-band EN-DC PC2 UE	16.0.0
	RP-87	RP-200335	0214	2	F	Correction on beamSwitchTiming values of 224 and 336	16.0.0
	RP-87	RP-200335	0223	1	С	Inclusion of 90MHz UE Bandwidth	16.0.0
	RP-87	RP-200358	0226	2	В	Introducing autonomous gap in CGI reporting	16.0.0
	RP-87	RP-200357	0229	-	В	UE capability for IDC	16.0.0
	RP-87	RP-200340	0230	-	В	Introduction of Cross Link Interference (CLI) handling and Remote Interference Management (RIM)	16.0.0
	RP-87	RP-200358	0233	1	С	Introduction of EPS voice fallback enhancement	16.0.0
	RP-87	RP-200350	0235	-	В	Introduction of SRVCC from 5G to 3G	16.0.0
	RP-87	RP-200358	0243	1	В	Introduction of DL RRC segmentation	16.0.0
	RP-87	RP-200358	0258	1	В	Introduction of downgraded configuration for SRS antenna switching	16.0.0
	RP-87	RP-200359	0260	-	В	Recommended Bit Rate/Query for FLUS and MTSI	16.0.0
	RP-87	RP-200358	0261	-	В	Introduction of UE capability indicator of supporting inter-RAT handover from NR to EN-DC in 38.306.	16.0.0
07/2020	RP-88	RP-201163	0288	2	А	Correction to the serving cell number for ENDC power class	16.1.0
	RP-88	RP-201187	0289	3	А	CR on introduction of BCS to asymmetric channel bandwidths (38.306)	16.1.0
	RP-88	RP-201160	0295	1	А	SRS Capability report for SRS only Scell	16.1.0
	RP-88	RP-201159	0299	-	А	Clarification on L1 feature of NGEN-DC and NE-DC	16.1.0
	RP-88	RP-201161	0304	2	А	Default values for UE capability	16.1.0
	RP-88	RP-201163	0312	1	А	Invalidating bandwidth class F for FR1	16.1.0
	RP-88	RP-201163	0318	1	A	Missing "Optional features without UE radio access capability parameters"	16.1.0
1	RP-88	RP-201163	0320	1	А	Missing UE capability requirements	16.1.0
1	RP-88	RP-201198	0321	1	С	Introduction of secondary DRX group CR 38.306	16.1.0
1	RP-88	RP-201164	0324	2	А	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 and NE-DC	16.1.0
	RP-88	RP-201162	0343	1	A	Clarification on maximum number of supported PDSCH Resource Element mapping patterns	16.1.0
	RP-88	RP-201164	0344	2	А	Introduction of CGI reporting capabilities	16.1.0
	RP-88	RP-201165	0346	2	А	UE Capability Enhancement for FR1(TDD/FDD) / FR2 CA and DC	16.1.0
	RP-88	RP-201161	0353	-	А	CR on unnecessary XDD FRX differentiation	16.1.0
	RP-88	RP-201162	0355	-	А	Clarification to maxUplinkDutyCycle-FR2	16.1.0
	RP-88	RP-201162	0357	-	А	Clarification on L2 and RAN4 feature of NGEN-DC and NE-DC	16.1.0
	RP-88	RP-201163	0360	1	A	Correction on UE capability signalling for simultaneous SRS antenna and carrier switching	16.1.0
	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	В	Release-16 UE capabilities based on RAN1, RAN4 feature lists and RAN2 corrections	16.2.0
	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
12/2020	RP-90	RP-202790	0419	2	А	CR to clarify UE capability in case of Cross-Carrier operation	16.3.0
	RP-90	RP-202778	0422	1	В	Release-16 UE capabilities based on RAN1, RAN4 feature lists and RAN2 corrections	16.3.0
	RP-90	RP-202767	0424	3	F	Correction on description for extendedRAR-Window	16.3.0
	RP-90	RP-202789	0439	1	F	Clarification on the inter-frequency handover capability	16.3.0
	RP-90	RP-202789	0441	-	А	Clarification on NE-DC for bandwidth combination set	16.3.0
	RP-90	RP-202790	0453	1	А	Removing contradiction on number of FSpUCC and FSpDCC	16.3.0
	RP-90	RP-202789	0461	-	F	Clarification on UE capabilities with FDD/TDD differentiation	16.3.0
	RP-90	RP-202771	0472	4	F	Introduction of capability bit for multi-CC simultaneous TCI activation with multi-TRP	16.3.0
	RP-90	RP-202770	0476	-	A	Dummify UE capability of crossCarrierScheduling-OtherSCS	16.3.0
	RP-90	RP-202789	0479	1	A	Clarification for multipleCORESET	16.3.0
	RP-90	RP-202882	0481	-	А	CR to 38.306 on handling of fallbacks for FR2 CA	16.3.0
03/2021	RP-91	RP-210689	0482	-	F	Update on V2X UE capability	16.4.0
	RP-91	RP-210693	0483	1	F	CR for the supported max date rate for uplink Tx switching	16.4.0
	RP-91	RP-210697	0485	-	F	UE capability of NR to UTRA-FDD CELL_DCH CS handover	16.4.0
	RP-91	RP-210697	0489	2	А	Correction on beamSwitchTiming capability	16.4.0
	RP-91	RP-210697	0490	1	F	Correction on beamSwitchTiming-r16 capability	16.4.0
	RP-91	RP-210697	0491	1	F	Correction on TPMI grouping capability	16.4.0
	RP-91	RP-210692	0501	-	F	Dummifying intraFreqMultiUL-TransmissionDAPS-r16 capability	16.4.0
	RP-91	RP-210694	0502	1	F	Corrections on UE capability for NR-U	16.4.0
	RP-91	RP-210703	0503	2	F	Release with Redirect for connection resume triggered by NAS	16.4.0
	RP-91	RP-210703	0505	2	А	Clarification to LCP restrictions	16.4.0
	RP-91	RP-210691	0506	1	F	Introduction of the UE Capability for SpCell BFR Enhancement	16.4.0
	RP-91	RP-210697	0509	2	F	Clarification on UE capabilities with FDD/TDD differentiation	16.4.0

	RP-91	RP-210805	0512	3	В	Support of 35 MHz and 45 MHz channel bandwidth for FR1	16.4.0
	RP-91	RP-210697	0513	1	F	Clarification on UE capabilities for enhanced MIMO	16.4.0
	RP-91	RP-210703	0516	2	А	CR on the SupportedBandwidth and channelBWs(R16)	16.4.0
	RP-91	RP-210695	0520	2	F	Correction to PUSCH skipping with UCI without LCH-based	16.4.0
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	RP-91	RP-210697	0521	1	F	CR on the Capability of PUCCH Transmissions for HARQ-ACK-38306	16.4.0
	RP-91	RP-210703	0523	2	F	Clarfication on FDD-TDD differentiation for SUL band	16.4.0
	RP-91	RP-210702	0525	1	А	Clarification on single uplink operation capability report	16.4.0
	RP-91	RP-210697	0528	-	F	Addition of TEI16 features	16.4.0
	RP-91	RP-210702	0529	-	А	CR to clarify the definition of fallback per CC feature set	16.4.0
	RP-91	RP-210697	0530	-	F	Capability for dormant BWP switching of multiple SCells	16.4.0
	RP-91	RP-210702	0533	-	А	Dummy the capability bit v2x-EUTRA	16.4.0
	RP-91	RP-210703	0534	2	А	Clarification on the capability of supportedNumberTAG	16.4.0
	RP-91	RP-210701	0537	1	A	Clarification on the supportedBandwidthCombinationSetIntraENDC capability	16.4.0
	RP-91	RP-210697	0538	-	В	Release-16 UE capabilities based on updated RAN1 and RAN4 feature lists	16.4.0
	RP-91	RP-210693	0539	-	В	Uplink Tx DC location reporting for two carrier uplink CA	16.4.0
06/2021	RP-92	RP-211487	0526	5	С	Redirection with MPS Indication [Redirect_MPS_I]	16.5.0
	RP-92	RP-211480	0541	4	F	Miscellaneous corrections to Rel-16 UE capabilities	16.5.0
	RP-92	RP-211475	0542	3	F	Correction on Capability of two PUCCH transmission	16.5.0
	RP-92	RP-211470	0543	3	F	Correction on V2X UE capability	16.5.0
	RP-92	RP-211483	0545	2	А	CR on UE capability in case of Cross-Carrier operation	16.5.0
	RP-92	RP-211470	0547	2	F	Addition of total L2 buffer size and RLC RTT for NR SL	16.5.0
	RP-92	RP-211483	0550	2	А	Correction to BWP capabilities	16.5.0
	RP-92	RP-211482	0566	2	А	CR on the supportedBandwidthCombinationSet-R16	16.5.0
	RP-92	RP-211477	0568	3	А	CR on the 35M45M supporting-R16	16.5.0
	RP-92	RP-211484	0571	2	F	UL Config Grant capability differentiation for FR1(TDD/FDD) / FR2	16.5.0
	RP-92	RP-211474	0572	2	F	Corrections on the UE capability of indication on supporting the extension of SRS resourceID	16.5.0
	RP-92	RP-211478	0573	3	В	Release-16 UE capabilities based on RAN1 and RAN4 feature lists	16.5.0
	RP-92	RP-211480	0575	3	F	Corrections to directional collision handling in half-duplex operation	16.5.0
	RP-92	RP-211478	0578	1	F	Introduction of the intra-NR and inter-RAT HST Capabilities	16.5.0
	RP-92	RP-211483	0594	-	A	Correction to the use of simultaneous CSI-RS resources	16.5.0
	RP-92	RP-211478	0596	1	А	Clarification on BCS of a fallback band combination	16.5.0
	RP-92	RP-211478	0599	1	А	Further clarification on supportedNumberTAG	16.5.0
	RP-92	RP-211478	0608	1	А	Clarification on maximum number of TCI-state for PDSCH	16.5.0
	RP-92	RP-211475	0609	-	F	Capability bit for extending search space switching trigger configuration	16.5.0
	RP-92	RP-211471	0610	1	С	NR-DC Cell Group capability filtering	16.5.0
09/2021	RP-93	RP-212439	0518	4	А	CR on the Intra-band and Inter-band EN-DC Capabilities -R16	16.6.0
	RP-93	RP-212439	0562	3	A	Clarification on the simultaneousRxTxInterBandCA capability in NR- DC	16.6.0
	RP-93	RP-212438	0613	1	А	Correction to the description of additionalActiveTCI-StatePDCCH	16.6.0
	RP-93	RP-212439	0619	1	А	Definition of fallback per CC feature set	16.6.0
	RP-93	RP-212443	0626	1	F	Miscellaneous corrections to UE capability descriptions	16.6.0
	RP-93	RP-212439	0631	1	А	Support of newly introduced 100M bandwidth for band n40	16.6.0
	RP-93	RP-212438	0633	-	А	Correction on fallback band combination for SUL	16.6.0
	RP-93	RP-212440	0641	- 1	F	FR1/FR2 differentiation for enhanced UL grant skipping capabilities	16.6.0
	RP-93	RP-212597	0643	2	С	Distinguishing support of extended band n77	16.6.0

12/2021	RP-94	RP-213341	0640	2	А	Simultaneous Rx/Tx UE capability per band pair	16.7.0
	RP-94	RP-213344	0645	2	F	Updates based on RAN1 NR positioning features list	16.7.0
	RP-94	RP-213342	0646	1	С	Duty cycle signalling for power class 1.5	16.7.0
	RP-94	RP-213343	0647	1	F	Correction on R16 UE capability of supportedSINR-meas-r16	16.7.0
	RP-94	RP-213341	0656	1	А	Clarification on intraAndInterF-MeasAndReport capability	16.7.0
	RP-94	RP-213341	0658	-	А	Miscellaneous corrections for Rel-15 UE capabilities	16.7.0
	RP-94	RP-213346	0659	-	F	Miscellaneous corrections for Rel-16 UE capabilities	16.7.0
	RP-94	RP-213345	0660	1	С	CR on 38.306 for introducing UE capability of txDiversity	16.7.0
	RP-94	RP-213346	0661	1	F	Clarification on UL MIMO layer reporting for 1Tx-2Tx switching	16.7.0
	RP-94	RP-213346	0664	-	F	Correction on two HARQ-ACK codebooks capability	16.7.0
03/2022	RP-95	RP-220835	0635	3	F	Adding UE capability of UL MIMO coherence for UL Tx switching	16.8.0
	RP-95	RP-220473	0677	1	F	Correction on DAPS capability	16.8.0
	RP-95	RP-220473	0688	1	F	Introduction of sidelink power class capability indication	16.8.0
	RP-95	RP-220473	0695	1	F	Correction on ssb-csirs-SINR-measurement-r16 capability	16.8.0
03/2022	RP-95	RP-220499	0532	2	С	Remove the maximum number of MIMO layers restrictions for SUL	17.0.0
	RP-95	RP-220837	0650	2	В	Introduction of mobility-state-based cell reselection for NR HSDN [NR_HSDN]	17.0.0
	RP-95	RP-220921	0667	2	С	Pi/2-BPSK specification updates for the merger of 5Gi into 3GPP	17.0.0
	RP-95	RP-220472	0679	1	F	Correction on PO determination for UE in inactive state	17.0.0
	RP-95	RP-220838	0685	1	В	Release-17 UE capabilities based on R1 and R4 feature lists (TS38.306)	17.0.0
	RP-95	RP-220506	0686	1	D	Inclusive Language Review for TS 38.306	17.0.0
	RP-95	RP-220510	0698	1	В	Capability for Explicit Indication of SI Scheduling window position [SI- SCHEDULING]	17.0.0
06/2022	RP-96	RP-221721	0690	2	В	CR on the CBM/IBM reporting-38306	17.1.0
	RP-96	RP-221756	0703	2	В	Release-17 UE capabilities based on R1 and R4 feature lists (TS38.306)	17.1.0
	RP-96	RP-221756	0710	1	А	Clarification on simultaneous Rx/Tx capability per band pair	17.1.0
	RP-96	RP-221736	0714	2	С	Distinguishing support of band n77 restrictions in Canada [n77 Canada]	17.1.0
	RP-96	RP-221756	0715	1	F	Correction on the UE capability of extension of TDRA indication for Configured UL Grant type 1	17.1.0
	RP-96	RP-221756	0716	1	А	Correction on the UE capability description of the overlapping PDSCH	17.1.0
	RP-96	RP-221756	0731	1	С	Adding UE capability of CSI reporting cross PUCCH SCell group	17.1.0
	RP-96	RP-221756	0733	1	А	Clarification on miscellaneous UE capabilities	17.1.0
	RP-96	RP-221756	0741	1	A	Clarification on the applicability of mixed numerology on UE capability maxNumberCSI-RS-RRM-RS-SINR	17.1.0
	RP-96	RP-221756	0743	-	A	Correction to multi-DCI multi-TRP and new UE capability to limit PDCCH monitoring	17.1.0
	RP-96	RP-221756	0744	-	А	Clarification on configuredUL-GrantType1-v1650	17.1.0
	RP-96	RP-221756	0746	1	С	Introduction UE capability for CHO with SCG configuration [CHOwithDCkept]	17.1.0
	RP-96	RP-221736	0747	1	В	Introduction of gNB ID length reporting in the NR CGI report [gNB_ID_Length]	17.1.0
	RP-96	RP-221756	0750		С	Introduction of uplink RRC Segmentation capability	17.1.0
	RP-96	RP-221756	0751	_	А	bwp-SwitchingDelay conditionally mandatory capability	17.1.0
	RP-96	RP-221792	0756	2	А	HARQ-ACK multiplexing on PUSCH in the absence of PUCCH	17.1.0
09/2022	RP-97	RP-222519	0761	1	A	Clarification on power sharing UE capability	17.2.0
	RP-97	RP-222527	0764	1	В	Release-17 UE capabilities based on R1 and R4 feature lists (TS38.306)	17.2.0

	RP-97	RP-222526	0769	-	F	Corrections to the description of gNB ID length reporting capabilities [gNB_ID_Length]	17.2.0
	RP-97	RP-222526	0774	1	В	38306 CR for Early measurement for EPS fallback [IdleMeaEPSFB]	17.2.0
	RP-97	RP-222521	0781	1	А	Correction for the capability of SRS-PeriodicityAndOffset	17.2.0
	RP-97	RP-222519	0786	1	Α	Correction on crossCarrierA-CSI-trigDiffSCS-r16 (38.306)	17.2.0
	RP-97	RP-222526	0788	1	F	Ensuring consistent support of capability bits and associated NS- values in n77 in USA and Canada	17.2.0
	RP-97	RP-222520	0790	1	А	Correction on PDCCH blind detection capability in CA	17.2.0
	RP-97	RP-222520	0792	1	Α	Clarification on pusch-RepetitionTypeA-r16 capability	17.2.0
	RP-97	RP-222518	0798	2	Α	Correction on sidelink capability	17.2.0
	RP-97	RP-222526	0802	-	В	Start drx-HARQ-RTT-TimerUL after last repetition [ulHARQ_RTT_Timer]	17.2.0
	RP-97	RP-222522	0803	-	F	Corrections on CRS-IM network assistance information	17.2.0
	RP-97	RP-222552	0805	1	В	38.306 CR for introduction of MBS PDSCH FDM capabilities	17.2.0
12/2022	RP-98	RP-223408	0699	2	А	Corrections to SON/MDT capabilities	17.3.0
	RP-98	RP-223413	0811	1	А	Correction to definition of dualPA-Architecture capability indication	17.3.0
	RP-98	RP-223414	0822	2	С	Introduction of capabilities for emergency service related fallback [CellSelection_EmergencyFallback]	17.3.0
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