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History

Foreword

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1 Scope

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

2 References

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

- References are either specific (identified by date of publication, edition number, version number, etc.) or non-specific.
- For a specific reference, subsequent revisions do not apply.
- For a non-specific reference, the latest version applies. In the case of a reference to a 3GPP document (including a GSM document), a non-specific reference implicitly refers to the latest version of that document *in the same Release as the present document*.
- [1] 3GPP TR 21.905: "Vocabulary for 3GPP Specifications".
- [2] 3GPP TS 38.101-1: "NR; User Equipment (UE) radio transmission and reception Part 1: Range 1 Standalone".
- [3] 3GPP TS 38.101-2: "NR; User Equipment (UE) radio transmission and reception Part 2: Range 2 Standalone".
- [4] 3GPP TS 38.101-3: "NR; User Equipment (UE) radio transmission and reception Part 3: Range 1 and Range 2 Interworking operation with other radios".
- [5] 3GPP TS 38.133: "NR; Requirements for support of radio resource management".
- [6] 3GPP TS 38.211: "NR; Physical channels and modulation".
- [7] 3GPP TS 37.340: "Evolved Universal Terrestrial Radio Access (E-UTRA) and NR Multiconnectivity".
- [8] 3GPP TS 38.321: "NR; Medium Access Control (MAC) protocol specification".
- [9] 3GPP TS 38.331: "NR; Radio Resource Control (RRC) protocol specification".
- [10] 3GPP TS 38.212: "NR; Multiplexing and channel coding".
- [11] 3GPP TS 38.213: "NR; Physical layer procedures for control".
- [12] 3GPP TS 38.214: "NR; Physical layer procedures for data".
- [13] 3GPP TS 38.215: "NR; Physical layer measurements".
- [14] 3GPP TS 36.101: "Evolved Universal Terrestrial Radio Access (E-UTRA) radio transmission and reception".
- [15] 3GPP TS 36.306: "Evolved Universal Terrestrial Radio Access (E-UTRA) User Equipment (UE) radio access capabilities".
- [16] 3GPP TS 38.323: "NR; Packet Data Convergence Protocol (PDCP) specification".
- [17] 3GPP TS 36.331: "Evolved Universal Terrestrial Radio Access (E-UTRA) Radio Resource Control (RRC); Protocol Specification".
- [18] 3GPP TS 38.101-4: "NR; User Equipment (UE) radio transmission and reception Part 4: Performance requirements".
- [19] 3GPP TS 36.213: "Evolved Universal Terrestrial Radio Access (E-UTRA); Physical layer procedures".

- [20] 3GPP TS 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".

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.

3.2 Symbols

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

MaxDLDataRate:	Maximum DL data rate
MaxDLDataRate MN:	Maximum DL data rate in the MN
MaxDLDataRate_SN:	Maximum DL data rate in the SN
MaxULDataRate:	Maximum UL data rate
MaxSLtxDataRate:	Maximum SL data rate in transmission
MaxSLrxDataRate:	Maximum SL data rate in reception

3.3 Abbreviations

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

BAP	Backhaul Adaptation Protocol
BC	Band Combination
BT	Bluetooth
DAPS	Dual Active Protocol Stack
DL	Downlink
EHC	Ethernet Header Compression
FS	Feature Set
FSPC	Feature Set Per Component-carrier
GSO	Geosynchronous Orbit
HSDN	High Speed Dedicated Network
IAB-MT	Integrated Access Backhaul Mobile Termination
MAC	Medium Access Control
MBS	Multicast/Broadcast Service
MCG	Master Cell Group
MN	Master Node
MRB	MBS Radio Bearer
MR-DC	Multi-RAT Dual Connectivity
MUSIM	Multi-Universal Subscriber Identity Module
NCSG	Network Controlled Small Gap
NGSO	Non-Geosynchronous Orbit
NTN	Non-Terrestrial Network
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
SN	Secondary Node
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 $R_{\text{max}}=948/1024$

For the j-th CC,

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

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

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

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

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

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

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

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

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

- NOTE 1: Only one of the UL or SUL carriers (the one with the higher data rate) is counted for a cell operating SUL.
- NOTE 2: For UL Tx switching between carriers, only the supported MIMO layer combination across carriers that results in the highest combined data rate is counted for the carriers in the supported maximum UL data rate.

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

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

NOTE 3: As an example, the value 4 in the component above can correspond to $v_{Layers}^{(j)} = 1$, $Q_m^{(j)} = 4$ and $f^{(j)} = 1$.

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

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

wherein

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

 TBS_j is the total maximum number of DL-SCH transport block bits received or the total maximum number of UL-SCH transport block bits transmitted, within a 1ms TTI for j-th CC, as derived from TS36.213 [19] based on

the UE supported maximum MIMO layers for the j-th CC, and based on the maximum modulation order for the j-th CC and number of PRBs based on the bandwidth of the j-th CC according to indicated UE capabilities.

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

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

4.1.3 Void

4.1.4 Total layer 2 buffer size for DL/UL

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

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

- MaxULDataRate_MN * RLCRTT_MN + MaxULDataRate_SN * RLCRTT_SN + MaxDLDataRate_SN * RLCRTT_SN + MaxDLDataRate_MN * (RLCRTT_SN + X2/Xn delay + Queuing in SN)
- MaxULDataRate_MN * RLCRTT_MN + MaxULDataRate_SN * RLCRTT_SN + MaxDLDataRate_MN * RLCRTT_MN + MaxDLDataRate_SN * (RLCRTT_MN + X2/Xn delay + Queuing in MN)

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

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

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

wherein

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

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

RLC RTT for EUTRA cell group = 75ms

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

SCS (kHz)	RLC RTT (ms)
15KHz	50
30KHz	40
60KHz	30
120KHz	20
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) =
$$10^{-6} \cdot v_{Layers} \cdot Q_m \cdot f \cdot R_{max} \cdot \frac{N_{PRB}^{BW,\mu} \cdot 12}{T_s^{\mu}} \cdot (1 - OH)$$

DIA

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 higher layer parameter *rankTwoReception*, Q_m is the maximum supported modulation order between 6 or 8 given by higher layer parameter *sl*-*Tx*-256QAM and *sl*-*Rx*-256QAM,

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

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

normal cyclic prefix is assumed.

 $N_{PRB}^{BW,\mu}$ is the maximum possible RB allocation in bandwidth BW for PSSCH, where BW is the UE supported maximum bandwidth in the given band or band combination,

OH is the overhead and takes the following values

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

4.1.6 Total layer 2 buffer size for NR SL

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

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

MaxSLtxDataRate * RLC RTT + MaxSLrxDataRate * RLC RTT.

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

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

wherein

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

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

Table 4.1.6-1: RLC RTT for NR sidelink communication per SCS

4.2 UE Capability Parameters

4.2.1 Introduction

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

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

For capabilities that required to be set consistently for all FDD-FR1 bands (i.e. capabilities that are supposed to be per UE), the UE shall also set capability values for all SUL bands with same values for FDD-FR1 bands if SUL band is supported by the UE.

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

- 1> set all fields of UE-NR/MRDC-Capability except fdd-Add-UE-NR/MRDC/Sidelink-Capabilities, tdd-Add-UE-NR/MRDC/Sidelink-Capabilities, fr1-Add-UE-NR/MRDC-Capabilities and fr2-Add-UE-NR/MRDC-Capabilities, to include the values applicable for all duplex mode(s) and frequency range(s) that the UE supports;
- 1> if UE supports both FDD (or SUL) and TDD and if (some of) the UE capability fields have a different value for FDD (or SUL) and TDD
 - 2> if for FDD (and, if the UE supports SUL, for SUL), the UE supports additional functionality compared to what is indicated by the previous fields of UE-NR/MRDC-Capability/SidelinkParameters:
 - 3> include field fdd-Add-UE-NR/MRDC/Sidelink-Capabilities and set it to include fields reflecting the additional functionality applicable for FDD;
 - 2> if for TDD, the UE supports additional functionality compared to what is indicated by the previous fields of UE-NR/MRDC-Capability/SidelinkParameters:
 - 3> include field tdd-Add-UE-NR/MRDC/Sidelink-Capabilities and set it to include fields reflecting the additional functionality applicable for TDD;
- 1> if UE supports both FR1 and FR2 and if (some of) the UE capability fields have a different value for FR1 and FR2:
 - 2> if for FR1, the UE supports additional functionality compared to what is indicated by the previous fields of UE-NR/MRDC-Capability:
 - 3> include field fr1-Add-UE-NR/MRDC-Capabilities and set it to include fields reflecting the additional functionality applicable for FR1;
 - 2> if for FR2, the UE supports additional functionality compared to what is indicated by the previous fields of UE-NR/MRDC-Capability:
 - 3> include field fr2-Add-UE-NR/MRDC-Capabilities and set it to include fields reflecting the additional functionality applicable for FR2;
- NOTE 1: The fields which indicate "shall be set to 1" or "shall be set to *supported*" in the following tables means these features are purely mandatory and are assumed they are the same as mandatory without capability signaling.
- NOTE 2: For the case where the UE is allowed to support different functionality between FDD and TDD and between FR1 and FR2 according to the specification, the UE capability indication is clarified in Annex B.

For optional features, the UE radio access capability parameter indicates whether the feature has been implemented and successfully tested. For mandatory features with the UE radio access capability parameter, the parameter indicates whether the feature has been successfully tested. In the table of UE capability parameter in subsequent clauses, "Yes" in the column by "M" indicates the associated feature is mandatory and "No" indicates the associated feature is optional. "CY" in the column indicates the associated feature is conditional mandatory and the condition is described in the field description and the associated feature is considered mandatory with capability parameter, when the described condition

is satisfied. "FD" in the column indicates to refer the associated field description. Some parameters in subsequent clauses are not related to UE features and in the case, "N/A" is indicated in the column.

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

4.2.2 General parameters

Definitions for parameters	Per	М	FDD- TDD DIFF	FR1- FR2 DIFF
<i>accessStratumRelease</i> Indicates the access stratum release the UE supports as specified in TS 38.331 [9].	UE	Yes	No	No
<i>delayBudgetReporting</i> Indicates whether the UE supports delay budget reporting as specified in TS 38.331 [9].	UE	No	No	No
<i>dl-DedicatedMessageSegmentation-r16</i> Indicates whether the UE supports reception of segmented DL RRC messages.	UE	No	No	No
<i>drx-Preference-r16</i> Indicates whether the UE supports providing its preference of a cell group on DRX parameters for power saving in RRC_CONNECTED, as specified in TS 38.331 [9].	UE	No	No	No
gNB-SideRTT-BasedPDC-r17 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 the corresponding RAN1 feature. Editor's note: The RAN1 feature in the pre-requisite refers to FG25-19/25-19a in R1	UE	No	No	No
feature list that are not concluded yet in RAN1. <i>inactiveState</i>	UE	Yes	No	No
Indicates whether the UE supports RRC_INACTIVE as specified in TS 38.331 [9]. <i>inactiveStatePO-Determination-r17</i> Indicates whether the UE supports to use the same i_s to determine PO in RRC_INACTIVE state as in RRC_IDLE state.	UE	No	No	No
<i>inDeviceCoexInd-r16</i> Indicates whether the UE supports IDC (In-Device Coexistence) assistance information as specified in TS 38.331 [9].	UE	No	No	No
maxBW-Preference-r16, maxBW-Preference-r17 Indicates whether the UE supports providing its preference of a cell group on the maximum aggregated bandwidth for power saving in RRC_CONNECTED, as specified in TS 38.331 [9].	UE	No	No	Yes (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
maxMIMO-LayerPreference-r16, maxMIMO-LayerPreference-r17 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 DIFF
<i>maxMRB-Add-r17</i> Indicates the additional maximum number of MRBs that the UE supports for MBS multicast reception as specified in TS 38.331 [9].	UE	No	No	No
<i>mcgRLF-RecoveryViaSCG-r16</i> Indicates whether the UE supports recovery from MCG RLF via split SRB1 (if supported) and via SRB3 (if supported) as specified in TS 38.331[9].	UE	No	No	No
<i>minSchedulingOffsetPreference-r16</i> Indicates whether the UE supports providing its preference on the minimum scheduling offset for cross-slot scheduling of the cell group for power saving in RRC_CONNECTED, as specified in TS 38.331 [9].	UE	No	No	No
<i>mpsPriorityIndication-r16</i> Indicates whether the UE supports <i>mpsPriorityIndication</i> on RRC release with redirect as defined in TS 38.331 [9].	UE	No	No	No
<i>musimGapPreference-r17</i> Indicates whether the UE supports providing MUSIM assistance information with MUSIM gap preference as defined in TS 38.331 [9].	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 Indicates whether the UE supports NR NTN access. If the UE indicates this capability the UE shall support the following NTN essential features, i.e., 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.	UE	No	No	No

ntn-ScenarioSupport-r17	UE	No	No	No
Indicates whether the UE supports the NTN essential features in GSO scenario or				
NGSO scenario. If a UE does not include this field but includes				
nonTerrestrialNetwork-r17, the UE supports the NTN essential features for both				
GSO and NGSO scenarios, and also supports mobility between GSO and NGSO				
scenarios.				
Editor's Note: FFS on if ntn-ScenarioSupport-r17 also indicates all NTN optional				
features UE indicates have been supported in the corresponding scenario(s)				
onDemandSIB-Connected-r16	UE	No	No	No
Indicates whether the UE supports the on-demand request procedure of SIB(s) or				
posSIB(s) while in RRC_CONNECTED, as specified in TS 38.331 [9].				
overheatingInd	UE	No	No	No
Indicates whether the UE supports overheating assistance information.	UL	INU	INU	INU
		Na	Na	Nia
partialFR2-FallbackRX-Req	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-SDT) with 4-step RA type and if UE supports <i>twoStepRACH-r16,</i> with 2-step RA				
type, as specified in TS 38.331 [9].		NL	NI -	NIa
redirectAtResumeByNAS-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		-		-
<i>DLInformationTransfer</i> 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
	UE	INU	INU	INU
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].				
resumeWithStoredMCG-SCells-r16	UE	No	No	No
Indicates whether the UE supports not deleting the stored MCG SCell configuration				
when initiating the resume procedure.				
resumeWithStoredSCG-r16	UE	No	No	No
Indicates whether the UE supports not deleting the stored SCG configuration when				
initiating resume. The UE which indicates support for resumeWithStoredSCG-r16				
shall also indicate support for resumeWithSCG-Config-r16.				
resumeWithSCG-Config-r16	UE	No	No	No
Indicates whether the UE supports (re-)configuration of an SCG during the resume	02		110	
procedure.				
sliceInfoforCellReselection-r17		No	No	No
	UE	No	No	No
Indicates whether the UE supports slice Information on RRC release for slice based				
cell reselection in RRC _IDLE and RRC INACTIVE as defined in TS 38.304 [21].				
Editor's Note: FFS#1 on the need of an optional without capability signalling for UE				
using only slice info in the SIB for slice based cell reselection in idle and inactive				
mode (i.e. there is no need for gNB to know such UE).				
- '				
Editor's Note: FFS#2 if there is a need to know such UE as in FFS#1 (i.e. it is not				
optional without capability signalling), whether same capability signalling as with UE				
indicating the support of slice info in RRC Release or a separate one is needed for				
UE indicating the support of slice info in SIB)?				
		1		

<i>splitSRB-WithOneUL-Path</i> Indicates whether the UE supports UL transmission via MCG path and DL reception via either MCG path or SCG path, as specified for the split SRB in TS 37.340 [7]. The UE shall not set the FDD/TDD specific fields for this capability (i.e. it shall not include this field in <i>UE-MRDC-CapabilityAddXDD-Mode</i>).	UE	No	No	No
<i>splitDRB-withUL-Both-MCG-SCG</i> Indicates whether the UE supports UL transmission via both MCG path and SCG path for the split DRB as specified in TS 37.340 [7]. The UE shall not set the FDD/TDD specific fields for this capability (i.e. it shall not include this field in UE-MRDC-CapabilityAddXDD-Mode).	UE	Yes	No	No
<i>srb3</i> Indicates whether the UE supports direct SRB between the SN and the UE as specified in TS 37.340 [7]. The UE shall not set the FDD/TDD specific fields for this capability (i.e. it shall not include this field in <i>UE-MRDC-CapabilityAddXDD-Mode</i>). This field is not applied to NE-DC.	UE	Yes	No	No
 srb-SDT-r17 Indicates whether the UE supports the usage of signaling 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 <i>ra-SDT-r17 or cg-SDT-r17</i>. 	UE	No	No	No

4.2.3 SDAP Parameters

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

4.2.4 PDCP Parameters

Definitions for parameters	Per	M	FDD- TDD DIFF
<i>continueEHC-Context-r16</i> Indicates that the UE supports EHC context continuation operation where the UE keeps the established EHC context(s) upon PDCP re-establishment, as specified in TS 38.323 [16].	UE	No	No
<i>continueROHC-Context</i> Defines whether the UE supports ROHC context continuation operation where the UE does not reset the current ROHC context upon PDCP re-establishment, as specified in TS 38.323 [16].	UE	No	No
continueUDC-r17 Defines whether the UE supports continuation of uplink data compression protocol operation where the UE does not reset the buffer upon PDCP re-establishment, as specified in TS 38.323 [16].	UE	No	No
<i>ehc-r16</i> Indicates that the UE supports Ethernet header compression and decompression using EHC protocol, as specified in TS 38.323 [16]. The UE indicating this capability and indicating support for at least one ROHC profile, shall support simultaneous configuration of EHC and ROHC on different DRBs.	UE	No	No
extendedDiscardTimer-r16 Indicates whether the UE supports the additional values of PDCP discard timer. The supported additional values are 0.5ms, 1ms, 2ms, 4ms, 6ms and 8ms, as specified in TS 38.331 [9].	UE	No	No
<i>jointEHC-ROHC-Config-r16</i> Indicates whether the UE supports simultaneous configuration of EHC and ROHC protocols for the same DRB.	UE	No	No
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
operatorDictionary-r17 Defines whether the UE supports UL data compression with operator defined dictionary. In this release, UE can only support one operator defined dictionary. If UE supports operator defined dictionary, the UE shall report <i>versionOfDictionary-r17</i> and <i>associatedPLMN-ID-r17</i> 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 <i>associatedPLMN-ID-r17</i> is only associated to the operator defined dictionary which has no relationship with UE's HPLMN ID.	UE	No	No
outOfOrderDelivery Indicates whether UE supports out of order delivery of data to upper layers by PDCP.	UE	No	No
pdcp-DuplicationMCG-OrSCG-DRB Indicates whether the UE supports CA-based PDCP duplication over MCG or SCG DRB as specified in TS 38.323 [16].	UE	No	No
<i>pdcp-DuplicationMoreThanTwoRLC-r16</i> Defines whether the UE supports PDCP duplication with more than two RLC entities as specified in TS 38.323 [16]. The UE supporting this feature supports secondary RLC entity(ies) activation and deactivation based on duplication RLC Activation/Deactivation MAC CE as specified in TS 38.321 [8]. A UE supporting this feature shall also support <i>pdcp-DuplicationMCG-OrSCG-DRB, pdcp-DuplicationSplitDRB, pdcp-DuplicationSplitSRB</i> and <i>pdcp-DuplicationSRB</i> .	UE	No	No
<i>pdcp-DuplicationSplitDRB</i> Indicates whether the UE supports PDCP duplication over split DRB as specified in TS 38.323 [16].	UE	No	No
pdcp-DuplicationSplitSRB 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	UE	Yes	No
Indicates whether the UE supports 12 bit length of PDCP sequence number. A RedCap			
UE shall set the field to supported.			
Editor's Note: FFS on whether the change is needed.			
supportedROHC-Profiles	UE	No	No
Defines which ROHC profiles from the list below are supported by the UE:			
- 0x0000 ROHC No compression (RFC 5795)			
- 0x0001 ROHC RTP/UDP/IP (RFC 3095, RFC 4815)			
 0x0002 ROHC UDP/IP (RFC 3095, RFC 4815) 			
- 0x0003 ROHC ESP/IP (RFC 3095, RFC 4815)			
- 0x0004 ROHC IP (RFC 3843, RFC 4815)			
- 0x0006 ROHC TCP/IP (RFC 6846)			
- 0x0101 ROHC RTP/UDP/IP (RFC 5225)			
- 0x0102 ROHC UDP/IP (RFC 5225)			
- 0x0103 ROHC ESP/IP (RFC 5225)			
- 0x0104 ROHC IP (RFC 5225)			
A UE that supports one or more of the listed ROHC profiles shall support ROHC profile			
0x0000 ROHC uncompressed (RFC 5795).			
An IMS voice capable UE shall indicate support of ROHC profiles 0x0000, 0x0001,			
0x0002 and be able to compress and decompress headers of PDCP SDUs at a PDCP			
SDU rate corresponding to supported IMS voice codecs.			
standardDictionary-r17	UE	No	No
Defines whether the UE supports UL data compression with SIP static dictionary as			
defined in TS 38.323 [16].			
udc-r17	UE	No	No
Defines whether the UE supports the uplink data compression operation as specified in			
TS 38.323 [16].			
A UE that supports the uplink data compression operation shall support 8192 bytes for			
compression buffer per UDC DRB and support up to 2 UDC DRBs.			
uplinkOnlyROHC-Profiles	UE	No	No
Indicates the ROHC profile(s) that are supported in uplink-only ROHC operation by the			
UE.			
- 0x0006 ROHC TCP (RFC 6846)			
A UE that supports uplink-only ROHC profile(s) shall support ROHC profile 0x0000			
ROHC uncompressed (RFC 5795).			

4.2.5 RLC parameters

Definitions for parameters	Per	М	FDD- TDD DIFF
<i>am-WithShortSN</i> Indicates whether the UE supports AM DRB with 12 bit length of RLC sequence number.	UE	Yes	No
A RedCap UE shall set the field to <i>supported</i> . Editor's Note: FFS on whether the change is needed.			
extendedT-PollRetransmit-r16 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].	UE	No	No
extendedT-StatusProhibit-r16 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].	UE	No	No
<i>um-WithLongSN</i> Indicates whether the UE supports UM DRB with 12 bit length of RLC sequence number.	UE	Yes	No
<i>um-WithShortSN</i> Indicates whether the UE supports UM DRB with 6 bit length of RLC sequence number.	UE	Yes	No

4.2.6 MAC parameters

Definitions for parameters	Per	M	FDD- TDD DIFF	FR1- FR2 DIFF
<i>autonomousTransmission-r16</i> Indicates whether the UE supports autonomous transmission of the MAC PDU generated for a deprioritized configured uplink grant as specified in TS 38.321 [8]. A UE supporting this feature shall also support <i>Ich-priorityBasedPrioritization-r16</i> .	UE	No	No	No
<i>directMCG-SCellActivation-r16, 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].	UE	No	No	Yes (Incl FR2- 2 DIFF)
 directSCG-SCellActivationResume-r16, directSCG-SCellActivationResume-r17 Indicates whether the UE supports direct NR SCG SCell activation, as specified in TS 38.321 [8]: upon reception of an <i>RRCReconfiguration</i> included in an <i>RRCConnectionResume</i> message, as specified in TS 38.331 [9] and TS 36.331 [17], if the UE indicates support of EN-DC or NGEN-DC, and support of <i>resumeWithSCG-Config-r16</i> as specified in TS 38.331 [9], if the UE indicates support of NR-DC and of <i>resumeWithSCG-Config-r16</i> as specified in TS 38.331 [9], if the UE indicates support of NR-DC and of <i>resumeWithSCG-Config-r16</i> as specified in TS 38.331 [9], if the UE indicates support of NR-DC and of <i>resumeWithSCG-Config-r16</i> as specified in TS 38.331 [9]. A UE indicating support of <i>directSCG-SCellActivationResume-r16</i> shall indicate support of EN-DC or NGEN-DC and support of <i>resumeWithSCG-Config-r16</i> as specified in TS 36.331 [17] or indicate support of NR-DC and of <i>resumeWithSCG-Config-r16</i> as specified in TS 38.331 [9]. 	UE	No	No	Yes (Incl FR2- 2 DIFF)
 Indicates updation-r16 Indicates whether the UE supports DRX adaptation comprised of the following functional components: Configured <i>ps</i>-Offset for the detection of DCI format 2_6 with CRC scrambling by <i>ps</i>-RNTI and reported <i>MinTimeGap</i> before the start of <i>drx-onDurationTimer</i> of Long DRX Indication of UE whether or not to start <i>drx-onDurationTimer</i> for the next Long DRX cycle by detection of DCI format 2_6 is not detected at all monitoring occasions outside Active Time Configured UE wakeup or not when DCI format 2_6 is not detected at all monitoring occasions outside Active Time Configured periodic CSI report apart from L1-RSRP (<i>ps</i>-<i>TransmitOtherPeriodicCSI</i>) when impacted by DCI format 2_6 that <i>drx-onDurationTimer</i> does not start for the next Long DRX cycle Configured periodic L1-RSRP report (<i>ps</i>-<i>TransmitPeriodicL1-RSRP</i>) when impacted by DCI format 2_6 that <i>drx-onDurationTimer</i> does not start for the next Long DRX cycle The capability signalling includes the minimum time gap between the end of the slot of last DCI format 2_6 monitoring occasion and the beginning of the slot where the UE would start the <i>drx-onDurationTimer</i> of Long DRX cycle. Support of this feature is reported for licensed and unlicensed bands, respectively. When this field is reported, either of <i>sharedSpectrumChAccess-r16</i> or <i>non-SharedSpectrumChAccess-r16</i> shall be reported, at least. 	UE	No	No	Yes

enhancedSkipUplinkTxConfigured-r16 Indicates whether the UE supports skipping UL transmission for a configured uplink grant only if no data is available for transmission and no UCI is multiplexed on the	UE	No	Yes	No
corresponding PUSCH of the uplink grant as specified in TS 38.321 [8].				
enhancedSkipUplinkTxDynamic-r16 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	No	Yes	No
enhancedUuDRX-forSidelink-r17 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> .	UE	No	No	No
harq-FeedbackDisabled-r17 Indicates whether the UE supports disabled HARQ feedback for downlink transmission. A UE supporting this feature shall also indicate the support of nonTerrestrialNetwork-r17.	UE	No	No	No
<i>intraCG-Prioritization-r17</i> 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 <i>jointPrioritizationCG-Retx-Timer-r17</i> .	UE	No	No	No
<i>jointPrioritizationCG-Retx-Timer-r17</i> Indicates whether the UE supports simultaneous configuration of LCH based prioritization and <i>cg-RetransmissionTimer-r16</i> as specified in TS 38.321 [8]. A UE supporting this feature shall also support <i>lch-priorityBasedPrioritization-r16</i> and <i>configuredGrantWithReTx-r16</i> .	UE	No	No	No
<i>Ich-PriorityBasedPrioritization-r16</i> Indicates whether the UE supports prioritization between overlapping grants and between scheduling request and overlapping grants based on LCH priority as specified in TS 38.321 [8].	UE	No	No	No
<i>Ich-ToConfiguredGrantMapping-r16</i> Indicates whether the UE supports restricting data transmission from a given LCH to a configured (sub-) set of configured grant configurations (see <i>allowedCG-List-r16</i> in <i>LogicalChannelConfig</i> in TS 38.331 [9]) as specified in TS 38.321 [8].	UE	No	No	No
<i>Ich-ToGrantPriorityRestriction-r16</i> Indicates whether the UE supports restricting data transmission from a given LCH to a configured (sub-) set of dynamic grant priority levels (see <i>allowedPHY-PriorityIndex-r16</i> in <i>LogicalChannelConfig</i> in TS 38.331 [9]) as specified in TS 38.321 [8].	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.	UE	No	No	No
<i>Icp-Restriction</i> Indicates whether UE supports the selection of logical channels for each UL grant based on RRC configured restriction using RRC parameters <i>allowedSCS-List, maxPUSCH-Duration,</i> and <i>configuredGrantType1Allowed</i> as specified in TS 38.321 [8].	UE	No	No	No
<i>logicalChannelSR-DelayTimer</i> Indicates whether the UE supports the <i>logicalChannelSR-DelayTimer</i> as specified in TS 38.321 [8].	UE	No	Yes	No
Indicates whether UE supports long DRX cycle as specified in TS 38.321 [8].	UE	Yes	Yes	No
<i>maxNumberRNTIs-MBS-r17</i> Indicates the maximum number of simultaneous reception of PDCCH scrambled with G-RNTIs/G-CS-RNTIs for MBS multicast.	UE	No	No	No
<i>mg-ActivationCommPRS-Meas-r17</i> Indicates whether UE supports the use of DL MAC CE from the gNB, as specified in TS38.321 [8], to activate the preconfigured MG for PRS measurements.	UE	No	No	No
<i>mg-ActivationRequestPRS-Meas-r17</i> Indicates whether UE supports the use of UL MAC CE, as specified in TS38.321 [8], to request the activation of the preconfigured MG for PRS measurements. The UE can include this field only if the UE supports <i>mg-ActivationCommPRS-Meas-r17</i> .	UE	No	No	No
<i>multipleConfiguredGrants</i> Indicates whether UE supports more than one configured grant configurations (including both Type 1 and Type 2) in a cell group. For each cell, the UE supports at most one configured grant per BWP and the maximum number of configured grant configurations per cell group is 2. If absent, for each configured cell group, the UE only supports one configured grant configuration on one serving cell.	UE	No	Yes	No

<i>multipleSR-Configurations</i> Indicates whether the UE supports 8 SR configurations per PUCCH cell group as	UE	No	Yes	No
specified in TS 38.321 [8].				
recommendedBitRate	UE	No	No	No
Indicates whether the UE supports the bit rate recommendation message from the				
gNB to the UE as specified in TS 38.321 [8].	<u>.</u>			
recommendedBitRateMultiplier-r16	UE	No	No	No
Indicates whether the UE supports the bit rate multiplier for recommended bit rate				
MAC CE as specified in TS 38.321 [8], clause 6.1.3.20. This field is only applicable if				
the UE supports recommendedBitRate.				
recommendedBitRateQuery	UE	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 recommendedBitRate.				
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].		NI -	N -	N 1.
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		NI-	Vee	NIe
	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].			N 1	
srs-ResourceId-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].			N 1	
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.		NI -	N -	N 1.
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 <i>pdcp-DuplicationMCG-orSCG-DRB</i> or <i>pdcp-</i>				
DuplicationSplitDRB. A UE supporting this feature shall also support configuredUL-				
GrantType1-v1650 or configuredUL-GrantType2-v1650.		N 1	TDD	
tdd-MPE-P-MPR-Reporting-r16	UE	No	TDD	FR2
Indicates whether the UE supports P-MPR reporting for Maximum Permissible			only	only
Exposure, as specified in TS38.321 [8].		N 1		
ul-LBT-FailureDetectionRecovery-r16	UE	No	No	No
Indicates whether the UE supports consistent uplink LBT detection and recovery, as				
specified in TS 38.321 [8], for cells operating with shared spectrum channel access.				
This field applies to all serving cells with which the UE is configured with shared				
spectrum channel access.			.	
uplink-Harq-ModeB-r17	UE	No	No	No
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 nonTerrestrialNetwork-r17.				

4.2.7 Physical layer parameters

4.2.7.1 BandCombinationList parameters

Definitions for parameters	Per	M	FDD- TDD DIFF	FR1- FR2 DIFF
<i>bandEUTRA</i> Defines supported EUTRA frequency band by NR frequency band number, as specified in TS 36.101 [14].	Band	Yes	N/A	N/A
<i>bandList</i> Each entry of the list should include at least one bandwidth class for UL or DL.	BC	Yes	N/A	N/A
<i>bandNR</i> Defines supported NR frequency band by NR frequency band number, as specified in TS 38.101-1 [2] and TS 38.101-2 [3].	Band	Yes	N/A	N/A
<i>ca-BandwidthClassDL-EUTRA</i> Defines for DL, the class defined by the aggregated transmission bandwidth configuration and maximum number of component carriers supported by the UE, as specified in TS 36.101 [14]. When all FeatureSetEUTRA-DownlinkId:s in the corresponding FeatureSetsPerBand are zero, this field is absent.	Band	No	N/A	N/A
<i>ca-BandwidthClassDL-NR</i> Defines for DL, the class defined by the aggregated transmission bandwidth configuration and maximum number of component carriers supported by the UE, as specified in TS 38.101-1 [2] and TS 38.101-2 [3]. When all FeatureSetDownlinkld:s in the corresponding FeatureSetsPerBand are zero, this field is absent. For FR1, the value 'F' shall not be used as it is invalidated in TS 38.101-1 [2].	Band	No	N/A	N/A
<i>ca-BandwidthClassUL-EUTRA</i> Defines for UL, the class defined by the aggregated transmission bandwidth configuration and maximum number of component carriers supported by the UE, as specified in TS 36.101 [14]. When all FeatureSetEUTRA-UplinkId:s in the corresponding FeatureSetsPerBand are zero, this field is absent.	Band	No	N/A	N/A
<i>ca-BandwidthClassUL-NR</i> Defines for UL, the class defined by the aggregated transmission bandwidth configuration and maximum number of component carriers supported by the UE, as specified in TS 38.101-1 [2] and TS 38.101-2 [3]. When all FeatureSetUplinkId:s in the corresponding FeatureSetsPerBand are zero, this field is absent. For FR1, the value 'F' shall not be used as it is invalidated in TS 38.101-1 [2].	Band	No	N/A	N/A
<i>ca-ParametersEUTRA</i> Contains the EUTRA part of band combination parameters for a given (NG)EN- DC/NE-DC band combination.	BC	No	N/A	N/A
<i>ca-ParametersNR</i> Contains the NR band combination parameters for a given (NG)EN-DC/NE-DC and/or NR CA band combination.	BC	No	N/A	N/A
<i>ca-ParametersNRDC</i> Indicates whether the UE supports NR-DC for the band combination. It contains the NR band combination parameters applicable across MCG and SCG. A UE indicating support for NR-DC shall support synchronous NR-DC configuration where all serving cells of the MCG are in FR1 and all serving cells of the SCG are in FR2.	BC	No	N/A	N/A
featureSetCombination Indicates the feature set that the UE supports on the NR and/or MR-DC band combination by FeatureSetCombinationId.	BC	N/A	N/A	N/A
featureSetCombinationDAPS-r16 Indicates the feature set that the UE supports for DAPS handover on the NR band combination by FeatureSetCombinationId. A UE shall include this field if intra- frequency or inter-frequency DAPS handover is supported for this band combination. For a band entry where it indicates the support for intra-frequency DAPS handover, the UE shall include at least two CCs and shall support intra- frequency DAPS handover between any CC pair within the same band entry. If the number of CCs within a band combination is more than one and if inter-frequency DAPS handover is supported, UE shall support inter-frequency DAPS handover between every CC pair in the same or different band entries in the band combination, except for the CC pair within a band entry with bandwidth class A. A feature set including <i>intraFreqDAPS-r16</i> can only be referred to by <i>featureSetCombinationDAPS-r16</i> , not by <i>featureSetCombination</i> . A feature set without <i>intraFreqDAPS-r16</i> is only applied to inter-freq DAPS handover if it is referred to by <i>featureSetCombinationDAPS</i> . Both feature sets with and without <i>intraFreqDAPS-r16</i> can be referred to by the same <i>featureSetCombinationDAPS</i> -	BC	N/A	N/A	N/A

<i>intrabandConcurrentOperationPowerClass-r16</i> Indicates the power class, of a particular Uu band combination and the intra-band				
Indicates the power class, of a particular Uu band combination and the intra-band	BC	No	N/A	N/A
PC5 band combination(s) on which the UE supports simultaneous transmission (as				
indicated by <i>supportedTxBandCombListPerBC-Sidelink-r16</i>). 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				
supportedTxBandCombListPerBC-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 <i>BandCombinationListSidelinkEUTRA-NR</i> which				
is indicated with value 1 by supportedTxBandCombListPerBC-Sidelink-r16 and so				
on.				
mrdc-Parameters	BC	No	N/A	N/A
Contains the band combination parameters for a given (NG)EN-DC/NE-DC band				
combination.				
ne-DC-BC	BC	No	N/A	N/A
Indicates whether the UE supports NE-DC for the band combination.				
powerClass, powerClass-v1610	BC	No	N/A	FR1
Indicates power class the UE supports when operating according to this band				only
combination. If the field is absent, the UE supports the default power class. If this				
power class is higher than the power class that the UE supports on the individual				
bands of this band combination (ue-PowerClass in BandNR), 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	BC	NIa	N/A	N1/A
		No	IN/A	N/A
Indicates, for a particular Uu band combination, the scaling factor for the PC5 band	DC	INO	IN/A	N/A
Indicates, for a particular Uu band combination, the scaling factor for the PC5 band		INO	N/A	N/A
Indicates, for a particular Uu band combination, the scaling factor for the PC5 band combination(s) on which the UE supports simultaneous transmission/reception (as		INO	N/A	N/A
Indicates, for a particular Uu band combination, the scaling factor for the PC5 band combination(s) on which the UE supports simultaneous transmission/reception (as indicated by <i>supportedTxBandCombListPerBC-Sidelink-r16</i> /	DC	INO	N/A	N/A
Indicates, for a particular Uu band combination, the scaling factor for the PC5 band combination(s) on which the UE supports simultaneous transmission/reception (as	DC		N/A	N/A
Indicates, for a particular Uu band combination, the scaling factor for the PC5 band combination(s) on which the UE supports simultaneous transmission/reception (as indicated by <i>supportedTxBandCombListPerBC-Sidelink-r16</i> / <i>supportedRxBandCombListPerBC-Sidelink-r16</i>). The leading / leftmost value	be		N/A	N/A
Indicates, for a particular Uu band combination, the scaling factor for the PC5 band combination(s) on which the UE supports simultaneous transmission/reception (as indicated by <i>supportedTxBandCombListPerBC-Sidelink-r16</i> / <i>supportedRxBandCombListPerBC-Sidelink-r16</i>). The leading / leftmost value corresponds to the first band combination included in <i>BandCombinationListSidelinkEUTRA-NR</i> which is indicated with value 1 by <i>supportedTxBandCombListPerBC-Sidelink-r16</i> / <i>supportedTxBandCombListPerBC-Sidelink-r16</i> / <i>supportedT</i>		INO	N/A	N/A
Indicates, for a particular Uu band combination, the scaling factor for the PC5 band combination(s) on which the UE supports simultaneous transmission/reception (as indicated by <i>supportedTxBandCombListPerBC-Sidelink-r16</i> / <i>supportedRxBandCombListPerBC-Sidelink-r16</i>). The leading / leftmost value corresponds to the first band combination included in <i>BandCombListSidelinkEUTRA-NR</i> which is indicated with value 1 by		INO	N/A	N/A
Indicates, for a particular Uu band combination, the scaling factor for the PC5 band combination(s) on which the UE supports simultaneous transmission/reception (as indicated by <i>supportedTxBandCombListPerBC-Sidelink-r16</i> / <i>supportedRxBandCombListPerBC-Sidelink-r16</i>). The leading / leftmost value corresponds to the first band combination included in <i>BandCombinationListSidelinkEUTRA-NR</i> which is indicated with value 1 by <i>supportedTxBandCombListPerBC-Sidelink-r16</i> / supportedTxBandCombListPerBC-Sidelink-r16/		INO	N/A	N/A
Indicates, for a particular Uu band combination, the scaling factor for the PC5 band combination(s) on which the UE supports simultaneous transmission/reception (as indicated by <i>supportedTxBandCombListPerBC-Sidelink-r16</i> / <i>supportedRxBandCombListPerBC-Sidelink-r16</i>). The leading / leftmost value corresponds to the first band combination included in <i>BandCombinationListSidelinkEUTRA-NR</i> which is indicated with value 1 by <i>supportedTxBandCombListPerBC-Sidelink-r16</i> / <i></i>		INO	N/A	N/A
Indicates, for a particular Uu band combination, the scaling factor for the PC5 band combination(s) on which the UE supports simultaneous transmission/reception (as indicated by <i>supportedTxBandCombListPerBC-Sidelink-r16</i> / <i>supportedRxBandCombListPerBC-Sidelink-r16</i>). The leading / leftmost value corresponds to the first band combination included in <i>BandCombinationListSidelinkEUTRA-NR</i> which is indicated with value 1 by <i>supportedTxBandCombListPerBC-Sidelink-r16</i> / <i>supportedTxBandCombListPerBC-Sidelink-r16</i> / <i>supportedTx</i>		INO	N/A	N/A
Indicates, for a particular Uu band combination, the scaling factor for the PC5 band combination(s) on which the UE supports simultaneous transmission/reception (as indicated by <i>supportedTxBandCombListPerBC-Sidelink-r16</i> / <i>supportedRxBandCombListPerBC-Sidelink-r16</i>). The leading / leftmost value corresponds to the first band combination included in <i>BandCombinationListSidelinkEUTRA-NR</i> which is indicated with value 1 by <i>supportedTxBandCombListPerBC-Sidelink-r16</i> / supportedTxBandCombListPerBC-Sidelink-r16 / <i>supportedTxBandCombListPerBC-Sidelink-r16</i> / <i>supportedTxBandCombListPerBC-Sidelink-r16</i> / <i>supportedTxBandCombListPerBC-Sidelink-r16</i> / <i>supportedTxBandCombListPerBC-Sidelink-r16</i> / <i>supportedTxBandCombListPerBC-Sidelink-r16</i> / <i>supportedTxBandCombListPerBC-SidelinkEUTRA-NR</i> which is indicated with value 1 by <i>supportedTxBandCombListPerBC-SidelinkEUTRA-NR</i> which is indicated with value 1 by <i>supportedTxBandCombListPerBC-Sidelink-r16</i> / <i>supportedTxBandCombListPerBC-S</i>		NO	N/A	N/A
Indicates, for a particular Uu band combination, the scaling factor for the PC5 band combination(s) on which the UE supports simultaneous transmission/reception (as indicated by <i>supportedTxBandCombListPerBC-Sidelink-r16</i> / <i>supportedRxBandCombListPerBC-Sidelink-r16</i>). The leading / leftmost value corresponds to the first band combination included in <i>BandCombListSidelinkEUTRA-NR</i> which is indicated with value 1 by <i>supportedTxBandCombListPerBC-Sidelink-r16</i> /		NO	N/A	N/A
Indicates, for a particular Uu band combination, the scaling factor for the PC5 band combination(s) on which the UE supports simultaneous transmission/reception (as indicated by <i>supportedTxBandCombListPerBC-Sidelink-r16</i> / <i>supportedRxBandCombListPerBC-Sidelink-r16</i> / <i>supportedRxBandCombListPerBC-Sidelink-r16</i>). The leading / leftmost value corresponds to the first band combination included in <i>BandCombinationListSidelinkEUTRA-NR</i> which is indicated with value 1 by <i>supportedTxBandCombListPerBC-Sidelink-r16</i> / <i>supportedRxBandCombListPerBC-Sidelink-r16</i> , the next value corresponds to the second band combination included in <i>BandCombinationListSidelinkEUTRA-NR</i> which is indicated with value 1 by <i>supportedTxBandCombListPerBC-Sidelink-r16</i> / <i>supportedRxBandCombListPerBC-Sidelink-r16</i> , the next value corresponds to the second band combination included in <i>BandCombinationListSidelinkEUTRA-NR</i> which is indicated with value 1 by <i>supportedTxBandCombListPerBC-Sidelink-r16</i> / <i>supportedRxBandCombListPerBC-Sidelink-r16</i> / <i>sup</i>				
Indicates, for a particular Uu band combination, the scaling factor for the PC5 band combination(s) on which the UE supports simultaneous transmission/reception (as indicated by <i>supportedTxBandCombListPerBC-Sidelink-r16</i> / <i>supportedRxBandCombListPerBC-Sidelink-r16</i>). The leading / leftmost value corresponds to the first band combination included in <i>BandCombinationListSidelinkEUTRA-NR</i> which is indicated with value 1 by <i>supportedTxBandCombListPerBC-Sidelink-r16</i> / <i>supportedTxBandCombListPerBC-Sidelink-r16</i> / <i>supportedTx</i>	FD			
Indicates, for a particular Uu band combination, the scaling factor for the PC5 band combination(s) on which the UE supports simultaneous transmission/reception (as indicated by <i>supportedTxBandCombListPerBC-Sidelink-r16</i> / <i>supportedRxBandCombListPerBC-Sidelink-r16</i>). The leading / leftmost value corresponds to the first band combination included in <i>BandCombinationListSidelinkEUTRA-NR</i> which is indicated with value 1 by <i>supportedTxBandCombListPerBC-Sidelink-r16</i> / <i>supportedTxBandCombListPerBC-Sidelink-r16</i> , supportedTxBandCombListPerBC-Sidelink-r16, the next value corresponds to the second band combination included in <i>BandCombinationListSidelinkEUTRA-NR</i> which is indicated with value 1 by <i>supportedTxBandCombListPerBC-Sidelink-r16</i> / <i>supportedRxBandCombListPerBC-Sidelink-r16</i> , the next value corresponds to the second band combination included in <i>BandCombinationListSidelinkEUTRA-NR</i> which is indicated with value 1 by <i>supportedTxBandCombListPerBC-Sidelink-r16</i> / <i>supportedRxBandCombListPerBC-Sidelink-r16</i> / <i>supportedRxBandCombListPerBC-Sidelink-r16</i> / <i>supportedTxBandCombListPerBC-Sidelink-r16</i> / <i>suppo</i>	FD			
Indicates, for a particular Uu band combination, the scaling factor for the PC5 band combination(s) on which the UE supports simultaneous transmission/reception (as indicated by <i>supportedTxBandCombListPerBC-Sidelink-r16</i> / <i>supportedRxBandCombListPerBC-Sidelink-r16</i>). The leading / leftmost value corresponds to the first band combination included in <i>BandCombinationListSidelinkEUTRA-NR</i> which is indicated with value 1 by <i>supportedTxBandCombListPerBC-Sidelink-r16</i> / <i>supportedTxBandCombListPerBC-Sidelink-r16</i> , the next value corresponds to the second band combination included in <i>BandCombinationListSidelinkEUTRA-NR</i> which is indicated with value 1 by <i>supportedTxBandCombListPerBC-Sidelink-r16</i> / <i>supportedRxBandCombListPerBC-Sidelink-r16</i> , the next value corresponds to the second band combination included in <i>BandCombinationListSidelinkEUTRA-NR</i> which is indicated with value 1 by <i>supportedTxBandCombListPerBC-Sidelink-r16</i> / <i>supportedRxBandCombListPerBC-Sidelink-r16</i> , value 1 by <i>supportedTxBandCombListPerBC-Sidelink-r16</i> / <i>supportedRxBandCombListPerBC-Sidelink-r16</i> , value f0p4 indicates the scaling factor 0.4, f0p75 indicates 0.75, and so on. <i>SRS-SwitchingTimeNR</i> Indicates the interruption time on DL/UL reception within a NR band pair during the RF retuning for switching between a carrier on one band and another (PUSCH-less) carrier on the other band to transmit SRS. <i>switchingTimeDL</i> / <i>switchingTimeUL</i> :	FD			
Indicates, for a particular Uu band combination, the scaling factor for the PC5 band combination(s) on which the UE supports simultaneous transmission/reception (as indicated by <i>supportedTxBandCombListPerBC-Sidelink-r16</i> / <i>supportedRxBandCombListPerBC-Sidelink-r16</i> / <i>supportedRxBandCombListPerBC-Sidelink-r16</i>). The leading / leftmost value corresponds to the first band combination included in <i>BandCombinationListSidelinkEUTRA-NR</i> which is indicated with value 1 by <i>supportedTxBandCombListPerBC-Sidelink-r16</i> / <i>supportedRxBandCombListPerBC-Sidelink-r16</i> , the next value corresponds to the second band combination included in <i>BandCombinationListSidelinkEUTRA-NR</i> which is indicated with value 1 by <i>supportedTxBandCombListPerBC-Sidelink-r16</i> / <i>supportedRxBandCombListPerBC-Sidelink-r16</i> , supportedTxBandCombListPerBC-Sidelink-r16 / <i>supportedRxBandCombListPerBC-Sidelink-r16</i> / <i>supportedR</i>	FD			
Indicates, for a particular Uu band combination, the scaling factor for the PC5 band combination(s) on which the UE supports simultaneous transmission/reception (as indicated by <i>supportedTxBandCombListPerBC-Sidelink-r16</i> / <i>supportedRxBandCombListPerBC-Sidelink-r16</i>). The leading / leftmost value corresponds to the first band combination included in <i>BandCombinationListSidelinkEUTRA-NR</i> which is indicated with value 1 by <i>supportedTxBandCombListPerBC-Sidelink-r16</i> / <i>supportedRxBandCombListPerBC-Sidelink-r16</i> , the next value corresponds to the second band combination included in <i>BandCombinationListSidelinkEUTRA-NR</i> which is indicated with value 1 by <i>supportedTxBandCombListPerBC-Sidelink-r16</i> / <i>supportedRxBandCombListPerBC-Sidelink-r16</i> , the next value corresponds to the second band combination included in <i>BandCombinationListSidelinkEUTRA-NR</i> which is indicated with value 1 by <i>supportedTxBandCombListPerBC-Sidelink-r16</i> / <i>supportedRxBandCombListPerBC-Sidelink-r16</i> , value 1 by <i>supportedTxBandCombListPerBC-Sidelink-r16</i> / <i>supportedRxBandCombListPerBC-Sidelink-r16</i> , value f0p4 indicates the scaling factor 0.4, f0p75 indicates 0.75, and so on. <i>SRS-SwitchingTimeNR</i> Indicates the interruption time on DL/UL reception within a NR band pair during the RF retuning for switching between a carrier on one band and another (PUSCH-less) <i>carrier</i> on the other band to transmit SRS. <i>switchingTimeDL</i> / <i>switchingTimeUL</i> : n0us represents 0 us, n30us represents 30us, and so on. <i>switchingTimeDL</i> / <i>switchingTimeUL</i> is mandatory present if switching between the NR band pair is	FD			
Indicates, for a particular Uu band combination, the scaling factor for the PC5 band combination(s) on which the UE supports simultaneous transmission/reception (as indicated by <i>supportedTxBandCombListPerBC-Sidelink-r16</i> / <i>supportedRxBandCombListPerBC-Sidelink-r16</i> / <i>supportedRxBandCombListPerBC-Sidelink-r16</i>). The leading / leftmost value corresponds to the first band combination included in <i>BandCombinationListSidelinkEUTRA-NR</i> which is indicated with value 1 by <i>supportedTxBandCombListPerBC-Sidelink-r16</i> / <i>supportedRxBandCombListPerBC-Sidelink-r16</i> , the next value corresponds to the second band combination included in <i>BandCombinationListSidelinkEUTRA-NR</i> which is indicated with value 1 by <i>supportedTxBandCombListPerBC-Sidelink-r16</i> / <i>supportedRxBandCombListPerBC-Sidelink-r16</i> , supportedTxBandCombListPerBC-Sidelink-r16 / supportedTxBandCombListPerBC-Sidelink-r16 / <i>supportedRxBandCombListPerBC-Sidelink-r16</i> / supportedTxBandCombListPerBC-Sidelink-r16 / supportedTxBandC	FD			
Indicates, for a particular Uu band combination, the scaling factor for the PC5 band combination(s) on which the UE supports simultaneous transmission/reception (as indicated by <i>supportedTxBandCombListPerBC-Sidelink-r16</i> / <i>supportedRxBandCombListPerBC-Sidelink-r16</i> / <i>supportedRxBandCombListPerBC-Sidelink-r16</i>). The leading / leftmost value corresponds to the first band combination included in <i>BandCombinationListSidelinkEUTRA-NR</i> which is indicated with value 1 by <i>supportedTxBandCombListPerBC-Sidelink-r16</i> / <i>supportedRxBandCombListPerBC-Sidelink-r16</i> , the next value corresponds to the second band combination included in <i>BandCombinationListSidelinkEUTRA-NR</i> which is indicated with value 1 by <i>supportedTxBandCombListPerBC-Sidelink-r16</i> / <i>supportedRxBandCombListPerBC-Sidelink-r16</i> , supportedTxBandCombListPerBC-Sidelink-r16 / supportedRxBandCombListPerBC-Sidelink-r16 / supportedTxBandCombListPerBC-Sidelink-r16 / supportedTxBandCombListPerBC-Sidelink-r16 / supportedTxBandCombListPerBC-Sidelink-r16 / supportedRxBandCombListPerBC-Sidelink-r16 / supportedTxBandCombListPerBC-Sidelink-r16 / supportedTxBandCombListSidelink-r16 / supportedTxBandCombList	FD	No	N/A	N/A
Indicates, for a particular Uu band combination, the scaling factor for the PC5 band combination(s) on which the UE supports simultaneous transmission/reception (as indicated by <i>supportedTxBandCombListPerBC-Sidelink-r16</i> / <i>supportedRxBandCombListPerBC-Sidelink-r16</i> / <i>supportedRxBandCombListPerBC-Sidelink-r16</i>). The leading / leftmost value corresponds to the first band combination included in <i>BandCombinationListSidelinkEUTRA-NR</i> which is indicated with value 1 by <i>supportedTxBandCombListPerBC-Sidelink-r16</i> / <i>supportedRxBandCombListPerBC-Sidelink-r16</i> , the next value corresponds to the second band combination included in <i>BandCombinationListSidelinkEUTRA-NR</i> which is indicated with value 1 by <i>supportedTxBandCombListPerBC-Sidelink-r16</i> / <i>supportedRxBandCombListPerBC-Sidelink-r16</i> , supportedTxBandCombListPerBC-Sidelink-r16 / supportedRxBandCombListPerBC-Sidelink-r16 / supportedTxBandCombListPerBC-Sidelink-r16 / supportedRxBandCombListPerBC-Sidelink-r16 and so on. For each value of <i>ScalingFactorSidelink-r16</i> , value f0p4 indicates the scaling factor 0.4, f0p75 indicates 0.75, and so on. <i>SRS-SwitchingTimeNR</i> Indicates the interruption time on DL/UL reception within a NR band pair during the RF retuning for switching between a carrier on one band and another (PUSCH-less) carrier on the other band to transmit SRS. <i>switchingTimeDL</i> / <i>switchingTimeUL</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 combination. <i>SRS-SwitchingTimeEUTRA</i>	FD			
Indicates, for a particular Uu band combination, the scaling factor for the PC5 band combination(s) on which the UE supports simultaneous transmission/reception (as indicated by <i>supportedTxBandCombListPerBC-Sidelink-r16</i> / <i>supportedRxBandCombListPerBC-Sidelink-r16</i>). The leading / leftmost value corresponds to the first band combination included in <i>BandCombinationListSidelinkEUTRA-NR</i> which is indicated with value 1 by <i>supportedTxBandCombListPerBC-Sidelink-r16</i> / <i>supportedRxBandCombListPerBC-Sidelink-r16</i> , the next value corresponds to the second band combination included in <i>BandCombinationListSidelinkEUTRA-NR</i> which is indicated with value 1 by <i>supportedTxBandCombListPerBC-Sidelink-r16</i> / <i>supportedRxBandCombListPerBC-Sidelink-r16</i> , the next value corresponds to the second band combination included in <i>BandCombinationListSidelinkEUTRA-NR</i> which is indicated with value 1 by <i>supportedTxBandCombListPerBC-Sidelink-r16</i> / <i>supportedRxBandCombListPerBC-Sidelink-r16</i> , value f0p4 indicates the scaling factor 0.4, f0p75 indicates 0.75, and so on. <i>SRS-SwitchingTimeNR</i> Indicates the interruption time on DL/UL reception within a NR band pair during the RF retuning for switching between a carrier on one band and another (PUSCH-less) carrier on the other band to transmit SRS. <i>switchingTimeDL</i> / <i>switchingTimeUL</i> : n0us represents 0 us, n30us represents 30us, and so on. <i>switchingTimeDL</i> / <i>switchingTimeUL</i> is mandatory present if switching between the NR band pair is supported, otherwise the field is absent. It is signalled per pair of bands per band combination. <i>SRS-SwitchingTimeEUTRA</i> Indicates the interruption time on DL/UL reception within a EUTRA band pair during	FD	No	N/A	N/A
Indicates, for a particular Uu band combination, the scaling factor for the PC5 band combination(s) on which the UE supports simultaneous transmission/reception (as indicated by <i>supportedTxBandCombListPerBC-Sidelink-r16</i> / <i>supportedTxBandCombListPerBC-Sidelink-r16</i> / supportedRxBandCombListPerBC-Sidelink-r16). The leading / leftmost value corresponds to the first band combination included in <i>BandCombinationListSidelinkEUTRA-NR</i> which is indicated with value 1 by <i>supportedTxBandCombListPerBC-Sidelink-r16</i> / <i>supportedRxBandCombListPerBC-Sidelink-r16</i> , the next value corresponds to the second band combination included in <i>BandCombinationListSidelinkEUTRA-NR</i> which is indicated with value 1 by <i>supportedTxBandCombListPerBC-Sidelink-r16</i> / <i>supportedRxBandCombListPerBC-Sidelink-r16</i> / <i>supportedRxBandCombListPerBC-Sidelink-r16</i> / <i>supportedRxBandCombListPerBC-Sidelink-r16</i> / supportedRxBandCombListPerBC-Sidelink-r16 / supportedRxBandCombListPerBC-Sidelink-r16 / supportedRxBandCombListPerBC-Sidelink-r16 / supportedRxBandCombListPerBC-Sidelink-r16 and so on. For each value of <i>ScalingFactorSidelink-r16</i> , value f0p4 indicates the scaling factor 0.4, f0p75 indicates 0.75, and so on. <i>SRS-SwitchingTimeNR</i> Indicates the interruption time on DL/UL reception within a NR band pair during the RF retuning for switching between a carrier on one band and another (PUSCH-less) carrier on the other band to transmit SRS. <i>switchingTimeDL</i> / <i>switchingTimeUL</i> is mandatory present if switching between the NR band pair is supported, otherwise the field is absent. It is signalled per pair of bands per band combination. <i>SRS-SwitchingTimeEUTRA</i> Indicates the interruption time on DL/UL reception within a EUTRA band pair during the RF retuning for switching between a carrier on one band and another (PUSCH-	FD	No	N/A	N/A
Indicates, for a particular Uu band combination, the scaling factor for the PC5 band combination(s) on which the UE supports simultaneous transmission/reception (as indicated by <i>supportedTxBandCombListPerBC-Sidelink-r16</i> / <i>supportedTxBandCombListPerBC-Sidelink-r16</i> /. The leading / leftmost value corresponds to the first band combination included in <i>BandCombinationListSidelinkEUTRA-NR</i> which is indicated with value 1 by <i>supportedTxBandCombListPerBC-Sidelink-r16</i> / <i>supportedTxBandCombListPerBC-Sidelink</i>	FD	No	N/A	N/A
Indicates, for a particular Uu band combination, the scaling factor for the PC5 band combination(s) on which the UE supports simultaneous transmission/reception (as indicated by <i>supportedTxBandCombListPerBC-Sidelink-r16</i> / <i>supportedTxBandCombListPerBC-Sidelink-r16</i> / <i>supportedRxBandCombListPerBC-Sidelink-r16</i> / The leading / leftmost value corresponds to the first band combination included in <i>BandCombinationListSidelinkEUTRA-NR</i> which is indicated with value 1 by <i>supportedTxBandCombListPerBC-Sidelink-r16</i> / <i>supportedRxBandCombListPerBC-Sidelink-r16</i> and so on. For each value of <i>ScalingFactorSidelink-r16</i> , value 10p4 indicates the scaling factor 0.4, f0p75 indicates 0.75, and so on. <i>SRS-SwitchingTimeNR</i> Indicates the interruption time on DL/UL reception within a NR band pair during the RF retuning for switching between a carrier on one band and another (PUSCH-less) carrier on the other band to transmit SRS. <i>switchingTimeDL</i> / <i>switchingTimeUL</i> is mandatory present if switching between the NR band pair is supported, otherwise the field is absent. It is signalled per pair of bands per band combination. <i>SRS-SwitchingTimeEUTRA</i> Indicates the interruption time on DL/UL reception within a EUTRA band pair during the RF retuning for switching between a carrier on one band and another (PUSCH-less) carrier on the other band to transmit SRS. <i>switchingTimeDL</i> / <i>switchingTimeEUTRA</i> Indicates the interruption time on DL/UL reception within a EUTRA band pair during the RF retuning for switching between a carrier on one band and another (PUSCH-less) carrier on the other band to transmit SRS. <i>switchingTimeDL</i> / <i>switchingTimeUL</i> is no represents 0 OFDM symbols, n0dot5 represents 0.5 OFDM	FD	No	N/A	N/A
Indicates, for a particular Uu band combination, the scaling factor for the PC5 band combination(s) on which the UE supports simultaneous transmission/reception (as indicated by <i>supportedTxBandCombListPerBC-Sidelink-r16</i> / <i>supportedRxBandCombListPerBC-Sidelink-r16</i>). The leading / leftmost value corresponds to the first band combination included in <i>BandCombinationListSidelinkEUTRA-NR</i> which is indicated with value 1 by <i>supportedTxBandCombListPerBC-Sidelink-r16</i> / <i>suptortedTxBandCombListPerBC-Sidelin</i>	FD	No	N/A	N/A
Indicates, for a particular Uu band combination, the scaling factor for the PC5 band combination(s) on which the UE supports simultaneous transmission/reception (as indicated by <i>supportedTxBandCombListPerBC-Sidelink-r16</i> / <i>supportedTxBandCombListPerBC-Sidelink-r16</i> / <i>supportedRxBandCombListPerBC-Sidelink-r16</i> / The leading / leftmost value corresponds to the first band combination included in <i>BandCombinationListSidelinkEUTRA-NR</i> which is indicated with value 1 by <i>supportedTxBandCombListPerBC-Sidelink-r16</i> / <i>supportedRxBandCombListPerBC-Sidelink-r16</i> and so on. For each value of <i>ScalingFactorSidelink-r16</i> , value 10p4 indicates the scaling factor 0.4, f0p75 indicates 0.75, and so on. <i>SRS-SwitchingTimeNR</i> Indicates the interruption time on DL/UL reception within a NR band pair during the RF retuning for switching between a carrier on one band and another (PUSCH-less) carrier on the other band to transmit SRS. <i>switchingTimeDL</i> / <i>switchingTimeUL</i> is mandatory present if switching between the NR band pair is supported, otherwise the field is absent. It is signalled per pair of bands per band combination. <i>SRS-SwitchingTimeEUTRA</i> Indicates the interruption time on DL/UL reception within a EUTRA band pair during the RF retuning for switching between a carrier on one band and another (PUSCH-less) carrier on the other band to transmit SRS. <i>switchingTimeDL</i> / <i>switchingTimeEUTRA</i> Indicates the interruption time on DL/UL reception within a EUTRA band pair during the RF retuning for switching between a carrier on one band and another (PUSCH-less) carrier on the other band to transmit SRS. <i>switchingTimeDL</i> / <i>switchingTimeUL</i> is no represents 0 OFDM symbols, n0dot5 represents 0.5 OFDM	FD	No	N/A	N/A

Defines whether UE supports SRS for DL C	SI acquisition as defined in clause	BC	FD	N/A	N/A
6.2.1.2 of TS 38.214 [12]. The capability sig	nalling comprises of the following				
parameters:					
- supportedSRS-TxPortSwitch indicate	es SRS Tx port switching pattern				
supported by the UE, which is mand					
indicated UE antenna switching capa					
	ntenna ports over total of 'y' antennas,				
	t of UE receive antennas, where 2T4R				
is two pairs of antennas. supportedS					
optional to report, indicates downgra					
switching pattern. If the UE indicates					
configuration of SRS Tx port switchin					
	port the values for this as below, based				
on what is reported in <i>supportedSRS</i>	S-TxPortSwitch.				
supportedSRS-TxPortSwitch	supportedSRS-TxPortSwitch-				
	v1610				
t1r2	t1r1-t1r2				
t1r4	t1r1-t1r2-t1r4				
t2r4	t1r1-t1r2-t2r2-t2r4				
t2r2	t1r1-t2r2				
t4r4	t1r1-t2r2-t4r4				
t1r4-t2r4	t1r1-t1r2-t2r2-t1r4-t2r4				
[1]+-12]+	()) -())2-(2)2-())4-(2)4				
 txSwitchImpactToRx indicates the er UL (see NOTE) in the band combina mandatory with capability signaling; 	try number of the first-listed band with tion that affects this DL, which is				
	the entry number of the first-listed band bination that switches together with this				
value 2 means second entry and so on. All the same entry number. The entry number is the band entry number restricted not to include fallback band comb different SRS antenna switching capabilities	in a band combination. The UE is nations for the purpose of indicating				
NOTE: The first listed hand with LIL inclu	idea a hand appaciated with				
FeatureSetUplinkId set to 0 corre					
FeatureSetUplinkId set to 0 corre SwitchingTimeNR.		BC	CY	N/A	N/A
FeatureSetUplinkId set to 0 corre SwitchingTimeNR. supportedBandwidthCombinationSet	sponding to the support of SRS-	BC	CY	N/A	N/A
FeatureSetUplinkId set to 0 corre SwitchingTimeNR. supportedBandwidthCombinationSet Defines the supported bandwidth combinati	sponding to the support of SRS-	BC	CY	N/A	N/A
FeatureSetUplinkId set to 0 corre SwitchingTimeNR. SupportedBandwidthCombinationSet Defines the supported bandwidth combinati defined in TS 38.101-1 [2], TS 38.101-2 [3]	sponding to the support of SRS- on set for a band combination as and TS 38.101-3 [4]. For NR SA CA,	BC	CY	N/A	N/A
FeatureSetUplinkId set to 0 corre SwitchingTimeNR. SupportedBandwidthCombinationSet Defines the supported bandwidth combinati defined in TS 38.101-1 [2], TS 38.101-2 [3] NR-DC, inter-band (NG)EN-DC without intra	sponding to the support of SRS- on set for a band combination as and TS 38.101-3 [4]. For NR SA CA, a-band (NG)EN-DC component, inter-	BC	CY	N/A	N/A
FeatureSetUplinkId set to 0 corre SwitchingTimeNR. SupportedBandwidthCombinationSet Defines the supported bandwidth combinati lefined in TS 38.101-1 [2], TS 38.101-2 [3] NR-DC, inter-band (NG)EN-DC without intra- band NE-DC without intra-band NE-DC corr	sponding to the support of SRS- on set for a band combination as and TS 38.101-3 [4]. For NR SA CA, a-band (NG)EN-DC component, inter- aponent and intra-band (NG)EN-DC/NE-	BC	CY	N/A	N/A
FeatureSetUplinkId set to 0 corre SwitchingTimeNR. SupportedBandwidthCombinationSet Defines the supported bandwidth combinati lefined in TS 38.101-1 [2], TS 38.101-2 [3] IR-DC, inter-band (NG)EN-DC without intra- band NE-DC without intra-band NE-DC corr DC with additional inter-band NR CA compo	sponding to the support of SRS- on set for a band combination as and TS 38.101-3 [4]. For NR SA CA, a-band (NG)EN-DC component, inter- iponent and intra-band (NG)EN-DC/NE- onent, the field defines the bandwidth	BC	CY	N/A	N/A
FeatureSetUplinkId set to 0 corre SwitchingTimeNR. Defines the supported bandwidth combinati lefined in TS 38.101-1 [2], TS 38.101-2 [3] IR-DC, inter-band (NG)EN-DC without intra- band NE-DC without intra-band NE-DC corr DC with additional inter-band NR CA compo ombinations for the NR part of the band co	sponding to the support of SRS- on set for a band combination as and TS 38.101-3 [4]. For NR SA CA, a-band (NG)EN-DC component, inter- iponent and intra-band (NG)EN-DC/NE- onent, the field defines the bandwidth mbination. For intra-band (NG)EN-	BC	CY	N/A	N/A
FeatureSetUplinkId set to 0 corre SwitchingTimeNR. Defines the supported bandwidth combination effined in TS 38.101-1 [2], TS 38.101-2 [3] IR-DC, inter-band (NG)EN-DC without intra- and NE-DC without intra-band NE-DC corr OC with additional inter-band NR CA comport ombinations for the NR part of the band corr OC/NE-DC without additional inter-band NR	sponding to the support of SRS- on set for a band combination as and TS 38.101-3 [4]. For NR SA CA, a-band (NG)EN-DC component, inter- aponent and intra-band (NG)EN-DC/NE- onent, the field defines the bandwidth mbination. For intra-band (NG)EN- and LTE CA component, the field	BC	CY	N/A	N/A
FeatureSetUplinkId set to 0 corre SwitchingTimeNR. upportedBandwidthCombinationSet Defines the supported bandwidth combinati efined in TS 38.101-1 [2], TS 38.101-2 [3] IR-DC, inter-band (NG)EN-DC without intra and NE-DC without intra-band NE-DC corr OC with additional inter-band NR CA comport ombinations for the NR part of the band corr OC/NE-DC without additional inter-band NR badicates the supported bandwidth combinal	sponding to the support of SRS- on set for a band combination as and TS 38.101-3 [4]. For NR SA CA, a-band (NG)EN-DC component, inter- ponent and intra-band (NG)EN-DC/NE- onent, the field defines the bandwidth mbination. For intra-band (NG)EN- and LTE CA component, the field tion set applicable to intra-band	BC	CY	N/A	N/A
FeatureSetUplinkId set to 0 corre SwitchingTimeNR. apportedBandwidthCombinationSet Defines the supported bandwidth combination ference in TS 38.101-1 [2], TS 38.101-2 [3] IR-DC, inter-band (NG)EN-DC without intra- and NE-DC without intra-band NE-DC corror OC with additional inter-band NR CA comport ombinations for the NR part of the band corror OC/NE-DC without additional inter-band NR holicates the supported bandwidth combination NG)EN-DC/NE-DC band combination. This	sponding to the support of SRS- on set for a band combination as and TS 38.101-3 [4]. For NR SA CA, a-band (NG)EN-DC component, inter- ponent and intra-band (NG)EN-DC/NE- nent, the field defines the bandwidth mbination. For intra-band (NG)EN- and LTE CA component, the field tion set applicable to intra-band field is not applicable to source and	BC	CY	N/A	N/A
FeatureSetUplinkId set to 0 corre SwitchingTimeNR. Defines the supported bandwidth combinationSet lefined in TS 38.101-1 [2], TS 38.101-2 [3] IR-DC, inter-band (NG)EN-DC without intra- band NE-DC without intra-band NE-DC corr OC with additional inter-band NR CA compo- ombinations for the NR part of the band co DC/NE-DC without additional inter-band NR hdicates the supported bandwidth combina NG)EN-DC/NE-DC band combination. This arget cells in intra-frequency DAPS handow	sponding to the support of SRS- on set for a band combination as and TS 38.101-3 [4]. For NR SA CA, a-band (NG)EN-DC component, inter- oponent and intra-band (NG)EN-DC/NE- onent, the field defines the bandwidth mbination. For intra-band (NG)EN- and LTE CA component, the field tion set applicable to intra-band field is not applicable to source and er.	BC	CY	N/A	N/A
FeatureSetUplinkId set to 0 corre SwitchingTimeNR. SupportedBandwidthCombinationSet Defines the supported bandwidth combination Idefined in TS 38.101-1 [2], TS 38.101-2 [3] NR-DC, inter-band (NG)EN-DC without intra- band NE-DC without intra-band NE-DC corr CC with additional inter-band NR CA comport combinations for the NR part of the band corr DC/NE-DC without additional inter-band NR ndicates the supported bandwidth combination NG)EN-DC/NE-DC band combination. This arget cells in intra-frequency DAPS handow Field encoded as a bit map, where bit N is s Combination Set N for this band combination	sponding to the support of SRS- on set for a band combination as and TS 38.101-3 [4]. For NR SA CA, a-band (NG)EN-DC component, inter- ponent and intra-band (NG)EN-DC/NE- onent, the field defines the bandwidth mbination. For intra-band (NG)EN- and LTE CA component, the field tion set applicable to intra-band field is not applicable to source and er. et to "1" if UE supports Bandwidth n as defined in the TS 38.101-1 [2], TS	BC	CY	N/A	N/A
FeatureSetUplinkId set to 0 corre SwitchingTimeNR. SupportedBandwidthCombinationSet Defines the supported bandwidth combination defined in TS 38.101-1 [2], TS 38.101-2 [3] NR-DC, inter-band (NG)EN-DC without intra- band NE-DC without intra-band NE-DC corr CC with additional inter-band NR CA comport combinations for the NR part of the band corr DC/NE-DC without additional inter-band NR ndicates the supported bandwidth combina NG)EN-DC/NE-DC band combination. This arget cells in intra-frequency DAPS handow Field encoded as a bit map, where bit N is se Combination Set N for this band combination 38.101-2 [3] and TS 38.101-3 [4]. The leading	sponding to the support of SRS- on set for a band combination as and TS 38.101-3 [4]. For NR SA CA, a-band (NG)EN-DC component, inter- ponent and intra-band (NG)EN-DC/NE- onent, the field defines the bandwidth mbination. For intra-band (NG)EN- and LTE CA component, the field tion set applicable to intra-band field is not applicable to source and er. et to "1" if UE supports Bandwidth n as defined in the TS 38.101-1 [2], TS ng / leftmost bit (bit 0) corresponds to	BC	CY	N/A	N/A
FeatureSetUplinkId set to 0 corre SwitchingTimeNR. SupportedBandwidthCombinationSet Defines the supported bandwidth combination defined in TS 38.101-1 [2], TS 38.101-2 [3] NR-DC, inter-band (NG)EN-DC without intra- band NE-DC without intra-band NE-DC corr DC with additional inter-band NR CA comport combinations for the NR part of the band corr DC/NE-DC without additional inter-band NR ndicates the supported bandwidth combinal NG)EN-DC/NE-DC band combination. This arget cells in intra-frequency DAPS handow Field encoded as a bit map, where bit N is se Combination Set N for this band combination 38.101-2 [3] and TS 38.101-3 [4]. The leading	sponding to the support of SRS- on set for a band combination as and TS 38.101-3 [4]. For NR SA CA, a-band (NG)EN-DC component, inter- ponent and intra-band (NG)EN-DC/NE- onent, the field defines the bandwidth mbination. For intra-band (NG)EN- and LTE CA component, the field tion set applicable to intra-band field is not applicable to source and er. et to "1" if UE supports Bandwidth n as defined in the TS 38.101-1 [2], TS ng / leftmost bit (bit 0) corresponds to	BC	CY	N/A	N/A
FeatureSetUplinkId set to 0 corre SwitchingTimeNR. SupportedBandwidthCombinationSet Defines the supported bandwidth combination defined in TS 38.101-1 [2], TS 38.101-2 [3] NR-DC, inter-band (NG)EN-DC without intra- band NE-DC without intra-band NE-DC component OC with additional inter-band NR CA component of the band combinations for the NR part of the band component OC/NE-DC without additional inter-band NR ndicates the supported bandwidth combina NG)EN-DC/NE-DC band combination. This arget cells in intra-frequency DAPS handow Field encoded as a bit map, where bit N is se Combination Set N for this band combination 38.101-2 [3] and TS 38.101-3 [4]. The leading the Bandwidth Combination Set 0, the next	sponding to the support of SRS- on set for a band combination as and TS 38.101-3 [4]. For NR SA CA, a-band (NG)EN-DC component, inter- oponent and intra-band (NG)EN-DC/NE- onent, the field defines the bandwidth mbination. For intra-band (NG)EN- and LTE CA component, the field tion set applicable to intra-band field is not applicable to source and er. et to "1" if UE supports Bandwidth n as defined in the TS 38.101-1 [2], TS ng / leftmost bit (bit 0) corresponds to bit corresponds to the Bandwidth	BC	CY	N/A	N/A
FeatureSetUplinkId set to 0 corre SwitchingTimeNR. SupportedBandwidthCombinationSet Defines the supported bandwidth combination defined in TS 38.101-1 [2], TS 38.101-2 [3] NR-DC, inter-band (NG)EN-DC without intra- band NE-DC without intra-band NE-DC corr DC with additional inter-band NR CA comported combinations for the NR part of the band correct DC/NE-DC without additional inter-band NR ndicates the supported bandwidth combination NG)EN-DC/NE-DC band combination. This arget cells in intra-frequency DAPS handow Field encoded as a bit map, where bit N is se Combination Set N for this band combination 38.101-2 [3] and TS 38.101-3 [4]. The leading the Bandwidth Combination Set 0, the next Combination Set 1 and so on. It is mandato	sponding to the support of SRS- on set for a band combination as and TS 38.101-3 [4]. For NR SA CA, a-band (NG)EN-DC component, inter- ponent and intra-band (NG)EN-DC/NE- nent, the field defines the bandwidth mbination. For intra-band (NG)EN- and LTE CA component, the field tion set applicable to intra-band field is not applicable to source and er. et to "1" if UE supports Bandwidth n as defined in the TS 38.101-1 [2], TS ng / leftmost bit (bit 0) corresponds to bit corresponds to the Bandwidth ry if	BC	CY	N/A	N/A
FeatureSetUplinkId set to 0 corressuitchingTimeNR. SupportedBandwidthCombinationSet Defines the supported bandwidth combination defined in TS 38.101-1 [2], TS 38.101-2 [3] NR-DC, inter-band (NG)EN-DC without intra- band NE-DC without intra-band NE-DC corresson DC with additional inter-band NR CA composed combinations for the NR part of the band corresson DC/NE-DC without additional inter-band NR ndicates the supported bandwidth combinal (NG)EN-DC/NE-DC band combination. This arget cells in intra-frequency DAPS handow Field encoded as a bit map, where bit N is secombination Set N for this band combination 38.101-2 [3] and TS 38.101-3 [4]. The leading the Bandwidth Combination Set 0, the next Combination Set 1 and so on. It is mandato - the band combination has more than	sponding to the support of SRS- on set for a band combination as and TS 38.101-3 [4]. For NR SA CA, a-band (NG)EN-DC component, inter- oponent and intra-band (NG)EN-DC/NE- onent, the field defines the bandwidth mbination. For intra-band (NG)EN- and LTE CA component, the field tion set applicable to intra-band field is not applicable to source and er. et to "1" if UE supports Bandwidth n as defined in the TS 38.101-1 [2], TS ng / leftmost bit (bit 0) corresponds to bit corresponds to the Bandwidth	BC	CY	N/A	N/A
FeatureSetUplinkId set to 0 corres SwitchingTimeNR. SupportedBandwidthCombinationSet Defines the supported bandwidth combination defined in TS 38.101-1 [2], TS 38.101-2 [3] NR-DC, inter-band (NG)EN-DC without intra- band NE-DC without intra-band NE-DC corres DC with additional inter-band NR CA composed combinations for the NR part of the band corres DC/NE-DC without additional inter-band NR ndicates the supported bandwidth combinal NG)EN-DC/NE-DC band combination. This arget cells in intra-frequency DAPS handow Field encoded as a bit map, where bit N is se Combination Set N for this band combination 38.101-2 [3] and TS 38.101-3 [4]. The leading the Bandwidth Combination Set 0, the next Combination Set 1 and so on. It is mandato - the band combination has more than NR cell group);	sponding to the support of SRS- on set for a band combination as and TS 38.101-3 [4]. For NR SA CA, a-band (NG)EN-DC component, inter- ponent and intra-band (NG)EN-DC/NE- onent, the field defines the bandwidth mbination. For intra-band (NG)EN- and LTE CA component, the field tion set applicable to intra-band field is not applicable to source and er. et to "1" if UE supports Bandwidth in as defined in the TS 38.101-1 [2], TS ng / leftmost bit (bit 0) corresponds to bit corresponds to the Bandwidth ry if one NR carrier (at least one SCell in an	BC	CY	N/A	N/A
FeatureSetUplinkId set to 0 corressuitchingTimeNR. SupportedBandwidthCombinationSet Defines the supported bandwidth combination defined in TS 38.101-1 [2], TS 38.101-2 [3] NR-DC, inter-band (NG)EN-DC without intra- band NE-DC without intra-band NE-DC corresson DC with additional inter-band NR CA composed combinations for the NR part of the band conditional ndicates the supported bandwidth combinal NG)EN-DC/NE-DC band combination. This arget cells in intra-frequency DAPS handow Field encoded as a bit map, where bit N is secombination Set N for this band combination 88.101-2 [3] and TS 38.101-3 [4]. The leading the Bandwidth Combination Set 0, the next Combination Set 1 and so on. It is mandato - the band combination has more than NR cell group); - or is an intra-band (NG)EN-DC/NE-DC band NR and LTE CA component;	sponding to the support of SRS- on set for a band combination as and TS 38.101-3 [4]. For NR SA CA, a-band (NG)EN-DC component, inter- ponent and intra-band (NG)EN-DC/NE- nent, the field defines the bandwidth mbination. For intra-band (NG)EN- and LTE CA component, the field tion set applicable to intra-band field is not applicable to source and er. et to "1" if UE supports Bandwidth n as defined in the TS 38.101-1 [2], TS ng / leftmost bit (bit 0) corresponds to bit corresponds to the Bandwidth ry if	BC	CY	N/A	N/A
FeatureSetUplinkId set to 0 corressuitchingTimeNR. supportedBandwidthCombinationSet Defines the supported bandwidth combination defined in TS 38.101-1 [2], TS 38.101-2 [3] NR-DC, inter-band (NG)EN-DC without intra- band NE-DC without intra-band NE-DC corresson DC with additional inter-band NR CA composed combinations for the NR part of the band conditional NG)EN-DC/NE-DC band combination. This arget cells in intra-frequency DAPS handow Field encoded as a bit map, where bit N is se Combination Set N for this band combination 38.101-2 [3] and TS 38.101-3 [4]. The leading the Bandwidth Combination Set 0, the next Combination Set 1 and so on. It is mandato - the band combination has more than NR cell group); - or is an intra-band (NG)EN-DC/NE-DC	sponding to the support of SRS- on set for a band combination as and TS 38.101-3 [4]. For NR SA CA, a-band (NG)EN-DC component, inter- oponent and intra-band (NG)EN-DC/NE- onent, the field defines the bandwidth mbination. For intra-band (NG)EN- and LTE CA component, the field tion set applicable to intra-band field is not applicable to source and er. et to "1" if UE supports Bandwidth in as defined in the TS 38.101-1 [2], TS ng / leftmost bit (bit 0) corresponds to bit corresponds to the Bandwidth ry if one NR carrier (at least one SCell in an DC combination without additional inter-	BC	CY	N/A	N/A

supportedBandwidthCombinationSetIntraENDC Defines the supported bandwidth combination set for a band combination that	BC	CY	N/A	N/A
allows configuration of at least one EUTRA serving cell and at least one NR serving				
cell in the same band, as defined in the TS 38.101-3 [4], table 5.3B.1.2-1 and table 5.3B.1.3-1.				
 For intra-band (NG)EN-DC with additional inter-band CA component(s) of LTE and/or NR, the field defines the bandwidth combinations for the intra- 				
 For intra-band NE-DC with additional inter-band CA component(s) of LTE 				
and/or NR, the field defines the bandwidth combinations for the intra-band NE-DC component.				
Field encoded as a bit map, where bit N is set to "1" if UE support Bandwidth Combination Set N for this band combination as defined in the TS 38.101-3 [4]. The				
eading / leftmost bit (bit 0) corresponds to the Bandwidth Combination Set 0, the next bit corresponds to the Bandwidth Combination Set 1 and so on.				
 It is mandatory if the band combination is an intra-band (NG)EN-DC/NE-DC combination supporting both UL and DL intra-band (NG)EN-DC/NE-DC parts 				
with additional inter-band NR/LTE CA component.				
 It is optional if the band combination is an intra-band (NG)EN-DC/NE-DC combination without supporting UL in both the bands of the intra-band (NG)EN-DC/NE-DC UL part. If not included, the network assumes the UE 				
supports BCS0 as defined in TS 38.101-3 [4], table 5.3B.1.2-1 and table 5.3B.1.3-1 for the intra-band (NG)EN-DC/NE-DC.				
supportedTxBandCombListPerBC-Sidelink-r16,	BC	No	N/A	N/A
supportedRxBandCombListPerBC-Sidelink-r16				
Indicates, for a particular Uu band combination, the PC5 band combination(s) on				
which the UE supports simultaneous transmission/reception. 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.				
ULTxSwitchingBandPair-r16, ULTxSwitchingBandPair-v1700	BC	FD	N/A	FR1
Indicates UE supports dynamic UL 1Tx-2Tx switching in case of inter-band CA,				only
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:				
<i>bandIndexUL1-r16</i> and <i>bandIndexUL2-r16</i> 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].				
- uplinkTxSwitchingPeriod-r16 indicates the length of UL Tx switching period of				
1Tx-2Tx switching per pair of UL bands per band combination when dynamic UL Tx switching is configured, as specified in TS 38.101-1 [2] and TS 38.101-3				
[4]. UE shall not report the value n210us for EN-DC band combinations. n35us				
represents 35 us, n140us represents 140us, and so on, as specified in TS				
38.101-1 [2] and TS 38.101-3 [4].				
- 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 is configured, as specified in TS 38.101-1 [2] and TS 38.101-3 [4]. n35us represents 35 us, n140us represents 140us, and so on, as				
specified in TS 38.101-1 [2] and TS 38.101-3 [4].				
- uplinkTxSwitching-DL-Interruption-r16 indicates that DL interruption on the				
band will occur during UL Tx switching, as specified in TS 38.133 [5] and in TS				
36.133 [27]. UE is not allowed to set this field for the band combination of SUL				
band+TDD band, for which no DL interruption is allowed.				
Field encoded as a bit map, where bit N is set to "1" if DL interruption on band N will occur during uplink Tx switching as specified in TS 38.133 [5] and in TS				
36.133 [27]. The leading / leftmost bit (bit 0) corresponds to the first band of				
this band combination, the next bit corresponds to the second band of this				
band combination and so on. The capability is not applicable to the following				
band combinations, in which DL reception interruption is not allowed:				
- TDD+TDD CA with the same UL-DL pattern				
 TDD+TDD EN-DC with the same UL-DL pattern 				

<i>uplinkTxSwitching-OptionSupport-r16</i> Indicates which option is supported for dynamic UL Tx switching for inter-band UL CA and (NG)EN-DC. <i>switchedUL</i> represents option 1 as specified in TS 38.214 [12], <i>dualUL</i> represents option 2 as specified in TS 38.214 [12], <i>both</i> represents 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 Tx switching.	BC	CY	N/A	FR1 only
<i>uplinkTxSwitching-PowerBoosting-r16</i> Indicates the support of 3dB boosting on the maximum output power for UE transmission under the operation state in which 2-port transmission can be supported on carrier2 in case of inter-band UL CA case where UE supports dynamic UL Tx switching. A UE shall only indicate this capability in case the UE supports power class 3 for inter-band UL CA for the band combination as defined in TS 38.101-1 [2].	BC	No	N/A	FR1 only
 UplinkTxSwitchingBandParameters-v1700 Contains the UL Tx switching specific band parameters for a given band 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. uplinkTxSwitching2T2T-PUSCH-TransCoherence-r17 indicates support of the 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]. 	BC	No	N/A	FR1 only
 uplinkTxSwitching-PUSCH-TransCoherence-r16 Indicates support of the uplink codebook subset when uplink 1Tx-2Tx switching is triggered between last transmitted SRS and scheduled PUSCH transmission, as specified in TS 38.101-1 [2]. UE indicating support of full coherent codebook subset shall also support non-coherent codebook subset. If the field is absent, the supported uplink codebook subset indicated by <i>pusch-TransCoherence</i> applies when the uplink switching is triggered between last transmitted SRS and scheduled transmission. 	BC	No	N/A	FR1 only

4.2.7.2 BandNR parameters

Definitions for parameters	Per	М	FDD- TDD DIFF	FR1- FR2 DIFF
<i>activeConfiguredGrant-r16</i> Indicates whether the UE supports up to 12 configured/active configured grant configurations in a BWP of a serving cell. This field includes the following parameters:	Band	No	N/A	N/A
 maxNumberConfigsPerBWP-r16 indicates the maximum number of configured/active configured grant configurations in a BWP of a serving cell. 				
 maxNumberConfigsAllCC-r16 indicates the maximum number of configured/active configured grant configurations across all serving cells in a MAC entity, and across MCG and SCG in case of NR-DC. 				
The UE can include this feature only if the UE indicates supports of either configuredUL-GrantType1 or configuredUL-GrantType2.				
NOTE:				
 For all the reported bands in FR1, a same X1 value is reported for <i>maxNumberConfigsAllCC-r16</i>. For all the reported bands in FR2, a same X2 value is reported for <i>maxNumberConfigsAllCC-r16</i>. The total number of configured/active configured grant configurations across all serving cells in FR1 is no greater than X1. 				
 The total number of configured/active configured grant configurations across all serving cells in FR2 is no greater than X2. If the CA have some serving cell(s) in FR1 and some serving cell(s) in FR2, the total number of configured/active configured grant configurations across 				
all serving cells is no greater than max(X1, X2). additionalActiveTCI-StatePDCCH	Band	No	N/A	N/A
Indicates whether the UE supports one additional active TCI-State for control in addition to the supported number of active TCI-States for PDSCH. The UE can include this field only if <i>maxNumberActiveTCI-PerBWP</i> in <i>tci-StatePDSCH</i> is set to <i>n</i> 1. Otherwise, the UE does not include this field.	Dand			N/A
aperiodicBeamReport	Band	Yes	N/A	N/A
Indicates whether the UE supports aperiodic 'CRI/RSRP' or 'SSBRI/RSRP' reporting on PUSCH. The UE provides the capability for the band number for which the report is provided (where the measurement is performed).				
<i>aperiodicTRS</i> Indicates whether the UE supports DCI triggering aperiodic TRS associated with periodic TRS.	Band	No	N/A	Yes
asymmetricBandwidthCombinationSet	Band	No	N/A	N/A
Defines the supported asymmetric channel bandwidth combination for the band as defined in the TS 38.101-1 [2]. Field encoded as a bit map, where bit N is set to "1" if UE support asymmetric channel bandwidth combination set N for this band as defined in the TS 38.101-1 [2]. The leading / leftmost bit (bit 0) corresponds to the asymmetric channel bandwidth combination set 1, the next bit corresponds to the asymmetric channel bandwidth combination set 2 and so on. UE shall support asymmetric channel bandwidth combination set 0. If the field is absent, the UE supports asymmetric channel bandwidth combination set 0.				
<i>bandNR</i> Defines supported NR frequency band by NR frequency band number, as specified in TS 38.101-1 [2] and TS 38.101-2 [3].	Band	Yes	N/A	N/A
beamCorrespondenceCSI-RS-based-r16 Indicates whether the UE support for beam correspondence based on CSI-RS has the ability to select its uplink beam based on measurement of CSI-RS. If a UE supports beam correspondence based on CSI-RS, then the network can expect the UE to also fulfil ReI-15 beam correspondence requirements.	Band	No	TDD only	FR2 only
If UE supports neither <i>beamCorrespondenceSSB-based-r16</i> nor <i>beamCorrespondenceCSI-RS-based-r16</i> , gNB can expect the UE to fulfill beam correspondence based on Rel-15 beam correspondence requirements.				

<i>beamCorrespondenceSSB-based-r16</i> Indicates whether the UE support for beam correspondence based on SSB has the	Band	No	TDD only	FR2 only
ability to select its uplink beam based on measurement of SSB. If a UE supports beam correspondence based on SSB, then the network can expect the UE to also fulfil Rel-15 beam correspondence requirements.			Only	Uniy
If UE supports neither <i>beamCorrespondenceSSB-based-r16</i> nor <i>beamCorrespondenceCSI-RS-based-r16</i> , gNB can expect the UE to fulfil beam correspondence based on Rel-15 beam correspondence requirements.				
beamCorrespondenceWithoutUL-BeamSweeping	Band	Yes	N/A	FR2
Indicates how UE supports FR2 beam correspondence as specified in TS 38.101-2 [3], clause 6.6. The UE that fulfils the beam correspondence requirement without the uplink beam sweeping (as specified in TS 38.101-2 [3], clause 6.6) shall set the field to <i>supported</i> . The UE that fulfils the beam correspondence requirement with the uplink beam sweeping (as specified in TS 38.101-2 [3], clause 6.6) shall not report this field.	Dana			only
beamManagementSSB-CSI-RS	Band	Yes	N/A	FD
 Defines support of SS/PBCH and CSI-RS based RSRP measurements. The capability comprises signalling of maxNumberSSB-CSI-RS-ResourceOneTx indicates maximum total number of configured one port NZP CSI-RS resources and SS/PBCH blocks that are supported by the UE to measure L1-RSRP as specified in TS 38.215 [13] within a slot and across all serving cells (see NOTE). On FR2, it is mandatory to report >=8; On FR1, it is mandatory with capability signalling to report >=8. 				
 maxNumberCSI-RS-Resource indicates maximum total number of configured NZP-CSI-RS resources that are supported by the UE to measure L1-RSRP as specified in TS 38.215 [13] across all serving cells (see NOTE). It is mandated to report at least n8 for FR1. 				
 maxNumberCSI-RS-ResourceTwoTx indicates maximum total number of two ports NZP CSI-RS resources that are supported by the UE to measure L1- RSRP as specified in TS 38.215 [13] within a slot and across all serving cells (see NOTE). 				
 supportedCSI-RS-Density indicates density of one RE per PRB for one port NZP CSI-RS resource for RSRP reporting, if supported. On FR2, it is mandatory to report either "three" or "oneAndThree"; On FR1, it is mandatory with capability signalling to report either "three" or "oneAndThree". 				
 maxNumberAperiodicCSI-RS-Resource indicates maximum number of configured aperiodic CSI-RS resources across all serving cells (see NOTE). For FR1 and FR2, the UE is mandated to report at least n4. 				
NOTE: If the UE sets a value other than <i>n0</i> in an FR1 band, it shall set that same value in all FR1 bands. If the UE sets a value other than <i>n0</i> in an FR2 band, it shall set that same value in all FR2 bands. The UE supports a total number of resources equal to the maximum of the FR1 and FR2 value, but no more than the FR1 value across all FR1 serving cells and no more than the FR2 value across all FR2 serving cells.				
beamReportTiming Indicates the number of OFDM symbols between the end of the last symbol of SSB/CSI-RS and the start of the first symbol of the transmission channel containing beam report. The UE provides the capability for the band number for which the report is provided (where the measurement is performed). The UE includes this field for each supported sub-carrier spacing.	Band	Yes	N/A	N/A

Indicates the minimum number of OFDM symbols between the DCI triggering of aperiodic CSI-RS and aperiodic CSI-RS transmission. The number of OFDM	Band	No	N/A	FR2
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				only
sub-carrier spacing.				
NOTE: <i>beamSwitchTiming</i> of value (<i>sym224</i> or <i>sym336</i>) will be used to determine UE expectation/behaviour for aperiodic CSI-RS for tracking				
and latency requirements for L1-RSRP reporting as described in clause 5.1.6.1.1 of TS 38.214 [12], while UE behaviour/assumption regarding				
before or after beam switch timing is unspecified for measuring AP CSI- RS for CSI acquisition (without <i>trs-Info</i> and without repetition) and for				
beam management (with repetition 'off').				
beamSwitchTiming-r16	Band	No	N/A	FR2
ndicates the minimum number of required OFDM symbols (sym224, sym336) between the DCI triggering aperiodic CSI-RS and the corresponding aperiodic CSI-				only
RS transmission in a CSI-RS resource set configured with repetition 'ON' if enableBeamSwitchTiming-r16 is configured.				
For CSI-RS configured with repetition "off", the UE applies beam switch time of				
sym48 if beamSwitchTiming-r16 is reported and enableBeamSwitchTiming-r16 is				
configured. For CSI-RS configured without repetition and without <i>trs-info</i> , the UE				
applies beam switch time of sym48 if <i>beamSwitchTiming-r16</i> is reported and <i>enableBeamSwitchTiming-r16</i> is configured.				
bfd-Relaxation-r17	Band	No	N/A	N/A
ndicates whether the UE supports BFD relaxation criteria and requirement as	Junu			
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				
espectively.	Dand	Nia	N1/A	
b wp-DiffNumerology ndicates whether the UE supports BWP adaptation up to 4 BWPs with the different	Band	No	N/A	N/A
numerologies, via DCI and timer. Except for SUL, the UE only supports the same				
numerology for the active UL and DL BWP. For the UE capable of this feature, the				
bandwidth of a UE-specific RRC configured DL BWP includes the bandwidth of the				
CORESET#0 (if CORESET#0 is present) and SSB for PCell and PSCell (if				
configured). For SCell(s), the bandwidth of the UE-specific RRC configured DL BWP includes SSB, if there is SSB on SCell(s).				
bwp-SameNumerology	Band	No	N/A	N/A
ndicates whether UE supports BWP adaptation (up to 2/4 BWPs) with the same				
numerology, via DCI and timer. Except for SUL, the UE only supports the same				
numerology for the active UL and DL BWP. For the UE capable of this feature, the				
bandwidth of a UE-specific RRC configured DL BWP includes the bandwidth of the CORESET#0 (if CORESET#0 is present) and SSB for PCell and PSCell (if				
configured). For SCell(s), the bandwidth of the UE-specific RRC configured DL				
BWP includes SSB, if there is SSB on SCell(s).				
bwp-WithoutRestriction	Band	No	N/A	N/A
ndicates support of BWP operation without bandwidth restriction. The Bandwidth				
estriction in terms of DL BWP for PCell and PSCell means that the bandwidth of a JE-specific RRC configured DL BWP may not include the bandwidth of CORESET				
(if configured) and SSB. For SCell(s), it means that the bandwidth of DL BWP				
TO THE COMPANY AND SOD. FOR SOCIEST, IL THEATS THAT THE DANUWULLI OF DE DWF				
			N/A	N/A
nay not include SSB. cancelOverlappingPUSCH-r16	Band	No		
nay not include SSB. cancelOverlappingPUSCH-r16 ndicates whether UE supports the cancellation of the (repetition of the) PUSCHs	Band	NO		
nay not include SSB. cancelOverlappingPUSCH-r16 ndicates whether UE supports the cancellation of the (repetition of the) PUSCHs ransmission on all other intra-band serving cell(s). The cancellation of the	Band	NO		
nay not include SSB. cancelOverlappingPUSCH-r16 ndicates whether UE supports the cancellation of the (repetition of the) PUSCHs ransmission 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)	Band	NO		
nay not include SSB. cancelOverlappingPUSCH-r16 ndicates whether UE supports the cancellation of the (repetition of the) PUSCHs ransmission 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) ncludes all symbols from the earliest symbol that is overlapping with the first	Band	NO		
nay not include SSB. cancelOverlappingPUSCH-r16 ndicates whether UE supports the cancellation of the (repetition of the) PUSCHs ransmission 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) ncludes all symbols from the earliest symbol that is overlapping with the first cancelled symbol of the PUSCH on the serving cell for which the DCI format 2_4 is applicable to. If the UE supports this feature, the UE needs to report <i>pa</i> -	Band	NO		
may not include SSB. cancelOverlappingPUSCH-r16 ndicates whether UE supports the cancellation of the (repetition of the) PUSCHs ransmission 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) ncludes all symbols from the earliest symbol that is overlapping with the first cancelled symbol of the PUSCH on the serving cell for which the DCI format 2_4 is applicable to. If the UE supports this feature, the UE needs to report pa- PhaseDiscontinuityImpacts and ul-CancellationSelfCarrier-r16.				
nay not include SSB. cancelOverlappingPUSCH-r16 ndicates whether UE supports the cancellation of the (repetition of the) PUSCHs ransmission 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) ncludes all symbols from the earliest symbol that is overlapping with the first cancelled symbol of the PUSCH on the serving cell for which the DCI format 2_4 is applicable to. If the UE supports this feature, the UE needs to report pa- PhaseDiscontinuityImpacts and ul-CancellationSelfCarrier-r16. cg-SDT-r17	Band	No	N/A	N/A
nay not include SSB. cancelOverlappingPUSCH-r16 ndicates whether UE supports the cancellation of the (repetition of the) PUSCHs ransmission 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) ncludes all symbols from the earliest symbol that is overlapping with the first cancelled symbol of the PUSCH on the serving cell for which the DCI format 2_4 is applicable to. If the UE supports this feature, the UE needs to report pa- PhaseDiscontinuityImpacts and ul-CancellationSelfCarrier-r16. cg-SDT-r17 ndicates whether the UE supports transmission of data and/or signalling over			N/A	N/A
nay not include SSB. cancelOverlappingPUSCH-r16 ndicates whether UE supports the cancellation of the (repetition of the) PUSCHs ransmission 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) ncludes all symbols from the earliest symbol that is overlapping with the first cancelled symbol of the PUSCH on the serving cell for which the DCI format 2_4 is applicable to. If the UE supports this feature, the UE needs to report pa- PhaseDiscontinuityImpacts and ul-CancellationSelfCarrier-r16. cg-SDT-r17 ndicates whether the UE supports transmission of data and/or signalling over allowed radio bearers in RRC_INACTIVE state via configured grant type 1 (i.e. CG-			N/A	N/A
may not include SSB. cancelOverlappingPUSCH-r16 Indicates whether UE supports the cancellation of the (repetition of the) PUSCHs ransmission on all other intra-band serving cell(s). The cancellation of the repetition of the) PUSCH transmission on a the set of intra-band serving cell(s) includes all symbols from the earliest symbol that is overlapping with the first cancelled symbol of the PUSCH on the serving cell for which the DCI format 2_4 is applicable to. If the UE supports this feature, the UE needs to report <i>pa</i> - <i>PhaseDiscontinuityImpacts</i> and <i>ul-CancellationSelfCarrier-r16</i> . cg-SDT-r17 Indicates whether the UE supports transmission of data and/or signalling over allowed radio bearers in RRC_INACTIVE state via configured grant type 1 (i.e. CG- SDT), as specified in TS 38.331 [9]. UE shall set the capability value consistently			N/A	N/A
nay not include SSB. cancelOverlappingPUSCH-r16 ndicates whether UE supports the cancellation of the (repetition of the) PUSCHs ransmission 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) ncludes all symbols from the earliest symbol that is overlapping with the first cancelled symbol of the PUSCH on the serving cell for which the DCI format 2_4 is applicable to. If the UE supports this feature, the UE needs to report pa- PhaseDiscontinuityImpacts and ul-CancellationSelfCarrier-r16. cg-SDT-r17 ndicates whether the UE supports transmission of data and/or signalling over			N/A	N/A

channelBWs-DL	Ba	nd Yes	N/A	N/A
Indicates for each subcarrier spacing the UE supported char Absence of the <i>channelBWs-DL</i> (without suffix) for a band o scs-XXkHz entry for a supported subcarrier spacing means t channel bandwidths among [5, 10, 15, 20, 25, 30, 40, 50, 60 200] that were defined in clause 5.3.5 of TS 38.101-1 version 38.101-2 version 15.7.0 [3] for the given band or the specific MT, to determine whether the IAB-MT supports a channel bat the network checks <i>channelBW-DL-IAB-r16</i> . For FR1, the bits in <i>channelBWs-DL</i> (without suffix) starting leftmost bit indicate 5, 10, 15, 20, 25, 30, 40, 50, 60 and 80M <i>channelBWs-DL</i> (without suffix) starting from the leading / le 100 and 200MHz. The third / rightmost bit (for 200MHz) shal MT the third / rightmost bit (for 200MHz) is ignored. To deter MT supports a channel bandwidth of 200 MHz, the network of <i>IAB-r16</i> . For FR1, the leading/leftmost bit in <i>channelBWs-DL-v1590</i> in second leftmost bit indicates 45MHz, the third leftmost bit indi fourth leftmost bit indicates 100MHz and all the remaining bi <i>v1590</i> shall be set to 0. The fourth leftmost bit (for 100MHz) bands n41, n48, n77, n78, n79 and n90 as defined in TS 38. band, RedCap UEs shall indicate supporting the maximum of bandwidths that are less than or equal to 20 MHz for FR1 ar 100 Mhz for FR2, taking restrictions in TS 38.101-1 [2] and T consideration.	Annel bandwidths. r absence of specific that the UE supports the , 80, 100] and [50, 100, n 15.7.0 [2] and TS SCS entry. For IAB- andwidth of 100 MHz, from the leading / MHz. For FR2, the bits in ftmost bit indicate 50, I be set to 1. For IAB- mine whether the IAB- checks <i>channelBW-DL</i> - hdicates 70MHz, the dicates 35MHz, the ts in <i>channelBWs-DL</i> - is not applicable for 101-1 [2]. For each of those channel ad less than or equal to			
NOTE: To determine whether the UE supports a specific the network validates the <i>supportedSubCarrierSp</i> <i>60kHz</i> . To determine whether the UE supports a channel the network may ignore this capability and validat <i>channelBW-90mhz</i> , the <i>supportedBandwidthCom</i> <i>supportedBandwidthCombinationSetIntraENDC</i> . I other channel bandwidths the network validates th <i>supportedBandwidthCombinationSet</i> , the <i>supportedBandwidthCombinationSet</i> (for a band channel bandwidth as defined in clause 5.3.6 of T <i>supportedBandwidthDL</i> and <i>supportedMinBandw</i>	bacingDL and the scs- bandwidth of 90 MHz, e instead the binationSet and the For serving cell(s) with the channelBWs-DL, the supporting asymmetric TS 38.101-1 [2]),			

<i>channelBWs-UL</i> 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	Band	Yes	N/A	N/A
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-UL-IAB-r16</i> .				
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				
channelBWs-UL (without suffix) starting from the leading / leftmost bit indicate 50,				
100 and 200MHz. The third / rightmost bit (for 200MHz) shall be set to 1. For IAB-				
MT the third / rightmost bit (for 200MHz) is ignored. To determine whether the IAB-				
MT supports a channel bandwidth of 200 MHz, the network checks channelBW-UL-				
IAB-r16.				
For FR1, the leading/leftmost bit in channelBWs-UL-v1590 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.				
NOTE: To determine whether the UE supports a specific SCS for a given band,				
the network validates the <i>supportedSubCarrierSpacingUL</i> and the <i>scs</i> -60kHz.				
To determine whether the UE supports a channel bandwidth of 90 MHz				
the network may ignore this capability and validate instead the				
channelBW-90mhz, the supportedBandwidthCombinationSet and the				
supportedBandwidthCombinationSetIntraENDC. For serving cell(s) with				
other channel bandwidths the network validates the <i>channelBWs-UL</i> , 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 and supportedMinBandwidthUL.	Dand	No	N/A	N/A
Indicates whether the IAB-MT supports channel bandwidth of 100 MHz for a given	Band	No	IN/A	IN/A
SCS in FR1 for DL or whether the IAB-MT supports channel bandwidth of 200 MHz				
for a given SCS in FR2 for DL.				
channelBW-UL-IAB-r16	Band	No	N/A	N/A
Indicates whether the IAB-MT supports channel bandwidth of 100 MHz for a given	Dunu	110	1 1/7 1	11/7
SCS in FR1 for UL or whether the IAB-MT supports channel bandwidth of 200 MHz				
	1			

codebookComboParametersAddition-r16 Indicates the UE supports of the mixed codebook combinations and the corresponding parameters supported by the UE.	Band	No	N/A	N/A
For mixed codebook types, UE reports support active CSI-RS resources and ports for up to 4 mixed codebook combinations in any slot. The following is the possible mixed codebook combinations:				
 {Type 1 Single Panel, Type 2, Null} {Type 1 Single Panel, Type 2 with port selection, Null} {Type 1 Single Panel, eType 2 with R=1, Null} {Type 1 Single Panel, eType 2 with R=2, Null} {Type 1 Single Panel, eType 2 with R=1 and port selection, Null} {Type 1 Single Panel, eType 2 with R=2 and port selection, Null} {Type 1 Single Panel, Type 2, Type 2 with port selection} {Type 1 Multi Panel, Type 2, Null} {Type 1 Multi Panel, eType 2 with R=1, Null} {Type 1 Multi Panel, eType 2 with R=1, Null} {Type 1 Multi Panel, eType 2 with R=2, Null} {Type 1 Multi Panel, eType 2 with R=2, Null} {Type 1 Multi Panel, eType 2 with R=2, Null} {Type 1 Multi Panel, eType 2 with R=1 with port selection, Null} {Type 1 Multi Panel, eType 2 with R=2 with port selection, Null} {Type 1 Multi Panel, eType 2 with R=1 with port selection, Null} {Type 1 Multi Panel, eType 2 with R=2 with port selection, Null} 				
 Parameters for each mixed codebook supported by the UE: supportedCSI-RS-ResourceListAdd-r16 indicates the list of supported CSI- RS resources in a band by referring to codebookVariantsList. The following parameters are included in codebookVariantsList. 				
 For supportedCSI-RS-ResourceListAdd-r16 related to the additional codebooks: The minimum of maxNumberTxPortsPerResource is 'p4; The minimum value of totalNumberTxPortsPerBand is 4. 				
If a UE reports one or more mixed codebook combinations, then usage of active CSI-RS resources and ports for multiple codebooks in any slot is allowed only within those combinations. For coexisting of mixed codebooks in any slot, gNB needs to consider the mixed codebook combination capability as well as per codebook capability of each codebook type in the mixed codebook combination. UE indicates support of a codebook type in the mixed codebook combination shall indicates support of the individual codebook type in the per band capability.				

codebookParameters	Band	FD	N/A	N/A
Indicates the codebooks and the corresponding parameters supported by the UE.				
Parameters for type I single panel codebook (type1 singlePanel) supported by the UE, which are mandatory to report:				
- supportedCSI-RS-ResourceList,				
- a UE shall support a maxNumberTxPortsPerResource minimum value of 4				
for codebook type I single panel in FR1 in the case of a single active CSI-				
resource across all bands in a band combination, regardless of what it				
reports in supportedCSI-RS-ResourceList with				
maxNumberTxPortsPerResource;				
 a UE shall support a maxNumberTxPortsPerResource minimum value of 8 when configured with wideband CSI report for codebook type I single 				
panel in FR1 in the case of a single active CSI-resource across all bands				
in a band combination, regardless of what it reports in <i>supportedCSI-RS</i> -				
ResourceList with maxNumberTxPortsPerResource;				
- a UE shall support a <i>maxNumberTxPortsPerResource</i> minimum value of 2				
for codebook type I single panel in FR2 in the case of a single active CSI-				
resource across all bands in a band combination, regardless of what it				
reports in supportedCSI-RS-ResourceList with				
 maxNumberTxPortsPerResource. modes indicates supported codebook modes (mode 1, both mode 1 and 				
mode 2);				
- maxNumberCSI-RS-PerResourceSet indicates the maximum number of CSI-				
RS resource in a resource set.				
Parameters for type I multi-panel codebook (type1 multiPanel) supported by the UE,				
which are optional:				
 supportedCSI-RS-ResourceList, modes indicates supported codebook modes (mode 1, mode 2, or both 				
mode 1 and mode 2);				
- maxNumberCSI-RS-PerResourceSet indicates the maximum number of CSI-				
RS resource in a resource set;				
 nrofPanels indicates supported number of panels. 				
Parameters for type II codebook (type2) supported by the UE, which are optional:				
- supportedCSI-RS-ResourceList,				
- parameterLx indicates the parameter "Lx" in codebook generation where x is				
an index of Tx ports indicated by maxNumberTxPortsPerResource;				
- <i>amplitudeScalingType</i> indicates the amplitude scaling type supported by the				
 UE (wideband or both wideband and sub-band); <i>amplitudeSubsetRestriction</i> indicates whether amplitude subset restriction is 				
supported for the UE.				
Parameters for type II codebook with port selection (type2-PortSelection) supported				
by the UE, which are optional:				
 supportedCSI-RS-ResourceList, parameterLx indicates the parameter "Lx" in codebook generation where x is 				
an index of Tx ports indicated by maxNumberTxPortsPerResource;				
- <i>amplitudeScalingType</i> indicates the amplitude scaling type supported by the				
UE (wideband or both wideband and sub-band).				
 supportedCSI-RS-ResourceList includes list of the following parameters: maxNumberTxPortsPerResource indicates the maximum number of Tx ports 				
in a resource;				
- maxNumberResourcesPerBand indicates the maximum number of resources				
across all CCs within a band simultaneously;				
- totalNumberTxPortsPerBand indicates the total number of Tx ports across all				
CCs within a band simultaneously.				
For each codebook type, the UE may report another list of supported CSI-RS				
resources via <i>supportedCSI-RS-ResourceListAlt</i> in <i>codebookParametersPerBand</i> . For type I single panel codebook (type1 singlePanel) supportedCSI-RS-				
ResourceListAlt,				
- a UE shall report at least one triplet in supportedCSI-RS-				
ResourceListAlt with maxNumberTxPortsPerResource greater than				
or equal to 8 for FR1;				
1 <i>·</i>				

 a UE shall report at least one triplet in supportedCSI-RS-ResourceListAlt with maxNumberTxPortsPerResource greater than or equal to 2 for FR2. 				
<i>codebookParametersAddition-r16</i> Indicates the UE support of additional codebooks and the corresponding parameters supported by the UE.	Band	No	N/A	N/A
 Codebook etype 2 R=1 support parameter combination 1 to 6 and rank 1 to 2. Parameters for etype 2 R=1 (<i>etype2R1-r16</i>) supported by the UE, which are optional: <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 <i>codebookVariantsList</i>. <i>maxNumberTxPortsPerResource</i> indicates the maximum number of Tx ports in a resource of a band; <i>maxNumberResourcesPerBand</i> indicates the maximum number of resources across all CCs in a band, simultaneously; <i>totalNumberTxPortsPerBand</i> indicates the total number of Tx ports across all CCs in a band, simultaneously. <i>paramComb7-8-r16</i> indicates the support of parameter combinations 7-8 for etype 2 R=1 <i>rank3-4-r16</i> indicates the support of rank 3,4. <i>amplitudeSubsetRestriction-r16</i> indicates the support of amplitude subset restriction. 				
Parameters for etype 2 R=2 (<i>etype2R2-r16</i>) supported by the UE, which are optional:				
 supportedCSI-RS-ResourceListAdd-r16; UE supporting 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> .				
 For supportedCSI-RS-ResourceListAdd-r16 related to the additional codebooks: The minimum of maxNumberTxPortsPerResource is 'p4'; The minimum value of totalNumberTxPortsPerBand is 4. 				

codebookParametersfetype2-r17 ndicates the UE support of additional codebooks and the corresponding	Band	No	N/A	N/A
parameters supported by the UE of Further Enhanced Port-Selection Type II Codebook (FeType-II).				
The UE indicating this feature shall include <i>fetype2basic-r17</i> to indicate basic eatures of 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 following parameters are included in codebookVariantsList.				
 maxNumberTxPortsPerResource indicates the maximum number of Tx ports in a resource of a band maxNumberResourcesPerBand indicates the maximum number of 				
 resources across all CCs in a band, simultaneously totalNumberTxPortsPerBand indicates the total number of Tx ports 				
across all CCs in a band, simultaneously 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</i> - <i>ReportFramework</i> .				
The UE optionally include <i>fetype2Rank1-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 fetype2Rank1-r17 shall also indicate support of 				
fetype2basic-r17 and parameter combinations with M=2.				
The UE optionally include <i>fetype2Rank2-r17</i> Indicates whether the UE supports rank = 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 codebookVariantsList. JE indicating support of fetype2Rank2-r17 shall also indicate support of 				
fetype2Rank1-r17.				
The UE optionally include fetype2Rank3Rank4-r17 to indicate whether the UE supports rank = 3 and rank = 4 for FeType-II. UE indicating support of fetype2Rank3Rank4-r17 shall indicate support of fetype2basic-r17.				
 For codebookVariantsList related to the FeType-II: The minimum of maxNumberTxPortsPerResource is 'p4'; The minimum value of totalNumberTxPortsPerBand is 4. 				
condHandover-r16	Band	No	N/A	N/A
ndicates 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 FDD-FR1 bands, all TDD-FR1 bands, all to bands, all				
condHandoverFailure-r16	Band	No	N/A	N/A
ndicates whether the UE supports conditional handover during re-establishment procedure when the selected cell is configured as candidate cell for condition nandover. 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. condHandoverTwoTriggerEvents-r16	Band	CY	N/A	N/A
ndicates 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 or NTN bands, UE shall set the capability value consistently for all FDD-FR1				

condPSCellChange-r16	Band	No	N/A	N/A
Indicates whether the UE supports conditional PSCell change including execution				
condition, candidate cell configuration and maximum 8 candidate cells. UE shall set				
the capability value consistently for all FDD-FR1 bands, all TDD-FR1 bands, all				
TDD-FR2-1 bands and all TDD-FR2-2 bands respectively.				
condPSCellChangeTwoTriggerEvents-r16	Band	CY	N/A	N/A
Indicates whether the UE supports 2 trigger events for same execution condition.				
This feature is mandatory supported if the UE supports condPSCellChange-r16. 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.	.			
configuredUL-GrantType1-v1650	Band	No	N/A	N/A
Indicates whether the UE supports Type 1 PUSCH transmissions with configured				
grant as specified in TS 38.214 [12] with UL-TWG-repK value of one. This applies				
only to non-shared spectrum channel access. For shared spectrum channel access,				
configuredUL-GrantType1-r16 applies. UE shall set the capability value consistently				
for all FDD-FR1 bands, all TDD-FR1 bands, all TDD-FR2-1 bands and all TDD-				
FR2-2 bands respectively.				
The UE only includes configuredUL-GrantType1-v1650 if configuredUL-GrantType1				
is absent.				
configuredUL-GrantType2-v1650	Band	No	N/A	N/A
Indicates whether the UE supports Type 2 PUSCH transmissions with configured				
grant as specified in TS 38.214 [12] with UL-TWG-repK value of one. This applies				
only to non-shared spectrum channel access. For shared spectrum channel access,				
configuredUL-GrantType2-r16 applies. UE shall set the capability value consistently				
for all FDD-FR1 bands, all TDD-FR1 bands, 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.	<u> </u>			
crossCarrierScheduling-SameSCS	Band	No	N/A	N/A
Indicates whether the UE supports cross carrier scheduling for the same				
numerology with carrier indicator field (CIF) in carrier aggregation where				
numerologies for the scheduling cell and scheduled cell are same.				

<i>csi-ReportFramework</i> Indicates whether the UE supports CSI report framework. This capability signalling	Band	Yes	N/A	N/A
 comprises the following parameters: maxNumberPeriodicCSI-PerBWP-ForCSI-Report indicates the maximum number of periodic CSI report setting per BWP for CSI report; 				
 maxNumberPeriodicCSI-PerBWP-ForBeamReport indicates the maximum number of periodic CSI report setting per BWP for beam report. 				
 maxNumberAperiodicCSI-PerBWP-ForCSI-Report indicates the maximum number of aperiodic CSI report setting per BWP for CSI report; 				
 maxNumberAperiodicCSI-PerBWP-ForBeamReport indicates the maximum number of aperiodic CSI report setting per BWP for beam report; 				
 maxNumberAperiodicCSI-triggeringStatePerCC indicates the maximum number of aperiodic CSI triggering states in CSI-AperiodicTriggerStateList per CC; 				
 maxNumberSemiPersistentCSI-PerBWP-ForCSI-Report indicates the maximum number of semi-persistent CSI report setting per BWP for CSI report; 				
 maxNumberSemiPersistentCSI-PerBWP-ForBeamReport indicates the maximum number of semi-persistent CSI report setting per BWP for beam report; 				
 simultaneousCSI-ReportsPerCC indicates the number of CSI report(s) for which the UE can measure and process reference signals simultaneously in a CC of the band for which this capability is provided. The CSI report comprises periodic, semi-persistent and aperiodic CSI and any latency classes and codebook types. The CSI report in simultaneousCSI- ReportsPerCC includes the beam report and CSI report. 				
The UE is mandated to report csi-ReportFramework.				
csi-ReportFrameworkExt-r16 Indicates whether the UE supports the extension of the maximum number of configured aperiodic CSI report settings for all codebook types. The capability signalling comprises the following: maxNumberAperiodicCSI-PerBWP-ForCSI-ReportExt-r16 indicates the extended maximum number of aperiodic CSI report setting per BWP for CSI report. If present, the value of maxNumberAperiodicCSI-PerBWP-ForCSI-Report-r16 shall replace the corresponding value in csi-ReportFramework.	Band	No	N/A	N/A
 csi-RS-ForTracking Indicates support of CSI-RS for tracking (i.e. TRS). This capability signalling comprises the following parameters: 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; 	Band	Yes	N/A	N/A
 maxSimultaneousResourceSetsPerCC indicates the maximum number of TRS resource sets per CC which the UE can track simultaneously; 				
 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; 				
 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 no more than the FR2 value across all FR2 serving cells. The UE is mandated to report at least 16 for FR1 and 32 for FR2.				

csi-RS-IM-ReceptionForFeedback	Band	Yes	N/A	N/A
Indicates support of CSI-RS and CSI-IM reception for CSI feedback. This capability				
signalling comprises the following parameters:				
- maxConfigNumberNZP-CSI-RS-PerCC indicates the maximum number of				
configured NZP-CSI-RS resources per CC;				
- maxConfigNumberPortsAcrossNZP-CSI-RS-PerCC indicates the maximum				
number of ports across all configured NZP-CSI-RS resources per CC;				
- maxConfigNumberCSI-IM-PerCC indicates the maximum number of				
configured CSI-IM resources per CC;				
- maxNumberSimultaneousNZP-CSI-RS-PerCC indicates the maximum				
number of simultaneous CSI-RS-resources per CC;				
- totalNumberPortsSimultaneousNZP-CSI-RS-PerCC indicates the total				
number of CSI-RS ports in simultaneous CSI-RS resources per CC.				
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	Banu	No	IN/A	IN/A
signalling comprises the following parameters:				
- maxNumberPeriodicSRS-AssocCSI-RS-PerBWP indicates the maximum				
number of periodic SRS resources associated with CSI-RS per BWP;				
- maxNumberAperiodicSRS-AssocCSI-RS-PerBWP indicates the maximum				
number of aperiodic SRS resources associated with CSI-RS per BWP;				
- maxNumberSP-SRS-AssocCSI-RS-PerBWP indicates the maximum number				
of semi-persistent SRS resources associated with CSI-RS per BWP;				
- simultaneousSRS-AssocCSI-RS-PerCC indicates the number of SRS				
resources that the UE can process simultaneously in a CC, including				
periodic, aperiodic and semi-persistent SRS.				
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 multiDCI-MultiTRP-r16 and simultaneousReceptionDiffTypeD-				
r16. defaultQCL-TwoTCI-r16	Band	No	N/A	FR2
Indicates whether the UE supports default QCL assumption with two TCI states	Danu	INU		only
using single-DCI based multi-TRP. The UE can include this field only if				0,
simultaneousReceptionDiffTypeD-r16 is present. Otherwise, the UE does not				
include this field.				
<i>enhancedSkipUplinkTxConfigured-v1660</i> Indicates whether the UE supports skipping UL transmission for a configured uplink	Band	No	N/A	N/A
grant only if no data is available for transmission and no UCI is multiplexed on the				
corresponding PUSCH of the uplink grant as specified in TS 38.321 [8]. UE shall 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 enhancedSkipUplinkTxConfigured-v1660 if				
enhancedSkipUplinkTxConfigured-r16 is absent.				
enhancedSkipUplinkTxDynamic-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 <i>enhancedSkipUplinkTxDynamic-v1660</i> if				
enhancedSkipUplinkTxDynamic-r16 is absent.				
enhancedUL-TransientPeriod-r16	Band	No	N/A	FR1
Indicates whether the UE supports enhanced UL performance for the transient				only
	1			1
period as specified in clause 6.3.3 of TS 38.101-1 [2]. If not reported, the UE supports transient period of 10us.				

eventA4BasedCondHandover-r17 Indicates whether the UE supports Event A4 based conditional handover, 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	Band	No	N/A	N/A
nonTerrestrialNetwork-r17. UE shall set the capability value consistently for all FDD-				
FR1 NTN bands.				
extendedCP	Band	No	N/A	N/A
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.				
groupBeamReporting	Band	No	N/A	N/A
Indicates whether UE supports RSRP reporting for the group of two reference signals.				
groupSINR-reporting-r16	Band	No	N/A	N/A
Indicates whether UE supports group based L1-SINR reporting. UE indicates support of this feature shall indicate support of <i>ssb-csirs-SINR-measurement-r16.</i>				
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	Band	No	N/A	N/A
bands respectively. maxMIMO-LayersForMulti-DCI-mTRP-r16		N1		N1/A
Indicates the interpretation of <i>maxNumberMIMO-LayersPDSCH</i> for multi-DCI based mTRP. If this field is included, <i>maxNumberMIMO-LayersPDSCH</i> is interpreted as the maximum number of layers per PDSCH for multi-DCI multi-TRP operation. If this field is not included, <i>maxNumberMIMO-LayersPDSCH</i> is interpreted as the maximum number of layers across two PDSCHs if having at least one RE overlapped, for multi-DCI multi-TRP operation. The UE that indicates support of this feature shall support <i>overlapPDSCHsFullyFreqTime-r16</i> .	Band	No	N/A	N/A
NOTE 1: For data rate calculation in clause 4.1.2, if this feature is indicated, each multi-DCI based multi-TRP CC is counted two times toward J.				
jointReleaseConfiguredGrantType2-r16	Band	No	N/A	N/A
Indicates whether the UE supports joint release in a DCI for two or more configured grant Type 2 configurations for a given BWP of a serving cell. The UE can include				
this feature only if the UE indicates supports of activeConfiguredGrant-r16.				
<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 supports of <i>sps-r16</i> .	Dand	Nia	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
lowPAPR-DMRS-PDSCH-r16	Band	No	N/A	N/A
Indicates whether the UE supports low PAPR DMRS for PDSCH.				.
lowPAPR-DMRS-PUCCH-r16	Band	Yes	N/A	N/A
ndicates whether the UE supports low PAPR DMRS for PUCCH format 3 and ormat 4 with transform precoding and with pi/2 BPSK modulation. UE indicates support of this feature shall indicate support of <i>pucch-F3-4-HalfPi-BPSK</i> and any combination of support of <i>pucch-F3-WithFH</i> , <i>pucch-F4-WithFH</i> and <i>pucch-F1-3-WithFH</i> , <i>pucch-F4-WithFH</i> and <i>pucch-F1-3-WithFH</i> , <i>pucch-F4-WithFH</i> and <i>pucch-F1-3-WithFH</i> , <i>pucch-F4-WithFH</i> and <i>pucch-F1-3-WithFH</i> .				
4WithoutFH. It is mandatory with capability signalling.	Devel	N1-		N1/A
IowPAPR-DMRS-PUSCHwithoutPrecoding-r16 Indicates whether the UE supports low PAPR DMRS for PUSCH without transform	Band	No	N/A	N/A
precoding. IowPAPR-DMRS-PUSCHwithPrecoding-r16 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.	Band	Yes	N/A	N/A

<i>maxNumberActivatedTCI-States-r16</i> Indicates maximum number of activated TCI states. This capability signalling	Band	No	N/A	N/A
 includes the following: maxNumberPerCORESET-Pool-r16 indicates maximal number of activated TCI states per CORESETPoolIndex per BWP per CC including data and 				
control - maxTotalNumberAcrossCORESET-Pool-r16 indicates maximal total number				
of activated TCI states across CORESETPoolIndex per BWP per CC including data and control				
The UE that indicates support of this feature shall support <i>multiDCI-MultiTRP-r16</i> .				
maxNumberCSI-RS-BFD 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	Band	CY	N/A	N/A
optional for FR1. maxNumberCSI-RS-SSB-CBD	Band	CY	N/A	N/A
Defines maximal number of different CSI-RS [and/or SSB] resources across all CCs, and across MCG and SCG in case of NR-DC, for new beam identifications. In this release, the maximum value that can be signalled is 128. If the UE includes the field in an FR1 band, it shall set the same value in all FR1 bands. If the UE includes the field in an FR2 band, it shall set the same value in all FR2 bands. The UE supports a total number of resources equal to the maximum of the FR1 and FR2 value, but no more than the FR1 value across all FR1 serving cells and no more than the FR2 value across all FR2 serving cells. It is mandatory with capability signalling for FR2 and optional for FR1. The UE is mandated to report at least 32 for FR2.				
<i>maxNumberNonGroupBeamReporting</i> Defines support of non-group based RSRP reporting using N_max RSRP values reported.	Band	Yes	N/A	N/A
maxNumberRxBeam 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
maxNumberRxTxBeamSwitchDL Defines the number of Tx and Rx beam changes UE can perform on this band	Band	No	N/A	FR2 only
within a slot. UE shall report one value per each subcarrier spacing supported by the UE. In this release, the number of Tx and Rx beam changes for scs-15kHz and scs-30kHz are not included.				
<i>maxNumberSCellBFR-r16</i> Defines the maximum number of SCells configured for SCell beam failure recovery 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>	Band	No	N/A	N/A
maxNumberSSB-BFD Defines maximal number of different SSBs across all CCs, and across MCG and SCG in case of NR-DC, for UE to monitor PDCCH quality. In this release, the maximum value that can be signalled is 16. If the UE includes the field in an FR1 band, it shall set the same value in all FR1 bands. If the UE includes the field in an FR2 band, it shall set the same value in all FR2 bands. The UE supports a total number of resources equal to the maximum of the FR1 and FR2 value, but no more than the FR1 value across all FR1 serving cells and no more than the FR2 value across all FR2 serving cells. It is mandatory with capability signalling for FR2 and optional for FR1.	Band	CY	N/A	N/A
<i>maxUplinkDutyCycle-PC2-FR1</i> Indicates the maximum percentage of symbols during a certain evaluation period that can be scheduled for uplink transmission so as to ensure compliance with applicable electromagnetic energy absorption requirements provided by regulatory bodies. This field is only applicable for FR1 power class 2 UE as specified in clause 6.2.1 of TS 38.101-1 [2]. If the field is absent, 50% shall be applied. Value n60 corresponds to 60%, value n70 corresponds to 70% and so on. This capability is not applicable to IAB-MT.	Band	No	N/A	FR1 only

maxUplinkDutyCycle-FR2	Band	No	N/A	FR2
Indicates the maximum percentage of symbols during 1s that can be scheduled for				only
uplink transmission at the UE maximum transmission power, so as to ensure				
compliance with applicable electromagnetic power density exposure requirements				
provided by regulatory bodies. This field is applicable for all power classes UE in				
FR2 as specified in TS 38.101-2 [3]. Value n15 corresponds to 15%, value n20 corresponds to 20% and so on. If the field is absent or the percentage of uplink				
symbols transmitted within any 1s evaluation period is larger than				
maxUplinkDutyCycle-FR2, the UE behaviour is specified in TS 38.101-2 [3]. 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	Danu			only
that can be scheduled for uplink transmission so as to ensure compliance with				Only
applicable electromagnetic energy absorption requirements provided by regulatory				
bodies. This field is only applicable for FR1 power class 1.5 UE as specified in				
clause 6.2.1 of TS 38.101-1 [2]. If the field is absent, UE shall mitigate MPE				
autonomously by P-MPR or by other means and no restriction on scheduled uplink				
duty cycle is needed.				
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 FDD-				
FR1 bands, all TDD-FR1 bands and all TDD-FR2 bands respectively.				
modifiedMPR-Behaviour	Band	No	N/A	N/A
Indicates whether UE supports modified MPR behaviour defined in TS 38.101-1 [2]				
and TS 38.101-2 [3].				
mpr-PowerBoost-FR2-r16	Band	No	TDD	FR2
Indicates whether UE supports uplink transmission power boost by suspension of			only	only
in-band emission (IBE) requirements as specified in TS 38.101-2 [3].	Dand	Nia	N1/A	
multipleRateMatchingEUTRA-CRS-r16	Band	No	N/A	FR1
Indicates whether the UE supports multiple E-UTRA CRS rate matching patterns, which is supported only for FR1. The capability signalling comprises the following				only
parameters:				
- maxNumberPatterns-r16 indicates the maximum number of LTE-CRS rate				
matching patterns in total within a NR carrier using 15 kHz SCS. The UE can				
report the value larger than 2 only if UE reports the value of				
maxNumberNon-OverlapPatterns-r16 is larger than 1.				
 maxNumberNon-OverlapPatterns-r16 indicates the maximum number of 				
LTE-CRS non-overlapping rate matching patterns within a NR carrier using				
15 kHz SCS.				
The UE can include this feature only if the UE indicates support of				
rateMatchingLTE-CRS.	Dend	Vee	N1/A	NI/A
multipleTCI	Band	Yes	N/A	N/A
Indicates whether UE supports more than one TCI state configurations per				
CORESET. UE is only required to track one active TCI state per CORESET. UE is required to support minimum between 64 and number of configured TCI states				
indicated by <i>tci-StatePDSCH</i> . This field shall be set to <i>supported</i> .				
nonGroupSINR-reporting-r16	Band	No	N/A	N/A
Indicates N_max L1-SINR values reported when UE supports non-group based L1-	Banu		IN/A	IN/A
SINR reporting. UE indicates support of this feature shall indicate support of ssb-				
csirs-SINR-measurement-r16.				
	1			

				
 olpc-SRS-Pos-r16 Indicates whether the UE supports OLPC for SRS for positioning. The capability signalling comprises the following parameters. olpc-SRS-PosBasedOnPRS-Serving-r16 indicates whether the UE supports OLPC for SRS for positioning based on PRS from the serving cell in the same band. The UE can include this field only if the UE supports NR-DL-PRS-ProcessingCapability-r16 defined in TS 37.355 [22], and srs-PosResources-r16. Otherwise, the UE does not include this field; 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-PosResources-r16. Otherwise, the UE does not include this field; 	Band	No	N/A	N/A
 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; 				
NOTE: A PRS from a PRS-only TP is treated as PRS from a non-serving cell.				
 maxNumberPathLossEstimatePerServing-r16 indicates the maximum number of pathloss estimates that the UE can simultaneously maintain for all the 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 olpc-SRS-PosBasedOnPRS-Serving-r16, olpc-SRS- PosBasedOnSSB-Neigh-r16 and olpc-SRS-PosBasedOnPRS-Neigh-r16. Otherwise, the UE does not include this field. 				
oneSlotPeriodicTRS-r16	Band	No	TDD	FR1
Indicates whether the UE supports one-slot periodic TRS configuration only when no two consecutive slots are indicated as downlink slots by <i>tdd-UL-DL-</i> <i>ConfigurationCommon</i> or <i>tdd-UL-DL-ConfigDedicated</i> . If the UE supports this feature, the UE needs to report <i>csi-RS-ForTracking</i> .			only	only
 outOfOrderOperationDL-r16 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: supportPDCCH-ToPDSCH-r16 indicates support out-of-order operation for PDCCH to PDSCH; supportPDSCH-ToHARQ-ACK-r16 indicates support out-of-order operation for PDSCH to HARQ-ACK. 	Band	No	N/A	N/A
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 Indicates whether the UE support PDSCHs with partially overlapping Resource Elements. The UE that indicates support of this feature shall support <i>multiDCI-</i> <i>MultiTRP-r16</i> .	Band	No	N/A	N/A
overlapRateMatchingEUTRA-CRS-r16 Indicates whether the UE supports two LTE-CRS overlapping rate matching patterns within a part of NR carrier using 15 kHz SCS overlapping with a LTE carrier. If the UE supports this feature, the UE needs to report <i>multipleRateMatchingEUTRA-CRS-r16</i> .	Band	No	N/A	FR1 only

<i>pdsch-1024QAM-FR1-r17</i> 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> .				
<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
<i>pdsch-MappingTypeB-Alt-r16</i> 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 <i>pdsch-MappingTypeB</i> .	Band	No	N/A	FR1 only
periodicBeamReport Indicates whether UE supports periodic 'CRI/RSRP' or 'SSBRI/RSRP' reporting using PUCCH formats 2, 3 and 4 in one slot.	Band	Yes	N/A	N/A
powerBoosting-pi2BPSK Indicates whether UE supports power boosting for pi/2 BPSK, when applicable as defined in 6.2 of TS 38.101-1 [2] v16.9.0. It is mandatory with capability signalling. This capability is not applicable to IAB-MT.	Band	CY	TDD only	FR1 only
 ptrs-DensityRecommendationSetDL 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: two values of frequencyDensity; three values of timeDensity. 	Band	CY	N/A	N/A
 ptrs-DensityRecommendationSetUL For each supported sub-carrier spacing, indicates preferred threshold sets for determining UL PTRS density. For each supported sub-carrier spacing, this field comprises: two values of <i>frequencyDensity</i>; three values of <i>timeDensity</i>; five values of <i>sampleDensity</i>. 	Band	No	N/A	N/A
pucch-SpatialRelInfoMAC-CE Indicates whether the UE supports indication of <i>PUCCH-spatialrelationinfo</i> by a MAC CE per PUCCH resource. It is mandatory for FR2 and optional for FR1.	Band	CY	N/A	N/A
<i>pusch-256QAM</i> Indicates whether the UE supports 256QAM modulation scheme for PUSCH as defined in 6.3.1.2 of TS 38.211 [6].	Band	No	N/A	N/A
<i>pusch-RepetitionMultiSlots-v1650</i> Indicates whether the UE supports transmitting PUSCH scheduled by DCI format 0_1 when configured with higher layer parameter <i>pusch-AggregationFactor</i> > 1, as defined in clause 6.1.2.1 of TS 38.214 [12]. This applies only to non-shared spectrum channel access. For shared spectrum channel access, <i>pusch-RepetitionMultiSlots-r16</i> applies. UE shall set the capability value consistently for all FDD-FR1 bands, all TDD-FR2-1 bands and all TDD-FR2-2 bands respectively.	Band	Yes	N/A	N/A
The UE only includes pusch-RepetitionMultiSlots-v1650 if pusch- RepetitionMultiSlots is absent.				
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 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
rateMatchingLTE-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

rIm-Relaxation-r17	Band	No	N/A	N/A
Indicates whether the UE supports RLM relaxation criteria and requirement as specified in TS 38.133 [5]. UE shall set the capability value consistently for all FDD-FR1 bands, all TDD-FR1 bands, all TDD-FR2-2 bands				
respectively.				
separateCRS-RateMatching-r16	Band	No	N/A	FR1
Indicates whether the UE supports rate match around configured CRS patterns which is associated with <i>CORESETPoolIndex</i> (if configured) and are applied to the PDSCH scheduled with a DCI detected on a CORESET with the same value of <i>CORESETPoolIndex</i> . The UE that indicates support of this feature shall support <i>multiDCI-MultiTRP-r16</i> and <i>overlapRateMatchingEUTRA-CRS-r16</i> . This is only applicable for 15kHz SCS.				only
semi-PersistentL1-SINR-Report-PUCCH-r16	Band	No	N/A	N/A
Indicates whether the UE supports semi-persistent L1-SINR report on PUCCH. The UE indicating support of this feature shall include at least one of the following capabilities:				
 supportReportFormat1-2OFDM-syms-r16 indicates support of report on PUCCH formats over 1 – 2 OFDM symbols once per slot (or piggybacked on a PUSCH) 				
 supportReportFormat4-14OFDM-syms-r16 indicates support of report on PUCCH formats over 4 – 14 OFDM symbols once per slot (or piggybacked on a PUSCH). 				
The UE indicating support of this feature shall also indicate support of <i>ssb-csirs-</i> SINR-measurement-r16.				
semi-PersistentL1-SINR-Report-PUSCH-r16	Band	No	N/A	N/A
Indicates whether the UE supports semi-persistent L1-SINR report on PUSCH. The UE indicating support of this feature shall also indicate support of <i>ssb-csirs-SINR-measurement-r16</i> .				
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 spatial relations for the supported bands using <i>supportedSRS-Resources</i> ,				
maxNumberConfiguredSpatialRelations and pucch-SpatialRelInfoMAC-CE.				
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: supportSRS-xTyR-xLessThanY-r16 indicates support transmission of SRS 				
for xTyR (x <y) and="" antenna="" based="" bm="" cb="" for="" ncb="" on<="" srs="" switching="" td=""><td></td><td></td><td></td><td></td></y)>				
different CCs in overlapped symbol(s) for intra-band UL CA.				
- supportSRS-xTyR-xEqualToY-r16 indicates support transmission of SRS for				
xTyR (x=y) based antenna switching and SRS for CB/NCB/BM on different				
 CCs in overlapped symbol(s) for intra-band UL CA. supportSRS-AntennaSwitching-r16 Indicates whether the UE support 				
simultaneous transmission of SRS for antenna switching on different CCs in				
overlapped symbol(s) for intra-band UL CA.				
NOTE: For simultaneously entering quitables and entering quitables CDC in				
NOTE: For simultaneously antenna switching and antenna switching SRS in intra-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.			N1/A	N1/A
simulSRS-MIMO-TransWithinBand-r16	Band	No	N/A	N/A
Indicates the number of SRS resources for positioning and SRS resource for MIMO				
Indicates the number of SRS resources for positioning and SRS resource for MIMO on a symbol within a band across multiple CCs. The UE can include this field only if the UE supports <i>srs-PosResources-r16</i> . Otherwise, the UE does not include this				1
Indicates the number of SRS resources for positioning and SRS resource for MIMO on a symbol within a band across multiple CCs. The UE can include this field only if the UE supports <i>srs-PosResources-r16</i> . Otherwise, the UE does not include this field.	Dord	Ne	NI/A	N1/A
Indicates the number of SRS resources for positioning and SRS resource for MIMO on a symbol within a band across multiple CCs. The UE can include this field only if the UE supports <i>srs-PosResources-r16</i> . Otherwise, the UE does not include this field. <i>simulSRS-TransWithinBand-r16</i>	Band	No	N/A	N/A
Indicates the number of SRS resources for positioning and SRS resource for MIMO on a symbol within a band across multiple CCs. The UE can include this field only if the UE supports <i>srs-PosResources-r16</i> . Otherwise, the UE does not include this field. <i>simulSRS-TransWithinBand-r16</i> Indicates the number of SRS resources for positioning on a symbol within a band	Band	No	N/A	N/A
Indicates the number of SRS resources for positioning and SRS resource for MIMO on a symbol within a band across multiple CCs. The UE can include this field only if the UE supports <i>srs-PosResources-r16</i> . Otherwise, the UE does not include this field. <i>simulSRS-TransWithinBand-r16</i> Indicates the number of SRS resources for positioning on a symbol within a band across multiple CCs. The UE can include this field only if the UE supports <i>srs- PosResources-r16</i> . Otherwise, the UE does not include this field.	Band	No		N/A
Indicates the number of SRS resources for positioning and SRS resource for MIMO on a symbol within a band across multiple CCs. The UE can include this field only if the UE supports <i>srs-PosResources-r16</i> . Otherwise, the UE does not include this field. <i>simulSRS-TransWithinBand-r16</i> Indicates the number of SRS resources for positioning on a symbol within a band across multiple CCs. The UE can include this field only if the UE supports <i>srs</i> -	Band	No	N/A N/A	N/A FR2 only

<i>sn-InitiatedCondPSCellChangeNRDC-r17</i> Indicates whether the UE supports SN initiated inter-SN conditional PSCell change in NR-DC, which is configured by NR <i>conditionalReconfiguration</i> 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.	Band	No	N/A	N/A
 spatialRelations, spatialRelations-v1640 Indicates whether the UE supports spatial relations. The capability signalling comprises the following parameters. maxNumberConfiguredSpatialRelations indicates the maximum number of configured spatial relations per CC for PUCCH and SRS. It is not applicable to FR1 and applicable to FR2 only. The UE is mandated to report 16 or higher values. maxNumberConfigured Spatial relations per CC for PUCCH and SRS. It is not applicable to 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; 	Band	FD	N/A	FD
 maxNumberActiveSpatialRelations indicates the maximum number of active spatial relations with regarding to PUCCH and SRS for PUSCH, per BWP per CC. It is not applicable to FR1 and applicable and mandatory to report one or higher value for FR2 only; additionalActiveSpatialRelationPUCCH indicates support of one additional 				
 active spatial relation for PUCCH. It is mandatory with capability signalling if <i>maxNumberActiveSpatialRelations</i> is set to n1; <i>maxNumberDL-RS-QCL-TypeD</i> indicates the maximum number of downlink RS resources used for QCL type D in the active TCI states and active spatial relation information, which is optional. 				
The UE is mandated to report <i>spatialRelations</i> for FR2. if <i>maxNumberConfiguredSpatialRelations-v1640</i> is reported, UE shall report value <i>n96</i> in <i>maxNumberConfiguredSpatialRelations</i> .				

 spatialRelationsSRS-Pos-r16 Indicates whether the UE supports spatial relations for SRS for positioning. The capability signalling comprises the following parameters. spatialRelation-SRS-PosBasedOnSSB-Serving-r16 indicates whether the UE supports spatial relation for SRS for positioning based on SSB from the serving cell in the same band. The UE can include this field only if the UE supports srs-PosResources-r16. Otherwise, the UE does not include this field; 	Band	No	N/A	FR2 only
 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 spatialRelation-SRS-PosBasedOnSSB-Serving-r16. Otherwise, the UE does not include this field; 				
 spatialRelation-SRS-PosBasedOnPRS-Serving-r16 indicates whether the UE supports spatial relation for SRS for positioning based on PRS from the serving cell in the same band. The UE can include this field only if the UE supports any of DL PRS Resources for DL AoD, DL PRS Resources for DL- TDOA or DL PRS Resources for Multi-RTT defined in TS37.355 [22], or srs- PosResources-r16. Otherwise, the UE does not include this field; 				
 spatialRelation-SRS-PosBasedOnSRS-r16 indicates whether the UE supports spatial relation for SRS for positioning based on SRS in the same band. The UE can include this field only if the UE supports srs- PosResources-r16. Otherwise, the UE does not include this field; 				
 spatialRelation-SRS-PosBasedOnSSB-Neigh-r16 indicates whether the UE supports spatial relation for SRS for positioning based on SSB from the neighbouring cell in the same band. The UE can include this field only if the UE supports spatialRelation-SRS-PosBasedOnSSB-Serving-r16. Otherwise, the UE does not include this field; 				
 spatialRelation-SRS-PosBasedOnPRS-Neigh-r16 indicates whether the UE supports spatial relation for SRS for positioning based on PRS from the neighbouring cell in the same band. The UE can include this field only if the UE supports spatialRelation-SRS-PosBasedOnPRS-Serving-r16. Otherwise, the UE does not include this field; 				
NOTE: A PRS from a PRS-only TP is treated as PRS from a non-serving cell.				
<i>sp-BeamReportPUCCH</i> Indicates support of semi-persistent 'CRI/RSRP' or 'SSBRI/RSRP' reporting using PUCCH formats 2, 3 and 4 in one slot.	Band	No	N/A	N/A
<i>sp-BeamReportPUSCH</i> Indicates support of semi-persistent 'CRI/RSRP' or 'SSBRI/RSRP' reporting on PUSCH.	Band	No	N/A	N/A

sps-r16	Band	No	N/A	N/A
Indicates whether the UE support of up to 8 configured SPS configurations in a				
BWP of a serving cell and up to 32 configured SPS configurations in a cell group.				
This field includes the following parameters:				
 maxNumberConfigsPerBWP-r16 indicates the maximum number of active 				
SPS configurations in a BWP of a serving cell.				
- maxNumberConfigsAllCC-r16 indicates the maximum number of active SPS				
configurations across all serving cells in a MAC entity, and across MCG and				
SCG in case of NR-DC.				
The UE can include this feature only if the UE indicates supports of downlinkSPS.				
NOTE:				
- For all the reported bands in FR1, a same X1 value is reported for				
maxNumberConfigsAllCC-r16. For all the reported bands in FR2, a same X2				
value is reported for maxNumberConfigsAllCC-r16.				
- The total number of active SPS configurations across all serving cells in FR1				
is no greater than X1.				
- The total number of active SPS configurations across all serving cells in FR2				
is no greater than X2.				
- If the CA have some serving cell(s) in FR1 and some serving cell(s) in FR2,				
the total number of active SPS configurations across all serving cells is no				
greater than max(X1, X2).				
srs-AssocCSI-RS	Band	No	N/A	N/A
Parameters for the calculation of the precoder for SRS transmission based on				
channel measurements using associated NZP CSI-RS resource (srs-AssocCSI-RS)				
as described in clause 6.1.1.2 of TS 38.214 [12]. UE supporting this feature shall				
also indicate support of non-codebook based PUSCH transmission.				
This capability signalling includes list of the following parameters:				
 maxNumberTxPortsPerResource indicates the maximum number of Tx ports 				
in a resource;				
- maxNumberResourcesPerBand indicates the maximum number of resources				
across all CCs within a band simultaneously;				
- totalNumberTxPortsPerBand indicates the total number of Tx ports across all				
CCs within a band simultaneously.				
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 UE supporting this feature shall also indicate the support of srs-StartAnyOFDM-				
Symbol-r16.				
srs-partialFrequencySounding-r17 Indicates whether the UE supports partial frequency sounding for SRS.	Band	No	N/A	N/A
srs-startRB-locationHoppingPartial-r17	Band	No	N/A	N/A
Indicates whether the UE supports start RB location hopping in partial frequency	Danu		11/7	1 11/7
SRS transmission across different SRS frequency hopping periods for				
periodic/semi-persistent/aperiodic SRS.				
The UE supporting this feature shall also indicate the support of srs-				
partialFrequencySounding-r17.				

	-SINR-measurement-r16 the limitations of the UE support of SSB/CSI-RS for L1-SINR	Band	No	N/A	N/A
measuren					
	bility signalling includes list of the following parameters:				
Per slot lir					
	axNumberSSB-CSIRS-OneTx-CMR-r16 indicates the maximum number of				
	B/CSI-RS (1TX) across all CCs within a band for Channel Measurement				
	port				
	axNumberCSI-IM-NZP-IMR-res-r16 indicates the maximum number of				
CS	SI-IM/NZP-IMR resources across all CCs within a band				
	axNumberCSIRS-2Tx-res-r16 indicates the maximum number of CSI-RS				
	FX) resources across all CCs within a band for Channel Measurement				
	port				
	mitations:				
	axNumberSSB-CSIRS-res-r16 indicates the max number of SSB/CSI-RS				
	sources across all CCs within a band as Channel Measurement Report				
	axNumberCSI-IM-NZP-IMR-res-mem-r16 indicates the maximum number				
	CSI-IM/NZP-IMR resources across all CCs within a band				
Other limi	pportedCSI-RS-Density-CMR-r16 indicates supported density of CSI-RS				
	Channel Measurement Report.				
	axNumberAperiodicCSI-RS-Res-r16 indicates the maximum number of				
	eriodic CSI-RS resources across all CCs within a band configured to				
	easure L1-SINR (including CMR and IMR)				
	<i>oportedSINR-meas</i> indicates the supported SINR measurements.				
-	supportedSINR-meas-r16 contains values {ssbWithCSI-IM, ssbWithNZP-				
	IMR, csirsWithNZP-IMR, csi-RSWithoutIMR representing (SSB as CMR				
	with dedicated CSI-IM, SSB as CMR with dedicated NZP IMR, CSI-RS				
	as CMR with dedicated NZP IMR configured, CSI-RS as CMR without				
	dedicated IMR configured}.				
-	supportedSINR-meas-v1670 indicates a 4-bit bitmap {ssbWithCSI-IM,				
	ssbWithNZP-IMR, csirsWithNZP-IMR, csi-RSWithoutIMR}, where the				
	leftmost bit corresponds to ssbWithCSI-IM, the next bit corresponds to				
	ssbWithNZP-IMR and so on. UE indicating supportedSINR-meas-v1670				
	shall always indicate supportedSINR-meas-r16.				
	rting this feature shall also indicate support of CSI-RS as CMR with				
	CSI-IM. UE indicating support of this feature shall also indicate support of				
	eamReport and aperiodicBeamReport or sp-BeamReportPUCCH and sp-				
	ortPUSCH. UE indicating support of ssb-csirs-SINR-measurement-r16 ort periodic and aperiodic L1-SINR report.				
shall supp	on penodic and apenodic LT-SINK report.				
NOTE 1.	The reference slot duration is the shortest slot duration defined for the				
	frequency range where the reported band belongs.				
NOTE 2:	For maxNumberSSB-CSIRS-res-r16 and maxNumberCSI-IM-NZP-IMR-				
	res-mem-r16 the configured CSI-RS resources for both active and				
	inactive BWPs are counted.				
NOTE 3:	For maxNumberSSB-CSIRS-OneTx-CMR-r16, maxNumberCSI-IM-NZP-				
	IMR-res-r16 and maxNumberCSIRS-2Tx-res-r16, 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-				
	RS-Res-r16, if one resource used for L1-SINR measurement is referred				
	N times by one or more CSI reporting settings with reportQuantity-r16 = sch_ladex_SINP_r16 or cri_SINP_r16 it is counted N times				
	<i>ssb-Index-SINR-r16</i> or <i>cri-SINR-r16</i> , it is counted N times. If more than one type of SINR measurement is indicated in				
	supportedSINR-meas-v1670, it is left to UE implementation which SINR				
	measurement to indicate in supportedSINR-meas-r16.				
SUNNOrth	4CandidateBeamRS-BFR-r16	Band	No	N/A	N/A
	UE support of configuring maximum 64 candidate beam RSs per BWP per	Danu		11/71	
	dicating support of this feature shall also indicate support of				
	perCSI-RS-BFD, maxNumberSSB-BFD and maxNumberCSI-RS-SSB-				
			1		

supportCodeWordSoftCombining-r16 Indicates whether UE supports codeword soft combining for FDMSchemeB. UE	Band	No	N/A	N/A
indicates whether be supports codeword son combining for PDMSchemeB. De indicates support of this feature depends on whether the supportFDM-SchemeB-r16				
is also supported.				
supportFDM-SchemeA-r16	Band	No	N/A	N/A
Indicates whether UE supports single DCI based FDMSchemeA.				
supportInter-slotTDM-r16	Band	No	N/A	N/A
Indicates whether UE supports single-DCI based inter-slot TDM. This capability				
signalling includes the following:				
- supportRepNumPDSCH-TDRA-r16 indicates support of RepNumR16 in				
PDSCH-TimeDomainResourceAllocation and the maximum value of				
RepNumR16 - maxTBS-Size-r16 indicates maximum TBS size.				
- maxNumberTCI-states-r16 indicates the maximum number of TCI states.				
supportNewDMRS-Port-r16	Band	No	N/A	N/A
Indicates whether UE supports of new DMRS port entry {0,2,3}. UE supports this				
feature should indicate support singleDCI-SDM-scheme-r16 for the band.				
supportTDM-SchemeA-r16	Band	No	N/A	N/A
Indicates whether UE supports single DCI based TDMSchemeA. The capability				
signalling includes the maximum TBS size.				
supportTwoPortDL-PTRS-r16	Band	No	N/A	n/A
Indicates whether UE supports 2-port DL PT-RS. UE supports this feature should				
indicate support singleDCI-SDM-scheme-r16 for the band. tci-StatePDSCH	Bond	Vaa	NI/A	N1/A
<i>TCI-StatePDSCH</i> Defines support of TCI-States for PDSCH. The capability signalling comprises the	Band	Yes	N/A	N/A
following parameters:				
- maxNumberConfiguredTCIstatesPerCC indicates the maximum number of				
configured TCI-states per CC for PDSCH. For FR2, the UE is mandated to				
set the value at least to 64 (i.e. value 128 is an optional value). For FR1, the				
UE is mandated to set these values at least to the maximum number of				
allowed SSBs in the supported band;				
 maxNumberActiveTCI-PerBWP indicates the maximum number of activated 				
TCI-states per BWP per CC, including control and data. If a UE reports X				
active TCI state(s), it is not expected that more than X active QCL type D				
assumption(s) for any PDSCH and any CORESETs for a given BWP of a				
serving cell become active for the UE. The UE shall include this field.				
Note the UE is required to track only the active TCI states.				
The UE is mandated to report tci-StatePDSCH.				
timeBasedCondHandover-r17	Band	No	N/A	N/A
Indicates whether the UE supports time based conditional handover, i.e.,				
CondEvent T1 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				
nonTerrestrialNetwork-r17. UE shall set the capability value consistently for all FDD-				
FR1 NTN bands. trs-AdditionalBandwidth-r16	Band	No	FDD	FR1
Indicates the UE supported TRS bandwidths, in addition to 52 RBs, for a 10MHz UE	Danu	UNI	only	only
channel bandwidth. This field only applies for the BWPs configured with 52 RBs			Only	Uniy
size and 15kHz SCS, in FDD bands.				
Value <i>trs-AddBW-Set1</i> indicates 28, 32, 36, 40, 44, 48 RBs.				
Value trs-AddBW-Set2 indicates 32, 36, 40, 44, 48 RBs.				
twoPortsPTRS-UL	Band	No	N/A	N/A
Defines whether UE supports PT-RS with 2 antenna ports for UL transmission.				
type1-PUSCH-RepetitionMultiSlots-v1650	Band	No	N/A	N/A
Indicates whether the UE supports Type 1 PUSCH transmissions with configured				
grant as specified in TS 38.214 [12] with UL-TWG-repK value equal to 2, 4, or 8				
with a single repetition of the transport block within each slot, and redundancy version pattern as indicated by UL-TWG-RV-rep. A UE supporting this feature shall				
also support Type 1 PUSCH transmissions with configured grant as specified in TS				
38.214 [12] with UL-TWG-repK value of one. This applies only to non-shared				
spectrum channel access. For shared spectrum channel access, type1-PUSCH-				
RepetitionMultiSlots-r16 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.				
	1			
The UE only includes type1-PUSCH-RepetitionMultiSlots-v1650 if type1-PUSCH- RepetitionMultiSlots is absent				

type2-PUSCH-RepetitionMultiSlots-	v1650	Band	No	N/A	N/A
Indicates whether the UE supports Ty grant as specified in TS 38.214 [12] w	be 2 PUSCH transmissions with configured ith UL-TWG-repK value equal to 2, 4, or 8				
	block within each slot, and redundancy G-RV-rep. A UE supporting this feature shall				
	sions with configured grant as specified in TS				
	of one. This applies only to non-shared spectrum channel access, <i>type2-PUSCH</i> -				
RepetitionMultiSlots-r16 applies. UE s	hall set the capability value consistently for all				
FDD-FR1 bands, all TDD-FR1 bands, bands respectively.	all TDD-FR2-1 bands and all TDD-FR2-2				
RepetitionMultiSlots is absent	RepetitionMultiSlots-v1650 if type2-PUSCH-				
<i>txDiversity-r16</i> Indicates whether the UE supports tra	nsparent Tx diversity requirements as	Band	No	N/A	FR1 only
specified in the suffix G clauses of TS TS38.101-1 [2]).	38.101-1 [2] (see also clauses 4.2 and 4.3 of				
ue-PowerClass, ue-PowerClass-v16		Band	Yes	N/A	N/A
	nt UE power class than the default UE power 3.101-1 [2], 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. for <i>pc6</i> supports the enhanced intra-N	101-2 [3] in this field. UE indicating support				
	speed up to 350 km/h as specified in TS				
38.133 [5]. This capability is not applic					
uplinkBeamManagement	t for UL. This capability signalling comprises	Band	No	N/A	FR2 only
the following parameters:	t of OL. This capability signalling comprises				Only
 maxNumberSRS-ResourcePer 	Set-BM indicates the maximum number of				
	rce set configurable for beam management,				
supported by the UE. - maxNumberSRS-ResourceSet	indicates the maximum number of SRS				
resource sets configurable for I	beam management, supported by the UE.				
If the UE does not set beamCorrespon					
	bability. This feature is optional for the UE that ut uplink beam sweeping as defined in clause				
NOTE: The network uses maxNum	berSRS-ResourceSet to determine the				
maximum number of SRS r	esource sets that can be configured to the UE /aperiodic configurations as below:				
Maximum number of SRS	Additional constraint on the maximum				
resource sets across all time	number of SRS resource sets				
domain behaviour (periodic/semi-	configured to the UE for each supported time domain behaviour				
persistent/aperiodic) reported in	(periodic/semi-persistent/aperiodic)				
maxNumberSRS-ResourceSet					
2	1				
3	1				
4	2				
5	2				
6	2				
7 8	4 4				
٥ ک	4				

4.2.7.2a SharedSpectrumChAccessParamsPerBand

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

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

<i>searchSpaceSwitchWithoutDCI-r16</i> Indicates whether the UE supports switching between two groups of search space	Band	No	N/A	N/A
sets without DCI 2_0 monitoring (i.e. implicit PDCCH decoding) that comprises of				
the following functional components:				
- Support switching the search space set group with PDCCH decoding in				
group 1;				
- Support a timer to switch back to original search space set group.				
The UE can switch search space set groups for different cells independently, unless				
the UE supports 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.				
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 searchSpaceSwitchWithDCI-r16 or searchSpaceSwitchWithoutDCI-				
r16.				
non-numericalPDSCH-HARQ-timing-r16	Band	No	N/A	N/A
Indicates whether the UE supports configuration of a value for <i>dl-DataToUL-ACK-</i>				
r16 indicating an inapplicable time to report HARQ ACK.	<u> </u>			
enhancedDynamicHARQ-codebook-r16	Band	No	N/A	N/A
Indicates whether the UE supports enhanced dynamic HARQ codebook supporting				
grouping of HARQ ACK and triggering the retransmission of HARQ ACK in each group. The enhanced dynamic HARQ codebook comprises of the following				
functional components:				
- Support of bit fields signalling PDSCH HARQ group index and NFI in DCI				
1_1 (configuration of nfi-TotalDAI-Included);				
- Support of bit field in DCI 0_1 for other group total DAI if configured.				
(configuration of ul-TotalDAI-Included);				
- Support the retransmission of HARQ ACK (pdsch-HARQ-ACK-Codebook =				
enhancedDynamic-r16).				
This capability is also applicable to a frequency band that does not require shared				
spectrum access.				
oneShotHARQ-feedback-r16	Band	No	N/A	N/A
Indicates whether the UE supports one shot HARQ ACK feedback comprised of the				
following functional components:				
 Support feedback of type 3 HARQ-ACK codebook, triggered by a DCI 1_1 				
scheduling a PDSCH;				
- Support feedback of type 3 HARQ-ACK codebook, triggered by a DCI 1_1				
without scheduling a PDSCH using a reserved FDRA value.				
This capability is also applicable to a frequency band that does not require shared				
spectrum access.	<u> </u>			
multiPUSCH-UL-grant-r16	Band	No	N/A	N/A
Indicates whether the UE supports scheduling up to 8 PUSCH with a single DCI				
0_1. This capability is also applicable to a frequency band that does not require shared spectrum access.				
csi-RS-RLM-r16	Band	No	N/A	N/A
Indicates whether the UE supports CSI-RS based RLM for NR-Unlicensed.	Danu	NO		
csi-RSRP-AndRSRQ-MeasWithSSB-r16	Band	No	N/A	N/A
Indicates whether the UE can perform CSI-RSRP and CSI-RSRQ measurement as				,, ,
specified in TS 38.215 [13], where CSI-RS resource is configured with an				
associated SS/PBCH in shared spectrum channel access.				
csi-RSRP-AndRSRQ-MeasWithoutSSB-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 for a cell that				
transmits SS/PBCH block and without an associated SS/PBCH block in shared				
spectrum channel access.				
csi-SINR-Meas-r16	Band	No	N/A	N/A
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 maxNumberCSI-RS-RRM-RS-SINR. UE indicating support of this feature shall				
indicate support of csi-RSRP-AndRSRQ-MeasWithSSB-r16.				
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ssb-AndCSI-RS-RLM-r16	Band	No	N/A	N/A
Indicates whether the UE can perform radio link monitoring procedure based on	Dana			
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 <i>maxNumberResource-CSI-RS-RLM</i> .				
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.				
pusch-PRB-interlace-r16	Band	No	N/A	N/A
Indicates whether the UE supports PRB interlace frequency domain resource				
allocation for PUSCH.				
pucch-F0-F1-PRB-Interlace-r16	Band	No	N/A	N/A
Indicates whether the UE supports PRB interlace frequency domain resource				
allocation for PUCCH format 0, 1, 2 and 3.				
occ-PRB-PF2-PF3-r16	Band	No	N/A	N/A
Indicates whether the UE supports OCC for PRB interface mapping for PUCCH				
format 2 and 3. If the UE supports this feature, the UE needs to report pucch-F0-F1-				
PRB-Interlace-r16.				
extCP-rangeCG-PUSCH-r16	Band	No	N/A	N/A
Indicates whether the UE supports generating a CP extension of length longer than				
1 symbol for Configured Grant PUSCH transmission. If the UE supports this feature,				
the UE needs to report configuredUL-GrantType1 and/or configuredUL-GrantType2.				
configuredGrantWithReTx-r16	Band	No	N/A	N/A
Indicates whether the UE supports configured grant with retransmission in				
configured grant resource, comprised of retransmission timer, DFI monitoring and				
CG-UCI in CG-PUSCH. If the UE supports this feature, the UE needs to report				
configuredUL-GrantType1 and/or configuredUL-GrantType2.				
ed-Threshold-r16	Band	No	N/A	N/A
Indicates whether the UE supports using ED threshold given by gNB for UL to DL				
COT sharing. A UE that supports this feature shall also support <i>ul</i> -				
DynamicChAccess-r16.	- · ·			
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				
feature shall also support ul-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 <i>configuredGrantWithReTx-r16</i> .				
cg-resourceConfig-r16	Band	No	N/A	N/A
Indicates whether the UE supports configuration of resources with <i>cg-nrofSlots-r16</i>				
and cg-nrofPUSCH-InSlot-r16. If the UE supports this feature, the UE needs to				
report configuredUL-GrantType1 and/or configuredUL-GrantType2.	<u> </u>			
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. The UE indicates support of this capability shall also indicates support of <i>dl-ReceptionLBT-subsetRB-r16</i> .				

4.2.7.2b FR2-2-AccessParamsPerBand

Definitions for parameters	Per	М	FDD- TDD DIFF	FR1- FR2 DIFF
<i>dI-FR2-2-SCS-120kHz-r17</i> 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 UE supporting at least one FR2-2 frequency band.	Band	CY	N/A	N/A
<i>ul-FR2-2-SCS-120kHz-r17</i> Indicates whether the UE supports PRACH with 120kHz SCS and length 139 and transmission of 120kHz subcarrier spacing for UL data and control channels and reference signals in FR2-2. UE indicating support of this feature shall also indicate support of <i>dl-FR2-2-SCS</i> -	Band	No	N/A	N/A
120kHz-r17. <i>initialAccessSSB-120kHz-r17</i> Indicates whether the UE supports 120kHz SSB for initial access in FR2-2.	Band	No	N/A	N/A
UE indicating support of this feature shall also indicate support of <i>dl-FR2-2-SCS-120kHz-r17</i> and <i>ul-FR2-2-SCS-120kHz-r17</i> .				

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4.2.7.3 CA-ParametersEUTRA

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

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4.2.7.4 CA-ParametersNR

Definitions for parameters	Per	М	FDD- TDD DIFF	FR1- FR2 DIFF
beamManagementType-r16 Indicates the supported beam management type for inter-band CA within FR2. Beam management type can be independent beam management (IBM) or common beam management (CBM).	BC	Yes	TDD only	FR2 only
In this release of the specification, the UE shall only report value of ' <i>ibm</i> '. <i>blindDetectFactor-r16</i> Defines the value of factor R for blind detection as specified in Clause 10.1 [11].	BC	No	N/A	N/A
 The UE that indicates support of this feature shall support multiDCI-MultiTRP-r16. codebookComboParametersAdditionPerBC-r16 Indicates the list of supported CSI-RS resources across all bands in a band combination by referring to codebookVariantsList for the mixed codebook types. For mixed codebook types, UE reports support active CSI-RS resources and ports for up to 4 mixed codebook combinations in any slot. The following parameters are included in codebookVariantsList for each code book type: maxNumberTxPortsPerResource indicates the maximum number of Tx ports in a resource across all bands within a band combination; maxNumberResourcesPerBand indicates the maximum number of resources across all CCs within a band combination, simultaneously; totalNumberTxPortsPerBand indicates the total number of Tx ports across all CCs within a band combination, simultaneously. For each band in a band combination, supported values for these three parameters are determined in conjunction with codebookComboParametersAddition-r16 reported in MIMO-ParametersPerBand. 	BC	No	N/A	N/A
 CodebookParametersAdditionPerBC-r16 Indicates the list of supported CSI-RS resources across all bands in a band combination by referring to <i>codebookVariantsList</i> for the additional codebook types. The following parameters are included in <i>codebookVariantsList</i> for each code book type: maxNumberTxPortsPerResource indicates the maximum number of Tx ports in a resource across all bands within a band combination; maxNumberResourcesPerBand indicates the maximum number of resources across all CCs within a band combination, simultaneously; totalNumberTxPortsPerBand indicates the total number of Tx ports across all CCs within a band combination, simultaneously. For each band in a band combination, supported values for these three parameters are determined in conjunction with codebookParametersAddition-r16 reported in <i>MIMO-ParametersPerBand</i>. 	BC	No	N/A	N/A
 Initio-Parameters/Perband. codebook/Parameters/Perband. Indicates the list of supported CSI-RS resources across all bands in a band combination by referring to codebook/VariantsList for the additional codebook types. The following parameters are included in codebook/VariantsList for each code book type: maxNumberTxPortsPerResource indicates the maximum number of Tx ports in a resource across all bands within a band combination; maxNumberResourcesPerBand indicates the maximum number of resources across all CCs within a band combination, simultaneously; totalNumberTxPortsPerBerBand 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 Codebook/Parametersfetyp2-r17 reported in MIMO-ParametersPerBand. For codebook/VariantsList related to the FeType-II: The minimum of maxNumberTxPortsPerResource is 'p4'; The minimum value of totalNumberTxPortsPerBand is 4. 	BC	No	N/A	N/A
<i>crossCarrierA-CSI-trigDiffSCS-r16</i> Indicates the UE support of handling cross-carrier A-CSI trigger with different SCS. Value <i>higherA-CSI-SCS</i> indicates the UE support of PDCCH cell of lower SCS and A-CSI RS cell of higher SCS and value <i>lowerA-CSI-SCS</i> indicates the UE support of PDCCH cell of higher SCS and A-CSI RS cell of lower SCS, and value <i>both</i> indicates the support of both variations. A UE supporting this feature shall also indicate support of CSI-RS and CSI-IM reception for CSI feedback using <i>csi-RS-IM-</i> <i>ReceptionForFeedback</i>	BC	No	N/A	N/A

		NI-		NI/A
<i>crossCarrierSchedulingDefaultQCL-r16</i> Indicates whether the UE can be configured with <i>enabledDefaultBeamForCCS</i> for default QCL assumption for cross-carrier scheduling for same/different	BC	No	N/A	N/A
numerologies. A UE supporting this feature shall either indicate support of crossCarrierScheduling-SameSCS or crossCarrierSchedulingDL-DiffSCS-r16.				
Value <i>diff-only</i> indicates UE supports this feature only for different SCS combination(s).				
Value <i>both</i> indicates UE supports this feature for same SCS and for different SCS combination(s).				
crossCarrierSchedulingDL-DiffSCS-r16	BC	No	N/A	N/A
Indicates the UE supports cross carrier scheduling for the different numerologies with carrier indicator field (CIF) in DL carrier aggregation where numerologies for the scheduling CC and scheduled CC are different.				
Value <i>low-to-high</i> indicates UE supports scheduling CC of lower SCS to scheduled CC of higher SCS; Value <i>high-to-low</i> indicates UE supports scheduling CC of higher SCS to scheduled				
CC of lower SCS;				
Value <i>both</i> indicates UE supports both scheduling CC of lower SCS to scheduled CC of higher SCS and scheduling CC of higher SCS to scheduled CC of lower SCS.				
NOTE 1: Following components are applicable to cross carrier scheduling from				
 lower SCS to higher SCS when the UE reports this feature: Processing one unicast DCI scheduling DL per scheduling CC slot 				
 per scheduled CC for FDD scheduling CC Processing one unicast DCI scheduling DL per scheduling CC slot 				
per scheduled CC for TDD scheduling CC NOTE 2: Following components are applicable to cross carrier scheduling from				
higher SCS to lower SCS when the UE reports this feature:				
 Processing one unicast DCI scheduling DL per N consecutive scheduling CC slot per scheduled CC for FDD scheduling CC 				
 Processing one unicast DCI scheduling DL per N consecutive scheduling CC slot per scheduled CC for TDD scheduling CC 				
 N is based on pair of (scheduling CC SCS, scheduled CC SCS): N=2 for (30,15), (60,30), (120,60) and N=4 for (60,5), (120,30), N = 8 for 				
(120,15) crossCarrierSchedulingUL-DiffSCS-r16	BC	No	N/A	N/A
Indicates the UE supports cross carrier scheduling for the different numerologies with carrier indicator field (CIF) in UL carrier aggregation where numerologies for the scheduling CC and scheduled CC are different.			14/7	10/7
Value <i>low-to-high</i> indicates UE supports scheduling CC of lower SCS to scheduled				
CC of higher SCS; Value <i>high-to-low</i> indicates UE supports scheduling CC of higher SCS to scheduled CC of lower SCS;				
Value <i>both</i> indicates UE supports both scheduling CC of lower SCS to scheduled CC of higher SCS and scheduling CC of higher SCS to scheduled CC of lower SCS.				
NOTE 1: Following components are applicable to cross carrier scheduling from				
 lower SCS to higher SCS when the UE reports this feature: Processing one unicast DCI scheduling UL per scheduling CC slot per scheduled CC for FDD scheduling CC 				
 Processing 2 unicast DCI scheduling UL per scheduling CC slot per scheduled CC for TDD scheduling CC 				
NOTE 2: Following components are applicable to cross carrier scheduling from higher SCS to lower SCS when the UE reports this feature:				
 Processing one unicast DCI scheduling UL per N consecutive 				
 scheduling CC slot per scheduled CC for FDD scheduling CC Processing 2 unicast DCI scheduling UL per N consecutive 				
scheduling CC slot per scheduled CC for TDD scheduling CC				
 N is based on pair of (scheduling CC SCS, scheduled CC SCS): N=2 for (30,15), (60,30), (120,60) and N=4 for (60,5), (120,30), N = 8 for (120,15) 				

<i>csi-RS-IM-ReceptionForFeedbackPerBandComb</i> Indicates support of CSI-RS and CSI-IM reception for CSI feedback. This capability	BC	Yes	N/A	N/A
signalling comprises the following parameters:				
- maxNumberSimultaneousNZP-CSI-RS-ActBWP-AIICC indicates the				
maximum number of simultaneous CSI-RS resources (irrespective of the				
associated codebook type) in active BWPs across all CCs, and across MCG				
and SCG in case of NR-DC. The network applies this limit in addition to the				
limits signalled in MIMO-ParametersPerBand->				
maxNumberSimultaneousNZP-CSI-RS-PerCC and in Phy-ParametersFRX-				
Diff-> maxNumberSimultaneousNZP-CSI-RS-PerCC;				
- totalNumberPortsSimultaneousNZP-CSI-RS-ActBWP-AllCC indicates the				
total number of CSI-RS ports in simultaneous CSI-RS resources				
(irrespective of the associated codebook type) in active BWPs across all				
CCs, and across MCG and SCG in case of NR-DC. The network applies this				
limit in addition to the limits signalled in <i>MIMO-ParametersPerBand-></i>				
totalNumberPortsSimultaneousNZP-CSI-RS-PerCC and in Phy-				
ParametersFRX-Diff-> totalNumberPortsSimultaneousNZP-CSI-RS-PerCC.				
The UE is mandated to report csi-RS-IM-ReceptionForFeedbackPerBandComb.				
defaultQCL-CrossCarrierA-CSI-Trig-r16	BC	No	N/A	N/A
Indicates whether the UE can be configured with enabledDefaultBeamForCCS for				
default QCL assumption for cross-carrier A-CSI-RS triggering for same/different				
numerologies as specified in TS 38.213 11].				
Value diffOnly indicates the UE supports this feature for different SCS				
combination(s).				
Value <i>both</i> 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				only
carrier aggregation for HST-SFN joint transmission scheme with velocity up to				
500km/h as specified in TS 38.101-4 [18].				
diffNumerologyAcrossPUCCH-Group	BC	No	N/A	N/A
Indicates whether different numerology across two NR PUCCH groups for data and				
control channel at a given time in NR CA and (NG)EN-DC/NE-DC is supported by				
the UE.				
diffNumerologyAcrossPUCCH-Group-CarrierTypes-r16	BC	No	N/A	N/A
Indicates whether different numerology across two NR PUCCH groups for data and				
control channel at a given time in NR CA for UE supporting two PUCCH groups with				
3 or more bands with at least two carrier types. UE indicating support of this feature				
shall indicate support of twoPUCCH-Grp-ConfigurationsList-r16.				
diffNumerologyWithinPUCCH-GroupLargerSCS	BC	No	N/A	N/A
Indicates whether UE supports different numerology across carriers within a	_			
PUCCH group and a same numerology between DL and UL per carrier for				
data/control channel at a given time in NR CA, (NG)EN-DC/NE-DC and NR-DC.				
In case of NR CA and (NG)EN-DC/NE-DC with one NR PUCCH group and in case				
of NR CA with two NR PUCCH groups, it also indicates whether the UE supports				
different numerologies across NR carriers within the same NR PUCCH group up to				
two different numerologies within the same NR PUCCH group, wherein NR PUCCH				
s sent on the carrier with larger SCS for data and control channel at a given time.				
In case of (NG)EN-DC/NE-DC with two NR PUCCH groups, it indicates whether the				
UE supports different numerologies across NR carriers up to two different				
		1		
numerologies within an NR PUCCH group in FR1, wherein NR PUCCH is sent on				1
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				
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.				
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				
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				
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				
UE supports different numerologies across NR carriers up to two different numerologies within an NR PUCCH group in FR1, wherein NR PUCCH is sent on the carrier with larger SCS, and same numerology across NR carriers within another NR PUCCH group in FR2 for data and control channel at a given time. In case of NR-DC, it indicates whether the UE supports different numerologies across NR carriers within the same NR PUCCH group in MCG (in FR1) up to two different numerologies within the same NR PUCCH group wherein NR PUCCH is sent on the carrier with larger SCS for data/control channel at a given time; and same numerology across NR carriers in SCG (in FR2).				

<i>diffNumerologyWithinPUCCH-GroupLargerSCS-CarrierTypes-r16</i> Indicates whether UE supports different numerology across carriers up to 2 different	BC	No	N/A	N/A
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				
wo PUCCH groups with 3 or more bands with at least two carrier types. UE				
ndicating support of this feature shall indicate support of twoPUCCH-Grp- ConfigurationsList-r16.				
NOTE: PUCCH is sent on a carrier with SCS not smaller than SCS of any DL carriers corresponding to the PUCCH group.				
diffNumerologyWithinPUCCH-GroupSmallerSCS	BC	No	N/A	N/A
ndicates whether UE supports different numerology across carriers within a				
PUCCH group and a same numerology between DL and UL per carrier for				
lata/control channel at a given time in NR CA, (NG)EN-DC/NE-DC and NR-DC.				
n 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				
lifferent numerologies across NR carriers within the same NR PUCCH group up to				
wo different numerologies within the same NR PUCCH group, wherein NR PUCCH				
s sent on the carrier with smaller SCS for data and control channel at a given time. n case of (NG)EN-DC/NE-DC with two NR PUCCH groups, it indicates whether the				
JE supports different numerologies across NR carriers up to two different				
umerologies 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				
nother NR PUCCH group in FR2 for data and control channel at a given time.				
n case of NR-DC, it indicates whether the UE supports different numerologies				
cross NR carriers within the same NR PUCCH group in MCG (in FR1) up to two				
ifferent numerologies within the same NR PUCCH group wherein NR PUCCH is				
ent on the carrier with smaller SCS for data/control channel at a given time; and				
ame numerology across NR carriers in SCG (in FR2).				
liffNumerologyWithinPUCCH-GroupSmallerSCS-CarrierTypes-r16	BC	No	N/A	N//
ndicates whether UE supports different numerology across carriers up to 2 different				
numerologies within the same PUCCH group wherein PUCCH is sent on the carrier				
vith 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.				
JE indicating support of this feature shall indicate support of twoPUCCH-Grp-				
ConfigurationsList-r16.				
NOTE: NR PUCCH is sent on a carrier with SCS not larger than SCS of any DL				
carriers corresponding to the NR PUCCH group.	D O			N 1//
lualPA-Architecture	BC	No	N/A	N//
For band combinations with single-band with UL CA, this field indicates the support of dual PA. If absent in such band combinations, the UE supports single PA for all				
The ULs. For other band combinations, this field is not applicable.				
half-DuplexTDD-CA-SameSCS-r16	BC	No	TDD	N//
indicates whether the UE supports directional collision handling between reference			only	
nd other cell(s) for half-duplex operation in TDD CA with same SCS. The UE can			,	
nclude this field for band combinations including only intra-band TDD CA or if				
<i>imultaneousRxTxInterBandCA</i> is not present for band combinations involving mix				
f intra-band TDD CA and inter-band TDD CA.				
nterCA-NonAlignedFrame-r16	BC	No	N/A	N//
ndicates whether the UE supports inter-band carrier aggregation operation where,				
vithin 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				
ubcarrier spacings given in <i>scs-SpecificCarrierList</i> for SpCell is smaller than or gual to the lowest subcarrier spacing of the subcarrier spacing given in ses				
qual to the lowest subcarrier spacing of the subcarrier spacings given in <i>scs</i> -				
nterCA-NonAlignedFrame-B-r16	BC	No	N/A	N/A
ndicates whether the UE supports inter-band carrier aggregation operation where,			11/7	
vithin the same cell group, the frame boundaries of the SpCell and the SCell(s) are				
ot aligned, the slot boundaries are aligned and the lowest subcarrier spacing of the				
ubcarrier spacings given in <i>scs-SpecificCarrierList</i> for SpCell is larger than the				
owest subcarrier spacing of the subcarrier spacings given in scs-SpecificCarrierList				
or at least one of the non-aligned SCells.				
A UE indicating support of <i>interCA-NonAlignedFrame-B-r16</i> shall also indicate				
upport of interCA-NonAlignedFrame-r16.				

<i>interFreqDAPS-r16</i> 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 UE indicating this capability shall also support inter-frequency synchronous DAPS handover, and single UL transmission for inter-frequency DAPS handover. The capability signalling comprises of the following parameters:	BC	No	N/A	N/A
 interFreqAsyncDAPS-r16 indicates whether the UE supports asynchronous 				
 DAPS handover. <i>interFreqDiffSCS-DAPS-r16</i> indicates whether the UE supports different SCSs in source PCell and inter-frequency target PCell in DAPS handover. The UE only includes this field if different SCSs can be supported in both UL and DL. If absent, the UE does not support either UL or DL SCS being different in DAPS handover. 				
 interFreqMultiUL-TransmissionDAPS-r16 indicates whether the UE supports simultaneous UL transmission in source PCell and target PCell during a DAPS handover. The UE can include this field only if any of semiStaticPowerSharingDAPS-Mode1-r16, semiStaticPowerSharingDAPS- Mode2-r16 or dynamicPowersharingDAPS-r16 are included. Otherwise, the UE 				
 does not include this field. <i>interFreqSemiStaticPowerSharingDAPS-Mode1-r16</i> indicates whether the UE supports semi-static UL power sharing mode 1 during DAPS handover between source and target cells of same FR. 				
 interFreqSemiStaticPowerSharingDAPS-Mode2-r16 indicates whether the UE supports semi-static UL power sharing mode 2 during DAPS handover between source and target cells of same FR. It is only applicable to DAPS Handover in synchronous scenarios. The UE only includes this field if semiStaticPowerSharingDAPS-Mode1-r16 is included. Otherwise, the UE does 				
 not include this field. <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 FR. The UE only include 				
 this field if <i>semiStaticPowerSharingDAPS-Mode1-r16</i> is included. Otherwise, the UE does not include this field. <i>interFreqUL-TransCancellationDAPS-r16</i> indicates support of cancelling UL transmission to the source PCell for inter-frequency DAPS handover. 				
<i>intraBandFreqSeparationUL-AggBW-GapBW-r16</i> Indicates the UL frequency separation class between lower edge of lowest CC and upper edge of highest CC of Intra-band UL non-contiguous CA, i.e. including both the aggregated bandwidth and the gap bandwidth. 3 frequency separation classes	BC	No	N/A	FR1 only
 are introduced and the values are as follow: class I: Non-contiguous CA separation class ≤ 100MHz class II: 100MHz < Non-contiguous CA separation class ≤ 200MHz class III: 200MHz < Non-contiguous CA separation class <600MHz 				
<i>jointSearchSpaceSwitchAcrossCells-r16</i> Indicates whether the UE supports being configured with a group of cells and switching search space set group jointly over these cells. If the UE supports this feature, the UE needs to report <i>searchSpaceSwitchWithDCI-r16</i> or <i>searchSpaceSwitchWithoutDCI-r16</i> .	BC	No	N/A	N/A
maxUplinkDutyCycle-interBandCA-PC2-r17 Indicates the maximum average percentage of symbols during a certain evaluation 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 in TS 38101-1[2] and the capability applies to the CA combinations listed in table 6.2A.1.3-1 in TS 38101-1[2]. If the field is absent, UE shall work on power	BC	No	N/A	FR1 only
class 2 regardless of UL duty cycle and may use P-MPR _c as defined in 6.2.4 in TS 38101-1[2] if necessary. Value n50 corresponds to 50%, value n60 corresponds to 60% and so on. NOTE: Specific targeted UL duty cycle percentage is not assumed if the field is				
absent.				

maxUplinkDutyCycle-SULcombination-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 6.2C.1 in TS 38101-1[2] and the capability applies to all the SUL configurations with 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 _c as defined in $6.2.4$ in TS $38101-1[2]$ if necessary.				
Value n50 corresponds to 50%, value n60 corresponds to 60% and so on.				
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
Indicates the UE support of up to 3 different numerologies in the same PUCCH				
group where UE is not configured with two NR PUCCH groups by indicating one or				
multiple NR carrier types {FR1 licensed TDD (<i>fr1-NonSharedTDD-r16</i>), FR1				
unlicensed TDD (<i>fr1-SharedTDD-r16</i>), FR1 licensed FDD (<i>fr1-NonSharedFDD-r16</i>),				
FR2(<i>fr2-r16</i>)} that can transmit the PUCCH for NR part of (NG)EN-DC, NE-DC and				
NR-CA.				
NOTE: When the 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.				
maxUpTo4Diff-NumerologiesConfigSinglePUCCH-grp-r16	BC	No	N/A	N/A
Indicates the UE support of up to 4 different numerologies in the same PUCCH	20			
group where UE is not configured with two NR PUCCH groups by indicating one or				
multiple the NR carrier types (FR1 licensed TDD (fr1-NonSharedTDD-r16), FR1				
unlicensed TDD (fr1-SharedTDD-r16), FR1 licensed FDD (fr1-NonSharedFDD-r16),				
FR2(fr2-r16)} 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				
for PUCCH transmission.			N 1/A	N1/A
msgA-SUL-r16	BC	No	N/A	N/A
Indicates whether the UE supports MSGA transmission in a band combination including SUL. A UE supporting this feature shall also indicate support of				
twoStepRACH-r16.				
parallelTxMsgA-SRS-PUCCH-PUSCH-r16	BC	No	N/A	N/A
Indicates whether the UE supports parallel transmission of MsgA and SRS/	DC			
PUCCH/ PUSCH across CCs in an inter-band CA band combination. A UE				
supporting this feature shall also indicate support of <i>parallelTxPRACH-SRS</i> -				
PUCCH-PUSCH.				
parallelTxSRS-PUCCH-PUSCH	BC	No	N/A	N/A
Indicates whether the UE supports parallel transmission of SRS and PUCCH/				
PUSCH across CCs in an inter-band CA band combination.				
parallelTxPRACH-SRS-PUCCH-PUSCH	BC	No	N/A	N/A
Indicates whether the UE supports parallel transmission of PRACH and				
SRS/PUCCH/PUSCH across CCs in an inter-band CA band combination.				
pdcch-BlindDetectionCA-Mixed-r16	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. pdcch-BlindDetectionCA-Mixed-NonAlignedSpan-r16	BC	No	N/A	N/A
This field indicates mixed operation of two variants of the number of blind detections	DU		IN/A	IN/A
in case of CA when the UE supports aligned span and non-aligned span. In the				
case of non-aligned span, when the configured number of CCs with Rel-16 PDCCH				
monitoring is larger than the UE reported value, PDCCH monitoring occasion(s)				
should be configured only on same symbol(s) every slot. UE indicating support of				
this feature shall also indicate support of <i>pdcch-MonitoringMixed-r16</i> . The minimum				
of the summation of capability on the number of CCs with Rel-15 PDCCH				
monitoring capability and the capability on the number of CCs with Rel-16 PDCCH				
monitoring capability is 3.				
		1		

<i>pdcch-BlindDetectionMCG-UE-r16, pdcch-BlindDetectionSCG-UE-r16</i> This field indicates the number of blind detections supported for MCG and SCG, respectively.	BC	No	N/A	N/A
If a UE supports <i>pdcch-MonitoringCA-r16</i> or <i>pdcch-MonitoringCA-NonAlighedSpan-</i> <i>r16</i> , then the capability defined by <i>pdcch-MonitoringCA-r16</i> or <i>pdcch-MonitoringCA-</i> <i>NonAlighedSpan-r16</i> is applied to the feature.				
pdcch-BlindDetectionMCG-UE-Mixed-r16, pdcch-BlindDetectionSCG-UE-	BC	No	N/A	N/A
Mixed-r16				
This field indicates mixed operation of two variants of the number of blind detections supported for MCG and SCG, respectively.				
If a UE supports pdcch-BlindDetectionCA-Mixed-r16 or pdcch-BlindDetectionCA-				
<i>Mixed-NonAlignedSpan-r16</i> , then the capability defined by <i>pdcch-BlindDetectionCA-Mixed-r16</i> or <i>pdcch-BlindDetectionCA-Mixed-NonAlignedSpan-</i>				
r16 is applied to the feature.				
pdcch-MonitoringCA-r16	BC	No	N/A	N/A
Indicates the number of CCs for monitoring a maximum number of blind detections and non-overlapped CCEs per span when configured with DL CA with Rel-16				
PDCCH monitoring capability on all the serving cells. This field also indicates				
supported span arrangement for CA. A UE that supports this feature shall also support <i>pdcch-Monitoring-r16</i> . UE indicating support of this feature shall also				
indicate support of pdcch-Monitoring-r16.				
pdcch-MonitoringCA-NonAlignedSpan-r16	BC	No	N/A	N/A
Indicates the number of CCs for monitoring a maximum number of blind detections				
and non-overlapped CCEs per span when configured with DL CA with Rel-16				
PDCCH monitoring capability on all the serving cells in the case UE supports				
aligned span and non-aligned span. In the case of non-aligned span, when the configured number of CCs with Rel-16 PDCCH monitoring is larger than the UE				
reported value and PDCCH monitoring occasion(s) should be configured only on				
same symbol(s) every slot. UE indicating support of this feature shall also indicate				
support of pdcch-Monitoring-r16.				
scellDormancyWithinActiveTime-r16	BC	No	N/A	N/A
Indicates whether the UE supports SCell dormancy indication received on SPCell with DCI format 0_1/1_1 sent within the active time as defined in clause 10.3 of TS				
38.213 [11]. If the UE indicates the support of this, the UE supports one dormant				
BWP and at least one non-dormant BWP per carrier. To support more than one				
non-dormant BWP in a carrier, the UE indicates support of upto4 in bwp-				
SameNumerology or upto4 in bwp-DiffNumerology. One dormant BWP and one				
non-dormant BWP are UE specific BWPs even for UEs not supporting <i>bwp</i> -				
SameNumerology. scellDormancyOutsideActiveTime-r16	BC	No	N/A	N/A
Indicates whether the UE supports SCell dormancy indication received on SPCell				
using DCI format 2_6 sent outside the active time as defined in clause 10.3 of TS				
38.213 [11]. A UE supporting this feature shall also indicate support of power saving				
DRX adaptation using <i>drx-Adaptation-r16</i> and shall also support one dormant BWP				
and at least one non-dormant BWP per carrier. To support more than one non-				
dormant BWP in a carrier, the UE indicates support of <i>upto4</i> in <i>bwp</i> - <i>SameNumerology</i> or <i>upto4</i> in <i>bwp-DiffNumerology</i> . One dormant BWP and one				
non-dormant BWP are UE specific BWPs even for UEs not supporting <i>bwp</i> -				
SameNumerology.				
simultaneousCSI-ReportsAllCC	BC	Yes	N/A	N/A
Indicates whether the UE supports CSI report framework and the number of CSI				
report(s) which the UE can simultaneously process across all CCs, and across				
MCG and SCG in case of NR-DC. The CSI report comprises periodic, semi- persistent and aperiodic CSI and any latency classes and codebook types. The CSI				
report in <i>simultaneousCSI-ReportsAllCC</i> includes the beam report and CSI report.				
This parameter may further limit simultaneousCSI-ReportsPerCC in MIMO-				
ParametersPerBand and Phy-ParametersFRX-Diff for each band in a given band				
combination.		1		

<i>simul-SRS-Trans-BC-r16</i> Indicates the number of SRS resources for positioning on a symbol for a given band	BC	No	N/A	N/A
combination. The UE can include this field only if the UE supports srs- PosResources-r16. Otherwise, the UE does not include this field;				
NOTE 1: For single-band band combinations, it defines the capability for intra- band CA, and for band combinations with at least two bands, it defines the capability for inter-band carrier aggregation.				
NOTE 2: if the UE does not indicate this capability for a band combination, the UE does not support the feature in this band combination.				
simul-SRS-MIMO-Trans-BC-r16	BC	No	N/A	N/A
Indicates the number of SRS resources for positioning and SRS resource for MIMO on a symbol for a given BC. The UE can include this field only if the UE supports srs-PosResources-r16. Otherwise, the UE does not include this field.				
NOTE 1: If UE reports 2 for the candidate value, it means both the number of SRS				
resource for positioning and SRS resource for MIMO equals to 1. NOTE 2: For single-band band combinations, it defines the capability for intra- band carrier aggregation, and for band combinations with at least two				
bands, it defines the capability for inter-band carrier aggregation. NOTE 3: if the UE does not indicate this capability for a band combination, the UE does not support the feature in this band combination.				
simulTX-SRS-AntSwitchingInterBandUL-CA-r16	BC	No	N/A	N/A
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: - 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=""> <i>supportSRS-xTyR-xEqualToY-r16</i> 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 LL CA. </y)>				
 CCs in overlapped symbol(s) for inter-band UL CA. supportSRS-AntennaSwitching-r16 Indicates whether the UE support simultaneous transmission of SRS for antenna switching on different CCs in overlapped symbol(s) for inter-band UL CA. 				
NOTE: For simultaneously antenna switching and antenna switching SRS in inter-band CAs with bands whose UL are switched together according to the reported <i>supportSRS-AntennaSwitching-r16</i> , the UE expects the same configuration of xTyR across the different CCs and the SRS resources overlapped in time domain from UE perspective are from the same UE antenna ports.				
simultaneousRxTxInterBandCA	BC	CY	N/A	N/A
Indicates whether the UE supports simultaneous transmission and reception in TDD-TDD and TDD-FDD inter-band NR CA. If this field is included in <i>ca-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]. simultaneousRxTxInterBandCAPerBandPair	BC	No	N/A	N/A
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 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 band pairs in the band combination (in which case <i>simultaneousRxTxInterBandCA</i> is included) or does not support for any band pair in				
the band combination. The UE shall consistently set the bits which correspond to the same band pair.				

<i>simultaneousRxTxSUL</i> Indicates whether the UE supports simultaneous reception and transmission for a	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].	D O	NI-		
simultaneousRxTxSULPerBandPair	BC	No	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.				
Encoded in the same manner as <i>simultaneousRxTxInterBandCAPerBandPair</i> .				
The UE does not include this field if the UE supports simultaneous transmission and				
reception for all band pairs in the band combination (in which case				
simultaneousRxTxSUL is included) or does not support for any band pair in the				
band combination. The UE shall consistently set the bits which correspond to the				
same band pair.				
simultaneousSRS-AssocCSI-RS-AllCC	BC	No	N/A	N/A
Indicates support of CSI-RS processing framework for SRS and the number of SRS			1.07.1	
resources that the UE can process simultaneously across all CCs, and across MCG				
and SCG in case of NR-DC, including periodic, aperiodic and semi-persistent SRS.				
This parameter may further limit <i>simultaneousSRS-AssocCSI-RS-PerCC</i> in <i>MIMO-</i>				
ParametersPerBand and Phy-ParametersFRX-Diff for each band in a given band				
combination.				
supportedCSI-RS-ResourceListAlt-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. The following parameters are				
included in <i>codebookVariantsList</i> for each code book type:				
- maxNumberTxPortsPerResource indicates the maximum number of Tx ports				
in a resource across all bands within a band combination;				
- maxNumberResourcesPerBand indicates the maximum number of resources				
across all CCs within a band combination, simultaneously;				
- totalNumberTxPortsPerBand indicates the total number of Tx ports across all				
CCs within a band combination, simultaneously.				
For each band in a band combination, supported values for these three parameters				
are determined in conjunction with supportedCSI-RS-ResourceListAlt reported in				
MIMO-ParametersPerBand.				
supportedNumberTAG	BC	CY	N/A	N/A
Defines the number of timing advance groups supported by the UE. It is applied to				
NR CA, NR-DC, (NG)EN-DC/NE-DC and DAPS handover. For (NG)EN-DC/NE-DC,				
it indicates number of TAGs only for NR CG. The number of TAGs for the LTE MCG				
is signalled by existing LTE TAG capability signalling. For NR CA/NR-DC band				
combination, if the band combination comprised of more than one band entry (i.e.,				
inter-band or intra-band non-contiguous band combination), it indicates that different				
timing advances on different band entries are supported. If absent, the UE supports				
only one TAG for the NR part. It is mandatory for the UE to support more than one				
TAG for NR-DC 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.				

 <i>twoPUCCH-Grp-ConfigurationsList-r16</i> Indicates one or multiple of supported configuration(s) of {primary PUCCH group config, secondary PUCCH group config} for the band combination where for each of the supported configuration the carrier type(s) (FR1-NonSharedTDD, FR1-SharedTDD, FR1-NonSharedFDD, FR2) that can be mapped to a PUCCH group and also the carrier types that can be configured with PUCCH transmission for primary PUCCH group and secondary PUCCH group for NR-CA band combination with 3 or more bands. The capability signalling of each primary or secondary PUCCH group configuration comprises of the following parameters: <i>pucch-GroupMapping-r16</i> indicates the PUCCH group(s) that a carrier type can be mapped to. <i>pucch-TX-r16</i> indicates the PUCCH group(s) that a carrier type can be configured for PUCCH transmission 	BC	No	N/A	N/A
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 transmission 				
location, the SUL in the same cell as in the NUL can also be configured for PUCCH transmission.				
NOTE 4: When the carrier type of NUL is indicated for one PUCCH group config, the SUL in the same cell as in the NUL can also be configured for the				
PUCCH group.				
NOTE 5: If UE indicating this field does not support <i>diffNumerologyAcrossPUCCH-Group-CarrierTypes-r16</i> , the UE can only be configured with the same SCS across NR PUCCH groups.				
uplinkTxDC-TwoCarrierReport-r16	BC	No	N/A	N/A
Indicates whether the UE supports the uplink Tx Direct Current subcarrier				
location(s) reporting when configured with uplink CA with two carriers. It is applicable only for (NG)EN-DC/NE-DC and NR CA where the NR has intra-				
band uplink CA with two uplink carriers.				

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4.2.7.5 *FeatureSetDownlink* parameters

Definitions for parameters	Per	М	FDD- TDD DIFF	FR1- FR2 DIFF
additionalDMRS-DL-Alt Indicates whether the UE supports the alternative additional DMRS position for co- existence with LTE CRS. It is applied to 15kHz SCS and one additional DMRS case only.	FS	No	N/A	FR1 only
<i>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
crossCarrierSchedulingProcessing-DiffSCS-r16 Indicates the UE cross carrier scheduling processing capability for DL carrier aggregation processing up to X unicast DCI scheduling for DL per scheduled CC. X is based on pair of (scheduling CC SCS, scheduled CC SCS) where a pair of (15,120), (15,60), (30,120) kHz SCS can have X = {1,2,4} while a pair of (15,30), (30,60), (60,120) kHz SCS can have X = {2}, and X applies per slot of scheduling CC.	FS	No	N/A	N/A
<i>csi-RS-MeasSCellWithoutSSB</i> Defines whether the UE can perform CSI-RSRP and CSI-RSRQ measurement as specified in TS 38.215 [13], where CSI-RS resource is configured for a cell that does not transmit SS/PBCH block. A UE that supports this feature shall also support scellWithoutSSB.	FS	No	N/A	N/A
<i>dl-MCS-TableAlt-DynamicIndication</i> Indicates whether the UE supports dynamic indication of MCS table for PDSCH.	FS	No	N/A	N/A
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. A UE supporting this feature shall also support <i>intraBandFreqSeparationDL</i> .	FS	No	N/A	FR2 only

intraFreqDAPS-r16	FS	No	N/A	N/A
ndicates whether UE supports intra-frequency DAPS handover, e.g. support of				
simultaneous DL reception of PDCCH and PDSCH from source and target cell. A				
JE indicating this capability shall also support intra-frequency synchronous DAPS				
handover, single UL transmission and cancelling UL transmission to the source cell				
or intra-frequency DAPS handover. The capability signalling comprises of the				
ollowing parameters:				
 intraFreqAsyncDAPS-r16 indicates whether the UE supports asynchronous 				
DAPS handover.				
- intraFreqDiffSCS-DAPS-r16 indicates whether the UE supports different				
SCSs in source PCell and intra-frequency target PCell in DAPS handover.				
The UE only includes this field if different SCSs can be supported in both UL				
and DL. If absent, the UE does not support either UL or DL SCS being				
different in DAPS handover.				
oneFL-DMRS-ThreeAdditionalDMRS-DL	FS	No	N/A	N/A
Defines whether the UE supports DM-RS pattern for DL transmission with 1 symbol				
ront-loaded DM-RS with three additional DM-RS symbols.				
oneFL-DMRS-TwoAdditionalDMRS-DL	FS	Yes	N/A	N//
Defines support of DM-RS pattern for DL transmission with 1 symbol front-loaded				
M-RS with 2 additional DM-RS symbols and more than 1 antenna ports.				
dcch-Monitoring-r16	FS	No	N/A	N//
indicates whether the UE supports PDCCH search space monitoring occasions in				,
ny symbol of the slot with minimum time separation between two consecutive				
ransmissions of PDCCH with span up to two OFDM symbols for two OFDM				
ymbols 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				
rocessing type 2, respectively. For each sub-carrier spacing, the leading / leftmost				
it (bit 0) corresponds to the supported value set (X,Y) of (7,3). The next bit (bit 1)				
orresponds to the supported value set (X,Y) of $(4,3)$. The rightmost bit (bit 2)				
orresponds to the supported value set (X,Y) of (2,2).	50		N1/A	N 1/
odcch-MonitoringAnyOccasions	FS	No	N/A	N//
Defines the supported PDCCH search space monitoring occasions. withoutDCI-gap				
ndicates whether the UE supports PDCCH search space monitoring occasions in				
any symbol of the slot for Type 1-PDCCH common search space configured by				
dedicated RRC signaling, for a Type 3-PDCCH common search space, or for a UE-				
specific search space with the capability of supporting at least 44, 36, 22, and 20				
plind decodes in a slot for 15 kHz, 30 kHz, 60kHz, and 120 kHz subcarrier spacing				
values respectively. with DCI-gap indicates whether the UE supports PDCCH search				
space monitoring occasions in any symbol of the slot with minimum time separation				
of two OFDM symbols for 15 kHz, four OFDM symbols for 30 kHz, seven OFDM				
symbols for 60 kHz with NCP, and 14OFDM symbols for 120kHz between two				
consecutive transmissions of PDCCH scrambled with C-RNTI, MCS-C-RNTI, or CS-				
RNTI for Type 1-PDCCH common search space configured by dedicated RRC				
ignaling, for a Type 3-PDCCH common search space, or for a UE-specific search				
pace, with the capability of supporting at least 44, 36, 22, and 20 blind decodes in				
a slot for 15 kHz, 30 kHz, 60kHz, and 120 kHz subcarrier spacing values				
espectively.				
dcch-MonitoringAnyOccasionsWithSpanGap	FS	No	N/A	N//
ndicates whether the UE supports PDCCH search space monitoring occasions in				
ny symbol of the slot with minimum time separation between two consecutive				
ny symbol of the slot with minimum time separation between two consecutive ansmissions of PDCCH with span up to two OFDM symbols for two OFDM				
ny symbol of the slot with minimum time separation between two consecutive ansmissions of PDCCH with span up to two OFDM symbols for two OFDM ymbols or span up to three OFDM symbols for four and seven OFDM symbols.				
ny symbol of the slot with minimum time separation between two consecutive ansmissions of PDCCH with span up to two OFDM symbols for two OFDM ymbols or span up to three OFDM symbols for four and seven OFDM symbols. /alue set1 indicates the supported value set (X,Y) is (7,3), value set2 indicates the				
ny symbol of the slot with minimum time separation between two consecutive cansmissions of PDCCH with span up to two OFDM symbols for two OFDM ymbols 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 upported value set 3 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 (4,3) and (7,3) and value set 3 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 (4,3) and (7,3) and value set 3 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 (4,3) and (7,3) and value set 3 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 (4,3) and (7,3) and value set 3 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 (4,3) and (7,3) and value set 3 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 (4,3) and (
ny symbol of the slot with minimum time separation between two consecutive ransmissions of PDCCH with span up to two OFDM symbols for two OFDM ymbols or span up to three OFDM symbols for four and seven OFDM symbols. Yalue set1 indicates the supported value set (X,Y) is (7,3), value set2 indicates the upported value set (X,Y) is (4,3) and (7,3) and value set 3 indicates the supported alue set (X,Y) is (2,2), (4,3) and (7,3).	FS	No	N/A	NI/-
any symbol of the slot with minimum time separation between two consecutive ransmissions of PDCCH with span up to two OFDM symbols for two OFDM symbols or span up to three OFDM symbols for four and seven OFDM symbols. 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 ralue set (X,Y) is (2,2), (4,3) and (7,3).	FS	No	N/A	N//
iny symbol of the slot with minimum time separation between two consecutive ransmissions of PDCCH with span up to two OFDM symbols for two OFDM ymbols 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 upported value set (X,Y) is (4,3) and (7,3) and value set 3 indicates the supported alue set (X,Y) is (2,2), (4,3) and (7,3).	FS	No	N/A	N//
ndicates whether the UE supports PDCCH search space monitoring occasions in any symbol of the slot with minimum time separation between two consecutive ransmissions of PDCCH with span up to two OFDM symbols for two OFDM symbols or span up to three OFDM symbols for four and seven OFDM symbols. /alue set1 indicates the supported value set (X,Y) is (7,3), value set2 indicates the supported value set (X,Y) is (4,3) and (7,3) and value set 3 indicates the supported ralue set (X,Y) is (2,2), (4,3) and (7,3). Ddcch-MonitoringMixed-r16 Indicates support of Rel-15 monitoring capability and <i>pdcch-Monitoring-r16</i> on lifferent serving cells.				
any symbol of the slot with minimum time separation between two consecutive ransmissions of PDCCH with span up to two OFDM symbols for two OFDM symbols or span up to three OFDM symbols for four and seven OFDM symbols. /alue set1 indicates the supported value set (X,Y) is (7,3), value set2 indicates the supported value set (X,Y) is (4,3) and (7,3) and value set 3 indicates the supported ralue set (X,Y) is (2,2), (4,3) and (7,3). odcch-MonitoringMixed-r16 Indicates support of Rel-15 monitoring capability and <i>pdcch-Monitoring-r16</i> on lifferent serving cells. odsch-ProcessingType1-DifferentTB-PerSlot	FS	No	N/A N/A	N// N//
ny symbol of the slot with minimum time separation between two consecutive ransmissions of PDCCH with span up to two OFDM symbols for two OFDM ymbols or span up to three OFDM symbols for four and seven OFDM symbols. 'alue set1 indicates the supported value set (X,Y) is (7,3), value set2 indicates the upported value set (X,Y) is (4,3) and (7,3) and value set 3 indicates the supported alue set (X,Y) is (2,2), (4,3) and (7,3). adcch-MonitoringMixed-r16 ifferent serving cells. adsch-ProcessingType1-DifferentTB-PerSlot Defines whether the UE capable of processing time capability 1 supports reception				
ny symbol of the slot with minimum time separation between two consecutive ransmissions of PDCCH with span up to two OFDM symbols for two OFDM ymbols or span up to three OFDM symbols for four and seven OFDM symbols. 'alue set1 indicates the supported value set (X,Y) is (7,3), value set2 indicates the upported value set (X,Y) is (4,3) and (7,3) and value set 3 indicates the supported alue set (X,Y) is (2,2), (4,3) and (7,3). Match-MonitoringMixed-r16 ndicates support of Rel-15 monitoring capability and <i>pdcch-Monitoring-r16</i> on ifferent serving cells. Match-ProcessingType1-DifferentTB-PerSlot Defines whether the UE capable of processing time capability 1 supports reception f up to two, four or seven unicast PDSCHs for several transport blocks with				
ny symbol of the slot with minimum time separation between two consecutive ransmissions of PDCCH with span up to two OFDM symbols for two OFDM ymbols or span up to three OFDM symbols for four and seven OFDM symbols. 'alue set1 indicates the supported value set (X,Y) is (7,3), value set2 indicates the upported value set (X,Y) is (4,3) and (7,3) and value set 3 indicates the supported alue set (X,Y) is (2,2), (4,3) and (7,3). Match-MonitoringMixed-r16 ndicates support of Rel-15 monitoring capability and <i>pdcch-Monitoring-r16</i> on ifferent serving cells. Match-ProcessingType1-DifferentTB-PerSlot Defines whether the UE capable of processing time capability 1 supports reception f up to two, four or seven unicast PDSCHs for several transport blocks with PDSCH scrambled using C-RNTI, TC-RNTI, MCS-C-RNTI or CS-RNTI in one				
ny symbol of the slot with minimum time separation between two consecutive ansmissions of PDCCH with span up to two OFDM symbols for two OFDM ymbols or span up to three OFDM symbols for four and seven OFDM symbols. falue set1 indicates the supported value set (X,Y) is (7,3), value set2 indicates the upported value set (X,Y) is (4,3) and (7,3) and value set 3 indicates the supported alue set (X,Y) is (2,2), (4,3) and (7,3). adcch-MonitoringMixed-r16 ndicates support of Rel-15 monitoring capability and <i>pdcch-Monitoring-r16</i> on ifferent serving cells. adsch-ProcessingType1-DifferentTB-PerSlot Defines whether the UE capable of processing time capability 1 supports reception f up to two, four or seven unicast PDSCHs for several transport blocks with				

pdsch-ProcessingType2	FS	No	N/A	FR1
Indicates whether the UE supports PDSCH processing capability 2. The UE				only
supports it only if all serving cells are self-scheduled and if all serving cells in one				
band on which the network configured processingType2 use the same subcarrier				
spacing. This capability signalling comprises the following parameters for each sub-				
carrier spacing supported by the UE. - <i>fallback</i> indicates whether the UE supports PDSCH processing capability 2				
when the number of configured carriers is larger than <i>numberOfCarriers</i> for a				
reported value of <i>differentTB-PerSlot</i> . If <i>fallback</i> = 'sc', UE supports				
capability 2 processing time on lowest cell index among the configured				
carriers in the band where the value is reported, if <i>fallback</i> = 'cap1-only', UE				
supports only capability 1, in the band where the value is reported;				
- differentTB-PerSlot indicates whether the UE supports processing type 2 for				
1, 2, 4 and/or 7 unicast PDSCHs for different transport blocks per slot per				
CC; and if so, it indicates up to which number of CA serving cells the UE				
supports that number of unicast PDSCHs for different TBs. The UE shall				
include at least one of numberOfCarriers for 1, 2, 4 or 7 transport blocks per				
slot in this field if <i>pdsch-ProcessingType2</i> is indicated.				
pdsch-ProcessingType2-Limited	FS	No	N/A	FR1
ndicates whether the UE supports PDSCH processing capability 2 with scheduling				only
imitation for SCS 30kHz. This capability signalling comprises the following				
parameter.				
- differentTB-PerSlot-SCS-30kHz indicates the number of different TBs per				
slot.				
The UE supports this limited processing capability 2 only if:				
1) One carrier is configured in the band, independent of the number of carriers				
configured in the other bands;				
2) The maximum bandwidth of PDSCH is 136 PRBs;				
3) N1 based on Table 5.3-2 of TS 38.214 [12] for SCS 30 kHz.				
pdsch-SeparationWithGap	FS	No	N/A	N/A
Indicates whether the UE supports separation of two unicast PDSCHs with a gap,				
applicable to Sub-carrier spacings of 30 kHz and 60 kHz only. For any two				
consecutive slots n and n+1, if there are more than 1 unicast PDSCH in either slot,				
the minimum time separation between starting time of any two unicast PDSCHs				
within the duration of these slots is 4 OFDM symbols for 30kHz and 7 OFDM				
symbols for 60kHz.	F0	NI-		
scalingFactor	FS	No	N/A	N/A
Indicates the scaling factor to be applied to the band in the max data rate calculation as defined in 4.1.2. Value f0p4 indicates the scaling factor 0.4, f0p75				
indicates 0.75, and so on. If absent, the scaling factor 1 is applied to the band in the				
marcates 0.7.5, and so on. If absent, the scaling factor in supplied to the band in the max data rate calculation.				
scalingFactor-1024QAM-FR1-r17	FS	No	N/A	FR1
ndicates the scaling factor to be applied to the band in the max data rate				only
calculation as defined in 4.1.2 when support of 1024-QAM for PDSCH is signalled				
or 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.				
UE indicating support of this feature shall also indicate support of pdsch-1024QAM-				
FR1-r17 to the band.	FS	CY	N/A	N/A
FR1-r17 to the band. scellWithoutSSB	13	1		
UE indicating support of this feature shall also indicate support of <i>pdsch-1024QAM</i> - <i>FR1-r17</i> to the band. <i>scellWithoutSSB</i> Defines whether the UE supports configuration of SCell that does not transmit SS/DRCU block. This is conditionably mandatany with consolity signalling for intro-				1
<i>FR1-r17</i> to the band. scellWithoutSSB Defines whether the UE supports configuration of SCell that does not transmit SS/PBCH block. This is conditionally mandatory with capability signalling for intra-				
FR1-r17 to the band. scellWithoutSSB Defines whether the UE supports configuration of SCell that does not transmit SS/PBCH block. This is conditionally mandatory with capability signalling for intra- band CA but not supported for inter-band CA.		No	NI/A	NI/A
<i>FR1-r17</i> to the band. scellWithoutSSB Defines whether the UE supports configuration of SCell that does not transmit SS/PBCH block. This is conditionally mandatory with capability signalling for intra- band CA but not supported for inter-band CA. searchSpaceSharingCA-DL	FS	No	N/A	N/A
<i>ER1-r17</i> to the band. <i>ScellWithoutSSB</i> 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. <i>SearchSpaceSharingCA-DL</i> Defines whether the UE supports DL PDCCH search space sharing for carrier		No	N/A	N/A
<i>ER1-r17</i> to the band. <i>scellWithoutSSB</i> 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. <i>searchSpaceSharingCA-DL</i>		No	N/A N/A	N/A

supportedSRS-Resources Defines support of SRS resources for SRS carrier switching for a band without	FS	FD	N/A	N/A
 associated FeatureSetuplink. The capability signalling comprising indication of: maxNumberAperiodicSRS-PerBWP indicates supported maximum number of aperiodic SRS resources that can be configured for the UE per each BWP 				
 maxNumberAperiodicSRS-PerBWP-PerSlot indicates supported maximum number of aperiodic SRS resources per slot in the BWP 				
 maxNumberPeriodicSRS-PerBWP indicates supported maximum number of periodic SRS resources per BWP 				
 maxNumberPeriodicSRS-PerBWP-PerSlot indicates supported maximum number of periodic SRS resources per slot in the BWP 				
 maxNumberSemiPersistentSRS-PerBWP indicate supported maximum number of semi-persistent SRS resources that can be configured for the UE per each BWP 				
 maxNumberSemiPersistentSRS-PerBWP-PerSlot indicates supported maximum number of semi-persistent SRS resources per slot in the BWP 				
 maxNumberSRS-Ports-PerResource indicates supported maximum number of SRS antenna port per each SRS resource 				
If the UE indicates the support of srs-CarrierSwitch for this band and this field is absent, the UE supports one periodic, one aperiodic, no semi-persistent SRS resources per BWP per slot and one SRS antenna port per SRS resource.				
timeDurationForQCL	FS	Yes	N/A	FR2
Defines minimum number of OFDM symbols required by the UE to perform PDCCH				only
reception and applying spatial QCL information received in DCI for PDSCH				
processing as described in TS 38.214 [12] clause 5.1.5. The number of OFDM symbols is measured from the end of the last symbol of the PDCCH reception to the				
start of the first symbol of the PDSCH reception. UE shall indicate one value of the				
minimum number of OFDM symbols per each subcarrier spacing of 60kHz and				
120kHz.				
twoFL-DMRS-TwoAdditionalDMRS-DL	FS	No	N/A	N/A
Defines whether the UE supports DM-RS pattern for DL transmission with 2				
symbols front-loaded DM-RS with one additional 2 symbols DM-RS.	=0			
<i>type1-3-CSS</i> Defines whether the UE is able to receive PDCCH in FR2 in a Type1-PDCCH	FS	Yes	N/A	FR2
common search space configured by dedicated RRC signaling, in a Type3-PDCCH				only
common search space or a UE-specific search space if those are associated with a				
CORESET with a duration of 3 symbols.				
ue-SpecificUL-DL-Assignment	FS	No	N/A	N/A
Indicates whether the UE supports dynamic determination of UL and DL link				
direction and slot format based on Layer 1 scheduling DCI and higher layer				
configured parameter TDD-UL-DL-ConfigDedicated as specified in TS 38.213 [11].				

4.2.7.6 *FeatureSetDownlinkPerCC* parameters

Definitions for parameters	Per	М	FDD- TDD DIFF	FR1- FR2 DIFF
broadcast-SCell-r17 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
maxNumberMIMO-LayersPDSCH Defines the maximum number of spatial multiplexing layer(s) supported by the UE for DL reception. For single CC standalone NR, it is mandatory with capability signaling to support at least 4 MIMO layers in the bands where 4Rx is specified as mandatory for the given UE and at least 2 MIMO layers in FR2. If absent, the UE does not support MIMO on this carrier.	FSPC	CY	N/A	N/A
 <i>multiDCI-MultiTRP-r16</i> Indicates whether the UE supports multi-DCI based multi-TRP and support of fully/partially overlapping PDSCHs in time and non-overlapping in frequency. This capability applies only to BWPs where two values of <i>coresetPoolIndex</i> are configured. The capability signalling contains the following: <i>maxNumberCORESET-r16</i> indicates maximum number of CORESETs configured per BWP per cell in addition to CORESET 0. <i>maxNumberCORESETPerPoolIndex-r16</i> indicates maximum number of CORESETs configured per <i>coresetPoolIndex</i> per BWP per cell in addition to CORESET 0. <i>maxNumberCORESETPerPoolIndex-r16</i> indicates maximum number of unicast PDSCHs per <i>coresetPoolIndex</i> per slot. NOTE 1: A UE may assume that its maximum receive timing difference between the DL transmissions from two TRPs is within a Cyclic Prefix. NOTE 2: Processing capability 2 is not supported in any CC if at least one CC is configured with two values of <i>coresetPoolIndex</i>. NOTE 3: If UE reports value N1 for <i>maxNumberCORESET-r16</i>, that means UE supports up to min (N1+1, 5) CORESETs in total (including CORESET#0) if there is no CORESET#0. NOTE 4: If UE reports value N2 for <i>maxNumberCORESETPerPoolIndex-r16</i>, that means UE supports up to min (N2+1, 3) CORESET#0. 	FSPC	No	N/A	N/A

Indicates maximum DL channel bandwidth supported for a given SCS that UE supports within a single CC (and in case of DAPS handower 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 TS28.101-1 Table 5.3.5-1 for each band shall be mandatory with a single CC unless indicated optional. For FR2, the set of mandatory GBW is 50, 100, 200 MHz. When this field is included in a band combination, the UE shall indicate the maximum channel bandwidth for the band according to TS 38.101-1 [2] and TS 38.101-2 [3]. The UE may report a <i>supportedBandwidthDL</i> wider than the <i>channelBWs-DL</i> ; this <i>supportedBandwidthDL</i> may not be included in the Table 5.3.5-1 of TS 38.101- 1[2]/TS 38.101-2[3] for the case that the UE is unable to report the actual supported bandwidth any 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. Damel bandwidth st 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. NOTE: To determine whether the UE supports a channel bandwidth of 90 MHz, the network may ignore this capability and validate instead the <i>channelBW-90mhz</i> , the supportedBandwidthCombinationSet and the <i>supportedBandwidthCombinationSet</i> (for a band supporting asymmetric channel bandwidthCombinationSet (for a band supporting asymmetric channel bandwidthCombinationSet (for a band supporting asymmetric channel bandwidthDL-r17 Indicates the maximum supported for a given SCS that UE supportedBandwidthDL-r12. This parameter is only applicable to the BandwidthCombination Set (for a band supported for adwidths configured for a single CC (ise non-CA case). SupportedBandwidthCombination order signalled in <i>pdsch-256QAM</i> - <i>FR1</i> . Indicates the maximum supported modulation order signalled pr band i.e. <i>pdsch- 256QAM-FR2</i> ;	tes maximum DL channel bandwidth supported for a given SCS that UE travel to a support of the source or target thich is defined in Table 5.3.5-1 in TS 38.101-1 [2] for FR1 and Table 5.3.5-1 38.101-2 [3] for FR2. 31.11 the bandwidths listed in TS38.101-1 Table 5.3.5-1 for each band shall nation with a single Ca unless indicated potical. For FR2, the set of table 5.3.5-1 and table 5.3.5-1	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. The TFR2, the set of mandatory CBW is 50, 100, 200 MHz. When this field is included in a band combination with a single LC centrey. (i.e. on-CA band combination with a single case that the UE is unable to report the actual supported/BandwidthDL wider than the channelBWs-DL; this supported/BandwidthDL 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/BandwidthDL 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/BandwidthDL 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/BandwidthDL may not be included in the Table 5.3.5-1 of TS 38.101-1 [2] and TS 38.101-2 [3] into consideration. NOTE: To determine whether the UE supports a channel bandwidth of 90 MHz, the network may ignore this capability and validate instead the channelBW-90 m/z, the supported/BandwidthCombinationSet the Supported/BandwidthCombinationSet the Supported/BandwidthDL and supported/BandwidthDL and supported/In BandwidthDL and supported/In S3.0.10-1 [2]. Supported/MinBandwidthDL and 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 clause 5.3.6 of TS 38.101-1 [2]. FSPC V N/A N/A Exported/MinBandwidthDL and supported/for downlink in the value for downlink. In a time tabe and that the data rate does not exceed the tendow that a configured for a single CC (and in case of intra-frequency DAPS handover for the source and target cells), which as defined in 1.2.12. [1 for FR1 and Table 5.3.5-1 in TS 38.101-1 [2					
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 [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 [2] for FR1 and Table 5.3.5-1 in TS 38.101-2 [3] for the band entry and a single CC curles included in a band combination, the UE shall indicate the maximum channel bandwidth for the band according to TS 38.101-1 [2] and TS 38.101-2 [3]. The UE may report a supportedBandwidthDL wider than the channelBWs-DL; this supportedBandwidthDL may not be included in the Table 5.3.5-1 of TS 38.101- [12]/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 the supportedBandwidthCombinationSet and the supportedBandwidthCombinationSet thraENDC. For serving cell(s) with other channel bandwidth combinationSet thraENDC, the supportedBandwidthCombinationSet (for a band supporting asymmetric channel bandwidth as defined in clause 5.3.6 of TS 38.101-1[2]). supportedBandwidthDL and supported for a given SCS that UE supportedBandwidthCombinationSet (for a band supporting asymmetric channel bandwidth as defined in clause 5.3.6 of TS 38.101-1[2]). supportedBandwidthDL and Step or the scape SCS that UE supportedBandwidthCombination Set (for the source) of TS 38.101-1[2]. supportedBandwi	the within a single CC (and in case of DAPS handover for the source or target which is defined in Table 5.3.5-1 in TS 38.101-1 [2] for FR1 and Table 5.3.5-1 and Table 5.3.5-1 in TS 38.101-1 [2] hor FR1 and Table 5.3.5-1 for each band shall ndatory with a single CC unless indicated optional. For FR2, the set of story CBW is 50.100, 200 MHz. When this lifed is included in a band nation with a single CC unless indicated optional. For FR2, the set of story CBW is 50.100, 200 MHz. When this lifed is included in a band nation with a single CL and try and a single CC entry (i.e. non-CA band nation), the UE shall indicate the maximum channel bandwidth for the band ling to TS 38.101-1 [2] and TS 38.101-1 [3]. E may report a supportedBandwidthDL wider than the channelBWs-DL; this tredBandwidthDL may not be included in the Table 5.3.5-1 of TS 38.101-1 [3]. For Table 5.3.6-1 of TS 38.101-1 [2] in TS 38.101-1 [3]. To Table 5.3.6-1 of TS 38.101-1 [3]. For Table 5.3.6-1 of TS 38.101-1 [3]. For Table 5.3.6-1 of TS 38.101-1 [3]. For Table 5.3.6-1 of TS 38.101-1 [3]. To consideration. That is arguing that are less than or equal to 20 MHz for fR1 and results in standing that are less than or equal to 20 MHz for TR1. The network waig ignore this capability and validate instead the channelBW-90mtz, the supportedBandwidthCombinationSet nateFNDC. For serving cell(s) with other channel bandwidth supportedBandwidthDubmationSet nateFNDC. For serving cell(s) with other channel bandwidth as defined in clause 5.3.6 of TS 38.101-1 [2]. FSPC Mide SupportedBandwidthDubmationSet in Table 5.3.5-1 in TS 38.101-1 [2] for FR1 and the supportedBandwidthDub and supporting asymmetric channel bandwidth as defined in able 5.3.5-1 in TS 38.101-1 [2] for FR1 able 5.3.5-1 in TS 38	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, the UE shall indicate the maximum channel bandwidth for the band according to TS 38.101-1 [2] and TS 38.101-2 [3]. The UE may report a supportedBandwidthDL wider than the channelBWs-DL; this supportedBandwidthDL may the 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] and TS 38.101-2[3]. Nor each band, RedCap UEs shall indicate its maximum channel bandwidth for S8.101-1 [2] and TS 38.101-2[3] into consideration. NOTE: To determine whether the UE supports a channel bandwidth of 90 MHz, the network may ignore this capability and validate instead the channelBW-90mizion. SupportedBandwidthCombinationSet (the associated and the supportedBandwidthCombinationSet (the B5.8.5.1 TS 38.101-1[2]). supportedBandwidthCombinationSet (the B5.8.5.1 TS 38.101-1[2]) for FR2 Indicates minimum DL channel bandwidth the 175 38.101-1[2] for FR2 indicates minimum Blach and supported for a diver S3.101 the associated for the supportedBandwidthCombination coder to be applied for downlink in the and Table 5.3.5.1 In T3 38.101-2 [3] for FR2. This parameter is only applicable to he Bandwidth accombination Set 5. This field does non restrict the bandwidths in the astale 6.3.5.1 In T3 38.101	supportedBandwidthDL	FSPC	CY	N/A	N/A
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 ITS38.101-1 Table 5.3.5-1 for each band shall be mandatory CWI in a single CC unless indicated optional. For FR2, the set of mandatory CWI is 50, 100, 200 MHz. When this field is included in a band combination, the UE shall indicate the maximum channel bandwidth for the band according to TS 38.101-1 [2] and TS 38.101-2 [3]. The UE may report a supportedBandwidthDL wider than the channelBWs-DL; this supportedBandwidth according to the Table 5.3.5-1 of TS 38.101-2 [3]. The UE may report a supportedBandwidthDL wider than the channelBWs-DL; this supportedBandwidth according to the Table 5.3.5-1 of TS 38.101-2 [3]. For each band, RedCap UEs shall indicate the maximum channel bandwidth, which is the maximum of those channel bandwidth of the R2, taking restrictions in TS 38.101-1 [2] and TS 38.101-2 [3] into consideration. NOTE: To determine whether the UE supports a channel bandwidth of 90 MHz, the network rajionre this capability and validate instead the channelBMS-0DL, the supportedBandwidthCombinationSet (for a band supporting asymmetric channel bandwidth combinationSet (for a band supporting asymmetric achannel bandwidth as defined in clause 5.3.6 of TS 38.101-1 [2] in transiticabandwidthCombinationSet (for a band supporting asymmetric channel bandwidth as defined in Table 5.3.6 of TS 38.101-1 [2] in transiticaband accord in transiticabaset 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 5.3.6 of TS 38.101-1 [2] for FR1 and less for SR1 [1] for FR2. This parameter is only applicable to the Bandwidth Combination Set f. This if eld does not excet the maxdit mark ela	which is defined in Table 5.3.5-1 in TS 38.101-1 [2] for FR1 and Table 5.3.5-1 Sin12-2 [3] for FR2. 81, all the bandwidths listed in TS38.101-1 Table 5.3.5-1 for each band shall ndatory with a single CC centry (i.e. non-CA band nation), the UE shall indicate the maximum channel bandwidth for the band ination. Whe single band entry and a single CC centry (i.e. non-CA band nation), the UE shall indicate the maximum channel bandwidth for the band ing to TS 38.101-12 [3]. E may report a supportedBandwidthDL wider than the channelBWs-DL: this redBandwidthDL may not be included in the Table 5.3.5-1 of TS 38.101-2[3]. For saminum others the less than or equal to 100 MHz for FR2, taking restrictions in TS 38.101-1 [2] in Consideration. TS 38.101-2[3] for the case that the UE supported liduate instead the channelBWs-DL: this redBandwidthDL may not be included in the Table 5.3.5-1 of TS 38.101-12 [3]. For its capability and validate instead the channelBWs-Omz, the supportedBandwidthCombinationSet and the supportedBandwidthCombinationSet intraENDC. For serving cell(s) with other channelBW-Omz, the supportedBandwidthCombinationSetIntraENDC, the supportedBandwidthCombinationSetIntraENDC, the supportedBandwidthDcmbinationSetIntraENDC, the supportedBandwidthDcmbinationSetIntraENDC, the supportedBandwidthDcmbinationSetIntraENDC, the supportedBandwidthDcmbinationSetIntraENDC, the supportedBandwidthDL and supported for a given SCS that UE the within a single C (and in case of intra-frequency DAFS handwer for the and target cells), which is defined in Table 5.3.6 of TS 38.101-1 [2] for FR1 able 5.3.6 of TS 38.101-1 [2] for	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 CBW is 50, 100, 200 MHz. When this field is included in a band combination with a single band entry and a single CC enty (i.e., eno-CA band combination, the UE shall indicate the maximum channel bandwidth for the band according to TS 38.101-1 [2] and TS 38.101-2 [3]. The UE may report a 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 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 the case that the UE is unable to report the actual supported bandwidth and request to 100 MHz for FR1, tahl ess than or equal to 100 MHz for FR1, tahl ess than or equal to 100 MHz for FR1, tahl ess than or equal to 100 MHz for FR1, tahl ess than or equal to 100 MHz for FR1, tahl ess than or equal to 100 MHz for FR1, tahl ess than or equal to 100 MHz for FR1, tahl ess that the tess than or equal to 100 MHz for FR1, tahl ess that the UE supports a channel bandwidth of 90 MHz, the supportedBandwidthCombinationSettintENDC, the supportedBandwidthCombinationSettintENDC, the supportedBandwidthCombinationSet that SupportedBandwidthCombinationSet that SupportedBandwidthDC mbinationSet that SupportedBandwidthDC mbinationSet that SupportedBandwidthDL and supported for a 30 supportedBandwidthDC mbinationSet that SupportedBandwidthDC mbinationSet that SupportedBandwidthDL and supportedBandwidthDL and supportedBandwidthDL may use protedBandwidthDC mbinatino Set that SupportedBandwidthDL and suppo					
 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 with a single band entry and a single CC entry (I.a. non-CA band combination), the UE shall indicate the maximum channel bandwidth for the band according to TS 38.101-1 [2] and TS 38.101-2 [3]. The UE may report a <i>supportedBandwidthDL</i> wider than the <i>channelBWs-DL</i>; this <i>supportedBandwidthDL</i> may not be included in the Table 5.3.5-1 of TS 38.101-1 [2]/TS 38.101-2[3] for the case that the UE is unable to report the actual supported bandwidth according to the Table 5.3.5-1 of TS 38.101-1 [2]/TS 38.101-2[3] for the case that the UE is unable to report the actual supported bandwidth bard necording to the Table 5.3.5-1 of TS 38.101-1 [2] and TS 38.101-2 [3] into consideration. NOTE: To determine whether the UE supports a channel bandwidth of 90 MHz, the network may ignore this capability and validate instead the <i>channelBandwidthCombinationSettIntra</i>ENDC, For serving cell(s) with other channel bandwidth CombinationSet (for a band supportedBandwidthCombinationSet (for a band supportedBandwidthCombinationSet (for a band supportedBandwidthCombinationSet (for a band supported TS and/widthCombinationSet (for a band supported TS and/widthCombinationSet (for a band supported TS and/widthL and supportedMidmandwidthDL +17 [1] for FR1 in TS 38.101-1 [2] for FR2. This parameter is only applicable to the Bandwidth CombinationSet (for a band supported to report the actual to a supportedMidmandwidthDL +17 [1] for FR2. This parameter is only applicable to the Bandwidth Combination Set (TraE) in F3 88.101-1 [2] (S FSPC V) N/A [1] for fR1. This parameter is only applicable to the Bandwidth Combination field does not restrict the bandwidths in the carteri in the maxinum supported modulat	38:101-2 [3] for FR2. 14: all the bandwidths listed in TS38:101-1 Table 5.3.5-1 for each band shall ndatory with a single C2 unless indicated optional. For FR2, the set of story C8W is 05:100.200 MHz. When this indel is included in a band nation with a single C2 unless indicated optional. For FR2, the set of story C8W is 05:100.200 MHz. When this indel is included in a band nation with a single band entry and a single C2 entry (i.e. non-CA band nation with a single band entry and a single C2 entry (i.e. non-CA band nation.) the UE shall indicate the maximum channel bandwidth for the band ting to TS 38.101-1 [2] and TS 38.101-2 [3]. E may report a supportedBandwidthDL wider than the channelBWs-DL; this tradBandwidthDL may not be included in the Table 5.3.5-1 of TS 38.101-1 [3]. For Table 5.3.5-1 of TS 38.101-1 [2] is for the case that the UE is unable to report the actual supported idth according to the Table 5.3.5-1 of TS 38.101-1 [2] is 53.101-2 [3]. Inco consideration. I To determine whether the UE supports a channel bandwidth of 90 MHz, the network may ignore this capability and validate instead the channelBM-90mtz, the supportedBandwidthCombinationSet network validates the channelBWs-DL, the supportedBandwidthCombinationSet network validates the channelBW-90tz, the supportedBandwidthDL and supportedMinBandwidthDL. vsupportedBandwidthDL and supported for a given SCS that UE the maximum DL channel bandwidth supported for a given SCS that UE the with a single C2 (and in case of intra-frequency DAPS handover for the read tat rate calculation order signalled in pasch-2560AM. FSPC N/A N/A N/A Est the maximum Supported modulation order signalled per band is e. pdsch-MMHS is field to a long as UE suproportedMinBandwidth for the bandwidths under single C2	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 DWI s50, 100.200 MH2. When this Field is included in a band combination, the U Eshall indicate the maximum channel bandwidth for the band according to TS 38.101-1 [2] and TS 38.101-2 [3]. The UE may report a supportedBandwidthDL wider than the <i>channelBWs-DL</i> ; this supportedBandwidthDL may to be included in the Table 5.3.5-1 of TS 38.101- 11[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- 12[2] and 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. NOTE: To determine whether the UE supports a channel bandwidth of 90 MHz, the network may ignore this capability and validate instead the channelBW-90mizt. the supporteadBandwidthCombinationSet Intra ENDC. For soring call(g) with other channel bandwidth and the channelBW-50.L, the supportedBandwidthCombinationSet Intra ENDC. The asymportedBandwidthCombinationSet Intra ENDC. Shat UE supportedBandwidthCombinationSet Intra ENDC. The asymportedBandwidthCombinationSet Intra 5.3.5.101 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. This FIB do So. 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. This FIB do So. 5.1 In TS 38.101-1 [2] for FR1 and Table 5.3.5-					
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, the UE shall indicate the maximum channel bandwidth for the band according to TS 38.101-1 [2] and TS 38.101-2 [3]. The UE may report a 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 boxe channel bandwidth 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. NOTE: To determine whether the UE supports a channel bandwidth of 90 MHz, the network way ignore this capability and validate instead the channelBW-90mhz, the supportedBandwidthCombinationSet that ENDC. For serving cell(s) with other channel bandwidth combinationSet (for a band supporting asymmetric channel bandwidthCombinationSet (for a band supporting asymmetric channel bandwidthCombinationSet (for a band supporting asymmetric channel bandwidthDL and supportedMinBandwidthDL. supportedBandwidthDL+17 Indicate site is a subgorted for a given SCS that UE supports within a single CC (i.e. non-CA case). FSPC CY N/A supportedBandwidthDL+13 In Table 5.3.5-1 in TS 38.101-1 [2] for FR1 and less is field does not restric the bandwidths FSPC N/A supportedBandwidthDCombinationSet (for a band supporting asymmetric channel bandwidthDL-ombinationSet (for a band supporting asymmetric channel bandwidth as defined in Table 5.3.5-1 in	81, all the bandwidths listed in TS38.101-1 Table 5.3.5-1 for each band shall ndatory with a single CC unless indicated optional. For FR2, the set of torty CBW is 50, 100, 200 MHz, When this field is included in a band nation, the UE shall indicate the maximum channel bandwidth for the band ing to TS 38.101-1 [2] and TS 38.101-2 [3]. E may report a supportedBandwidthDL wider than the channel/BWs-DL; this redBandwidthDL may not be included in the Table 5.3.5-1 of TS 38.101- 5 38.101-2 [3] for the case that the UE is unable to report the actual supported indth according to the Table 5.3.5-1 of TS 38.101-2 [3]. For nand, RedCap UEs shall indicate its maximum channel bandwidth, which is sumum of those channel bandwidth bas that ear less than or equal to 20 MHz for ned less than or equal to 100 MHz for FR2, taking restrictions in TS 38.101-1 15 TS 38.101-2 [3] into consideration. T T S 38.101-8 [3] into consideration. FR2, taking restrictions in TS 38.101-1 12 (S 38.101-12 [3] into consideration. T S 38.101-8 [3] into consideration. FS 38.101-1 [2] (S 38.101-12 [3] into consideration. T S 38.101-8 [3] into consideration. FS 38.101-1 [2] (S 38.101-12 [3] into consideration. SupportedBandwidthCombinationSet intraENDC, the supportedBandwidthCombinationSet (I for a band supporting asymmetric channel bandwidth as defined in clause 5.3.6 of TS 38.101-1 [2] (S asymmetricbBandwidthCombinationSet (I Gr a band supportedBandwidthDL or the similar as a supportedMidthBandwidthDL TreedMidLationAdvidt and supported for a given SCS that UE ts within a single CC (and in case of intra-frequency DAPS handover for the sand target cells), which is digiter than the value tree in timus andista rate calculation order to be applied for downlink in the in t	For FR1, all the bandwidthe listed in TS38.101-1 Table 5.3.5-1 for each band shall Image: Complexity of the complexity of the complexity of the complexity of the single code on the rest, 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. on-CA band combination), the UE shall indicate the maximum channel bandwidth for the band according to TS 38.101-1 [2] and TS 38.101-2 [3]. The UE may report a 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 acutal supportedBandwidth acording to the Table 5.3.5-1 of TS 38.101-1 [2] and TS 38.101-2 [3] for the case that the UE is unable to report the acutal supportedBandwidth combination the acutal supportedBandwidth of 100 MHz, the maximum channel bandwidth of 90 MHz, the network may ignore this capability and validate instead the channelBandwidthCombinationSetIntraENDC. For serving cell(s) with other channel bandwidthCombinationSetIntraENDC. the supportedBandwidthCombinationSetIntraENDC. the supportedBandwidthCombinationSetIntraENDC. the supportedBandwidthCombinationSetIntraENDC. the supportedBandwidthCombinationSetIntraENDC. the supportedBandwidthCombinationSetIntraENDC. the supportedBandwidthCombinationSetIntraENDC. the supportedBandwidthDC minitarionSetIntraENDC. the supportedBandwidthCombinationSetIntraENDC. To Stat UE Stat					
be mandatory with a single CC unless indicated optional. For FR2, the set of mandatory CBW is 50, 100, 200 MHz. When this field is included in a band combination with a single band entry and a single CC entry (i.e. non-CA band combination), the UE shall indicate the maximum channel bandwidth for the band according to TS 38, 101-1 [2] and TS 38, 101-2 [3]. The UE may report a <i>supportedBandwidthDL</i> wider than the <i>channelBWs-DL</i> ; this <i>supportedBandwidthDL</i> may not be included in the Table 5.3.5-1 of TS 38, 101-2 [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. NOTE: To determine whether the UE supports a channel bandwidth of 90 MHz, the network may ignore this capability and validate instead the <i>channelBW-90mhz</i> , the <i>supportedBandwidthCombinationSet</i> and the <i>supportedBandwidthCombinationSetIntraENDC</i> . For serving cell(s) with other channel bandwidthCombinationSetIntraENDC. For serving cell(s) with other channel bandwidthCombinationSetIntraENDC. For serving cell(s) with other channel bandwidthCombinationSetIntraENDC. the <i>supportedBandwidthCombinationSetIntraENDC</i> . The supportedBandwidthCombinationSetIntraENDC. The asymmetricBandwidthCombinationSetIntraENDC. The asymportedBandwidthCombinationSetIntraENDC. The supportedBandwidthCombinationSetIntraENDC. The supportedBandwidthDL and supportedMinBandwidthDL. SupportedBandwidthCombinationSetIntraENDC . The asymportedBandwidthDL and supported for a given SCS that UE supportedBandwidthDL and supportedMinBandwidthDL. SupportedBandwidthDL and supported for a given SCS that UE supportedBandwidthDL for FR2. This parameter is only applicable to the Bandwidth Combination Set for S3.5-1 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 th	ndatory with a single C2 unless indicated optional. For FR2, the set of stroy C8W is 05, 100, 200 MHz. When this field is included in a band nation with a single band entry and a single C2 entry (i.e. non-CA band nation), the UE shall indicate the maximum channel bandwidth for the band ling to TS 38, 101-1 [2] and TS 38, 101-2 [3]. E may report a <i>supportedBandwidthDL</i> wider than the channel/BWs-DL; this <i>tedBandwidthDL</i> may not be included in the Table 5.3.5-1 of TS 38, 101-1 38, 101-2 [0] for the case that the UE is unable to report the actual supported idth according to the Table 5.3.5-1 of TS 38, 101-1 [2]/TS 38, 101-2 [3] into consideration. To determine whether the UE supports a channel bandwidth which is aximum of those channel bandwidths that are less than or equal to 20 MHz for not less shall indicate its maximum channel bandwidth of 90 MHz, the network may ignore this capability and validate instead the <i>supportedBandwidthCombinationSetIntraENDC</i> . For serving cell(s) with other channel bandwidth the network validates the channel/BWs-DL, the <i>supportedBandwidthCombinationSetIntraENDC</i> , the <i>supportedBandwidthCombinationSetIntraENDC</i> , the <i>supportedBandwidthCombinationSetIntraENDC</i> , the <i>supportedBandwidthCombinationSetIntraENDC</i> , the <i>supportedBandwidthDL</i> and <i>supported</i> for a given SCS that UE the swithm a single CC (and in case 0.1 trart-frequency DAPS handwiths <i>tredMinBandwidthDL</i> in This field does not restrict the bandwiths ured for a single CC (i.e. non-CA case). <i>tredMinCandwidthDL</i> in This field does not restrict the bandwiths the cases, its hall be ensured that the data rate does not rescred the max data <i>lataRate</i>) and max data rate per CC (<i>DataRateCC</i>) according to TS 38.214 FSPC CY N/A N/A N/A N/A <i>is the supported sub-carrier spacing for</i> DL by the UE, as defined in clause for a single CC (<i>i.e.</i> non-CA case). <i>tredMinBandwidthDL</i> to the support simultaneous reception with and tragt cell sub-carrier spacing for DL by the UE, as defined in clause for this. If the indoes sub-carri	be mandatory with a single CC unless indicated optional. For FR2, the set of mandatory CWN is 50, 100, 200 MHz, When this field is included in a band combination, the UE shall indicate the maximum channel bandwidth for the band according to TS 38.101-1 [2] and TS 38.101-2 [3]. The UE may report a supportedBandwidthDL wider than the <i>channelBWs-DL</i> ; 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 each band, RedCap UEs shall indicate its maximum channel bandwidth solid 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 solid the Table 5.3.5-1 of TS 38.101-1 [2] and TS 38.101-1 [2] TS 38.101-2 [3]. For each band, RedCap UEs shall indicate its maximum channel bandwidth solid the maximum of those channel bandwidth solid that are less than or equal to 20 MHz for FR1 and less than or equal to 20 MHz for FR1 and less than or equal to 20 MHz for FR1 and less than or equal to 20 MHz for FR1 and less than or equal to 20 MHz for FR1 and less than or equal to 20 MHz for FR1 and less than or equal to 20 MHz for FR1 and less than or equal to 20 MHz for FR1 and less than or equal to 20 MHz for the network may ignore this capability and validate instead the channelBM-dMidthCombinationSetIntraE/NOC. For serving cell(s) with other channel bandwidth combinationSetIntraE/NOC. The asymptortedBandwidthCombinationSetIntraE/NOC. The asymptortedBandwidthCombinationSetIntraE/NOC. The asymptortedBandwidthCombinationSetIntraE/NOC. The asymptotedBandwidthCombinationSetIntraE/NOC. The asymptotic shall be adjust as defined in table 5.3.5-1 in TS 38.101-1 [2] for FR1 and Table 5.3.5-1 in TS 38.101-1 [2] for FR1 and Table 5.3.5-1 in TS 38.101-1 [2] for FR1 and Table 5.3.5-1 in TS 38.101-1 [2] for FR1 and Table 5.3.5-1 in TS 38.101-1 [2] for FR1 and Table 5.3.5-1 in TS 38.101-1 [2] for FR1 and Table 5.3.5-1 in TS 38.101-1 [2] for FR1 and Table 5.3.5-1 in TS 38.101-1 [2] for FR1 and Table 5.3.5-1 in TS 38.101-1 [2]					
Imandatory CBW is 50, 100, 200 MHz. When this field is included in a band combination, the UE shall indicate the maximum channel bandwidth for the band according to TS 38.101-1 [2] and TS 38.101-2 [3]. The UE may report a <i>supportedBandwidthDL</i> wider than the <i>channelBWs-DL</i> ; this 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. NOTE: To determine whether the UE supports a channel bandwidth of 90 MHz, the network may ignore this capability and validate instead the channelBW-00mbra; the supportedBandwidthCombinationSet and the supportedBandwidthCombinationSetIntraENDC. For serving cell(s) with other channel bandwidth supported for a given SCS that UE supportedBandwidthDL-17 Indicates minimum DL channel bandwidth supported for a given SCS that UE supportedBandwidthDL-17 FSPC CY N/A Indicates the maximum supported modulation as efficient in 15 38.101-1 [2] for FR1 and Table 5.3-51 in TS 38.101-2 [3] for FR2. This parameter is only applicable to the Bandwidth Combination as defined in 1.1.2. If included, the network may use a 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 downl	tarty CBW is 50, 100, 200 MHz. When this field is included in a band nation, the UE shall indicate the maximum channel bandwidth for the band ling to TS 38.101-1 [2] and TS 38.101-2 [3]. E may report a <i>supportedBandwidthDL</i> wider than the <i>channelBWs-DL</i> ; this <i>tredBandwidthDL</i> may not be included in the Table 5.3.5-1 of TS 38.101- S 38.101-2[3] for the case that the UE is unable to report the actual supported idth according to the Table 5.3.5-1 of TS 38.101-1[2]/S 38.101-2[3]. For pand, RedCap UEs shall indicate its maximum channel bandwidth, which is sarium of those channel bandwidth for the zeless than or equal to 20 MHz for nd less than or equal to 100 Mhz for FR2, taking restrictions in TS 38.101-1 15T 38.101-2 [3] into consideration. T TS 38.101-2 [3] into consideration. SupportedBandwidthCombinationSet thraEINDC, For serving cell(s) with other channel bandwidth combinationSet (for a band supporting asymmetric channel bandwidthCombinationSet (for a band supporting asymmetric channel bandwidthCombinationSet (for a given SCS that UE the swipportedBandwidthCombinationSet (for a given SCS that UE the swithin a single CC (and in case of intra-frequency DAPS handover for the and target cells), which is defined in Table 5.3.5-1 in TS 38.101-1 [2]), supportedBandwidthDL and supportedMinBandwidthDL stretMinBandwidthOrt . FSPC CY N/A N/A wide a single CC (inte non-CA case). TreteMinBandwidthOrt . FSPC No N/A N/A tes the maximus supported modulation order to be applied for downlink in the in the max data rate calculation as defined in 1.21. If included, the network is a modulation order on this serving cell which is higher than the value de in this field as long as UE supports the modulation of higher value for hit. If not included: FR1, the network uses the modulation order to be applied for downlink in the in the max data rate per CC (DataRateCC) according to TS 38.214 FSPC CY N/A N/A is the supported sub-carrier spacing for DL by the UE, as defined in clause of TS 32.211 [6], indicating the UE supports s	mandatory CBW is 50, 100, 200 MHz. When this field is included in a band combination with a single band entry and a single CC entry (i.e. non-CA band combination), the UE shall indicate the maximum channel bandwidth for the band according to TS 38.101-1 [2] and TS 38.101-2 [3]. The UE may report a supportedBandwidthDL wider than the channelBWS-DL; this supportedBandwidthDL may not be included in the Table 5.3.5-1 of TS 38.101- 12[]/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 38.101-12[3]. For each band, RedCap UEs shall indicate its is unable to report the actual supported bandwidth according to the Table 5.3.5-1 of TS 38.101-12[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 Mbz for FR2, taking restrictions in TS 38.101-1 [2] and TS 38.101-2 [3] into consideration. NOTE: To determine whether the UE supports a channel bandwidth of 90 MHz, the network may ignore this capability and validate instead the supportedBandwidthCombinationSet IntraENDC. For serving cell(s) with other channel bandwidth combinationSet IntraENDC, the supportedBandwidthCombinationSet IntraENDC, the asymmetricBandwidthDL-171 FSPC CY N/A N/A supportedBandwidthDL-171 Indicates the advector 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. This field does not restrict the bandwidths FSPC N/A N/A supportedBandwidthDL-171 Indicates the maximum ch					
combination with a single band entry and a single CC entry (i.e. non-CA band combination), the UE shall indicate the maximum channel bandwidth for the band according to TS 38.101-1 [2] and TS 38.101-2 [3]. The UE may report a 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. NOTE: To determine whether the UE supports a channel bandwidth of 90 MHz, the network may ignore this capability and validate instead the channelBM-90mbz, the supportedBandwidthCombinationSet and the supportedBandwidthCombinationSet (the a band supporting asymmetric channel bandwidth supportedMintBandwidthDL. supportedBandwidthDL and supported for a given SCS that UE supportedBandwidthDL and supported for a given SCS that UE supportedMintBandwidthDL r17 FSPC CY N/A Indicates minimum DL channel bandwidth supported to a given SCS that UE supportedMintBandwidthDL r17 FSPC 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 71.2.1 fincluded, 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:	nation with a single band entry and a single CC entry (i.e. non-CA band nation), the UE shall indicate the maximum channel bandwidth for the band ding to TS 38.101-1 [2] and TS 38.101-2 [3]. E may report a <i>supportedBandwidthDL</i> wider than the <i>channelBWs-DL</i> ; this <i>tredBandwidthDL</i> may not be included in the Table 5.3.5-1 of TS 38.101- 38.101-2 [3] for the case that the UE is unable to report the actual supported didth according to the Table 5.3.5-1 of TS 38.101-1 [2]/TS 38.101-2 [3]. For and, RedCap UES shall indicate its maximum channel bandwidth, which is aximum of those channel bandwidths that are less than or equal to 20 MHz for and, RedCap UES shall indicate its maximum channel bandwidth, which is aximum of those channel bandwidth and validate instead the <i>channelBW-90mhz</i> , the <i>supportedBandwidthCombinationSet</i> and the <i>supportedBandwidthCombinationSetIntraENDC</i> . For serving cell(s) with other channel bandwidth supported <i>BandwidthDL</i> . <i>TredBMnBandwidthCombinationSetIntraENDC</i> , the <i>supportedBandwidthCombinationSetIntraENDC</i> . The serving cell(s) with other channel bandwidth supported for a given SCS that UE the swithm a single CC (and in case of intra-frequency DAPS handover for the and target cells), which is defined in Table 5.3.5-1 in TS 38.101-1 [2] for FR1 able 5.3.5-1 in TS 38.101-1 [2] for FR2. This parameter is only applicable to molwidth Combination Set the shigher than the value ted in this field action as defined in 4.1.2. If included, the network se a modulation order to be applied for downlink in the ation more that rate calculation as defined in 4.1.2. If included, the network se a modulation addition as defined in 4.1.2. If included, the network se a modulation order to signalled in <i>pdsch-256QAM</i> . FR2, the network uses the modulation order signalled for downlink in the ation order 64QAM. he cases, itshall be ensured that the data rate does not excite the bandwidths <i>UFR2</i> If signalled. If not signalled in a given band, the network shall use the ation to ref 40AM. he cases, itshall be ensu	combination, with a single band entry and a single CC entry (i.e. non-CA band combination), the UE shall indicate the maximum channel bandwidth for the band according to TS 38.101-1 [2] and TS 38.101-2 [3]. The UE may report a supportedBandwidthDL wider than the channelBWS-DL; this supportedBandwidthDL and the that is a SA:101-1 [3]. 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. NOTE: To determine whether the UE supports a channel bandwidth of 90 MHz, the network may ignore this capability and validate instead the channelBM-90mhz, the supportedBandwidthCombinationSet that UE supportedBandwidthCombinationSet that ENDC, the asymportedBandwidthDL and supportedMinBandwidthDL. supportedBandwidthDL and supportedMinBandwidthDL. FSPC CY N/A supportedBandwidthDL and supportedMinBandwidthDL FSPC CY N/A supportedMinBandwidthDL and supported for a given SCS that UE supportedMandwidthDL and supported for a given SCS that UE supportedMandwidthDL and supported for a given SCS that UE supportedMandwidthCombination Get to be applied for downlink in the cantier in the max data rate calculation order to be applied for downlink in the					
combination), the UE shall indicate the maximum channel bandwidth for the band according to TS 38.101-1 [2] and TS 38.101-2 [3]. The UE may report a 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 38.101-11 [2] and TS 38.101-2 [3] into consideration. NOTE: To determine whether the UE supports a channel bandwidth of 90 MHz, the network may ignore this capability and validate instead the channelBW-90mhz, the supportedBandwidthCombinationSet and the supportedBandwidthCombinationSet thraENDC, the asympertedBandwidthCombinationSet (for a band supported). The supportedBandwidthDCmbinationSet (for a band Supported). The supportedBandwidthDL and supported/MinBandwidthDL. FSPC CY N/A supportedBandwidthDL than supported for a given SCS that UE supportedBandwidthDL supportedMinBandwidthDL. FSPC CY N/A supportedBandwidthDL this befined 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 order on this serving cell which is higher than the value for downlink. If not included: FSPC	hation), the UE shall indicate the maximum channel bandwidth for the band ling to TS 38.101-1 [2] and TS 38.101-2 [3]. E may report a <i>supportedBandwidthDL</i> wider than the <i>channelBWs-DL</i> ; this <i>tredBandwidthDL</i> may not be included in the Table 5.3.5-1 of TS 38.101- S 38.101-2[3] for the case that the UE is unable to report the actual supported lind according to the Table 5.3.5-1 of TS 38.101-1[2]/S 38.101-2[3]. For pand, RedCap UEs shall indicate its maximum channel bandwidth, which is sumum of those channel bandwidth stare less than or equal to 20 MHz for nd less than or equal to 100 Mhz for FR2, taking restrictions in TS 38.101-1 J TS 38.101-2 [3] into consideration. To determine whether the UE supports a channel bandwidth of 90 MHz, the network may ignore this capability and validate instead the <i>channelBandwidthCombinationSetIntraENDC</i> . For serving cell(s) with other channel bandwidth sthe network validates the <i>channelBWs-DL</i> , the <i>supportedBandwidthCombinationSetIntraENDC</i> , the <i>supportedBandwidthDC mobinationSet</i> (for a band supporting asymmetric channel bandwidth as defined in clause 5.3 & of TS 38.101-1 [2]), <i>supportedBandwidthDL</i> and <i>supported for</i> a given SCS that UE the within a single CC (and in case of intra-frequency DAPS handover for the and target cells), which is defined in Table 5.3.5-1 in TS 38.101-1 [2] for FR2. the maximum supported modulation order to be applied for downlink in the in the max data rate calculation as defined in 4.1.2. If included, the network se a modulation Order DL the max data rate calculation as defined in 4.1.2. If included, the network se a modulation order on this serving cell which is higher than the value for nk. If not included: FR2, the network uses the modulation order to be applied for downlink in the ation order 04DAM. he cases, it shall be ensured that the data rate does not exceed the max data 2ata/Rete) and max data rate per CC (<i>DataReteCC</i>) according to TS 38.214 FSPC CY N/A N/A N/A Sithe supported sub-carrier spacing f	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]. Image: Signal Combination of the second seco	mandatory CBW is 50, 100, 200 MHz. When this field is included in a band				
according to TS 38.101-1 [2] and TS 38.101-2 [3]. 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 38.101-12[3] for the case that the UE is unable to report the actual supported bandwidth according to the case hat the UE is unable to report the actual supported bandwidth public 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. NOTE: To determine whether the UE supports a channel bandwidth of 90 MHz, the network may ignore this capability and validate instead the channelBW-90mhz, the supportedBandwidthCombinationSet and the supportedBandwidthCombinationSet (Iros reving cell(s) with other channel bandwidth combinationSet(Iros as 3.6 of TS 38.101-1 [2]), supportedBandwidthCombinationSet(Iros 3.6 of TS 38.101-1 [2]), supportedBandwidthCombinationSet(Iros 3.6 of TS 38.101-1 [2]), supportedBandwidthDL and supportedIMnBandwidthDL. supportedBandwidthCombinationSet(Iros 3.6 of TS 38.101-1 [2]), supportedBandwidthDL and supportedIMnBandwidthDL. FSPC CY N/A Indicates minimum DL channel bandwidth supported for a given SCS that UE supportedIMndwidth combination Set T. This parameter is only applicable to the Bandwidth Combination Set 5.5-1 in TS 38.101-1 [2] for FR1 and Table 5.3.5-1 in TS 38.101-1 [2] for FR2. This parameter is only applicable to the Bandwidth Combination Set 5.5-1 in TS 38.101-1 [2] for FR1 and Table 5.3.5-1 in TS 38.101-1 [3] for FR2. This parameter is only applicable to the Bandwidth Combination Set 5.5-1 in TS 38.101-1 [2] for FR2 in singale C (i.e. non-CA case). <td< td=""><td>ling to TS 38.101-1 [2] and TS 38.101-2 [3]. E may report a supportedBandwidthDL wider than the channelBWs-DL; this tredBandwidthDL may not be included in the Table 5.3.5-1 of TS 38.101-2 [3]. For sand, RedCap UES shall include the stube to report the actual supported didth according to the Table 5.3.5-1 of TS 38.101-2 [3]. For sand, RedCap UES shall include the stube to report the actual supported for a dual table to report the actual supported for a dual table to report the actual supported for a dual table to report the actual supported for a dual table to report the actual supported for a dual table to report the actual supported for a dual table to report the actual supported for a dual table to report the actual supportedBandwidthCombinationSet for a band supporting asymmetric channel bandwidth with the advisor walldate instead the channelBWs-DL, the supportedBandwidthCombinationSet (for a band supporting asymmetric channel bandwidth as defined in clause 5.3.5-1 in TS 38.101-1 [2]). SupportedBandwidthCombinationSet (for a band supporting asymmetric channel bandwidthCombinationSet (for a band support for the average to the supportedBandwidthDL. rted file single CC (and in case of intra-frequency DAPS handover for the a ond target cells), which is defined in Table 5.3.5-1 in TS 38.101-1 [2] for FR1 table 5.3.5-1 in TS 38.101-2 [3] for FR2. This parameter is only applicable to native for a single CC (and in case). rted for a single CC (and in case of intra-frequency DAPS handover for the and target cells), which is defined in fable 6.3.5-1 in TS 38.101-1 [2] for FR1. rest the maximum supported modulation order to be applied for downlink in the in the max data rate calculation as defined in 1.2. If included, the network shall use the aid on order of the serving cell (in thich is higher than the value for nk. If not included: <</td><td>according to TS 38.101-1 [2] and TS 38.101-2 [3]. The UE may report a <i>supportedBandwidthDL</i> wider than the <i>channelBWs-DL</i>; this supportedBandwidthDL may not be included in the Table 5.3.5-1 of TS 38.101- [12]/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- [12]/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- [12] and TS 38.101-2[3] into consideration. NOTE: To determine whether the UE supports a channel bandwidth, which is the maximum of those channel bandwidth that are less than or equal to 20 MHz for FR1 and less than or equal to 100 Mhz tor FR2, taking restrictions in TS 38.101-1 [2] and TS 38.101-2[3] into consideration. NOTE: To determine whether the UE supports a channel bandwidth of 90 MHz, the network may ignore this capability and validate instead the channelBM-90mhz, the supportedBandwidthCombinationSet that BND.C, For serving cells) with other channel bandwidth combinationSet that ENDC, the supportedBandwidthCombinationSet that ENDC, the asymmetricBandwidthDL-17[] to frag. This parameter is only applicable to the Bandwidth CombinationSet of ra given SCS that UE supportedMinBandwidthDL-12[] for FR1 and 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 on trestrict the bandwidths configured for a single CC (and in case of intra-frequency DAPS handworr for the canfigured for a single CC (and in case of intra-frequency DAPS handworr 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 38.101-1 [2] for FR1 indicates the maximum supported Modulation order to be applied for downlink in the carrier in the maximum supported modulation order to be applied for downlink in the carrier in the maximum supported modulation order to be applied for downlink in the carrier in</td><td></td><td></td><td></td><td></td><td></td></td<>	ling to TS 38.101-1 [2] and TS 38.101-2 [3]. E may report a supportedBandwidthDL wider than the channelBWs-DL; this tredBandwidthDL may not be included in the Table 5.3.5-1 of TS 38.101-2 [3]. For sand, RedCap UES shall include the stube to report the actual supported didth according to the Table 5.3.5-1 of TS 38.101-2 [3]. For sand, RedCap UES shall include the stube to report the actual supported for a dual table to report the actual supported for a dual table to report the actual supported for a dual table to report the actual supported for a dual table to report the actual supported for a dual table to report the actual supported for a dual table to report the actual supported for a dual table to report the actual supportedBandwidthCombinationSet for a band supporting asymmetric channel bandwidth with the advisor walldate instead the channelBWs-DL, the supportedBandwidthCombinationSet (for a band supporting asymmetric channel bandwidth as defined in clause 5.3.5-1 in TS 38.101-1 [2]). SupportedBandwidthCombinationSet (for a band supporting asymmetric channel bandwidthCombinationSet (for a band support for the average to the supportedBandwidthDL. rted file single CC (and in case of intra-frequency DAPS handover for the a ond target cells), which is defined in Table 5.3.5-1 in TS 38.101-1 [2] for FR1 table 5.3.5-1 in TS 38.101-2 [3] for FR2. This parameter is only applicable to native for a single CC (and in case). rted for a single CC (and in case of intra-frequency DAPS handover for the and target cells), which is defined in fable 6.3.5-1 in TS 38.101-1 [2] for FR1. rest the maximum supported modulation order to be applied for downlink in the in the max data rate calculation as defined in 1.2. If included, the network shall use the aid on order of the serving cell (in thich is higher than the value for nk. If not included: <	according to TS 38.101-1 [2] and TS 38.101-2 [3]. The UE may report a <i>supportedBandwidthDL</i> wider than the <i>channelBWs-DL</i> ; this supportedBandwidthDL may not be included in the Table 5.3.5-1 of TS 38.101- [12]/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- [12]/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- [12] and TS 38.101-2[3] into consideration. NOTE: To determine whether the UE supports a channel bandwidth, which is the maximum of those channel bandwidth that are less than or equal to 20 MHz for FR1 and less than or equal to 100 Mhz tor FR2, taking restrictions in TS 38.101-1 [2] and TS 38.101-2[3] into consideration. NOTE: To determine whether the UE supports a channel bandwidth of 90 MHz, the network may ignore this capability and validate instead the channelBM-90mhz, the supportedBandwidthCombinationSet that BND.C, For serving cells) with other channel bandwidth combinationSet that ENDC, the supportedBandwidthCombinationSet that ENDC, the asymmetricBandwidthDL-17[] to frag. This parameter is only applicable to the Bandwidth CombinationSet of ra given SCS that UE supportedMinBandwidthDL-12[] for FR1 and 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 on trestrict the bandwidths configured for a single CC (and in case of intra-frequency DAPS handworr for the canfigured for a single CC (and in case of intra-frequency DAPS handworr 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 38.101-1 [2] for FR1 indicates the maximum supported Modulation order to be applied for downlink in the carrier in the maximum supported modulation order to be applied for downlink in the carrier in the maximum supported modulation order to be applied for downlink in the carrier in					
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 38.101-12/TS 38.101-23/TS 38.101-123/TS 38.101-123/TS 38.101-123/TS 38.101-123/TS 38.101-123/TS 38.101-23/TS 38.211/TS 38.2110/TS 38.21110/TS 38.21110/TS 38.2110/TS 38.2110/TS 38.2110/TS 38.21	E may report a supportedBandwidthDL wider than the <i>channelBWs-DL</i> ; this redBandwidthDL may not be included in the Table 5.3.5-1 of TS 38.101- 538.101-2[3] for the case that the UE is unable to report the actual supported idth according to the Table 5.3.5-1 of TS 38.101-1[2]/TS 38.101-2[3]. For rand, RedCap UEs shall indicate its maximum channel bandwidth, which is surfurm of those channel bandwidths that real less than or equal to 20 MHz for nd less than or equal to 100 Mhz for FR2, taking restrictions in TS 38.101-1 1TS 38.101-2 [3] into consideration. : To determine whether the UE supports a channel bandwidth of 90 MHz, the network may ignore this capability and validate instead the <i>channelBM-90mhz</i> , the <i>supportedBandwidthCombinationSet</i> and the supportedBandwidthCombinationSetIntraENDC. For serving cell(s) with other channel bandwidth as defined in clause 5.3.6 of TS 38.101-1 [2]), supportedBandwidthDL combinationSetIntraENDC, the supportedBandwidthDL and supported for a given SCS that UE the within a single CC (and in case of intra-frequency DAPS handover for the and target cells), which is defined in Table 5.3.5-1 in TS 38.101-1 [2] for FR1. This parameter is only applicable to and target cells), which is defined in Table 5.3.5-1 in TS 38.101-1 [2] for FR2. The adviation OrderDL tes within a single CC (and in case 0 fintra-frequency DAPS handover for the and target cells), which is defined in Table 5.3.5-1 in TS 38.101-1 [2] for FR2. This generation as defined in 4.1.2. If included, the network se a modulation order on this serving cell which is higher than the value for nk. If not included: FR1, the network uses the modulation order to be applied for downlink in the ation order 64QAM. he cases, it shall be ensured that the data rate does not exceed the max data zafa?ate) and max data rate per CC (DataRateCC) according to TS 38.214 FSPC CY N/A N/A site supported sub-carrier spacing for DL by the UE, as defined in clause of different numerologies to CA. Support of simultaneo	The UE may report a <i>supportedBandwidthDL</i> wider than the <i>channelBWs-DL</i> ; this supportedBandwidthDL may not be included in the Table 5.3.5-1 of TS 38.101-1 [12]TT S3 0.101-2[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, ReG2p 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. NOTE: To determine whether the UE supports a channel bandwidth of 90 MHz, the network may ignore this capability and validate instead the <i>channelBW-90mbz</i> ; the <i>supportedBandwidthCombinationSet</i> and the <i>supportedBandwidthCombinationSet</i> . <i>supportedBandwidthCombinationSet</i> . <i>SupportedBandwidthDL</i> -171 Indicates minimum DL channel bandwidth supported for a given SCS that UE supportedBandwidthDL-173 Indicates minimum DL channel bandwidth supported for a given SCS that UE supportedMutation order on the serving cell which is higher than the value for the BandwidthCombination Set f. This field does not restrict the bandwidths configured for a single CC (<i>i.e.</i> non-CA case). <i>supportedMutation order of</i> signalled in <i>pdsch-2560AM- FR1</i> . • for FR2, the network uses the modulation order signalled in <i>pdsch-2560AM- FR1</i> . • for FR2, the network uses the modulation order signalled in <i>pdsch-2560AM- FR1</i> . • <i>supportedSubCarrierSpacingDL</i> Defines the supported sub-carrier spacing for DL by the UE, as defined in clause 4.2-1 of TS 38.211 (B, indicating the UE support simultaneo	combination), the UE shall indicate the maximum channel bandwidth for the band				
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 bandwidth start are less than or equal to 00 MHz for FR1 and less than or equal to 100 Mhz for FR2, taking restrictions in TS 38.101-1 NOTE: To determine whether the UE supports a channel bandwidth of 90 MHz, the network may ignore this capability and validate instead the channelBW-90mhz, the supportedBandwidthCombinationSet and the supportedBandwidthCombinationSet intraENDC. For serving cell(s) with other channel bandwidth the network validates the channelBW-DL, the supportedBandwidthCombinationSet (for a band supporting asymmetric channel bandwidth as defined in clause 5.3.6 of TS 38.101-1 [2]), supportedMandwidthDL-r17 Indicates minimum DL channel bandwidth supported for a given SCS that UE supports at any supported MandwidthDL and supported MinBandwidthDL. FSPC CY N/A Indicates minimum DL channel bandwidth orders on restrict the bandwidths combination Set (in rase 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 38.101-1 [2] for FR2. This parameter is only applicable to the Bandwidth Combination 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 for downlink. If not included: FSPC No N/A FSPC Ni/A FSPC	riedBandwidthDL may not be included in the Table 5.3.5-1 of TS 38.101-2 Sin 101-2(3) S38.101-2(3) for the case that the UE is unable to report the actual supported simum of those channel bandwidts that are less than or equal to 20 MHz for nd less than or equal to 100 Mhz for FR2, taking restrictions in TS 38.101-1 15 TS 38.101-2(3) into consideration. : To determine whether the UE supports a channel bandwidth of 90 MHz, the network may ignore this capability and validate instead the channelBW-90mhz, the supportedBandwidthCombinationSet and the supportedBandwidthCombinationSet.the SupportedBandwidthCombinationSet.the supportedBandwidthCombinationSet.the supportedBandwidthDL and supportedMinBandwidthDL. supportedBandwidthCombinationSet (for a band supporting asymmetric channel bandwidth supportedMinBandwidthDL. retedMinBandwidthDL and supportedMinBandwidthDL. retedMinBandwidthOre to a sign S0.5 that UE the within a single CC (and in case of intra-frequency DAPS handover for the the and target cells), which is defined in Table 5.3.5-1 in TS 38.101-1 [2] for FR1 bale 5.3.5-1 in TS 38.101-2 [3] for FR2. This parameter is only applicable to for a single CC (i.e. non-CA case). retedMindBandwidthOreDED FSPC CY N/A N/A sa modulation order on this serving cell which is higher than the value for no signalled as long as UE supports the modulation of higher value for no. If no risinglaned in a given band, the network shall use the atria todes not exceed the max data rate calculation order signalled in <i>pdsch-256QAM</i> . FSPC CY <td>supportedBandwidthDL may not be included in the Table 5.3.5-1 of TS 38.101-1 [12]/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 UE shall indicate tis 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. NOTE: To determine whether the UE supports a channel bandwidth of 90 MHz, the network may ignore this capability and validate instead the channelBW-90mbz, the supportedBandwidthCombinationSet and the supportedBandwidthCombinationSet thratENDC. For serving cell(s) with other channel bandwidth combinationSet (for a band supporting asymmetric channel bandwidthCombinationSet (for 1 in T38 6.101-1[2]). FSPC CY N/A N/A supportedBindwidthDL-r17 Indicates minimum DL channel bandwidth configured for 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 BandwidthCombination order to be applied for downlink in the carrier in the max data rate calculation as defined in 4.12. If included, the network may use a modulation order on this serving cell which is higher than the value for downlink. If not signalled in</td> <td>according to TS 38.101-1 [2] and TS 38.101-2 [3].</td> <td></td> <td></td> <td></td> <td></td>	supportedBandwidthDL may not be included in the Table 5.3.5-1 of TS 38.101-1 [12]/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 UE shall indicate tis 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. NOTE: To determine whether the UE supports a channel bandwidth of 90 MHz, the network may ignore this capability and validate instead the channelBW-90mbz, the supportedBandwidthCombinationSet and the supportedBandwidthCombinationSet thratENDC. 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For serving cell(s) with other channel bandwidths the network validates the channelBW-DL, the supportedBandwidthCombinationSet (for a band supporting asymmetric channel bandwidth as defined in clause 5.3.6 of TS 38.101-1 [2]), supportedBandwidthDL-r17 Indicates minimum DL channel bandwidth supported for a given SCS that UE supports 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 38.101-1 [2] for FR1 and Table 5.3.5-1 in TS 38.101-1 [2] for FR1 and 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 order to be applied for downlink in the carrier in the max data rate calculation arder 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 for downlink in the carrier in the max data rate calculation 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. 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This parameter is only applicable to for a single CC (i.e. non-CA case). retedMindBandwidthOreDED FSPC CY N/A N/A sa modulation order on this serving cell which is higher than the value for no signalled as long as UE supports the modulation of higher value for no. If no risinglaned in a given band, the network shall use the atria todes not exceed the max data rate calculation order signalled in <i>pdsch-256QAM</i> . FSPC CY <td>supportedBandwidthDL may not be included in the Table 5.3.5-1 of TS 38.101-1 (12/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 tis 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. NOTE: To determine whether the UE supports a channel bandwidth of 90 MHz, the network may ignore this capability and validate instead the channelBW-90mbz, the supportedBandwidthCombinationSet and the supportedBandwidthCombinationSet thraENDC. For serving cell(s) with other channel bandwidth combinationSet (for a band supporting asymmetric channel bandwidthCombinationSet (for 1 in T38 6.101-1 [2]), supportedBindwidthDL-177 FSPC CY N/A N/A source and target cells), which is defined in Table 5.3.5 1 in TS 38.101-1 [2], supportedBindwidthCombinationSet (for a signel SCS that UE supportedBindwidthCombinationSet (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 BandwidthCombination order signalled for downlink in the carrier in the max data rate calculation as defined in 4.12. [fincluded, the network may use a modulation order on this serving cell which is higher than th</td> <td></td> <td></td> <td></td> <td></td> <td></td>	supportedBandwidthDL may not be included in the Table 5.3.5-1 of TS 38.101-1 (12/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 tis 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. NOTE: To determine whether the UE supports a channel bandwidth of 90 MHz, the network may ignore this capability and validate instead the channelBW-90mbz, the supportedBandwidthCombinationSet and the supportedBandwidthCombinationSet thraENDC. For serving cell(s) with other channel bandwidth combinationSet (for a band supporting asymmetric channel bandwidthCombinationSet (for 1 in T38 6.101-1 [2]), supportedBindwidthDL-177 FSPC CY N/A N/A source and target cells), which is defined in Table 5.3.5 1 in TS 38.101-1 [2], supportedBindwidthCombinationSet (for a signel SCS that UE supportedBindwidthCombinationSet (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 BandwidthCombination order signalled for downlink in the carrier in the max data rate calculation as defined in 4.12. [fincluded, the network may use a modulation order on this serving cell which is higher than th					
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 Mbr for FR2, taking restrictions in TS 38.101-1 [2] and TS 38.101-2 [3] into consideration. NOTE: To determine whether the UE supports a channel bandwidth of 90 MHz, the network may ignore this capability and validate instead the channelBW-90mbz, the supportedBandwidthCombinationSet and the supportedBandwidthCombinationSet that supportedBandwidthCombinationSet, the supportedBandwidthCombinationSet, the supportedBandwidthCombinationSet (for a band supporting asymmetric channel bandwidthDL and supported for a given SCS that UE supportedBandwidthCombinationSet (for a band supporter 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 BandwidthComtaion Set sort to be applied for downlink in the carrier in the max data rate calculation order to the sandwidths configured for a single CC (i.e. non-CA case). FSPC Nv/A supportedBandwidthCombin order or be applied for downlink in the carrier in the max data rate calculation order signalled in 4.1.2. If included, the network may use a modulation order on this serving cell which is higher than the value for downlink. If 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 of the saynorted for AGAM. FSPC CY N/A Indicates the maxim	S 38.101-2[3] for the case that the UE is unable to report the actual supported didth according to the Table 5.3.5-t of TS 38.101-12[3]. For band, RedCap UEs shall indicate its maximum channel bandwidth, which is aximum of those channel bandwidths that are less than or equal to 20 MHz for nolless than or equal to 100 Mhz for FRZ, taking restrictions in TS 38.101-1 1TS 38.101-2[3] into consideration. : To determine whether the UE supports a channel bandwidth of 90 MHz, the network may ignore this capability and validate instead the channel BM-90mhz, the supportedBandwidthCombinationSet and the supportedBandwidthCombinationSet. the supportedBandwidthCombinationSet. the supportedBandwidthCombinationSet (for a band supporting asymmetric channel bandwidth supported.thrate.NDC, the asymmetricBandwidthCombinationSet (To a band supporting asymmetric channel bandwidth supported.thrate.NDC, the asymmetricBandwidthDL-17T thes minimum DL channel bandwidth supported for a given SCS that UE ths within a single CC (and in case of intra-frequency DAPS handover for the ra and target cells), which is defined in Table 5.3.5-1 in TS 38.101-12[1] for FR1 able 5.3.5-1 in TS 38.101-2[1] for FR2. This parameter is only applicable to indwidth Combination Set on trestrict the bandwidths ured for a single CC (i.e. non-CA case). TretModulation order on this serving cell which is higher than the value for this field as long as UE supports the modulation of higher value for nk. If not included: FR1, the network uses the modulation order signalled in <i>pdsch-256QAM</i> . FR2, the network uses the modulation order signalled per band i.e. <i>pdsch</i> . <i>MM-FR2</i> if signalled. If not signalled in a given band, the network shall use the ation order 64QAM. he cases, it shall be ensured that the data rate does not exceed the max data <i>DataRate</i>) and max data rate per CC (<i>DataRateCO</i>) according to TS 38.211 FSPC CY N/A N/A is the supported sub-carrier spacing for DL by the UE, as defined in clause for 38.211 [6], indicating the UE supports ismultaneo	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. NOTE: To determine whether the UE supports a channel bandwidth of 90 MHz, the network may ignore this capability and validate instead the channelBW-90mhz, the supportedBandwidthCombinationSet and the supportedBandwidthCombinationSet thraENDC. For serving cell(s) with other channel bandwidths the network validates the channelBWs-DL, the supportedBandwidthCombinationSet thraENDC. For serving cells(s) with a sigle CC (and in case of intra-frequency DAPS handwer for the source and target cells), which is defined in Cause 5.3.6 of TS 38.101-1[2]), supportedBandwidthCombinationSet (for a band supporting asymmetric channel bandwidth 2-r17 FSPC CY N/A N/A SupportedMinBandwidthDL-r17 Indicates minimum DL channel bandwidth Supported for a given SCS that UE supportedBandwidthCombination Set (for 2. This parameter is only applicable to the Bandwidth Combination Set 5. 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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. NOTE: To determine whether the UE supports a channel bandwidth of 90 MHz, the network may ignore this capability and validate instead the channelBW-90mhz, the supportedBandwidthCombinationSet and the supportedBandwidthCombinationSetIntraENDC. For serving cell(s) with other channel bandwidthCombinationSet. the supportedBandwidthCombinationSet (for a band supporting asymmetric channel bandwidthDL and supportedIntraENDC, the asymmetricBandwidthDL and supportedIntraENDC, the supportedBandwidthDL and supportedIntraENDC, the supportedBandwidthDL and supportedIntraENDC, the supportedInt as defined in clause 5.3.6 of TS 38.101-1 [2]), supportedInt as defined in clause 5.3.6 of 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. This field does not restrict the bandwidths configured for a single CC (i.e. non-CA case). FSPC No N/A supportedIndIndIntorOrderDL 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: FSPC No N/A	idth according to the Table 5.3.5-1 of TS 38.101-1[2]/TS 38.101-2[3]. For and, RedCap UEs shall indicate its maximum channel bandwidth, which is aximum of those channel bandwidths that are less than or equal to 20 MHz for nd less than or equal to 100 Mhz for FR2, taking restrictions in TS 38.101-1 ITS 38.101-2 [3] into consideration. : To determine whether the UE supports a channel bandwidth of 90 MHz, the network may ignore this capability and validate instead the channelBW-90mhz, the supportedBandwidthCombinationSetIntraENDC. For serving cell(s) with other channel bandwidth CombinationSetIntraENDC. For serving cell(s) with other channel bandwidth CombinationSetIntraENDC, the supportedBandwidthCombinationSet (for a band supporting asymmetric channel bandwidth supported for a band supporting asymmetric channel bandwidth supported for a given SCS that UE the within a single CC (and in case of intra-frequency DAPS handover for the pantiel CC (and in case of intra-frequency DAPS handover for the pantiaged C (i.e. non-CA case). FSPC CY N/A N/A redelWidtBandiationOrderDL cs and clause 5.3.5 of in TS 38.101-1 [2] for FR1 able 5.3.5-1 in TS 38.101-1 [2] for FR1 able 5.3.5-1 in TS 38.101-2 [3] for TR2. This parameter is only applicable to a single CC (i.e. non-CA case). FSPC N/A N/A rin the max data rate calculation order to be applied for downlink in the first field as long as UE supports signalled in <i>Ashx-256QAM</i> . FSPC N/A N/A FR2, the network uses the modulation order signalled per band i.e. <i>pdsch</i> . FSPC N/A N/	bandwidth according to the Table 5.3.5-1 of TS 38.101-12[JTS 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. NOTE: To determine whether the UE supports a channel bandwidth of 90 MHz, the network may ignore this capability and validate instead the channelBW-90mbz, the supportedBandwidthCcombinationSet and the supportedBandwidthCcombinationSetIntraENDC. For serving cell(s) with other channel bandwidth the network validates the channelBWs-DL, the supportedBandwidthCombinationSet. the asymperiteBandwidthCombinationSet (for a band supporting asymmetric channel bandwidth Buported for a given SCS that UE supportedBandwidthDL-17 FSPC CY N/A N/A Indicates minimum DL channel bandwidth supported for a given SCS that UE supportedBandwidthDL and supportedMinBandwidthDL FSPC CY N/A N/A SupportedBandwidthCombinationSet in the salue 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 as defined in 4.1.2. If included, the network may use a modulation order on this sarrying cell which is higher than the value 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 sarrying 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: <td< td=""><td></td><td></td><td></td><td></td><td></td></td<>					
each band, RedCap UEs shall indicate its maximum channel bandwidth, which is 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. NOTE: To determine whether the UE supports a channel bandwidth of 90 MHz, the network may ignore this capability and validate instead the channelBW-90mbz, the supportedBandwidthCombinationSet and the supportedBandwidthCombinationSet and the supportedBandwidthCombinationSet. For serving cell(s) with other channel bandwidth combinationSet. the asymmetricBandwidthDub and supportedMinBandwidthDL. supportedBandwidthCombinationSet (for a band supporting asymmetric channel bandwidth a defined in clause 5.3.6 of TS 38.101-1 [2]), supportedBandwidthDL and supportedMinBandwidthDL. FSPC CY N/A Indicates minimum DL channel bandwidth supported for a given SCS that UE supportedBandwidthDL solution the 5.3.5-1 in TS 38.101-2 [3] for FR2. This parameter is only applicable to the Bandwidth Combination Set 5. This field does not restrict the bandwidths FSPC 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. It included, the network may use a modulation order or signalled in pdsch-256QAM-FR2 if signalled. If not signalled in a given band, the network shall use 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 spacing for L by the UE, as defined in clause 4.2-1 of TS 38.2011 [2], ininclause the upported SubCarrier SpacingDL <	pand, RedCap UEs shall indicate its maximum channel bandwidth, which is aximum of those channel bandwidths that are less than or equal to 20 MHz for nd less than or equal to 100 Mhz for FR2, taking restrictions in TS 38.101-1 1TS 38.101-2 [3] into consideration. : To determine whether the UE supports a channel bandwidth of 90 MHz, the network may ignore this capability and validate instead the channelBW-90mhz, the supportedBandwidthCombinationSet and the supportedBandwidthCombinationSet the channelBW-9.U, the supportedBandwidthCombinationSet interSNDC, the asymmetricBandwidthCombinationSet interSNDC, the supportedBandwidthCombinationSet interSNDC, the supportedBandwidthDL and supportedMinBandwidthDL. supportedBandwidthDL and supportedMinBandwidthDL. FSPC CY N/A N/A N/A bit 5.3.5.1 in TS 38.101-1 [2] for FR1 able 5.3.5.4.1 in TS 38.101-1 [2] for FR1 able 5.3	 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. NOTE: To determine whether the UE supports a channel bandwidth of 90 MHz, the network may ignore this capability and validate instead the channelBW-90mhz, the supportedBandwidthCombinationSet and the supportedBandwidthCombinationSet the ChannelBW-90mhz, the supportedBandwidthCombinationSet the SupportedBandwidthCombinationSet (for a band supporting asymmetric channel bandwidth as defined in clause 5.3.6 of TS 38.101-1 [2]), supportedBandwidthCombinationSet (for a band supporting asymmetric channel bandwidth as defined in clause 5.3.6 of TS 38.101-1 [2]), supportedBandwidthCombinationSet (for a band supporting asymmetric channel bandwidth as defined in clause 5.3.6 of TS 38.101-1 [2]), supportedBandwidthDL. SupportedBandwidthCombinationSet (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 38.101-1 [2] for FR1 and Table 5.3.5-1 in TS 38.101-1 [2] for FR1 and Table 5.3.5-1 in TS 38.101-1 [2] for FR1 and rable for downlink in the carrier in the maximum supported modulation order to be applied for downlink in the carrier in the maxing cell which is higher than the value for downlink. In the indicates the maximum supported modulation order signalled in pdsch-256QAM-FR1. for FR1, 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 (<i>DatBRate</i>) and max data rate per CC (<i>DataRateCC</i>) according to TS					
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. NOTE: To determine whether the UE supports a channel bandwidth of 90 MHz, the network may ignore this capability and validate instead the channelBW-90mhz, the supportedBandwidthCombinationSet and the supportedBandwidthCombinationSetIntraENDC. For serving cell(s) with other channel bandwidthCombinationSet, the supportedBandwidthCombinationSet (for a band supporting asymmetric channel bandwidthCombinationSet (for a band supportedBandwidthDL-17 supportedIbinBandwidthDL-r17 Indicates minimum DL channel bandwidth supportedMinBandwidthDL. supportedIbinBandwidthDL-r13 FSPC CY N/A Indicates minimum DL channel bandwidth supported for a given SCS that UE supportedIbinBandwidthDL 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 order to be applied for downlink in the carrier in the max data rate calculation order to be applied for downlink in the carrier in the max data rate calculation order signalled in <i>pdsch-256QAM</i> -FR2. FSPC No N/A - for FR2, the network uses the modulation order signalled in <i>pdsch-256QAM</i> -FR2. - for FR2, the network uses the modulation order signalled in <i>pdsch-256QAM</i> -FR2 if signalled. If not signalled in a given band, the network shall use the modulation order 64QAM. FSPC CY N/A - for FR2, the network uses the modulation order signalled per band i.e. <i>pdsch-</i>	aximum of those channel bandwidths that are less than or equal to 20 MHz for nd less than or equal to 100 Mhz for FR2, taking restrictions in TS 38.101-1 1 TS 38.101-2 [3] into consideration. : To determine whether the UE supports a channel bandwidth of 90 MHz, the network may ignore this capability and validate instead the channelBW-90mhz, the supportedBandwidthCombinationSet and the supportedBandwidthCombinationSet.the supportedBandwidthCombinationSet.the supportedBandwidthCombinationSet.the supportedBandwidthCombinationSet.the supportedBandwidthDL and supportedMinBandwidthDL. orredMinBandwidthDL and supportedMinBandwidthDL. orredMinBandwidthDL-171 The minimum DL channel bandwidth supported for a given SCS that UE the within a single CC (and in case of intra-frequency DAPS handover for the a and target cells), which is defined in 15table 5.3.5-1 in TS 38.101-1 [2]), supportedBandwidthDL-171 The sminimum DL channel bandwidth supported for a given SCS that UE the within a single CC (and in case of intra-frequency DAPS handover for the a and target cells), which is defined in 15table 5.3.5-1 in TS 38.101-1 [2] for FR1 able 5.3.5-1 in TS 38.101-2 [3] for FR2. This parameter is only applicable to indwidth Combination Set 5. This field does not restrict the bandwidths ured for a single CC (i.e. non-CA case). orredMindulation Order DL the modulation order to be applied for downlink in the in the max data rate calculation as defined in 4.1.2. If included, the network se a modulation order on this serving cell which is higher than the value ted in this field as long as UE supports the modulation of higher value for nk. If not included: FR1, the network uses the modulation order signalled per band i.e. pdsch- M/FR2 if signalled. If not signalled in a given band, the network shall use the ation order 64QAM. he cases, it shall be ensured that the data rate does not exceed the max data zataRate) and max data rate per CC (DataRateCC) according to TS 38.211 f), indicating the UE supports simultaneous reception with or diff	Ihe 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. NOTE: To determine whether the UE supports a channel bandwidth of 90 MHz, the network may ignore this capability and validate instead the channelBW-90mbz, the supportedBandwidthCombinationSet and the supportedBandwidthCombinationSet in the channelBW-90mbz, the supportedBandwidthCombinationSet in the supportedBandwidthCombinationSet (for a band supportedBandwidthCombinationSet (for a band supportedMinBandwidthDL. supportedBandwidthCombinationSet (for a band supportedMinBandwidthDL. FSPC supportedBandwidthDL-17 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 38.101-1 [2] for FR1 and Table 5.3-5-1 in TS 38.101-1 [2] for FR2. This parameter is only applicable to the Bandwidth combination Set (for a case). FSPC Nv/A N/A supportedMinBandwidthCombination order to be applied for downlink in the carrier in the maximum supported modulation order to be applied for downlink in the carrier in the maximum supported modulation order signalled in a given band, the network may use a modulation order on this serving cell which is higher than the value for downlink. If not included: FSPC No N/A N/A supportedMandWidthDuttor order signalled in a given band, the network shall use the modulation order si					
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. NOTE: To determine whether the UE supports a channel bandwidth of 90 MHz, the network may ignore this capability and validate instead the channelBW-90mhz, the supportedBandwidthCombinationSet and the supportedBandwidthCombinationSet and the supportedBandwidth this the network validates the channelBW-50L, the supportedBandwidthCombinationSet (hree bandset), the supportedBandwidthCombinationSet (hree bandset), the supportedBandwidthCombinationSet (hree bandset), the supportedBandwidthCombinationSet (for a band supporting asymmetric channel bandwidth as defined in clause 5.3.6 of TS 38.101-1 [2]), supportedBandwidthDL and supportedMinBandwidthDL. FSPC CY N/A supportedIlinBandwidth combination Set (for a band supporting asymmetric channel bandwidth supported for a given SCS that UE supportedIlinBandwidthDL. FSPC CY N/A supportedIlinBandwidthCombination Set (for a band supported to the source and target cells), which is defined in Table 5.3.5-1 in TS 38.101-2 [3] for FR2. This parameter is only applicable to the Bandwidth Combination Set 5. This field does not restrict the bandwidths FSPC CY N/A supportedIlinBandwidthOrOrdDL Indicates the maximum supported modulation order to be applied for downlink in the carrier in the max data rate calculation as defined in 1.1.2. 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 order for downlink in the carrier in the max data rate colculation asignalled in given band, the network shall use the modul	nd less than or equal to 100 Mhz for FR2, taking restrictions in TS 38.101-1 1 TS 38.101-2 [3] into consideration. : To determine whether the UE supports a channel bandwidth of 90 MHz, the network may ignore this capability and validate instead the <i>channelBW-90mhz</i> , the <i>supportedBandwidthCombinationSet</i> and the <i>supportedBandwidthCombinationSetIntraENDC</i> . For serving cell(s) with other channel bandwidths the network validates the <i>channelBWs-DL</i> , the <i>supportedBandwidthCombinationSetIntraENDC</i> , the <i>supportedBandwidthCombinationSetIntraENDC</i> , the <i>supportedBandwidthDL</i> and <i>supportedMinBandwidthDL</i> . <i>SupportedBandwidthDL</i> and <i>supportedFor</i> a given SCS that UE thes minimum DL channel bandwidth supported for a given SCS that UE thes minimum DL channel bandwidth supported for a given SCS that UE the within a single CC (a. non-CA case). <i>StredModulationOrderDL</i> tes the maximum supported modulation order to be applied for downlink in the in the max data rate calculation as defined in 4.1.2. If included, the network se a modulation order on this serving cell which is higher than the value ted in this field as long as UE supports signalled in <i>pach-2560AM</i> . FR2, the network uses the modulation order signalled per band i.e. <i>pdsch</i> . <i>MrFR2</i> if signalled. If not signalled in a given band, the network shall use the ation order 64QAM. he cases, it shall be ensured that the data rate does not exceed the max data <i>zataRate</i>) and max data rate per CC (<i>DataRateCC</i>) according to TS 38.211 <i>Singalled</i> . If not Signalled for both contiguous and non-contiguous is atory with capability in both FR1 and FR2. Support of simultane	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. NOTE: To determine whether the UE supports a channel bandwidth of 90 MHz, the network may ignore this capability and validate instead the channelBW-90mhz, the supportedBandwidthCombinationSet reving cell(s) with other channel bandwidth combinationSet (the supportedBandwidthCombinationSet) (the asymmetric channel bandwidthCombinationSet (the asymmetricBandwidthCombinationSet) (for a band supporting BandwidthCombinationSet) (for a band supporting asymmetric channel bandwidthCombinationSet) (for a band supporting asymmetric channel bandwidthCombinationSet) (for a band supporting asymmetric channel bandwidthDL and supportedMinBandwidthDL. FSPC CY N/A N/A supportedMinBandwidthDL and supported for a given SCS that UE supportedMinBandwidthDL. FSPC CY N/A N/A supportedMinBandwidthDL and supported for a given SCS that UE supportedMinBandwidthDL and supportedMinBandwidthSDL. FSPC N/A N/A supportedMinBandwidthCombination rofer 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 for downlink. In the induced: FSPC No N/A N/A reflexet nor FR1, 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 signalled per band i.e. pdsch-256QAM-FR2 if signalled. If not signalled in a given ba					
[2] and TS 38.101-2 [3] into consideration. NOTE: To determine whether the UE supports a channel bandwidth of 90 MHz, the network may ignore this capability and validate instead the channelBW-90mhz, the supportedBandwidthCombinationSet and the supportedBandwidthCombinationSetIntraENDC. For serving cell(s) with other channel bandwidthCombinationSetIntraENDC, the supportedBandwidthCombinationSetIntraENDC, the asymmetricBandwidthCombinationSetIntraENDC, the asymmetricBandwidthCombinationSetIntraENDC, the asymmetricBandwidthDL and supportedMandwidthDL. supportedBandwidthDL and supported for a given SCS that UE supportedBandwidthDL and 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. This field does not restrict the bandwidths comfigured for a single CC (i.e. non-CA case). FSPC No N/A supportedModulationOrderDL Indicates the maximum supported modulation order to be applied for downlink in the carrier in the max data rate calculation as defined in 1.1.2. If included, the network may use a modulation order on this serving cell which is higher than the value for downlink. If not included: FSPC No N/A - for FR2, the network uses the modulation order signalled in pdsch-2560AM-FR7. - for FR2, the network uses the modulation order signalled per band i.e. pdsch-2560AM-FR7. FSPC CY N/A 111212 SupportedSubCarrierSpacingDL FSPC CY <t< td=""><td>ITS 38.101-2 [3] into consideration. : To determine whether the UE supports a channel bandwidth of 90 MHz, the network may ignore this capability and validate instead the channelBW-90mL the supportedBandwidthCombinationSetIntraENDC. For serving cell(s) with other channel bandwidth CombinationSet. the supportedBandwidthCombinationSet, the supportedBandwidthCombinationSet, the supportedBandwidthCombinationSet, the supportedBandwidthCombinationSet, the asymmetric channel bandwidth as defined in clause 5.3.6 of TS 38.101-1 [2]), supportedBandwidthDCmbinationSet (for a band supporting asymmetric channel bandwidth as defined in clause 5.3.6 of TS 38.101-1 [2]), supportedBandwidthDL. FSPC CY N/A N/A redMinBandwidthDL asymmetricBandwidthDL FSPC CY N/A N/A redMinBandwidthDL-177 tes minimum DL channel bandwidth supported for a given SCS that UE FSPC CY N/A N/A red WinBandwidthDL-177 tes minimum Supported modulation order to be applied for downlink in the in the max data rate calculation as defined in 4.1.2. If included, the network se a modulation order on this serving cell which is higher than the value for a single CC (i.e. non-CA case). FSPC No N/A N/A FR1, the network uses the modulation order signalled in <i>pdsch-256QAM</i>. FSPC CY N/A N/A FR2, the network uses the modulation order signalled per band i.e. <i>pdsch</i>. FSPC CY N/A N/A N/A N/A</td><td>[2] and TS 38.101-2 [3] into consideration. NOTE: To determine whether the UE supports a channel bandwidth of 90 MHz, the network may ignore this capability and validate instead the channelBW-oDmbr. the supportedBandwidthCombinationSet and the supportedBandwidthCombinationSet and the supportedBandwidthCombinationSet (CF) For serving cell(s) with orthor channel bandwidth combinationSet (for a band supportedBandwidthCombinationSet and supportedBandwidthCombinationSet (for a band supportedBandwidthCombinationSet (for a band supportedBandwidthCombinationSet (for a band supportedBandwidthCombinationSet (for a band supportedBandwidthChI). FSPC CY N/A N/A SupportedBandwidthCombinationSet (for a band supported for a supportedBandwidthDL+17 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 FSPC CY N/A N/A supportedModUlationOrderDL supportedModUlationOrderDL FSPC No N/A N/A supportedModUlation Order on this serving cell which is higher than the value for downlink in the fact acluation as defined in 4.1.2. If included, the network may use a modulation order on this serving cell which is higher stale (batRafet) and max data rate calculation order signalled in pdsch-2560AM-FR1. FSPC No N/A N/A Indicates the supported Sub-Carrier spacing for DL by the UE, as defined in clause 4.2.1 of TS 38.2111 [6], indicating the UE supports simultaneous reception with same</td><td></td><td></td><td></td><td></td><td></td></t<>	ITS 38.101-2 [3] into consideration. : To determine whether the UE supports a channel bandwidth of 90 MHz, the network may ignore this capability and validate instead the channelBW-90mL the supportedBandwidthCombinationSetIntraENDC. For serving cell(s) with other channel bandwidth CombinationSet. the supportedBandwidthCombinationSet, the supportedBandwidthCombinationSet, the supportedBandwidthCombinationSet, the supportedBandwidthCombinationSet, the asymmetric channel bandwidth as defined in clause 5.3.6 of TS 38.101-1 [2]), supportedBandwidthDCmbinationSet (for a band supporting asymmetric channel bandwidth as defined in clause 5.3.6 of TS 38.101-1 [2]), supportedBandwidthDL. FSPC CY N/A N/A redMinBandwidthDL asymmetricBandwidthDL FSPC CY N/A N/A redMinBandwidthDL-177 tes minimum DL channel bandwidth supported for a given SCS that UE FSPC CY N/A N/A red WinBandwidthDL-177 tes minimum Supported modulation order to be applied for downlink in the in the max data rate calculation as defined in 4.1.2. If included, the network se a modulation order on this serving cell which is higher than the value for a single CC (i.e. non-CA case). FSPC No N/A N/A FR1, the network uses the modulation order signalled in <i>pdsch-256QAM</i> . FSPC CY N/A N/A FR2, the network uses the modulation order signalled per band i.e. <i>pdsch</i> . FSPC CY N/A N/A N/A N/A	[2] and TS 38.101-2 [3] into consideration. NOTE: To determine whether the UE supports a channel bandwidth of 90 MHz, the network may ignore this capability and validate instead the channelBW-oDmbr. the supportedBandwidthCombinationSet and the supportedBandwidthCombinationSet and the supportedBandwidthCombinationSet (CF) For serving cell(s) with orthor channel bandwidth combinationSet (for a band supportedBandwidthCombinationSet and supportedBandwidthCombinationSet (for a band supportedBandwidthCombinationSet (for a band supportedBandwidthCombinationSet (for a band supportedBandwidthCombinationSet (for a band supportedBandwidthChI). FSPC CY N/A N/A SupportedBandwidthCombinationSet (for a band supported for a supportedBandwidthDL+17 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 FSPC CY N/A N/A supportedModUlationOrderDL supportedModUlationOrderDL FSPC No N/A N/A supportedModUlation Order on this serving cell which is higher than the value for downlink in the fact acluation as defined in 4.1.2. If included, the network may use a modulation order on this serving cell which is higher stale (batRafet) and max data rate calculation order signalled in pdsch-2560AM-FR1. FSPC No N/A N/A Indicates the supported Sub-Carrier spacing for DL by the UE, as defined in clause 4.2.1 of TS 38.2111 [6], indicating the UE supports simultaneous reception with same					
NOTE: To determine whether the UE supports a channel bandwidth of 90 MHz, the network may ignore this capability and validate instead the channelBW-90mhz, the supportedBandwidthCombinationSet and the supportedBandwidthCombinationSetIntraENDC. For serving cell(s) with other channel bandwidths the network validates the channelBWs-DL, the supportedBandwidthCombinationSetIntraENDC, the asymmetric BandwidthCombinationSet (for a band supporting asymmetric channel bandwidth sthe network validates the channelBWs-DL, the supportedBandwidthCombinationSet (for a band supporting asymmetric channel bandwidth as defined in clause 5.3.6 of TS 38.101-1 [2]), supportedBandwidthDL and supportedMinBandwidthDL. FSPC CY 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. S1 S1 38.101-2 [3] for FR2. This parameter is only applicable to the Bandwidth Combination Set 5. This field does not restrict the bandwidths configured for a single CC (i.e. non-CA case). FSPC No N/A supportedIModulationOrderDL 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: FSPC No N/A - for FR2, the network uses the modulation order signalled per band i.e. pdsch-256QAM-FR1. For FR2, the network uses the modulation order signall	 To determine whether the UE supports a channel bandwidth of 90 MHz, the network may ignore this capability and validate instead the channelBW-90mhz, the supportedBandwidthCombinationSet and the supportedBandwidthCombinationSetIntraENDC. For serving cell(s) with other channel bandwidths the network validates the channelBW-9DL, the supportedBandwidthCombinationSet (for a band supporting asymmetric channel bandwidth a defined in clause 5.3.6 of TS 38.101-1 [2]), supportedBandwidthDL and supportedMinBandwidthDL. predMinBandwidthDL-r17 tes minimum DL channel bandwidth supported for a given SCS that UE frist within a single CC (and in case of intra-frequency DAPS handover for the and target cells), which is defined in Table 5.3.5-1 in TS 38.101-1 [2] for FR1 able 5.3.5-1 in TS 38.101-1 [2] for FR1 able	NOTE: To determine whether the UE supports a channel bandwidth of 90 MHz, the network may ignore this capability and validate instead the channelBW-90mhz, the supportedBandwidthCombinationSet revening cell(s) with other channel bandwidthCombinationSet, the supportedBandwidthCombinationSet (for a band supporting asymmetric channel bandwidthCombinationSet (for a band supporting asymmetric channel bandwidthDL and supportedMinBandwidthDL. FSPC CY N/A N/A supportedBandwidthCombinationSet (for a band supporting asymmetric channel bandwidthDL and supportedMinBandwidthDL. FSPC CY N/A N/A supportedMinBandwidthDL-r17 Indicates minimum DL channel bandwidth supported for a given SCS that UE supports within a single CC (i.e. non-CA case). FSPC N/A N/A 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 38.101-1 [2] for FR1 and Table 5.3.5-1 in TS 38.101-1 [2] for FR1 and Table 5.3.5-1 in TS 38.101-1 [2] for FR1 and Table 5.3.5-1 in TS 38.101-1 [2] for FR2. FSPC No N/A N/A supportedModulation Order 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 order signalled in pdsch-256QAM-FR2 if signalled. If not signalled in a given band, the network shall use the modulation order for a single CC (<i>i.e.</i> non-CA case). FSPC CY					
the network may ignore this capability and validate instead the channelBW-90mhz, the supportedBandwidthCombinationSet and the supportedBandwidthCombinationSetIntraENDC. For serving cell(s) with other channel bandwidthCombinationSet. the supportedBandwidthCombinationSet intra SetUnter ENDC, the asymmetricBandwidthCombinationSet (for a band supporting asymmetric channel bandwidthLand supportedMinBandwidthDL. FSPC CY N/A supportedBandwidthCombinationSet intra-frequency DAPS handower 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. This field does not restrict the bandwidths configured for a single CC (and in case of intra-frequency DAPS handower 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. This field does not restrict the bandwidths configured for a single CC (i.e. on-CA case). FSPC No N/A supportedModulationOrderDL Indicates the maximum supported modulation order to be applied for downlink in the carrier in the max data rate calculation as defined in 4.1.2. If included, the network may use a modulation order on this serving cell which is higher than the value indicated in this field as long as UE supports the modulation of higher value for downlink. If not included: for FR1, the network uses the modulation order signalled 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) acc	the network may ignore this capability and validate instead the channelBW-90mhz, the supportedBandwidthCombinationSet and the supportedBandwidthCombinationSetIntraENDC. For serving cell(s) with other channel bandwidths the network validates the channelBWs-DL, the supportedBandwidthCombinationSet, the supportedBandwidthCombinationSet(for a band supporting asymmetric channel bandwidth bal edined in clause 5.3.6 of TS 38.101-1 [2]), supportedBandwidthDL and supported/MinBandwidthDL. TredMinBandwidthDL-r17 tes minimum DL channel bandwidth supported for a given SCS that UE rts within a single CC (and in case of intra-frequency DAPS handover for the a and target cells), which is defined in Table 5.3.5-1 in TS 38.101-1 [2] for FR1 able 5.3.5-1 in TS 38.101-2 [3] for FR2. This parameter is only applicable to indwidth Combination Set 5. This field does not restrict the bandwidths ured for a single CC (i.e. non-CA case). TredModulationOrderDL tes the maximum supported modulation order to be applied for downlink in the in the max data rate calculation as defined in 4.1.2. If included, the network se a modulation order on this serving cell which is higher than the value ted in this field as long as UE supports the modulation of higher value for ink. If not included: FR1, the network uses the modulation order signalled per band i.e. <i>pdsch</i> - 4M/-FR2 if signalled. If not signalled in a given band, the network shall use the ation order 64QAM. FR2, the network uses the modulation order signalled per band i.e. <i>pdsch</i> - 4M/-FR2 if signalled. If not signalled in a given band, the network shall use the ation order 64QAM. Free cases, it shall be ensured that the data rate does not exceed the max data bataRate) and max data rate per CC (<i>DataRateCC</i>) according to TS 38.214 TredSubCarrierSpacingDL is the supported sub-carrier spacing for DL by the UE, as defined in clause of TS 38.211 [6], indicating the UE supports simultaneous reception with or different numerologies between FR1 band(s) and FR2 band(s). Optional for other ca	the network may ignore this capability and validate instead the channelBW-90mhz, the supportedBandwidthCombinationSet IntraENDC. For serving cell(s) with other channel bandwidthCombinationSetIntraENDC. For serving cell(s) with other channel bandwidthCombinationSetIntraENDC. For serving cell(s) with asymmetricBandwidthCombinationSetIntraENDC. For serving cell(s) with other channel bandwidthCombinationSetIntraENDC, the supportedBandwidthDL and supportedMinBandwidthDLFSPCN/AN/ASupportedMinBandwidthDLand supportedMinBandwidthDLFSPCCYN/AN/AIndicates minimum DL channel bandwidth supported for a given SCS that UE 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 5.1% 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 configured for a single CC (i.e. non-CA case).FSPCNoN/AN/ASupportedModulationOrderDL indicates the maximum supported modulation order to be applied for downlink in the carrier in the max data rate calculation as defined in 1.1.2. If included, the network may use a modulation order on this serving cell which is higher than the value for downlink. If not included: - for FR2, the network uses the modulation order signalled in <i>pdsch-256OAM-FR2</i> if signalled. If not signalled in a given band, the network shall use the modulation order 64QAM. In all the case, 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 38.2114 [12].FSPCCYN/AN/ASupportedSubCarrierSpacingDL suportedSubCarrierSpacingDLFSPC <td>[2] and TS 38.101-2 [3] into consideration.</td> <td></td> <td></td> <td></td> <td></td>	[2] and TS 38.101-2 [3] into consideration.				
the network may ignore this capability and validate instead the channelBW-90mhz, the supportedBandwidthCombinationSet and the supportedBandwidthCombinationSetIntraENDC. For serving cell(s) with other channel bandwidthCombinationSet. the supportedBandwidthCombinationSet intra SetUnter ENDC, the asymmetricBandwidthCombinationSet (for a band supporting asymmetric channel bandwidthLand supportedMinBandwidthDL. FSPC CY N/A supportedBandwidthCombinationSet intra-frequency DAPS handower 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. This field does not restrict the bandwidths configured for a single CC (and in case of intra-frequency DAPS handower 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. This field does not restrict the bandwidths configured for a single CC (i.e. on-CA case). FSPC No N/A supportedModulationOrderDL Indicates the maximum supported modulation order to be applied for downlink in the carrier in the max data rate calculation as defined in 4.1.2. If included, the network may use a modulation order on this serving cell which is higher than the value indicated in this field as long as UE supports the modulation of higher value for downlink. If not included: for FR1, the network uses the modulation order signalled 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) acc	the network may ignore this capability and validate instead the channelBW-90mhz, the supportedBandwidthCombinationSet and the supportedBandwidthCombinationSetIntraENDC. For serving cell(s) with other channel bandwidths the network validates the channelBWs-DL, the supportedBandwidthCombinationSet, the supportedBandwidthCombinationSet(for a band supporting asymmetric channel bandwidth bal edined in clause 5.3.6 of TS 38.101-1 [2]), supportedBandwidthDL and supported/MinBandwidthDL. TredMinBandwidthDL-r17 tes minimum DL channel bandwidth supported for a given SCS that UE rts within a single CC (and in case of intra-frequency DAPS handover for the a and target cells), which is defined in Table 5.3.5-1 in TS 38.101-1 [2] for FR1 able 5.3.5-1 in TS 38.101-2 [3] for FR2. This parameter is only applicable to indwidth Combination Set 5. This field does not restrict the bandwidths ured for a single CC (i.e. non-CA case). TredModulationOrderDL tes the maximum supported modulation order to be applied for downlink in the in the max data rate calculation as defined in 4.1.2. If included, the network se a modulation order on this serving cell which is higher than the value ted in this field as long as UE supports the modulation of higher value for ink. If not included: FR1, the network uses the modulation order signalled per band i.e. <i>pdsch</i> - 4M/-FR2 if signalled. If not signalled in a given band, the network shall use the ation order 64QAM. FR2, the network uses the modulation order signalled per band i.e. <i>pdsch</i> - 4M/-FR2 if signalled. If not signalled in a given band, the network shall use the ation order 64QAM. Free cases, it shall be ensured that the data rate does not exceed the max data bataRate) and max data rate per CC (<i>DataRateCC</i>) according to TS 38.214 TredSubCarrierSpacingDL is the supported sub-carrier spacing for DL by the UE, as defined in clause of TS 38.211 [6], indicating the UE supports simultaneous reception with or different numerologies between FR1 band(s) and FR2 band(s). Optional for other ca	the network may ignore this capability and validate instead the channelBW-90mhz, the supportedBandwidthCombinationSet IntraENDC. For serving cell(s) with other channel bandwidthCombinationSetIntraENDC. For serving cell(s) with other channel bandwidthCombinationSetIntraENDC. For serving cell(s) with asymmetricBandwidthCombinationSetIntraENDC. For serving cell(s) with other channel bandwidthCombinationSetIntraENDC, the supportedBandwidthDL and supportedMinBandwidthDLFSPCN/AN/ASupportedMinBandwidthDLand supportedMinBandwidthDLFSPCCYN/AN/AIndicates minimum DL channel bandwidth supported for a given SCS that UE 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 5.1% 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 configured for a single CC (i.e. non-CA case).FSPCNoN/AN/ASupportedModulationOrderDL indicates the maximum supported modulation order to be applied for downlink in the carrier in the max data rate calculation as defined in 1.1.2. If included, the network may use a modulation order on this serving cell which is higher than the value for downlink. If not included: - for FR2, the network uses the modulation order signalled in <i>pdsch-256OAM-FR2</i> if signalled. If not signalled in a given band, the network shall use the modulation order 64QAM. In all the case, 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 38.2114 [12].FSPCCYN/AN/ASupportedSubCarrierSpacingDL suportedSubCarrierSpacingDLFSPC <td></td> <td></td> <td></td> <td></td> <td></td>					
channelBW-90mTz, the supportedBandwidthCombinationSet and the supportedBandwidthCombinationSetIntraENDC. For serving cell(s) with other channel bandwidthCombinationSet, the supportedBandwidthCombinationSet, the asymmetricBandwidthCombinationSet (for a band supporting asymmetric channel bandwidth as defined in clause 5.3.6 of TS 38.101-1 [2]), supportedBandwidthDL and supported for a given SCS that UE supportedBandwidthDL and supported for a given SCS that UE supportedBandwidthDL-r17 Indicates minimum DL channel bandwidth supported for a given SCS that UE supportedSubtex (in Table 5.3.5-1 in TS 38.101-2 [3] for FR2. This parameter is only applicable to the Bandwidth Combination Set 5. This field does not restrict the bandwidths configured for a single CC (i.e. non-CA case).FSPCNvN/AsupportedModulationOrderDL Indicates the maximum supported modulation order to be applied for downlink in the carrier in the max data rate calculation as defined in 4.1.2. If included, the network may use a modulation order on this serving cell which is higher than the value indicated in this field as long as UE supports the modulation of higher value for downlink. If not included: - for FR2, the network uses the modulation order signalled in <i>pdsch-256QAM-FR1</i> . - for FR2, the network uses the modulation order signalled per band i.e. <i>pdsch- 256QAM-FR2</i> if signalled. If not signalled in a given band, the network shall use the modulation order 64QAM. In all the cases, it shall be ensured that the data rate does not exceed the max data rate (<i>DataRate</i>) and max data rate per CC (<i>DataRateCC</i>) according to TS 38.214 [12].FSPCCYN/AsupportedSubCarrierSpacingDL 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 withFSPC <td>channelBW-90mFzthe supportedBandwidthCombinationSetsupportedBandwidthCombinationSetIntraENDC. For serving cell(s) with other channel bandwidthCombinationSet, the supportedBandwidthCombinationSet (for a band supporting asymmetric channel bandwidthCombinationSet (for a band supporting asymmetric channel bandwidthCombinationSet (for a band supporting asymmetric channel bandwidthDL and supportedMinBandwidthDL.ortedMinBandwidthDLsetfined in clause 5.3.6 of TS 38.101-1 [2]), supportedBandwidthDL and supportedMinBandwidthDL.ortedMinBandwidthDLrffts within a single CC (and in case of intra-frequency DAPS handover for the a and target cells), which is defined in Table 5.3.5-1 in TS 38.101-1 [2] for FR1 able 5.3.5-1 in TS 38.101-2 [3] for FR2. This parameter is only applicable to undwidth Combination Set 5. This field does not restrict the bandwidths ured for a single CC (i.e. non-CA case).ortedModulationOrderDLFSPCNoN/AN/Ates the maximum supported modulation order to be applied for downlink in the in the max data rate calculation as defined in 4.1.2. If included, the network se a modulation order on this serving cell which is higher than the value feed in this field as long as UE supports the modulation of higher value for ink. If not included: FR1, the network uses the modulation order signalled per band i.e. pdsch- MM-FR2 if signalled. If not signalled in a given band, the network shall use the ation order 64QAM.FSPCCYN/AN/AFR2, the network uses the modulation order signalled per band i.e. pdsch- MM-FR2 if signalled. If not signalled in a given band, the network shall use the ation order 64QAM.FSPCCYN/AN/Afor tassa, it shall be ensured that the data rate</td> <td>channelBW-90/mbz the supportedBandwidthCombinationSetIntraENDC. For serving cell(s) with other channel bandwidthS the network validates the channelBWs-DL, the supportedBandwidthCombinationSet (for a band supporting asymmetric channel bandwidthCombinationSet (for a band supportedMinBandwidthDL. supportedEndwidthDL supportedMinBandwidthDL. supportedIndwidthDL 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 38.101-1 [2] for FR2. This parameter is only applicable to the BandwidthCombination Set 5. This field does not restrict the bandwidths configured for a single CC (i.e. on-CA case). FSPC No N/A N/A supportedModulationOrderDL Indicates the maximum supported modulation order to be applied for downlink in the carrier in the max data rate calculation as defined in pdsch-2560AM-FR2.1 FSPC No N/A N/A r for FR1, the network uses the modulation order signalled per band i.e. pdsch-2560AM-FR2.1 rst signalled.1 fn ot signalled in a given band, the network shall use the modulation order 64QAM. FSPC CY N/A N/A r for FR2, the network uses the modulation order signalled per band</td> <td></td> <td></td> <td></td> <td></td> <td></td>	channelBW-90mFzthe supportedBandwidthCombinationSetsupportedBandwidthCombinationSetIntraENDC. 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If included, the network se a modulation order on this serving cell which is higher than the value feed in this field as long as UE supports the modulation of higher value for ink. If not included: FR1, the network uses the modulation order signalled per band i.e. pdsch- MM-FR2 if signalled. If not signalled in a given band, the network shall use the ation order 64QAM.FSPCCYN/AN/AFR2, the network uses the modulation order signalled per band i.e. pdsch- MM-FR2 if signalled. If not signalled in a given band, the network shall use the ation order 64QAM.FSPCCYN/AN/Afor tassa, it shall be ensured that the data rate	channelBW-90/mbz the supportedBandwidthCombinationSetIntraENDC. 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supportedBandwidthCombinationSetIntraENDC. For serving cell(s) with other channel bandwidths the network validates the channelBWs-DL, the supportedBandwidthCombinationSet. the asymmetricBandwidthCombinationSet (for a band supporting asymmetric channel bandwidthCombinationSet (for a band supporting asymmetric channel bandwidthDL-and supportedMinBandwidthDL.FSPCCYN/AsupportedBandwidthDL-r17 Indicates minimum DL channel bandwidth supported for a given SCS that UE supportedIsing et al. (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. This field does not restrict the bandwidths configured for a single CC (i.e. non-CA case).FSPCN/AsupportedModulationOrderDL Indicates the maximum supported modulation order to be applied for downlink in the carrier in the max data rate calculation as defined in 4.1.2. If included, the network may use a modulation order on this serving cell which is higher than the value indicated in this field as long as UE supports the modulation of higher value for downlink. If not included: - for FR2, the network uses the modulation order signalled in pdsch-256QAM- FR1. - 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].FSPCCYN/ASupportedSubCarrierSpacingDL Defines the supported sub-carrier spacing for DL by the UE, as defined in clause 4.2-1 of TS 38.21	supportedBandwidthCombinationSetIntraENDC. For serving cell(s) with other channel bandwidthCombinationSet, the supportedBandwidthCombinationSet, the asymmetricBandwidthCombinationSet (for a band supporting asymmetric channel bandwidthCombinationSet (for a band supporting asymmetric channel bandwidthCombinationSet (for a band supporting asymmetric channel bandwidthDL and supportedMinBandwidthDL. FSPC CY N/A N/A PortedMinBandwidthDL and supportedIor a given SCS that UE tra within a single CC (and in case of intra-frequency DAPS handover for the a and target cells), which is defined in Table 5.3.6-1 in TS 38.101-1 [2] for FR1 able 5.3.5-1 in TS 38.101-2 [3] for FR2. This parameter is only applicable to indwidth Combination Set 5. This field does not restrict the bandwidths ured for a single CC (i.e. on-CA case). FSPC No N/A N/A OrtedModulationOrderDL tes the maximum supported modulation order to be applied for downlink in the in the max data rate calculation as defined in 4.1.2. If included, the network se a modulation order on this serving cell which is higher than the value fed in this field as long as UE supports the modulation of higher value for nk. If not included: FR1, the network uses the modulation order signalled per band i.e. <i>pdsch- MM-FR2</i> if signalled. If not signalled in a given band, the network shall use the ation order 64QAM. FSPC CY N/A N/A FR2, the network uses the modulation order signalled per band i.e. <i>pdsch- MM-FR2</i> if signalled. If not signalled in a given band, the network shall use the ation order 64QAM. FSPC CY N/A N/A FR2, the network uses the modulation order signalled per band i.e. <i></i>	supportedBandwidthCombinationSetIntraENDC. For serving cell(s) with other channel bandwidthCombinationSet, the supportedBandwidthCombinationSet, the supportedBandwidthCombinationSet, the supportedBandwidthCombinationSet(for a band supporting asymmetric channel bandwidthDothantionSet(for a band supporting asymmetric channel bandwidthDL and supportedMinBandwidthDL. FSPC CY N/A N/A supportedBandwidthCombinationSet(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 5.1 his field does not restrict the bandwidths configured for a single CC (i.e. non-CA case). FSPC N/A N/A supportedMandulationOrderDL 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 for downlink. If not include: for FR1, the network uses the modulation order signalled in <i>pdsch-256QAM</i>. FR7. for FR2, the network uses the modulation order signalled per band i.e. <i>pdsch-256QAM</i>. for FR2, the network uses the modulation order signalled per band i.e. <i>pdsch-256QAM</i>. for FR2, the network uses the modulation order signalled per band i.e. <i>pdsch-256QAM</i>. for FR2, the network uses the modulation order signalled per band i.e. <i>pdsch-256QAM</i>. for FR2, the network uses the modulation order signalled per band i.e. <i>pdsch-256QAM</i>. 					
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In all the cases, it shall be ensured that the data rate does not exceed the max data rate per CC (<i>DataRateCC</i>) according to TS 38.214 [12].FSPCCYN/AsupportedSubCarrierSpacingDL 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 withFSPCCY <td< td=""><td>other channel bandwidths the network validates the <i>channelBWs-DL</i>, the supportedBandwidthCombinationSet (the asymmetricBandwidthCombinationSet (for a band supporting asymmetric channel bandwidthDL and supportedImandwidthDL.FSPCCYN/AN/AortedBandwidthDL and supported for a given SCS that UE tres within a single CC (and in case of intra-frequency DAPS handover for the a and target cells), which is defined in Table 5.3.5-1 in TS 38.101-1 [2] for FR1 able 5.3.5-1 in TS 38.101-2 [3] for FR2. This parameter is only applicable to indwidth Combination Set J. 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Support of simultaneous reception with or different numerologies between FR1 band(s) and FR2 band(s) in DL is atory with capability if UE supports filter-band NR CA including both FR1 ab and FR2 band(s). Optional for other cases.</td><td>other channel bandwidth the network validates the <i>channelBWs-DL</i>, the supportedBandwidthCombinationSet (the a band supporting asymmetric channel bandwidthCombinationSet (the a band supporting asymmetric channel bandwidthDL and supportedMinBandwidthDL. supportedMandwidthCombinationSet (the a band supporting asymmetric channel bandwidthDL and supportedMinBandwidthDL. supportedMandwidthDL and supportedMinBandwidthDL. FSPC CY N/A N/A N/A N/A N/A N/A SupportedIn 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 as 101-2 [3] for FR2. This parameter is only applicable to the Bandwidth Combination Set 5. This field does not restrict the bandwidths configured for a single CC (i.e. non-CA case). FSPC No N/A N/A N/A N/A N/A N/A N/A SupportedModulationOrderDL Indicates the maximum supported modulation order to be applied for downlink in the carrier in the max data rate calculation as defined in 4.1.2. If included, the network may use a modulation order on this serving cell which is higher than the value indicated in this field as long as UE supports the modulation order signalled in <i>pdsch-256QAM-FR2</i> i signalled. If not signalled in a given band, the network shall use the modulation order signalled in a given band, the network shall use the modulation order signalled per band i.e. <i>pdsch-256QAM-FR2</i> i signalled. If not signalled in a given band, the network shall use the modulation order signalled per band i.e. <i>pdsch-256QAM-FR2</i> i signalled. If not signalled in a given band, the network shall use the modulation order signalled in a given band, the network shall use the modulation order signalled per band i.e. <i>pdsch-256QAM-FR2</i> i signalled. If not signalled</td><td></td><td></td><td></td><td></td><td></td></td<>	other channel bandwidths the network validates the <i>channelBWs-DL</i> , the supportedBandwidthCombinationSet (the asymmetricBandwidthCombinationSet (for a band supporting asymmetric channel bandwidthDL and supportedImandwidthDL.FSPCCYN/AN/AortedBandwidthDL and supported for a given SCS that UE tres within a single CC (and in case of intra-frequency DAPS handover for the a and target cells), which is defined in Table 5.3.5-1 in TS 38.101-1 [2] for FR1 able 5.3.5-1 in TS 38.101-2 [3] for FR2. This parameter is only applicable to indwidth Combination Set J. 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This field does not restrict the bandwidths configured for a single CC (i.e. non-CA case). FSPC No N/A N/A N/A N/A N/A N/A N/A SupportedModulationOrderDL Indicates the maximum supported modulation order to be applied for downlink in the carrier in the max data rate calculation as defined in 4.1.2. If included, the network may use a modulation order on this serving cell which is higher than the value indicated in this field as long as UE supports the modulation order signalled in <i>pdsch-256QAM-FR2</i> i signalled. If not signalled in a given band, the network shall use the modulation order signalled in a given band, the network shall use the modulation order signalled per band i.e. <i>pdsch-256QAM-FR2</i> i signalled. If not signalled in a given band, the network shall use the modulation order signalled per band i.e. <i>pdsch-256QAM-FR2</i> i signalled. If not signalled in a given band, the network shall use the modulation order signalled in a given band, the network shall use the modulation order signalled per band i.e. <i>pdsch-256QAM-FR2</i> i signalled. If not signalled					
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If included, the network may use a modulation order on this serving cell which is higher than the value indicated in this field as long as UE supports the modulation of higher value for downlink. If not included: - for FR1, the network uses the modulation order signalled in <i>pdsch-256QAM</i> -FR1. - - for FR2, the network uses the modulation order signalled per band i.e. <i>pdsch-256QAM</i> -FR1. In all the cases, it shall be ensured that the data rate does not exceed the max data rate (<i>DataRate</i>) and max data rate per CC (<i>DataRateCC</i>) according to TS 38.214 FSPC CY N/A Indicates the supported sub-ca	supportedBandwidthCombinationSet, the supportedBandwidthCombinationSet (for a band supporting asymmetric channel bandwidthD and supportedMinBandwidthDL. 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If included, the network may use a modulation order on this serving cell which is higher than the value indicated in this field as long as UE supports the modulation of higher value for downlink. If not included: - for FR1, the network uses the modulation order signalled per band i.e. pdsch- 256QAM-FR2 if signalled. If not signalled in a given band, the network shall use the modulation order 64QAM. FSPC CY N/A N/A supportedSubCarrierSpacingDL Defines the supported sub-carrier spacing for DL by the UE, as defined in clause 4.2-1 of TS 38.211 [6], indicating the UE support of simultaneous reception with same or different numerologies torether cases. Support of simultaneous manda</td><td></td><td></td><td></td><td></td><td></td></td<>	supportedBandwidthCombinationSet, the supportedBandwidthCombinationSet (for a band supporting asymmetric channel bandwidthDat as defined in clause 5.3.6 of TS 38.101-1 [2]), supportedBinBandwidthDL-r17 FSPC CY N/A N/A supportedBinBandwidthDL SupportedBinBandwidthDL-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 6. This field does not restrict the bandwidths configured for a single CC (i.e. non-CA case). FSPC No N/A N/A supportedIModulationOrderDL Indicates the maximum supported modulation order to be applied for downlink in the carrier in the max data rate calculation as defined in 4.1.2. If included, the network may use a modulation order on this serving cell which is higher than the value indicated in this field as long as UE supports the modulation of higher value for downlink. If not included: - for FR1, the network uses the modulation order signalled per band i.e. pdsch- 256QAM-FR2 if signalled. If not signalled in a given band, the network shall use the modulation order 64QAM. FSPC CY N/A N/A supportedSubCarrierSpacingDL Defines the supported sub-carrier spacing for DL by the UE, as defined in clause 4.2-1 of TS 38.211 [6], indicating the UE support of simultaneous reception with same or different numerologies torether cases. Support of simultaneous manda					
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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: FSPC No N/A - for FR1, the network uses the modulation order signalled in pdsch-256QAM-FR2. FSPC V/A FR1. - for FR2, the network uses the modulation order signalled per band i.e. pdsch-256QAM-FR2. V/A Indicated in this field as long as UE supports the data rate does not exceed the max data rate (DataRate) and max data rate per CC (DataRateCC) according to TS 38.214 FSPC V/A </td <td>asymmetricBandwidthCombinationSet (for a band supporting asymmetric channel bandwidth as defined in clause 5.3.6 of TS 38.101-1 [2]), supportedBandwidthDL.and supportedMinBandwidthDL.SupportedBandwidthDL.portedMinBandwidthDL-r17 tes minimum DL channel bandwidth supported for a given SCS that UE travised to and traget cells), which is defined in Table 5.3.5-1 in TS 38.101-2 [3] for FR2. This parameter is only applicable to undwidth Combination Set 5. This field does not restrict the bandwidths ured for a single CC (i.e. non-CA case).FSPCCYN/AN/AN/AN/AN/AN/AN/AN/AIt in the max data rate calculation as defined in 4.1.2. If included, the network se a modulation order on this serving cell which is higher than the value ted in this field as long as UE supports the modulation of higher value for ink. If not included: FR1, the network uses the modulation order signalled in <i>pasch-256QAM</i>- FR2, the network uses the modulation order signalled per band i.e. <i>pdsch- MA-FF2</i> if signalled. If not signalled in a given band, the network shall use the ation order 64QAM. he cases, it shall be ensured that the data rate does not exceed the max data tatarate) and max data rate per CC (<i>DataRateCC</i>) according to TS 38.211 (6), indicating the UE supports simultaneous reception with or different numerologies in CA. Support of simultaneous reception with or different numerologies in CA. Support of simultaneous reception with or different numerologies between FR1 band(s) and FR2 band(s) in DL is atory with capability if UE supports and non-contiguous as hand(s) and FR2 band(s). Optional for other cases. Support of simultaneousFSPCCYN/AN/A</td> <td>asymmetricBandwidthCombinationSet (for a band supporting asymmetric channel bandwidth as defined in clause 5.3.6 of TS 38.101-1 [2]), supportedBandwidthDL and supportedMinBandwidthDL. FSPC CY N/A N/A supportedImBandwidthDL and 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. This field does not restrict the bandwidths configured for a single CC (i.e. non-CA case). 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Support of simultaneousFSPCCYN/AN/A	asymmetricBandwidthCombinationSet (for a band supporting asymmetric channel bandwidth as defined in clause 5.3.6 of TS 38.101-1 [2]), supportedBandwidthDL and supportedMinBandwidthDL. FSPC CY N/A N/A supportedImBandwidthDL and 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. This field does not restrict the bandwidths configured for a single CC (i.e. non-CA case). FSPC No N/A N/A supportedModulationOrderDL Indicates the maximum supported modulation order to be applied for downlink in the carrier in the max data rate calculation as defined in 4.1.2. If included, the network may use a modulation order on this serving cell which is higher value for downlink. If not included: - for FR2, the network uses the modulation order signalled per band i.e. <i>pdsch-256QAM- FR1</i> . FSPC No N/A N/A In all the cases, it shall be ensured that the data rate does not exceed the max data rate (DatRate) and max data rate per CC (DataRateCC) according to TS 38.214 [12]. FSPC CY N/A N/A In all the cases, it shall be ensured that the data rate does not exceed the max data rate (DatRate) and max data rate per CC (DataRateCC) according to TS 38.214 [12]. FSPC CY N/A N/A In all the cases, it shall be ensured that the data rate does not exceed the max data rate (DatRate) and max data ra	supportedBandwidthCombinationSet, the				
channel bandwidth as defined in clause 5.3.6 of TS 38.101-1 [2]), supportedBandwidthDL and supportedMinBandwidthDL. FSPC CY N/A supportedMinBandwidthDL and 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. This field does not restrict the bandwidths configured for a single CC (i.e. non-CA case). FSPC No N/A supportedModulationOrderDL Indicates the maximum supported modulation order to be applied for downlink in the carrier in the max data rate calculation as defined in 4.1.2. If included, the network may use a modulation order on this serving cell which is higher than the value indicated in this field as long as UE supports the modulation of higher value for downlink. If not included: - for FR1, the network uses the modulation order signalled in <i>pdsch-256QAM</i> - <i>FR1</i> . FSPC No N/A In all the cases, it shall be ensured that the data rate does not exceed the max data rate (<i>DataRate</i>) and max data rate per CC (<i>DataRateCC</i>) according to TS 38.214 [12]. FSPC CY N/A supportedSubCarrierSpacingDL Defines the supported sub-carrier spacing for DL by the UE, as defined in clause 4.2-1 of TS 38.211 [6], indicating the UE supports simultaneous reception with FSPC CY N/A	channel bandwidth as defined in clause 5.3.6 of TS 38.101-1 [2]), supportedBandwidthDL and supportedMinBandwidthDL.FSPCVN/AN/AN/ATest minimum DL channel bandwidth supported for a given SCS that UE tres within a single CC (and in case of intra-frequency DAPS handover for the e and target cells), which is defined in Table 5.3.5-1 in TS 38.101-1 [2] for FR1 able 5.3.5-1 in TS 38.101-2 [3] for FR2. This parameter is only applicable to undwidth Combination Set 5. This field does not restrict the bandwidths ured for a single CC (i.e. non-CA case).FSPCNoN/AN/AFSPCNoN/AN/AN/AN/ATest the maximum supported modulation order to be applied for downlink in the in the max data rate calculation as defined in 4.1.2. If included, the network se a modulation order on this serving cell which is higher than the value ted in this field as long as UE supports the modulation of higher value for ink. If not included: FR1, the network uses the modulation order signalled per band i.e. pdsch- MM-FR2 if signalled. If not signalled in a given band, the network shall use the ation order 64QAM. he cases, it shall be ensured that the data rate does not exceed the max data DataRate) and max data rate per CC (DataRateCC) according to TS 38.214FSPCCYN/AN/AFSPCCYN/AN/AN/AortedSubCarrierSpacingDL to of lifterent numerologies in CA. Support of simultaneous reception with or different numerologies in CA. Support of simultaneous reception with or different numerologies in CA. Support of simultaneous reception with or different numerologies between FR1 band(s) and FR2 band(s) in DL is atory with capability if UE supports inter-band NR CA including both FR1 s) and	channel bandwidth as defined in clause 5.3.6 of TS 38.101-1 [2]), supported/Bin/Bandwidth/DL, and supported/Min/Bandwidth/DL. Supported/Bin/Bandwidth/DL-r17 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. This field does not restrict the bandwidths configured CC (i.e. non-CA case). Supported/ModulationOrderDL Indicates the maximum supported modulation order to be applied for downlink in the carrier in the max data rate calculation as defined in 4.1.2. If included, the network may use a modulation order on this serving cell which is higher than the value indicated in this field as long as UE supports the modulation of higher value for downlink. If not included: - for 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 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 or different numerologies the transports ismultaneous reception with same or different numerologies to CA including both contiguous and non-contiguous is mandatory with capability if DE 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 Su					
supportedBandwidthDL and supportedMinBandwidthDL.supportedMinBandwidthDL-r17Indicates 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. This field does not restrict the bandwidths configured for a single CC (i.e. non-CA case).FSPCN/ASupportedModulationOrderDL Indicates the maximum supported modulation order to be applied for downlink in the carrier in the max data rate calculation as defined in 4.1.2. If included, the network may use a modulation order on this serving cell which is higher than the value indicated in this field as long as UE supports the modulation of higher value for downlink. If not included: - for FR1, the network uses the modulation order signalled in <i>pdsch-256QAM-FR2</i> if signalled. If not signalled in a given band, the network shall use the modulation order 64QAM. In all the cases, it shall be ensured that the data rate does not exceed the max data rate (<i>DataRate</i>) and max data rate per CC (<i>DataRateCC</i>) according to TS 38.214 [12].FSPC SPC CYN/AsupportedSubCarrierSpacingDL 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 withFSPCCYN/A	supportedBandwidthDL and supportedMinBandwidthDL.predMinBandwidthDL-r17FSPCCYN/AN/Ates minimum DL channel bandwidth supported for a given SCS that UEFSPCCYN/AN/Ates minimum DL channel bandwidth supported for a given SCS that UEFSPCCYN/AN/Ates minimum DL channel bandwidth supported for a given SCS that UEFSPCCYN/AN/Ates within a single CC (and in case of intra-frequency DAPS handover for the a and target cells), which is defined in Table 5.3.5-1 in TS 38.101-1 [2] for FR1FSPCN/AN/Aable 5.3.5-1 in TS 38.101-2 [3] for FR2. This parameter is only applicable to indwidth Combination Set 5. This field does not restrict the bandwidthsFSPCNoN/AN/Aured for a single CC (i.e. non-CA case).FSPCNoN/AN/AN/ApredModulationOrderDLtes the maximum supported modulation order to be applied for downlink in the tin the max data rate calculation as defined in 4.1.2. If included, the network se a modulation order on this serving cell which is higher than the value ted in this field as long as UE supports the modulation of higher value for ink. If not included:FSPCNoN/AN/AFR2, the network uses the modulation order signalled per band i.e. pdsch- AM-FR2 if signalled. If not signalled in a given band, the network shall use the ation order 64QAM.FSPCCYN/AN/Ate cases, it shall be ensured that the data rate does not exceed the max data 2ataRate) and max data rate per CC (DataRateCC) according to TS 38.211FSPCCYN/AN/Ates the	supportedBandwidthDL and supportedMinBandwidthDL. supportedMinBandwidthDL-r17 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. This field does not restrict the bandwidths configured for a single CC (i.e. non-CA case). FSPC N/A N/A supportedModulationOrderDL Indicates the maximum supported modulation order to be applied for downlink in the carrier in the max data rate calculation as defined in 4.1.2. If included, the network may use a modulation order on this serving cell which is higher than the value indicated in this field as long as UE supports the modulation of higher value for downlink. If not included: - for FR2, the network uses the modulation order signalled in <i>pdsch-256QAM</i> - <i>FR1</i> . FSPC No N/A N/A In all the cases, it shall be ensured that the data rate does not exceed the max data rate (<i>DataRate</i>) and max data rate per CC (<i>DataRateCC</i>) according to TS 38.214 [12]. FSPC CY N/A N/A SupportedSubCarrierSpacingDL Defines the supported sub-carrier spacing for DL by the UE, as defined in clause 4.2-1 of TS 38.211 [6], indicating the UE support of simultaneous reception with same or different numerologies in CA. Support of simultaneous reception with same or different numerologies her An and FR2. Support of simultaneous reception with two different numerologies between FR1 band(s) and FR2 band(s) in DL is mandatory with	asymmetricBandwidthCombinationSet (for a band supporting asymmetric				
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If not included: - for FR1, the network uses the modulation order signalled in pdsch-256QAM- FR1. - 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].FSPCCYN/A	DrtedMinBandwidthDL-r17FSPCCYN/AN/Ates minimum DL channel bandwidth supported for a given SCS that UE trs within a single CC (and in case of intra-frequency DAPS handover for the a and target cells), which is defined in Table 5.3.5-1 in TS 38.101-1 [2] for FR1FSPCCYN/AN/Aable 5.3.5-1 in TS 38.101-2 [3] for FR2. This parameter is only applicable to indwidth Combination Set 5. This field does not restrict the bandwidths ured for a single CC (i.e. non-CA case).FSPCNoN/AN/A <i>ortedModulationOrderDL</i> tes the maximum supported modulation order to be applied for downlink in the rin the max data rate calculation as defined in 4.1.2. If included, the network se a modulation order on this serving cell which is higher than the value ted in this field as long as UE supports the modulation of higher value for ink. If not included: FR1, the network uses the modulation order signalled in <i>pdsch-256QAM-</i> FR2, the network uses the modulation order signalled per band i.e. <i>pdsch- AM-FR2</i> if signalled. If not signalled in a given band, the network shall use the ation order 64QAM. he cases, it shall be ensured that the data rate does not exceed the max data DataRate) and max data rate per CC (<i>DataRateCC</i>) according to TS 38.214FSPCCYN/AN/A ortedSubCarrierSpacingDL to different numerologies in CA. Support of simultaneous reception with satory with capability in both FR1 and FR2. Support of simultaneous reception with capability in both FR1 and FR2. Support of simultaneous reception with same of offerent numerologies between FR1 band(s) and FR2 band(s) in DL is atory with capability if UE supports inter-band NR CA including both contiguous is atory with capability of the contexpand (S) and FR2 band(s).FSPC <td>supported/MinBandwidthDL-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. This field does not restrict the bandwidths FSPC CY N/A N/A supports Supported/ModulationOrderDL 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 for downlink. If not included: FSPC No N/A N/A - for FR1, the network uses the modulation order signalled in pdsch-256QAM-FR2.1 For FR2, the network uses the modulation order signalled per band i.e. pdsch-256QAM-FR2.1 FSPC CY N/A N/A 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 FSPC CY N/A N/A 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 FSPC CY N/A N/A In all the cases, it shall be ensured that the data rate does not</td> <td></td> <td></td> <td></td> <td></td> <td></td>	supported/MinBandwidthDL-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. This field does not restrict the bandwidths FSPC CY N/A N/A supports Supported/ModulationOrderDL 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 for downlink. If not included: FSPC No N/A N/A - for FR1, the network uses the modulation order signalled in pdsch-256QAM-FR2.1 For FR2, the network uses the modulation order signalled per band i.e. pdsch-256QAM-FR2.1 FSPC CY N/A N/A 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 FSPC CY N/A N/A 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 FSPC CY N/A N/A In all the cases, it shall be ensured that the data rate does not					
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SupportFDM-SchemeB-r16	ortFDM-SchemeB-r16 FSPC No N/A N/A						
		Indicates whether UE supports single DCI based FDMSchemeB.	supportFDM-SchemeB-r16	FSPC	No	N/A	N/A
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4.2.7.7 *FeatureSetUplink* parameters

Definitions for parameters	Per	М	FDD- TDD DIFF	FR1 FR2 DIFF
scalingFactor Indicates the scaling factor to be applied to the band in the max data rate calculation as defined in 4.1.2. Value f0p4 indicates the scaling factor 0.4, f0p75 indicates 0.75, and so on. If absent, the scaling factor 1 is applied to the band in the max data rate calculation.	FS	No	N/A	N/A
cbgPUSCH-ProcessingType1-DifferentTB-PerSlot-r16	FS	No	N/A	N/A
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.		NO		
cbgPUSCH-ProcessingType2-DifferentTB-PerSlot-r16	FS	No	N/A	N/A
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.				
crossCarrierSchedulingProcessing-DiffSCS-r16	FS	No	N/A	N/A
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.				
<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	FS	No	N/A	N/A
X and a band Y if it sets this capability parameter for both band X and band Y. <i>featureSetListPerUplinkCC</i>	FS	N/A	N/A	N/A
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.				
<i>intraBandFreqSeparationUL, intraBandFreqSeparationUL-v1620</i> Indicates UL frequency separation class the UE supports, which indicates a maximum frequency separation between lower edge of lowest CC and upper edge of highest CC in a frequency band, for intra-band non-contiguous CA. The UE sets the same value in the FeatureSetUplink of each band entry within a band. The values mhzX corresponds to the values XMHz defined in TS 38.101-2 [3]. It is mandatory to report for UE which supports UL non-contiguous CA in FR2. If the UE sets the field <i>intraBandFreqSeparationUL-v1620</i> it shall set <i>intraBandFreqSeparationUL</i> (without suffix) to the nearest smaller value.	FS	CY	N/A	FR2 only
intraFreqDAPS-UL-r16	FS	No	N/A	N/A
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: - <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.		Nic	N1/A	N1/A
<i>multiPUCCH-r16</i> Indicates whether the UE supports more than one PUCCH for HARQ-ACK transmission within a slot. This field includes the following parameters: - <i>sub-SlotConfig-NCP-r16</i> indicates the sub-slot configuration for NCP;	FS	No	N/A	N/A
- <i>sub-SlotConfig-ECP-r16</i> indicates the sub-slot configuration for ECP.				
For NCP, the value <i>set1</i> denotes 7-symbol*2, and <i>set2</i> denotes 2-symbol*7 and 7-symbol*2.				
For ECP, the value <i>set1</i> denotes 6-symbol*2, and <i>set2</i> denotes 2-symbol*6 and 6-symbol*2.				
<i>mux-SR-HARQ-ACK-r16</i> Indicates whether the UE supports SR/HARQ-ACK multiplexing once per subslot using a PUCCH (or HARQ-ACK piggybacked on a PUSCH) when SR/HARQ-ACK are supposed to be sent with different starting symbols in a subslot.	FS	No	N/A	N/A

offsetSRS-CB-PUSCH-Ant-Switch-fr1-r16 FS No N/A FR1 Indicates whether UE requires minimum of 19 symbols offset between aperiodic SRS friggering and transmission for SRS for codebook based PUSCH and antenna switching. FS No N/A FR1 UE indicating support of this shall indicate support of supportedSRS-Resources. FS No N/A FR1 offsetSRS-CB-PUSCH-PDCCH-MonitorSingleOcc-fr1+r16 FS No N/A FR1 Indicates whether UE requires minimum of 19 symbols offset between aperiodic SRS FS No N/A FR1 SRS friggering and transmission for SRS for codebook based PUSCH and antenna switching for the case of PDCCH monitoring on any span of up to 3 consecutive FS No N/A FR1 Indicates whether UE requires minimum of 19 symbols offset between aperiodic SRS friggering and transmission for the case of PDCCH search space monitoring occasions in any symbol of the slot for Type 1-PDCCH common search space or or 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 SN/A FR1 only SRS friggering and transmission for SRS for codebook based PUSCH and antenna switching for the case of PDCCH search space monitoring cocasions in any symbol of the shall indicate support of supportedSRS-Resources. FS No N/A FR1					
offsetSRS-CB-PUSCH-PDCCH-MonitorSingleOcc-rfr-r16 FS No N/A FR1 Indicates whether UE requires minimum of 19 symbols offset between aperiodic SRS triggering and transmission for SRS for codebook based PUSCH and antenna switching for the case of PDCCH monitoring on any span of up to 3 consecutive OFDM symbols of a slot. FS No N/A FR1 UE indicating support of this shall indicate support of supportedSRS-Resources. FS No N/A FR1 offsetSRS-CB-PUSCH-PDCCH-MonitorAnyOccWithoutGap-fr1-r16 FS No N/A FR1 Indicates whether UE requires minimum of 19 symbols offset between aperiodic SRS triggering and transmission for the case of PDCCH search space monitoring occasions in any symbol of the slot for Type 1-PDCCH common search space, or for a UE-specific search space with the capability of supporting at least 44, 36, 22, and 20 blind decodes in a slot for 15 kHz, 30 kHz, 60kHz, and 120 kHz subcarrier spacing values respectively. FS No N/A FR1 UE indicating support of this shall indicate support of supportedSRS-Resources. FS No N/A FR1 offsetSRS-CB-PUSCH-PDCCH-MonitorAnyOccWithGap-fr1-r16 FS No N/A FR1 Indicates whether UE requires minimum of 19 symbols for 15 kHz, 50 kHz, four FS No N/A FR1 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	FS	No	N/A	
offsetSRS-CB-PUSCH-PDCCH-MonitorSingleOcc-rfr-r16 FS No N/A FR1 Indicates whether UE requires minimum of 19 symbols offset between aperiodic SRS triggering and transmission for SRS for codebook based PUSCH and antenna switching for the case of PDCCH monitoring on any span of up to 3 consecutive OFDM symbols of a slot. FS No N/A FR1 UE indicating support of this shall indicate support of supportedSRS-Resources. FS No N/A FR1 offsetSRS-CB-PUSCH-PDCCH-MonitorAnyOccWithoutGap-fr1-r16 FS No N/A FR1 Indicates whether UE requires minimum of 19 symbols offset between aperiodic SRS triggering and transmission for the case of PDCCH search space monitoring occasions in any symbol of the slot for Type 1-PDCCH common search space, or for a UE-specific search space with the capability of supporting at least 44, 36, 22, and 20 blind decodes in a slot for 15 kHz, 30 kHz, 60kHz, and 120 kHz subcarrier spacing values respectively. FS No N/A FR1 UE indicating support of this shall indicate support of supportedSRS-Resources. FS No N/A FR1 offsetSRS-CB-PUSCH-PDCCH-MonitorAnyOccWithGap-fr1-r16 FS No N/A FR1 Indicates whether UE requires minimum of 19 symbols for 15 kHz, 50 kHz, four FS No N/A FR1 offsetSRS-CB-PUSCH-PDCCH-MonitorAnyOccWithGap-fr1-r16	UE indicating support of this shall indicate support of supportedSRS-Resources.				
offsetSRS-CB-PUSCH-PDCCH-MonitorAnyOccWithoutGap-fr1-r16 Indicates whether UE requires minimum of 19 symbols offset between aperiodic SRS triggering and transmission for the case of PDCCH search space monitoring occasions in any symbol of the slot for Type 1-PDCCH common search space 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.FSNoN/AFR1 onlyUE indicating support of this shall indicate support of supportedSRS-Resources.FSNoN/AFR1 onlyoffsetSRS-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 15 kHz, four OFDM symbols for 30 kHz, seven OFDM symbols for 15 kHz, 30 kHz, 60kHz, and 120 kHz subcarrier spacing values respectively.FSNoN/AFR1 onlyUE indicating support of this shall indicate support of pdcch- MonitoringAnyOccasions with value withDCI-Gap and supportedSRS-Resources.FSNoN/AFR1 onlyoffsetSRS-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 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.FSNoN/AU	offsetSRS-CB-PUSCH-PDCCH-MonitorSingleOcc-fr1-r16 Indicates whether UE requires minimum of 19 symbols offset between aperiodic SRS triggering and transmission for SRS for codebook based PUSCH and antenna switching for the case of PDCCH monitoring on any span of up to 3 consecutive	FS	No	N/A	
offsetSRS-CB-PUSCH-PDCCH-MonitorAnyOccWithoutGap-fr1-r16 Indicates whether UE requires minimum of 19 symbols offset between aperiodic SRS triggering and transmission for the case of PDCCH search space monitoring occasions in any symbol of the slot for Type 1-PDCCH common search space 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.FSNoN/AFR1 onlyUE indicating support of this shall indicate support of supportedSRS-Resources.FSNoN/AFR1 onlyoffsetSRS-CB-PUSCH-PDCCH-MonitorAnyOccWithGap-fr1-r16 Indicates whether UE requires minimum of 19 symbols offset between aperiodic 	UE indicating support of this shall indicate support of supportedSRS-Resources				
offsetSRS-CB-PUSCH-PDCCH-MonitorAnyOccWithGap-fr1-r16FSNoN/AFR1Indicates whether UE requires minimum of 19 symbols offset between aperiodicSRS triggering and transmission for SRS for codebook based PUSCH and antennaswitching for the case of PDCCH search space monitoring occasions in any symbolN/AFR1of the slot with minimum time separation of two OFDM symbols for 15 kHz, fourOFDM symbols for 30 kHz, seven OFDM symbols for 60 kHz with NCP, andN/AFR1of the slot with minimum time separation of two OFDM symbols for 12 kHz, between two consecutive transmissions of PDCCHscrambled with C-RNTI, MCS-C-RNTI or CS-RNTI for Type 1-PDCCH commonsearch space, or for a UE-specific search space, with the capability ofsupporting 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.FSNoN/AFR1UE indicating support of this shall indicate support of pdcch-MonitoringAnyOccasions with value withDCI-Gap and supportedSRS-Resources.FSNoN/AFR1offsetSRS-CB-PUSCH-PDCCH-MonitorAnyOccWithSpanGap-fr1-r16FSNoN/AFR1Indicates whether UE requires minimum of 19 symbols of space monitoring occasions in any symbol of the slot with minimum time separation between two OFDM symbols for two OFDM symbols for two OFDM symbols or span up to three OFDM symbols for four and seven OFDMSymbols.N/AFR1onlyonlysymbols or span up to three OFDM symbols for four and seven OFDMsymbols. Value set (X,Y) is (4,3) and (7,3) and value set 3 indicatesIndicates the supported value set (X,Y) is (4,3) and (7,3).Indicates St indicates </td <td>offsetSRS-CB-PUSCH-PDCCH-MonitorAnyOccWithoutGap-fr1-r16 Indicates whether UE requires minimum of 19 symbols offset between aperiodic SRS triggering and transmission for the case of PDCCH search space monitoring occasions in any symbol of the slot for Type 1-PDCCH common search space configured by dedicated RRC signaling, for a Type 3-PDCCH common search space, or for a UE-specific search space with the capability of supporting at least 44, 36, 22, and 20 blind decodes in a slot for 15 kHz, 30 kHz, 60kHz, and 120 kHz</td> <td>FS</td> <td>No</td> <td>N/A</td> <td></td>	offsetSRS-CB-PUSCH-PDCCH-MonitorAnyOccWithoutGap-fr1-r16 Indicates whether UE requires minimum of 19 symbols offset between aperiodic SRS triggering and transmission for the case of PDCCH search space monitoring occasions in any symbol of the slot for Type 1-PDCCH common search space configured by dedicated RRC signaling, for a Type 3-PDCCH common search space, or for a UE-specific search space with the capability of supporting at least 44, 36, 22, and 20 blind decodes in a slot for 15 kHz, 30 kHz, 60kHz, and 120 kHz	FS	No	N/A	
Indicates whether UE requires minimum of 19 symbols offset between aperiodic SRS triggering and transmission for SRS for codebook based PUSCH and antenna switching for the case of PDCCH search space monitoring occasions in any symbol of the slot with minimum time separation of two OFDM symbols for 15 kHz, four OFDM symbols for 30 kHz, seven OFDM symbols for 60 kHz with NCP, and 140FDM symbols for 120kHz between two consecutive transmissions of PDCCH scrambled with C-RNTI, MCS-C-RNTI, or CS-RNTI for Type 1-PDCCH common search space, 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.FSNoN/AFR1 onlyOffsetSRS-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).N/AFR1	UE indicating support of this shall indicate support of supportedSRS-Resources.				
MonitoringAnyOccasions with value withDCI-Gap and supportedSRS-Resources.offsetSRS-CB-PUSCH-PDCCH-MonitorAnyOccWithSpanGap-fr1-r16FSIndicates whether UE requires minimum of 19 symbols offset between aperiodicFSSRS 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).	Indicates whether UE requires minimum of 19 symbols offset between aperiodic SRS triggering and transmission for SRS for codebook based PUSCH and antenna switching for the case of PDCCH search space monitoring occasions in any symbol of the slot with minimum time separation of two OFDM symbols for 15 kHz, four OFDM symbols for 30 kHz, seven OFDM symbols for 60 kHz with NCP, and 140FDM symbols for 120kHz between two consecutive transmissions of PDCCH scrambled with C-RNTI, MCS-C-RNTI, or CS-RNTI for Type 1-PDCCH common search space configured by dedicated RRC signaling, for a Type 3-PDCCH common search space, or for a UE-specific search space, with the capability of supporting at least 44, 36, 22, and 20 blind decodes in a slot for 15 kHz, 30 kHz, 60kHz, and 120 kHz subcarrier spacing values respectively.	FS	No	N/A	
offsetSRS-CB-PUSCH-PDCCH-MonitorAnyOccWithSpanGap-fr1-r16FSNoN/AFR1Indicates 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).FSNoN/AFR1					
UE indicating support of this shall indicate support of 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	FS	No	N/A	
	UE indicating support of this shall indicate support of supportedSRS-Resources.				

pa-PhaseDiscontinuityImpacts Indicates incapability motivated by impacts of PA phase discontinuity with overlapping transmissions with non-aligned starting or ending times or hop boundaries across carriers for intra-band (NG)EN-DC/NE-DC, intra-band CA and FDM based ULSUP.	FS	No	N/A	N/A
 This capability applies to: Intra-band (NG)EN-DC/NE-DC combination without additional inter-band NR and LTE CA component; Intra-band (NG)EN-DC/NE-DC combination supporting both UL and DL intra- 				
 band (NG)EN-DC/NE-DC parts with additional inter-band NR/LTE CA component; Inter-band (NG)EN-DC/NE-DC combination, where the frequency range of 				
the E-UTRA band is a subset of the frequency range of the NR band (as specified in Table 5.5B.4.1-1 of TS 38.101-3 [4]).				
If this capability is included in an "Intra-band (NG)EN-DC/NE-DC combination supporting both UL and DL intra-band (NG)EN-DC/NE-DC parts with additional inter-band NR/LTE CA component", this capability applies to the intra-band (NG)EN-DC/NE-DC BC part.				
 partialCancellationPUCCH-PUSCH-PRACH-TX-r16 Indicates whether UE supports the partial cancellation of the configured PUCCH or PUSCH or PRACH transmission in set of symbols of a slot due to: Detection of a DCI format 2_0 with a slot format value other than 255 that 	FS	No	N/A	N/A
 indicates a slot format with a subset of symbols from the set of symbols as downlink or flexible; DCI format 2_0 being configured but not detected, when either a subset of symbols from the set of symbols are indicated as flexible by <i>tdd-UL-DL-ConfigurationCommon</i>, and <i>tdd-UL-DL-ConfigurationDedicated</i> if provided, 				
 or tdd-UL-DL-ConfigurationCommon and tdd-UL-DL-ConfigurationDedicated are not provided to the UE; Detection of a DCI format 1_0, DCI format 1_1, DCI format 1_2 or DCI format 0_1 and DCI format 0_2 indicating to the UE to receive CSI-RS or 				
PDSCH in a subset of symbols from the set of symbols. 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. <i>pusch-ProcessingType2</i> Indicates whether the UE supports PUSCH processing capability 2. The UE	FS	No	N/A	FR1 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 subcarrier spacing supported by the UE. <i>fallback</i> indicates whether the UE supports PUSCH processing capability 2 when the number of configured carriers is larger than <i>numberOfCarriers</i> for a reported value of <i>differentTB-PerSlot</i>. If <i>fallback</i> = 'sc', UE supports capability 2 processing time on lowest cell index among the configured carriers in the band where the value is reported, if <i>fallback</i> = 'cap1-only', UE supports only capability 1, in the band where the value is reported; 				Uniy
 differentTB-PerSlot indicates whether the UE supports processing type 2 for 1, 2, 4 and/or 7 unicast PUSCHs for different transport blocks per slot per CC; and if so, it indicates up to which number of CA serving cells the UE supports that number of unicast PUSCHs for different TBs. The UE shall include at least one of numberOfCarriers for 1, 2, 4 or 7 transport blocks per slot in this field if pusch-ProcessingType2 is indicated. 				
<i>pusch-RepetitionTypeB-r16</i> Indicates whether the UE supports PUSCH repetition type B, as specified in 6.1.2 of TS 38.214 [12].	FS	No	N/A	N/A
pusch-SeparationWithGap Indicates whether the UE supports separation of two unicast PUSCHs with a gap, applicable to Sub-carrier spacings of 15 kHz, 30 kHz and 60 kHz only. For any two consecutive slots n and n+1, if there are more than 1 unicast PUSCH in either slot, the minimum time separation between starting time of any two unicast PUSCHs within the duration of these slots is 2 OFDM symbols for 15kHz, 4 OFDM symbols for 30kHz and 7 OFDM symbols for 60kHz.	FS	No	N/A	N/A

searchSpaceSharingCA-UL Defines whether the UE supports UL PDCCH search space sharing for carrier	FS	No	N/A	N/A
aggregation operation.				
simultaneousTxSUL-NonSUL	FS	No	N/A	N/A
Indicates whether the UE supports simultaneous transmission of SRS on an				
SUL/non-SUL carrier and PUSCH/PUCCH/SRS on the other UL carrier in the same				
cell. The UE supports simultaneous transmission on an SUL band X and a Non-				
SUL band Y if it sets this capability parameter for both band X and band Y.				
srs-PosResources-r16	FS	No	N/A	N/A
Indicates support of SRS for positioning. UE supporting this feature should also				
support open loop power control for positioning SRS based on SSB from the				
serving cell. The capability signalling comprises the following parameters:				
- maxNumberSRS-PosResourceSetPerBWP-r16 Indicates the max number of				
SRS Resource Sets for positioning supported by UE per BWP;				
- maxNumberSRS-PosResourcesPerBWP-r16 indicates the max number of				
SRS resources for positioning supported by UE per BWP, including periodic,				
semi-persistent, and aperiodic SRS;				
- maxNumberSRS-ResourcesPerBWP-PerSlot-r16 indicates the max number				
of SRS resources configured by SRS-Resource and SRS-PosResource-r16				
supported by UE per BWP, including periodic, semi-persistent, and aperiodic				
SRS;				
- maxNumberPeriodicSRS-PosResourcesPerBWP-r16 indicates the max				
number of periodic SRS resources for positioning supported by UE per BWP;				
- maxNumberPeriodicSRS-PosResourcesPerBWP-PerSlot-r16 indicates the				
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:				
 maxNumberAP-SRS-PosResourcesPerBWP-r16 indicates the max number 				
of aperiodic SRS resources for positioning supported by UE per BWP;				
- maxNumberAP-SRS-PosResourcesPerBWP-PerSlot-r16 indicates the max				
number of aperiodic SRS resources for positioning supported by UE per				
BWP per slot.				
srs-PosResourceSP-r16	FS	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;				
- maxNumberSP-SRS-PosResourcesPerBWP-PerSlot-r16 indicates the max				
number of semi-persistent SRS resources for positioning supported by UE				
per BWP per slot				

• •	rces resources. The capability signalling comprising indication	FS	FD	N/A	N/A
	<i>riodicSRS-PerBWP</i> indicates supported maximum number S resources that can be configured for the UE per each BWP				
	<i>riodicSRS-PerBWP-PerSlot</i> indicates supported maximum odic SRS resources per slot in the BWP				
	<i>iodicSRS-PerBWP</i> indicates supported maximum number of sources per BWP				
	iodicSRS-PerBWP-PerSlot indicates supported maximum dic SRS resources per slot in the BWP				
	niPersistentSRS-PerBWP indicate supported maximum persistent SRS resources that can be configured for the UE				
	niPersistentSRS-PerBWP-PerSlot indicates supported er of semi-persistent SRS resources per slot in the BWP				
	S-Ports-PerResource indicates supported maximum number port per each SRS resource.				
persistent SRS resource	ed, the UE supports one periodic, one aperiodic, no semi- es per BWP and one periodic, one aperiodic, no semi- es per BWP per slot and one SRS antenna port per SRS				
subslot based HARQ-A subslot based) simultan with different priorities a parameters: - sub-SlotConfig-I	IE supports two HARQ-ACK codebooks with up to one CK codebook (i.e. slot-based + slot-based, or slot-based + neously constructed for supporting HARQ-ACK codebooks at a UE. The capability signalling comprises the following <i>VCP-r16</i> indicates the maximum number of actual PUCCH r HARQ-ACK within a slot for NCP with 2-symbol*7 sub-slot				
	ECP-r16 indicates the maximum number of actual PUCCH r HARQ-ACK within a slot for ECP with 2-symbol*6 sub-slot				
configuration of ECP, th	-slot configuration of NCP or the 6-symbol*2 sub-slot ne value of the maximum number of actual PUCCH Q-ACK within a slot is {2}.				
configured w - whether symbols the capa - whether format 1, subject to LongAnd - whether for each ConsecS	icates support of this feature and is simultaneously ith two slot-based HARQ-ACK codebooks: the UE supports two PUCCH of format 0 or 2 in consecutive in the same slot for each HARQ-ACK codebook is subject to bility reported by <i>twoPUCCH-F0-2-ConsecSymbols</i> . the UE supports one PUCCH format 0 or 2 and one PUCCH , 3 or 4 in the same slot for each HARQ-ACK codebook is o the capability reported by <i>onePUCCH-</i> <i>IShortFormat</i> . the UE supports two PUCCH transmissions in the same slot HARQ-ACK codebook not covered by <i>twoPUCCH-F0-2-</i> <i>Symbols</i> and <i>onePUCCH-LongAndShortFormat</i> is subject to bility reported by <i>twoPUCCH-AnyOthersInStot</i>				
NOTE 2: If a UE repor type1-r16, it slot-based ar reports twoH	bility reported by <i>twoPUCCH-AnyOthersInSlot</i> . ts both <i>multiPUCCH-r16</i> and <i>twoHARQ-ACK-Codebook</i> - can support two slot-based HARQ-ACK codebooks, and one nd one-sub-slot-based HARQ-ACK codebooks. If a UE <i>IARQ-ACK-Codebook-type1-r16</i> but does not report <i>I-r16</i> , it can only support two slot-based HARQ-ACK				

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

ul-CancellationCrossCarrier-r16 Indicates whether the UE supports UL cancellation scheme for cross-carrier	FS	No	N/A	N/A
comprised of the following functional components:				
- Supports group common DCI (i.e. DCI format 2_4) for cancellation indication				
on a different DL CC than that scheduling PUSCH or SRS;				
- UL cancellation for PUSCH. Cancellation is applied to each PUSCH				
repetition individually in case of PUSCH repetitions;				
- UL cancellation for SRS symbols that overlap with the cancelled symbols.				
ul-CancellationSelfCarrier-r16	FS	No	N/A	N/A
Indicates whether the UE supports UL cancellation scheme for self-carrier				
comprised of the following functional components:				
- Supports group common DCI (i.e. DCI format 2_4) for cancellation indication				
on the same DL CC as that scheduling PUSCH or SRS;				
- UL cancellation for PUSCH. Cancellation is applied to each PUSCH				
repetition individually in case of PUSCH repetitions;				
- UL cancellation for SRS symbols that overlap with the cancelled symbols.				
ul-FullPwrMode-r16	FS	No	N/A	N/A
Indicates the UE support of UL full power transmission mode of fullpower as				
specified in clause 7.1 of TS 38.213 [11]. If the UE indicates this capability the UE				
also indicates the support of codebook based PUSCH MIMO transmission using				
mimo-CB-PUSCH and the support of PUSCH codebook coherency subset using				
pusch-TransCoherence.				
ul-FullPwrMode1-r16	FS	No	N/A	N/A
Indicates the UE support of UL full power transmission mode of <i>fullpowerMode1</i> . If	10			1.07.0
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> .				
ul-FullPwrMode2-MaxSRS-ResinSet-r16	FS	No	N/A	N/A
Indicates the UE support of the maximum number of SRS resources in one SRS	го	INO	IN/A	IN/A
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.				
ul-FullPwrMode2-SRSConfig-diffNumSRSPorts-r16	FS	No	N/A	N/A
Indicates the UE supported SRS configuration with different number of antenna				
ports per SRS resource for uplink full power Mode 2 operation. The possible				
different number of antenna ports that can be configured for a SRS resource are as				
follow:				
- value <i>p1-2</i> means that each SRS resource can be configured with 1 port or 2				
ports				
- value <i>p1-4</i> means that each SRS resource can be configured with 1 port or 4				
ports				
- value p1-2-4 means that each SRS resource can be configured with 1 port or				
2 ports or 4 ports				
UE indicates support of this feature shall also indicate support of <i>ul-FullPwrMode2</i> -				
MaxSRS-ResInSet.				
NOTE: The voluce of 2 of for of 2 feet be used if ut full Dur Mode?				
NOTE: The values <i>p1-2</i> , <i>p1-4</i> or <i>p1-2-4</i> can be used if <i>ul-FullPwrMode2-</i>				
MaxSRS-ResInSet is reported as n2 or n4.				

Indicates the signalling co - twoP corre index [6] - fourF - fourF UE indicates MaxSRS-Re	Node2-TPMIGroup-r16 a UE supported TPMI group(s) which delivers full power. The capabil mprises the following values: orts-r16 indicates a 2-bit bitmap, where the leading / leftmost bit (bit 1) sponds to {TPMI index = 0}. The next bit (bit 1) corresponds to {TPM is = 1} and the TPMI index is as specified in Table 6.3.1.5-1 of TS 38.1 PortsNonCoherent-r16 indicates the TPMI groups {G0-3} PortsPartialCoherent-r16 indicates the TPMI groups {G0-6} is support of this feature shall also indicate support of <i>ul-FullPwrMode</i> <i>issInSet</i> . G0~G6 can be found in the table below:	0) 11 211	No	N/A	N/A
ID	TPMI groups				
GC					
G1	$\frac{1}{2}\begin{bmatrix}1\\0\\0\end{bmatrix},\frac{1}{2}\begin{bmatrix}0\\0\\1\end{bmatrix},\frac{1}{2}\begin{bmatrix}1&0\\0&0\\0&0\end{bmatrix},\frac{1}{2}\begin{bmatrix}1&0\\0&0\\0&1\\0&0\end{bmatrix},\frac{1}{2}\begin{bmatrix}1&0\\0&0\\0&1\\0&0\end{bmatrix},\frac{1}{2}\begin{bmatrix}1&0\\0&0\\0&1\\0&0\end{bmatrix},\frac{1}{2}\begin{bmatrix}1&0\\0&0\\0&1\\0&0\end{bmatrix},\frac{1}{2}\begin{bmatrix}1&0\\0&0\\0&1\\0&0\end{bmatrix},\frac{1}{2}\begin{bmatrix}1&0\\0&0\\0&1\\0&0\end{bmatrix},\frac{1}{2}\begin{bmatrix}1&0\\0&0\\0&1\\0&0\end{bmatrix},\frac{1}{2}\begin{bmatrix}1&0\\0&0\\0&0\\0&0\end{bmatrix},\frac{1}{2}\begin{bmatrix}1&0\\0&0\\0&0\\0&0\end{bmatrix},\frac{1}{2}\begin{bmatrix}1&0\\0&0\\0&0\\0&0\end{bmatrix},\frac{1}{2}\begin{bmatrix}1&0\\0&0\\0&0\\0&0\\0&0\end{bmatrix},\frac{1}{2}\begin{bmatrix}1&0\\0&0\\0&0\\0&0\\0&0\end{bmatrix},\frac{1}{2}\begin{bmatrix}1&0\\0&0\\0&0\\0&0\\0&0\\0&0\end{bmatrix},\frac{1}{2}\begin{bmatrix}1&0\\0&0\\0&0\\0&0\\0&0\\0&0\\0&0\end{bmatrix},\frac{1}{2}\begin{bmatrix}1&0\\0&0\\0&0\\0&0\\0&0\\0&0\\0&0\\0&0\\0&0\\0&0\\$				
G2	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$				
G3	$\frac{1}{2}\begin{bmatrix} 1 & 0 \\ 0 & 0 \\ 0 & 1 \\ 0 & 0 \end{bmatrix}, \frac{1}{2}\begin{bmatrix} 1 & 0 \\ 0 & 1 \\ 0 & 0 \end{bmatrix}, \frac{1}{2}\begin{bmatrix} 0 & 0 \\ 1 & 0 \\ 0 & 1 \end{bmatrix}, \frac{1}{2}\begin{bmatrix} 1 & 0 & 0 \\ 0 & 1 & 0 \\ 0 & 0 \end{bmatrix}, \frac{1}{2}\begin{bmatrix} 0 & 0 \\ 0 & 1 & 0 \\ 0 & 0 & 1 \\ 0 & 0 & 0 \end{bmatrix}$				
G4	$\frac{1}{2}\begin{bmatrix}1\\0\\1\end{bmatrix},\frac{1}{2}\begin{bmatrix}1\\0\\-1\end{bmatrix},\frac{1}{2}\begin{bmatrix}1\\0\\j\end{bmatrix},\frac{1}{2}\begin{bmatrix}1\\0\\j\end{bmatrix},\frac{1}{2}\begin{bmatrix}1\\0\\-j\\0\end{bmatrix},\frac{1}{2}\begin{bmatrix}1\\0\\-j\\0\end{bmatrix},\frac{1}{2}\begin{bmatrix}1\\0\\0\\0\end{bmatrix}$				
G5	$ \begin{bmatrix} 1\\ 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} 1\\ 0\\ 0\\ 0\\ 1\end{bmatrix}, \frac{1}{2}\begin{bmatrix} 1\\ 0\\ 0\\ 0\\ 0\end{bmatrix}, \frac{1}{2}\begin{bmatrix} 1\\ 0\\ 0\\ 0\\ 0\end{bmatrix}, \frac{1}{2}\begin{bmatrix} 0\\ 0\\ 1\\ 0\\ 0\end{bmatrix}, \frac{1}{2}\begin{bmatrix} 1\\ 0\\ 0\\ 0\\ 0\end{bmatrix}, \frac{1}{2}\begin{bmatrix} 1\\ 0\\ 0\end{bmatrix}, \frac{1}{2}\begin{bmatrix} 1\\ 0\\ 0\end{bmatrix}, \frac{1}{2}\begin{bmatrix} 1\\ 0\\ 0\end{bmatrix}, \frac{1}{2}\begin{bmatrix} 1\\ 0\\ 0\end{bmatrix}, \frac{1}{2}\begin{bmatrix} 1\\ 0\\ 0\end{bmatrix}, \frac{1}{2}\begin{bmatrix} 1\\ 0\\ 0\\ 0\end{bmatrix}, \frac{1}{2}\begin{bmatrix} 1\\ 0\\ 0\end{bmatrix}, \frac{1}$				
	$\frac{1}{2} \begin{bmatrix} 1\\0\\1\\0 \end{bmatrix}, \frac{1}{2} \begin{bmatrix} 1\\0\\-1\\0 \end{bmatrix}, \frac{1}{2} \begin{bmatrix} 1\\0\\-1\\0 \end{bmatrix}, \frac{1}{2} \begin{bmatrix} 0\\j\\0\\-1\\0 \end{bmatrix}, \frac{1}{2} \begin{bmatrix} 0\\0\\-j\\0 \end{bmatrix}, \frac{1}{2} \begin{bmatrix} 0\\0\\1\\0\\-1 \end{bmatrix}, \frac{1}{2} \begin{bmatrix} 0\\1\\0\\-1 \end{bmatrix}, \frac{1}{2} \begin{bmatrix} 0\\1\\0\\-1 \end{bmatrix}, \frac{1}{2} \begin{bmatrix} 0\\1\\0\\-j \end{bmatrix}, \frac{1}{2} \begin{bmatrix} 0\\1\\0\\0\\-j \end{bmatrix}, \frac{1}{2} \begin{bmatrix} 0\\1\\0\\0\\0\\-j \end{bmatrix}, \frac{1}{2} \begin{bmatrix} 0\\1\\0\\0\\0\\0\\0\\0\\0\\0\\0\\0\\0\\0\\0\\0\\0\\0\\0\\0$				
G6	$\begin{array}{c} 1 \\ \frac{1}{2} \begin{bmatrix} 1 & 0 \\ 0 & 1 \\ 0 & 0 \\ 0 & 0 \end{bmatrix}, \frac{1}{2} \begin{bmatrix} 1 & 0 \\ 0 & 0 \\ 0 & 1 \\ 0 & 0 \end{bmatrix}, \frac{1}{2} \begin{bmatrix} 1 & 0 \\ 0 & 0 \\ 0 & 1 \\ 0 & 0 \end{bmatrix}, \frac{1}{2} \begin{bmatrix} 0 & 0 \\ 1 & 0 \\ 0 & 1 \\ 0 & 0 \end{bmatrix}, \frac{1}{2} \begin{bmatrix} 0 & 0 \\ 1 & 0 \\ 0 & 1 \\ 0 & 0 \end{bmatrix}, \frac{1}{2} \begin{bmatrix} 0 & 0 \\ 0 & 0 \\ 1 & 0 \\ 0 & 1 \end{bmatrix}, \frac{1}{2} \begin{bmatrix} 0 & 0 \\ 0 & 0 \\ 1 & 0 \\ 0 & 1 \end{bmatrix}, \frac{1}{2} \begin{bmatrix} 0 & 0 \\ 0 & 0 \\ 1 & 0 \\ 0 & 1 \end{bmatrix}, \frac{1}{2} \begin{bmatrix} 1 & 0 & 0 \\ 0 & 0 \\ 0 & 0 \\ 0 & 1 \end{bmatrix}, \frac{1}{2} \begin{bmatrix} 0 & 0 \\ 0 & 0 \\ 0 & 0 \\ 0 & 1 \end{bmatrix}, \frac{1}{2} \begin{bmatrix} 0 & 0 \\ 0 & 0 \\ 0 & 0 \\ 0 & 1 \end{bmatrix}, \frac{1}{2} \begin{bmatrix} 0 & 0 \\ 0 & 0 \\ 0 & 0 \\ 0 & 1 \end{bmatrix}, \frac{1}{2} \begin{bmatrix} 0 & 0 \\ 0 & 0 \\ 0 & 0 \\ 0 & 0 \end{bmatrix}, \frac{1}{2} \begin{bmatrix} 0 & 0 \\ 0 & 0 \\ 0 & 0 \\ 0 & 1 \end{bmatrix}, \frac{1}{2} \begin{bmatrix} 0 & 0 \\ 0 & 0 \\ 0 & 0 \\ 0 & 0 \end{bmatrix}, \frac{1}{2} \begin{bmatrix} 0 & 0 \\ 0 & 0 \\ 0 & 0 \\ 0 & 0 \end{bmatrix}, \frac{1}{2} \begin{bmatrix} 0 & 0 \\ 0 & 0 \\ 0 & 0 \\ 0 & 0 \end{bmatrix}, \frac{1}{2} \begin{bmatrix} 0 & 0 \\ 0 & 0 \\ 0 & 0 \\ 0 & 0 \\ 0 & 0 \end{bmatrix}, \frac{1}{2} \begin{bmatrix} 0 & 0 \\ 0 \\$				
	/hen a full coherent UE operates in mode 2, it reports TPMIs the sam	ne			
NOTE 2: F b p	s a partial-coherent UE. or 4 port partial-coherent or full-coherent UE, UE can report: 2-port { t bitmap} and one of 4-port non-coherent {G0~G3} and one of 4-port artial-coherent {G0~G6} for 4 port non-coherent UE, UE can report: 2-port {2-bit bitmap} and o f 4-port non-coherent {G0~G3}	t			
F	Farbor 101-conterent (30~33) for 2 port UE, UE can report: 2-port {2-bit bitmap} UE that supports this feature must report at least one of the values.				

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

4.2.7.8 *FeatureSetUplinkPerCC* parameters

Definitions for parameters	Per	М	FDD- TDD DIFF	FR1- FR2 DIFF
<i>channelBW-90mhz</i> Indicates whether the UE supports the channel bandwidth of 90 MHz.	FSPC	CY	N/A	FR1 only
For FR1, the UE shall indicate support according to TS 38.101-1 [2], Table 5.3.5-1. <i>maxNumberMIMO-LayersCB-PUSCH</i> Defines supported maximum number of MIMO layers at the UE for PUSCH transmission with codebook precoding. UE indicating support of this feature shall	FSPC	No	N/A	N/A
also indicate support of PUSCH codebook coherency subset. maxNumberMIMO-LayersNonCB-PUSCH Defines supported maximum number of MIMO layers at the UE for PUSCH transmission using non-codebook precoding. UE supporting non-codebook based PUSCH transmission shall indicate support of maxNumberMIMO-LayersNonCB-PUSCH, maxNumberSRS-ResourcePerSet and maxNumberSimultaneousSRS-ResourceTx together.	FSPC	No	N/A	N/A
<i>maxNumberSimultaneousSRS-ResourceTx</i> Defines the maximum number of simultaneous transmitted SRS resources at one symbol for non-codebook based transmission to the UE.	FSPC	No	N/A	N/A
<i>maxNumberSRS-ResourcePerSet</i> Defines the maximum number of SRS resources per SRS resource set configured for codebook or non-codebook based transmission to the UE.	FSPC	No	N/A	N/A
 supportedBandwidthUL Indicates maximum UL channel bandwidth supported for a given SCS that UE supports within a single CC (and in case of DAPS handover for the source or target cell), which is defined in Table 5.3.5-1 in TS38.101-1 [2] for FR1 and Table 5.3.5-1 in TS 38.101-2 [3] for FR2. For FR1, all the bandwidths listed in TS38.101-1 Table 5.3.5-1 for each band shall be mandatory with a single CC unless indicated optional. For FR2, the set of mandatory CBW is 50, 100, 200 MHz. When this field is included in a band combination with a single band entry and a single CC entry (i.e. non-CA band combination), the UE shall indicate the maximum channel bandwidth for the band according to TS 38.101-1 [2] and TS 38.101-2 [3]. The UE may report a <i>supportedBandwidthUL</i> wider than the <i>channelBWs-UL</i>; this <i>supportedBandwidthUL</i> may not be included in the Table 5.3.5-1 of TS 38.101-1 [2]/TS 38.101-2[3] for the case that the UE is unable to report the actual supported bandwidth according to the Table 5.3.5-1 of TS 38.101-2[3]. For each band, RedCap UEs shall indicate its maximum channel bandwidth, which is 	FSPC	CY	N/A	N/A
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 network may ignore this capability and validate instead the channelBW-90mhz, the supportedBandwidthCombinationSet and the supportedBandwidthCombinationSetIntraENDC. For serving cell(s) with other channel bandwidths the network validates the channelBWs-UL, the supportedBandwidthCombinationSet, the supportedBandwidthCombinationSetIntraENDC, the asymmetricBandwidthCombinationSet (for a band supporting asymmetric channel bandwidth as defined in clause 5.3.6 of TS 38.101-1 [2]), supportedBandwidthUL and supportedMinBandwidthUL.				
supportedMinBandwidthUL-r17 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 TS38.101-1 [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. This field does not restrict the bandwidths configured for a single CC (i.e. non-CA case).	FSPC	CY	N/A	N/A

supportedModulationOrderUL	FSPC	No	N/A	N/A
Indicates the maximum supported modulation order to be applied for uplink in the				
carrier in the max data rate calculation as defined in 4.1.2. If included, the network				
may use a modulation order on this serving cell which is higher than the value				
indicated in this field as long as UE supports the modulation of higher value for				
uplink. If not included,				
- for FR1 and FR2, the network uses the modulation order signalled per band				
i.e. <i>pusch-256QAM</i> if signalled. If not signalled in a given band, the network				
shall use the modulation order 64QAM.				
In all the cases, it shall be ensured that the data rate does not exceed the max data				
rate (DataRate) and max data rate per CC (DataRateCC) according to TS 38.214				
[12].				
supportedSubCarrierSpacingUL	FSPC	CY	N/A	N/A
Defines the supported sub-carrier spacing for UL by the UE, as defined in 4.2-1 of				
TS 38.211 [6], indicating the UE supports simultaneous transmission with same or				
different numerologies in CA, or indicating the UE supports different numerologies				
on NR UL and SUL within one cell. Support of simultaneous transmissions with				
same numerology for intra-band NR CA including both contiguous and non-				
contiguous is mandatory with capability in both FR1 and FR2. Support of				
simultaneous transmission with two different numerologies between FR1 band(s)				
and FR2 band(s) in UL is mandatory with capability if UE supports inter-band NR				
CA including both FR1 band(s) and FR2 band(s). Support of simultaneous				
transmission with different numerologies in CA for other cases is optional.				

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4.2.7.9 *MRDC-Parameters*

Definitions for parameters	Per	M	FDD- TDD DIFF	FR1- FR2 DIFF
asyncIntraBandENDC Indicates whether the UE supports asynchronous FDD-FDD intra-band (NG)EN-DC with MRTD and MTTD as specified in clause 7.5 and 7.6 of TS 38.133 [5]. If asynchronous FDD-FDD intra-band (NG)EN-DC is not supported, the UE supports only synchronous FDD-FDD intra-band (NG)EN-DC.	BC	No	FDD only	FR1 only
 This capability applies to: Intra-band (NG)EN-DC combination without additional inter-band NR and LTE CA component; Intra-band (NG)EN-DC combination supporting both UL and DL intra-band (NG)EN-DC parts with additional inter-band NR/LTE CA component; Intra-band (NG)EN-DC combination without supporting UL in both the bands of the intra-band (NG)EN-DC UL part; Inter-band (NG)EN-DC combination, where the frequency range of the E-UTRA band is a subset of the frequency range of the NR band (as specified in Table 5.5B.4.1-1 of TS 38.101-3 [4]). If this capability is included in an "Intra-band (NG)EN-DC combination supporting both UL and DL intra-band (NG)EN-DC parts with additional inter-band NR/LTE CA 				
component" or in an "Intra-band (NG)EN-DC combination without supporting UL in both the bands of the intra-band (NG)EN-DC UL part", this capability applies to the intra-band (NG)EN-DC BC part.		NI-		
<i>condPSCellAdditionENDC-r17</i> 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
 This capability applies to: Intra-band (NG)EN-DC/NE-DC combination without additional inter-band NR and LTE CA component; Intra-band (NG)EN-DC/NE-DC combination supporting both UL and DL intraband (NG)EN-DC/NE-DC parts with additional inter-band NR/LTE CA component; Inter-band (NG)EN-DC/NE-DC combination, where the frequency range of the E-UTRA band is a subset of the frequency range of the NR band (as specified in Table 5.5B.4.1-1 of TS 38.101-3 [4]). 				
If this capability is included in an "Intra-band (NG)EN-DC/NE-DC combination supporting both UL and DL intra-band (NG)EN-DC/NE-DC parts with additional inter-band NR/LTE CA component", this capability applies to the intra-band (NG)EN-DC/NE-DC BC part.				
<i>dynamicPowerSharingENDC</i> Indicates whether the UE supports dynamic (NG)EN-DC power sharing between NR FR1 carriers and the LTE carriers. If the UE supports this capability the UE supports the dynamic power sharing behaviour as specified in clause 7 of TS 38.213 [11]. In this release of the specification, the UE supporting (NG)EN-DC shall set this field to <i>supported</i> .	BC	Yes	N/A	FR1 only
<i>dynamicPowerSharingNEDC</i> Indicates whether the UE supports dynamic NE-DC power sharing between NR FR1 carriers and the LTE carriers. If the UE supports this capability, the UE supports the dynamic power sharing behavior as specified in clause 7 of TS 38.213 [11].	BC	Yes	N/A	FR1 only
<i>intraBandENDC-Support</i> Indicates whether the UE supports intra-band (NG)EN-DC with only non-contiguous spectrum, or with both contiguous and non-contiguous spectrum for the (NG)EN-DC combination as specified in TS 38.101-3 [4]. If the UE does not include this field for an intra-band (NG)EN-DC combination the UE only supports the contiguous spectrum for the intra-band (NG)EN-DC combination.	BC	No	N/A	N/A

interBandContiguousMRDC	BC	CY	N/A	N/A
Indicates for an inter-band (NG)EN-DC/NE-DC combination, where the frequency				
range of the E-UTRA band is a subset of the frequency range of the NR band (as				
specified in Table 5.5B.4.1-1 of TS 38.101-3 [4]), that the UE supports intra-band contiguous (NG)EN-DC/NE-DC requirements (see TS 38.101-3 [4]). If the field is				
absent for such an inter-band (NG)EN-DC/NE-DC combination, the UE supports				
intra-band non-contiguous (NG)EN-DC/NE-DC combination, the OE supports				
interBandMRDC-WithOverlapDL-Bands-r16	BC	No	N/A	FR1
Indicates the UE supports FDD-FDD or TDD-TDD inter-band (NG)EN-DC/NE-DC			1.07.1	only
operation with overlapping or partially overlapping DL bands with an (NG)EN-				0,
DC/NE-DC MRTD according to clause 7.6.2/7.6.5 in 38.133 [5] and inter-band RF				
requirements (i.e Type 2 UE). If the capability is not reported, the UE supports FDD-				
FDD or TDD-TDD inter-band operation with overlapping or partially DL bands with				
(NG)EN-DC/NE-DC MRTD<3us according to clause 7.6.3 in 38.133 [5] and intra-				
band RF requirements (i.e. Type 1 UE).				
maxUplinkDutyCycle-interBandENDC-FDD-TDD-PC2-r16	BC	No	N/A	FR1
Indicates the maximum percentage of symbols during a certain evaluation period				only
that can be scheduled for NR uplink transmission and EUTRA FDD uplink				
transmission so as to ensure compliance with applicable electromagnetic energy				
absorption requirements provided by regulatory bodies. This field is only applicable				
for inter-band FDD+TDD EN-DC power class 2 UE as specified in TS 38.101-3 [4].				
This capability signalling comprises of <i>maxUplinkDutyCycle-FDD-TDD-EN-DC1</i> and				
maxUplinkDutyCycle-FDD-TDD-EN-DC2 which indicate the maxUplinkDutyCycle				
capability of NR band corresponding to different LTE reference configurations as				
described in TS 38.101-3 [4], clause 6.2B.1.3. Value n30 corresponds to 30%, value				
n40 corresponds to 40% and so on. maxUplinkDutyCycle-interBandENDC-TDD-PC2-r16	BC	No	TDD	FR1
Indicates the maximum percentage of symbols during a certain evaluation period	DC		only	only
that can be scheduled for NR uplink transmission under different EUTRA TDD			Only	Only
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.				
scg-ActivationDeactivationENDC-r17	BC	No	N/A	N/A
1		1		
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				
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				
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,				
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				
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.				
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		No	N/A	N/A
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 Indicates whether the UE supports activation (with or without RACH) and		No	N/A	N/A
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 Indicates whether the UE supports activation (with or without RACH) and deactivation on SCG in EN-DC, upon reception of an <i>RRCReconfiguration</i> included		No	N/A	N/A
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 Indicates whether the UE supports activation (with or without RACH) and deactivation on SCG in EN-DC, upon reception of an <i>RRCReconfiguration</i> included in an <i>RRCConnectionResume</i> message, as specified in TS 38.331 [9] and TS		No	N/A	N/A
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 Indicates whether the UE supports activation (with or without RACH) and deactivation on SCG in EN-DC, 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], A UE supporting this feature shall indicate support of EN-DC and		No	N/A	N/A
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 Indicates whether the UE supports activation (with or without RACH) and deactivation on SCG in EN-DC, 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], A UE supporting this feature shall indicate support of EN-DC and support of <i>resumeWithSCG-Config-r16</i> as specified in TS 36.331 [17]. For the UE		No	N/A	N/A
 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 Indicates whether the UE supports activation (with or without RACH) and deactivation on SCG in EN-DC, 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], A UE supporting this feature shall indicate support of EN-DC and 		No	N/A	N/A

<i>simultaneousRxTxInterBandENDC</i> Indicates whether the UE supports simultaneous transmission and reception in TDD-TDD and TDD-FDD inter-band (NG)EN-DC/NE-DC. It is mandatory for certain TDD-FDD and TDD-TDD band combinations defined in TS 38.101-3 [4].	BC	CY	N/A	N/A
 Tbb-r bD and Tbb-rbb band combinations defined in TS 38.101-5 [4]. This capability applies to: TDD-TDD and TDD-FDD Intra-band (NG)EN-DC/NE-DC combination supporting both UL and DL intra-band (NG)EN-DC/NE-DC parts with additional inter-band NR/LTE CA component; TDD-TDD and TDD-FDD Intra-band (NG)EN-DC/NE-DC combination without supporting UL in both the bands of the intra-band (NG)EN-DC/NE-DC/NE-DC/NE-DC/NE-DC/NE-DC UL part; TDD-TDD and TDD-FDD Inter-band (NG)EN-DC/NE-DC combination without Intra-band component. 				
This capability is not applicable to the inter-band (NG)EN-DC/NE-DC combination, where the frequency range of the E-UTRA band is a subset of the frequency range of the NR band (as specified in Table 5.5B.4.1-1 of TS 38.101-3 [4]).				
 simultaneousRxTxInterBandENDCPerBandPair Indicates whether the UE supports simultaneous transmission and reception in TDD-TDD and TDD-FDD inter-band (NG)EN-DC/NE-DC for each band pair in the band combination. Encoded in the same manner as <i>simultaneousRxTxInterBandCAPerBandPair</i>. The UE does not include this field if the UE supports simultaneous transmission and reception for all band pairs in the band combination (in which case <i>simultaneousRxTxInterBandENDC</i> is included) or does not support for any band pair in the band combination. The UE shall consistently set the bits which 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]). 	BC	No	N/A	N/A
singleUL-HARQ-offsetTDD-PCell-r16 Indicate support of HARQ offset for single UL transmission in synchronous (NG)EN- DC with LTE TDD PCell. UE indicates support of this feature shall indicate support of tdm-restrictionTDD-endc-r16.	BC	No	N/A	N/A
singleUL-Transmission Indicates that the UE does not support simultaneous UL transmissions as defined in TS 38.101-3 [4]. The UE may only include this field for certain band combinations defined in TS 38.101-3 [4]. If included for a particular band combination, the field applies to all fallback band combinations of this band combination that are defined in TS 38.101-3 [4] as being allowed to include this field and does not apply to any other fallback band combinations defined in TS 38.101-3 [4]. The UE shall include this field for band combinations containing a band pair for which single UL transmission is the only specified operation mode in TS 38.101-3 [4] and if the UE supports UL on both bands. Otherwise, this feature is optional.	BC	FD	N/A	N/A
<i>spCellPlacement</i> Indicates whether the UE supports a SpCell on FR1-FDD, FR1-TDD and/or FR2- TDD depending on which additional SCells of other frequency range(s) / duplex mode(s) are configured. It is applicable to SCG of (NG)EN-DC and MCG of NE-DC, where UL is configured on more than one of FR1-FDD, FR1-TDD and FR2-TDD in a cell group. If not included, the UE supports SpCell on any serving cell with UL in supported band combinations.	UE	No	N/A	N/A
<i>tdm-Pattern</i> Indicates whether the UE supports the <i>tdm-PatternConfig</i> for <i>single UL-transmission</i> associated functionality, as specified in TS 36.331 [17]. Support is conditionally mandatory in (NG)EN-DC for UEs that do not support dynamicPowerSharingENDC and for UEs that indicate single UL transmission for any (NG)EN-DC BC. Support is conditionally mandatory in NE-DC for UEs that do not support dynamicPowerSharingNEDC and for UEs that indicate single UL transmission for any NE-DC BC. The feature is optional otherwise.	BC	CY	N/A	FR1 only
<i>tdm-restrictionDualTX-FDD-endc-r16</i> Indicates whether the UE supports TDM restriction to LTE FDD PCell in (NG)EN- DC for dual UL transmission operation when <i>tdm-PatternConfig2-R16</i> is configured, as specified in TS 36.331 [17]. UE indicates support this feature shall also indicate support of <i>tdm-Pattern</i> .	BC	No	N/A	FR1 only

	D O	N		ED 4
tdm-restrictionFDD-endc-r16	BC	No	N/A	FR1
Indicates whether the UE supports TDM restriction to LTE FDD PCell for single UL-				only
transmission associated functionality when <i>tdm-PatternConfig2-R16</i> is configured,				
as specified in TS 36.331 [17]. This is applicable for FDD (NG)EN-DC. UE indicates				
support this feature shall also indicate support of tdm-Pattern.				
tdm-restrictionTDD-endc-r16	BC	No	N/A	FR1
Indicates whether the UE supports TDM restriction to LTE TDD PCell for single UL-				only
transmission associated functionality when <i>tdm-PatternConfig2-R16</i> is configured,				
as specified in TS 36.331 [17]. This is applicable for synchronous TDD-TDD				
(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 capability applies to:				
- Intra-band contiguous (NG)EN-DC combination without additional inter-band				
NR and LTE CA component;				
 Intra-band contiguous (NG)EN-DC combination supporting both UL and DL intra-band (NG)EN DC parts with additional inter band ND() TE CA 				
intra-band (NG)EN-DC parts with additional inter-band NR/LTE CA				
component;				
- Inter-band (NG)EN-DC combination, where the frequency range of the E-				
UTRA band is a subset of the frequency range of the NR band (as specified				
in Table 5.5B.4.1-1 of TS 38.101-3 [4]).				
If this capability is included in an "Intra-band contiguous (NG)EN-DC combination				
supporting both UL and DL intra-band (NG)EN-DC parts with additional inter-band				
NR/LTE CA component", this capability applies to the intra-band (NG)EN-DC BC				
part.				

4.2.7.10 *Phy-Parameters*

Definitions for parameters	Per	М	FDD- TDD DIFF	FR1- FR2 DIFF
absoluteTPC-Command Indicates whether the UE supports absolute TPC command mode.	UE	No	No	Yes
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 supports 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
<i>bwp-SwitchingDelay</i> Defines whether the UE supports DCI and timer based active BWP switching delay type1 or type2 specified in clause 8.6.2 of TS 38.133 [5]. It is mandatory to report type 1 or type 2. This capability is not applicable to IAB-MT.	UE	Yes	No	No
 bwp-SwitchingMultiCCs-r16 Indicates whether the UE supports incremental delay for DCI and timer based active BWP switching on multiple CCs simultaneously as specified in TS 38.133 [5]. The capability signalling comprises of the following: type1-r16 indicates the delay value for type 1 BWP switching delay and has values of {100us, 200us} type2-r16 indicates the delay value for type 2 BWP switching delay and has values of {200us, 400us, 800us, 1000us} The UE indicating support of this feature shall also support bwp-SwitchingDelay, bwp-SameNumerology and/or bwp-DiffNumerology. It is mandatory to report either type1-r16 or type2-r16 for a UE which supports CA. 	UE	CY	No	No
 bwp-SwitchingMultiDormancyCCs-r16 Indicates whether the UE supports incremental delay for BWP switch processing on additional SCells in DCI based simultaneous dormant BWP switching on multiple SCells as specified in TS 38.133 [5]. The capability signalling comprises of the following: type1-r16 indicates the delay value for type 1 BWP switching delay and has values of {100us, 200us} type2-r16 indicates the delay value for type 2 BWP switching delay and has values of {200us, 400us, 800us, 1000us} The UE indicating support of this feature shall also support 	UE	No	No	No
scellDormancyWithinActiveTime-r16 or scellDormancyOutsideActiveTime-r16. cbg-FlushIndication-DL Indicates whether the UE supports CBG-based (re)transmission for DL using CBG flushing out information (CBGFI) as specified in TS 38.214 [12].	UE	No	No	No
cbg-TransIndication-DL Indicates whether the UE supports CBG-based (re)transmission for DL using CBG transmission information (CBGTI) as specified in TS 38.214 [12].	UE	No	No	No
<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
 cbg-TransinOrderPUSCH-UL-r16 Indicates whether the UE supports CBG-based re-transmission(s) of a TB using CBG transmission information (CBGTI) as specified in TS 38.214 [12] in the following two cases (both are considered as in-order CBG-based retransmission(s)): 1. if the initial PUSCH transmission was not cancelled due to gNB scheduling/indication/configuration; and 2. if the initial PUSCH transmission was cancelled due to gNB scheduling/indication/configuration and the following condition is satisfied: the UE is scheduled for a re-transmission of a CBG #N in a given TB when CBG #N-1 has been transmitted before or is scheduled in the same UL grant that includes CBG#N. 	UE	No	No	No
cli-RSSI-FDM-DL-r16 Indicates whether serving cell DL signal/channel (e.g. PDSCH/PDCCH) and CLI- RSSI FDMed reception is supported as specified in TS 38.215 [13].	UE	No	TDD only	Yes
<i>cli-SRS-RSRP-FDM-DL-r16</i> Indicates whether serving cell DL signal/channel (e.g. PDSCH/PDCCH) and SRS- RSRP FDMed reception is supported as specified in TS 38.215 [13].	UE	No	TDD only	Yes

<i>codebookVariantsList-r16</i> Indicates the list of <i>SupportedCSI-RS-Resource</i> applicable to the codebook types supported by the UE.	UE	No	No	No
configuredUL-GrantType1 Indicates whether the UE supports Type 1 PUSCH transmissions with configured grant as specified in TS 38.214 [12] with UL-TWG-repK value of one. This applies only to non-shared spectrum channel access. For shared spectrum channel access, <i>configuredUL-GrantType1-r16</i> applies.	UE	No	No	No
configuredUL-GrantType2 Indicates whether the UE supports Type 2 PUSCH transmissions with configured grant as specified in TS 38.214 [12] with UL-TWG-repK value of one. This applies only to non-shared spectrum channel access. For shared spectrum channel access, <i>configuredUL-GrantType2-r16</i> applies.	UE	No	No	No
cqi-TableAlt Indicates whether UE supports the CQI table with target BLER of 10^-5.	UE	No	No	Yes
<i>cri-RI-CQI-WithoutNon-PMI-PortInd-r16</i> Indicates whether UE supports <i>CSI-ReportConfig</i> with the higher layer parameter <i>reportQuantity</i> set to ' <i>cri-RI-CQ</i> ' and the higher layer parameter <i>non-PMI-PortIndication</i> is not configured. UE indicating support of this feature shall also indicate support of <i>csi</i> -	UE	No	No	Yes
ReportFramework. crossSlotScheduling-r16 Indicates whether UE supports dynamic indication of applicable minimum scheduling restriction by DCI format 0_1 and 1_1, and the minimum scheduling offset for PDSCH and aperiodic CSI-RS triggering offset (K0), and PUSCH (K2), and the extended value range for aperiodic CSI-RS triggering offset. Support of this feature is reported for licensed and unlicensed bands, respectively. When this field is reported, either of <i>non-SharedSpectrumChAccess-r16</i> or <i>sharedSpectrumChAccess-r16</i> shall be reported, at least.	UE	No	No	No
<i>csi-ReportFramework</i> See <i>csi-ReportFramework</i> in 4.2.7.2. For a band combination comprised of FR1 and FR2 bands, this parameter, if present, limits the corresponding parameter in <i>MIMO-ParametersPerBand</i> .	UE	Yes	No	N/A
<i>csi-ReportFrameworkExt-r16</i> See <i>csi-ReportFramework</i> in 4.2.7.2. For a band combination comprised of FR1 and FR2 bands, this parameter, if present, limits the corresponding parameter in <i>MIMO-ParametersPerBand</i> .	UE	No	No	N/A
<i>csi-ReportWithoutCQI</i> Indicates whether UE supports CSI reporting with report quantity set to 'CRI/RI/i1' as defined in clause 5.2.1.4 of TS 38.214 [12].	UE	No	No	Yes
<i>csi-ReportWithoutPMI</i> Indicates whether UE supports CSI reporting with report quantity set to 'CRI/RI/CQI' as defined in clause 5.2.1.4 of TS 38.214 [12].	UE	No	No	Yes
<i>csi-RS-CFRA-ForHO</i> Indicates whether the UE can perform reconfiguration with sync using a contention free random access with 4-step RA type on PRACH resources that are associated with CSI-RS resources of the target cell. This applies only to non-shared spectrum channel access. For shared spectrum channel access, <i>csi-RS-CFRA-ForHO-r16</i> applies.	UE	No	No	No
<i>csi-RS-IM-ReceptionForFeedback</i> See <i>csi-RS-IM-ReceptionForFeedback</i> in 4.2.7.2. For a band combination comprised of FR1 and FR2 bands, this parameter, if present, limits the corresponding parameter in <i>MIMO-ParametersPerBand</i> .	UE	Yes	No	N/A
<i>csi-RS-ProcFrameworkForSRS</i> See <i>csi-RS-ProcFrameworkForSRS</i> in 4.2.7.2. For a band combination comprised of FR1 and FR2 bands, this parameter, if present, limits the corresponding parameter in <i>MIMO-ParametersPerBand</i> .	UE	No	No	N/A
csi-TriggerStateNon-ActiveBWP-r16 Indicates whether the UE supports CSI trigger states containing non-active BWP.	UE	No	No	No
<i>dci-DL-PriorityIndicator-r16</i> Indicates whether the UE supports the priority indicator field configured in DCI formats 1_1 and 1_2 in a BWP when configured to monitor both DCI formats 1_1 and 1_2 in the BWP.	UE	No	No	No
<i>dci-Format1-2And0-2-r16</i> Indicates whether the UE supports monitoring DCI format 1_2 for DL scheduling and monitoring DCI format 0_2 for UL scheduling.	UE	No	No	No

ticates the UE support of default spatial relation and pathloss reference RS for dicated PUCCH/SRS and PUSCH. The UE indicating support of this also licates the capabilities of supported SRS resources and maximum supported atial relations for the supported FR2 bands using <i>supportedSRS-Resources</i> and <i>axNumberConfiguredSpatialRelations</i> . 64QAM-MCS-TableAlt licates whether the UE supports the alternative 64QAM MCS table for PDSCH. SchedulingOffset-PDSCH-TypeA licates whether the UE supports DL scheduling slot offset (K0) greater than 0 for OSCH mapping type A. SchedulingOffset-PDSCH-TypeB licates whether the UE supports DL scheduling slot offset (K0) greater than 0 for OSCH mapping type B. wmlinkSPS licates whether the UE supports PDSCH reception based on semi-persistent neduling. One SPS configuration is supported per cell group. This applies only to n-shared spectrum channel access. For shared spectrum channel access, <i>wmlinkSPS-r16</i> applies. namicBetaOffsetInd-HARQ-ACK-CSI licates whether the UE supports indicating beta-offset (UCI repetition factor onto USCH) for HARQ-ACK and/or CSI via DCI among the RRC configured beta- sets. namicHARQ-ACK-Codebook	UE UE UE UE	No No Yes Yes No	No No Yes Yes	FR2 only Yes Yes
d 0_2 in the BWP. A UE supporting this feature shall also support <i>ul-IntraUE- ix-r16</i> and <i>dci-Format1-2And0-2-r16</i> . faultSpatialRelationPathlossRS-r16 licates the UE support of default spatial relation and pathloss reference RS for dicated PUCCH/SRS and PUSCH. The UE indicating support of this also licates the capabilities of supported SRS resources and maximum supported atial relations for the supported FR2 bands using supportedSRS-Resources and axNumberConfiguredSpatialRelations. 64QAM-MCS-TableAlt licates whether the UE supports the alternative 64QAM MCS table for PDSCH. SchedulingOffset-PDSCH-TypeA licates whether the UE supports DL scheduling slot offset (K0) greater than 0 for DSCH mapping type A. SchedulingOffset-PDSCH-TypeB licates whether the UE supports DL scheduling slot offset (K0) greater than 0 for DSCH mapping type B. wnlinkSPS licates whether the UE supports PDSCH reception based on semi-persistent neduling. One SPS configuration is supported per cell group. This applies only to n-shared spectrum channel access. For shared spectrum channel access, wnlinkSPS-r16 applies. namicBetaOffsetInd-HARQ-ACK-CSI licates whether the UE supports indicating beta-offset (UCI repetition factor onto USCH) for HARQ-ACK and/or CSI via DCI among the RRC configured beta- sets. namicHARQ-ACK-Codebook	UE UE UE	No Yes Yes	No Yes Yes	only Yes Yes Yes
Inx-r16 and dci-Format1-2And0-2-r16. faultSpatialRelationPathlossRS-r16 licates the UE support of default spatial relation and pathloss reference RS for dicated PUCCH/SRS and PUSCH. The UE indicating support of this also licates the capabilities of supported SRS resources and maximum supported atial relations for the supported FR2 bands using supportedSRS-Resources and axNumberConfiguredSpatialRelations. 64QAM-MCS-TableAlt licates whether the UE supports the alternative 64QAM MCS table for PDSCH. SchedulingOffset-PDSCH-TypeA licates whether the UE supports DL scheduling slot offset (K0) greater than 0 for DSCH mapping type A. SchedulingOffset-PDSCH-TypeB licates whether the UE supports PDSCH reception based on semi-persistent neduling. One SPS configuration is supported per cell group. This applies only to n-shared spectrum channel access. For shared spectrum channel access, wnlinkSPS-r16 applies. mamicBetaOffsetInd-HARQ-ACK-CSI licates whether the UE supports indicating beta-offset (UCI repetition factor onto DSCH) for HARQ-ACK and/or CSI via DCI among the RRC configured beta-sets.	UE UE UE	No Yes Yes	No Yes Yes	only Yes Yes Yes
faultSpatialRelationPathlossRS-r16 licates the UE support of default spatial relation and pathloss reference RS for dicated PUCCH/SRS and PUSCH. The UE indicating support of this also licates the capabilities of supported SRS resources and maximum supported atial relations for the supported FR2 bands using supportedSRS-Resources and axNumberConfiguredSpatialRelations. 64QAM-MCS-TableAlt licates whether the UE supports the alternative 64QAM MCS table for PDSCH. SchedulingOffset-PDSCH-TypeA licates whether the UE supports DL scheduling slot offset (K0) greater than 0 for DSCH mapping type A. SchedulingOffset-PDSCH-TypeB licates whether the UE supports DL scheduling slot offset (K0) greater than 0 for DSCH mapping type B. wmlinkSPS licates whether the UE supports PDSCH reception based on semi-persistent neduling. One SPS configuration is supported per cell group. This applies only to n-shared spectrum channel access. For shared spectrum channel access, wmlinkSPS-r16 applies. namicBetaOffsetInd-HARQ-ACK-CSI licates whether the UE supports indicating beta-offset (UCI repetition factor onto ISCH) for HARQ-ACK and/or CSI via DCI among the RRC configured beta-sets. namicHARQ-ACK-Codebook	UE UE UE	No Yes Yes	No Yes Yes	Yes Yes Yes
ticates the UE support of default spatial relation and pathloss reference RS for dicated PUCCH/SRS and PUSCH. The UE indicating support of this also licates the capabilities of supported SRS resources and maximum supported atial relations for the supported FR2 bands using <i>supportedSRS-Resources</i> and <i>axNumberConfiguredSpatialRelations</i> . 64QAM-MCS-TableAlt dicates whether the UE supports the alternative 64QAM MCS table for PDSCH. SchedulingOffset-PDSCH-TypeA dicates whether the UE supports DL scheduling slot offset (K0) greater than 0 for DSCH mapping type A. SchedulingOffset-PDSCH-TypeB dicates whether the UE supports DL scheduling slot offset (K0) greater than 0 for DSCH mapping type B. wmlinkSPS licates whether the UE supports PDSCH reception based on semi-persistent neduling. One SPS configuration is supported per cell group. This applies only to n-shared spectrum channel access. For shared spectrum channel access, <i>wmlinkSPS-r16</i> applies. namicBetaOffsetInd-HARQ-ACK-CSI licates whether the UE supports indicating beta-offset (UCI repetition factor onto USCH) for HARQ-ACK and/or CSI via DCI among the RRC configured beta- sets. namicHARQ-ACK-Codebook	UE UE UE	No Yes Yes	No Yes Yes	only Yes Yes Yes
dicated PUCCH/SRS and PUSCH. The UE indicating support of this also licates the capabilities of supported SRS resources and maximum supported atial relations for the supported FR2 bands using <i>supportedSRS-Resources</i> and <i>axNumberConfiguredSpatialRelations</i> . 64QAM-MCS-TableAIt licates whether the UE supports the alternative 64QAM MCS table for PDSCH. SchedulingOffset-PDSCH-TypeA licates whether the UE supports DL scheduling slot offset (K0) greater than 0 for OSCH mapping type A. SchedulingOffset-PDSCH-TypeB licates whether the UE supports DL scheduling slot offset (K0) greater than 0 for OSCH mapping type B. wmlinkSPS licates whether the UE supports PDSCH reception based on semi-persistent neduling. One SPS configuration is supported per cell group. This applies only to n-shared spectrum channel access. For shared spectrum channel access, <i>wnlinkSPS-r16</i> applies. namicBetaOffsetInd-HARQ-ACK-CSI licates whether the UE supports indicating beta-offset (UCI repetition factor onto ISCH) for HARQ-ACK and/or CSI via DCI among the RRC configured beta- sets. namicHARQ-ACK-Codebook	UE UE	Yes	Yes	Yes Yes Yes
licates the capabilities of supported SRS resources and maximum supported atial relations for the supported FR2 bands using <i>supportedSRS-Resources</i> and <i>axNumberConfiguredSpatialRelations</i> . 64QAM-MCS-TableAlt licates whether the UE supports the alternative 64QAM MCS table for PDSCH. SchedulingOffset-PDSCH-TypeA licates whether the UE supports DL scheduling slot offset (K0) greater than 0 for OSCH mapping type A. SchedulingOffset-PDSCH-TypeB licates whether the UE supports DL scheduling slot offset (K0) greater than 0 for OSCH mapping type B. wmlinkSPS licates whether the UE supports PDSCH reception based on semi-persistent neduling. One SPS configuration is supported per cell group. This applies only to n-shared spectrum channel access. For shared spectrum channel access, wnlinkSPS-r16 applies. mamicBetaOffsetInd-HARQ-ACK-CSI licates whether the UE supports indicating beta-offset (UCI repetition factor onto ISCH) for HARQ-ACK and/or CSI via DCI among the RRC configured beta- sets. mamicHARQ-ACK-Codebook	UE UE	Yes	Yes	Yes
atial relations for the supported FR2 bands using <i>supportedSRS-Resources</i> and axNumberConfiguredSpatialRelations. 64QAM-MCS-TableAlt dicates whether the UE supports the alternative 64QAM MCS table for PDSCH. SchedulingOffset-PDSCH-TypeA licates whether the UE supports DL scheduling slot offset (K0) greater than 0 for SCH mapping type A. SchedulingOffset-PDSCH-TypeB licates whether the UE supports DL scheduling slot offset (K0) greater than 0 for SCH mapping type B. wnlinkSPS licates whether the UE supports PDSCH reception based on semi-persistent heduling. One SPS configuration is supported per cell group. This applies only to n-shared spectrum channel access. For shared spectrum channel access, wnlinkSPS-r16 applies. namicBetaOffsetInd-HARQ-ACK-CSI licates whether the UE supports indicating beta-offset (UCI repetition factor onto USCH) for HARQ-ACK and/or CSI via DCI among the RRC configured beta- sets. namicHARQ-ACK-Codebook	UE UE	Yes	Yes	Yes
axNumberConfiguredSpatialRelations. 64QAM-MCS-TableAlt dicates whether the UE supports the alternative 64QAM MCS table for PDSCH. SchedulingOffset-PDSCH-TypeA dicates whether the UE supports DL scheduling slot offset (K0) greater than 0 for DSCH mapping type A. SchedulingOffset-PDSCH-TypeB dicates whether the UE supports DL scheduling slot offset (K0) greater than 0 for DSCH mapping type B. wmlinkSPS dicates whether the UE supports PDSCH reception based on semi-persistent needuling. One SPS configuration is supported per cell group. This applies only to n-shared spectrum channel access. For shared spectrum channel access, wnlinkSPS-r16 applies. namicBetaOffsetInd-HARQ-ACK-CSI dicates whether the UE supports indicating beta-offset (UCI repetition factor onto USCH) for HARQ-ACK and/or CSI via DCI among the RRC configured beta-sets. mamicHARQ-ACK-Codebook	UE UE	Yes	Yes	Yes
64QAM-MCS-TableAlt licates whether the UE supports the alternative 64QAM MCS table for PDSCH. SchedulingOffset-PDSCH-TypeA licates whether the UE supports DL scheduling slot offset (K0) greater than 0 for DSCH mapping type A. SchedulingOffset-PDSCH-TypeB licates whether the UE supports DL scheduling slot offset (K0) greater than 0 for DSCH mapping type B. wmlinkSPS licates whether the UE supports PDSCH reception based on semi-persistent meduling. One SPS configuration is supported per cell group. This applies only to n-shared spectrum channel access. For shared spectrum channel access, wnlinkSPS-r16 applies. namicBetaOffsetInd-HARQ-ACK-CSI licates whether the UE supports indicating beta-offset (UCI repetition factor onto USCH) for HARQ-ACK and/or CSI via DCI among the RRC configured beta-sets. mamicHARQ-ACK-Codebook	UE UE	Yes	Yes	Yes
Iticates whether the UE supports the alternative 64QAM MCS table for PDSCH. SchedulingOffset-PDSCH-TypeA Iticates whether the UE supports DL scheduling slot offset (K0) greater than 0 for DSCH mapping type A. SchedulingOffset-PDSCH-TypeB Iticates whether the UE supports DL scheduling slot offset (K0) greater than 0 for DSCH mapping type B. wmlinkSPS Iticates whether the UE supports PDSCH reception based on semi-persistent neduling. One SPS configuration is supported per cell group. This applies only to n-shared spectrum channel access. For shared spectrum channel access, wnlinkSPS-r16 applies. mamicBetaOffsetInd-HARQ-ACK-CSI Iticates whether the UE supports indicating beta-offset (UCI repetition factor onto USCH) for HARQ-ACK and/or CSI via DCI among the RRC configured beta-sets. mamicHARQ-ACK-Codebook	UE UE	Yes	Yes	Yes
SchedulingOffset-PDSCH-TypeA dicates whether the UE supports DL scheduling slot offset (K0) greater than 0 for SChedulingOffset-PDSCH-TypeB dicates whether the UE supports DL scheduling slot offset (K0) greater than 0 for SCH mapping type B. wmlinkSPS dicates whether the UE supports PDSCH reception based on semi-persistent neduling. One SPS configuration is supported per cell group. This applies only to n-shared spectrum channel access. For shared spectrum channel access, wmlinkSPS-r16 applies. namicBetaOffsetInd-HARQ-ACK-CSI dicates whether the UE supports indicating beta-offset (UCI repetition factor onto ISCH) for HARQ-ACK and/or CSI via DCI among the RRC configured beta-sets. mamicHARQ-ACK-Codebook	UE	Yes	Yes	Yes
ticates whether the UE supports DL scheduling slot offset (K0) greater than 0 for SCH mapping type A. SchedulingOffset-PDSCH-TypeB ticates whether the UE supports DL scheduling slot offset (K0) greater than 0 for SCH mapping type B. wmlinkSPS ticates whether the UE supports PDSCH reception based on semi-persistent neduling. One SPS configuration is supported per cell group. This applies only to n-shared spectrum channel access. For shared spectrum channel access, wnlinkSPS-r16 applies. mamicBetaOffsetInd-HARQ-ACK-CSI ticates whether the UE supports indicating beta-offset (UCI repetition factor onto ISCH) for HARQ-ACK and/or CSI via DCI among the RRC configured beta- sets. mamicHARQ-ACK-Codebook	UE	Yes	Yes	Yes
SCH mapping type A. SchedulingOffset-PDSCH-TypeB dicates whether the UE supports DL scheduling slot offset (K0) greater than 0 for DSCH mapping type B. wmlinkSPS licates whether the UE supports PDSCH reception based on semi-persistent neduling. One SPS configuration is supported per cell group. This applies only to n-shared spectrum channel access. For shared spectrum channel access, wnlinkSPS-r16 applies. mamicBetaOffsetInd-HARQ-ACK-CSI licates whether the UE supports indicating beta-offset (UCI repetition factor onto ISCH) for HARQ-ACK and/or CSI via DCI among the RRC configured beta-sets. mamicHARQ-ACK-Codebook	UE			
SchedulingOffset-PDSCH-TypeB dicates whether the UE supports DL scheduling slot offset (K0) greater than 0 for DSCH mapping type B. wmlinkSPS licates whether the UE supports PDSCH reception based on semi-persistent neduling. One SPS configuration is supported per cell group. This applies only to n-shared spectrum channel access. For shared spectrum channel access, wnlinkSPS-r16 applies. mamicBetaOffsetInd-HARQ-ACK-CSI licates whether the UE supports indicating beta-offset (UCI repetition factor onto USCH) for HARQ-ACK and/or CSI via DCI among the RRC configured beta-sets. mamicHARQ-ACK-Codebook	UE			
DSCH mapping type B. wmlinkSPS licates whether the UE supports PDSCH reception based on semi-persistent neduling. One SPS configuration is supported per cell group. This applies only to n-shared spectrum channel access. For shared spectrum channel access, wmlinkSPS-r16 applies. mamicBetaOffsetInd-HARQ-ACK-CSI licates whether the UE supports indicating beta-offset (UCI repetition factor onto USCH) for HARQ-ACK and/or CSI via DCI among the RRC configured beta-sets. mamicHARQ-ACK-Codebook		No	No	N
wnlinkSPS dicates whether the UE supports PDSCH reception based on semi-persistent heduling. One SPS configuration is supported per cell group. This applies only to n-shared spectrum channel access. For shared spectrum channel access, wnlinkSPS-r16 applies. mamicBetaOffsetInd-HARQ-ACK-CSI dicates whether the UE supports indicating beta-offset (UCI repetition factor onto USCH) for HARQ-ACK and/or CSI via DCI among the RRC configured beta-sets. mamicHARQ-ACK-Codebook		No	No	N
ticates whether the UE supports PDSCH reception based on semi-persistent neduling. One SPS configuration is supported per cell group. This applies only to n-shared spectrum channel access. For shared spectrum channel access, <i>wnlinkSPS-r16</i> applies. <i>mamicBetaOffsetInd-HARQ-ACK-CSI</i> ticates whether the UE supports indicating beta-offset (UCI repetition factor onto USCH) for HARQ-ACK and/or CSI via DCI among the RRC configured beta- sets. <i>mamicHARQ-ACK-Codebook</i>		No	No	N.L.
neduling. One SPS configuration is supported per cell group. This applies only to n-shared spectrum channel access. For shared spectrum channel access, wnlinkSPS-r16 applies. namicBetaOffsetInd-HARQ-ACK-CSI licates whether the UE supports indicating beta-offset (UCI repetition factor onto ISCH) for HARQ-ACK and/or CSI via DCI among the RRC configured beta- sets. namicHARQ-ACK-Codebook	UE			No
n-shared spectrum channel access. For shared spectrum channel access, wnlinkSPS-r16 applies. namicBetaOffsetInd-HARQ-ACK-CSI licates whether the UE supports indicating beta-offset (UCI repetition factor onto ISCH) for HARQ-ACK and/or CSI via DCI among the RRC configured beta- sets. namicHARQ-ACK-Codebook	UE			
wnlinkSPS-r16 applies. namicBetaOffsetInd-HARQ-ACK-CSI licates whether the UE supports indicating beta-offset (UCI repetition factor onto ISCH) for HARQ-ACK and/or CSI via DCI among the RRC configured beta-sets. namicHARQ-ACK-Codebook	UE			
namicBetaOffsetInd-HARQ-ACK-CSI licates whether the UE supports indicating beta-offset (UCI repetition factor onto ISCH) for HARQ-ACK and/or CSI via DCI among the RRC configured beta-sets. namicHARQ-ACK-Codebook	UE			
licates whether the UE supports indicating beta-offset (UCI repetition factor onto ISCH) for HARQ-ACK and/or CSI via DCI among the RRC configured beta- sets. namicHARQ-ACK-Codebook	UE			-
ISCH) for HARQ-ACK and/or CSI via DCI among the RRC configured beta- sets. namicHARQ-ACK-Codebook		No	No	No
sets. namicHARQ-ACK-Codebook				
namicHARQ-ACK-Codebook				
	UE	Yes	No	No
licates whether the UE supports HARQ-ACK codebook dynamically constructed				
DCI(s). This field shall be set to supported.				•
	UE	No	No	No
licates whether the UE supports HARQ-ACK codebook size for CBG-based				
)transmission based on the DAI-based solution as specified in TS 38.213 [11]. namicPRB-BundlingDL	UE	No	No	No
licates whether UE supports DCI-based indication of the PRG size for PDSCH	UE	INO	INU	INO
ception.				
	UE	No	Yes	Yes
licates whether the UE supports monitoring for DCI format 2_0 and determination	0L	INU	163	163
slot formats via DCI format 2_0. This applies only to non-shared spectrum				
annel access. For shared spectrum channel access, <i>dynamicSFI-r16</i> applies.				
	UE	No	No	No
licates whether the UE supports dynamic switching between resource allocation	02			
pes 0 and 1 for PDSCH as specified in TS 38.212 [10].				
	UE	No	No	No
licates whether the UE supports dynamic switching between resource allocation			-	
pes 0 and 1 for PUSCH as specified in TS 38.212 [10].				
	UE	No	No	Yes
r DG-PUSCH, one bit (separately from SRI) in UL grant is used to indicate the P0				
ue if SRI is present in the UL grant, and 1 or 2 bits is used to indicate the P0				
ue if SRI is not present in the UL grant.				
	UE	No	No	No
licates that the UE supports extended periodicities for CG Type 1 (if the UE				
licates configuredUL-GrantType1 capability) or CG Type 2 (if the UE indicates				
nfiguredUL-GrantType2 capability) as specified by periodicityExt-r16 field of IE				
nfiguredGrantConfig in TS 38.331 [9].				-
	UE	No	No	No
licates that the UE supports extended periodicities for downlink SPS as specified				
periodicityExt-r16 field of IE SPS-Config in TS 38.331 [9].		<u>.</u>		
	UE	No	FDD	FR1
licates whether the UE configured with <i>tdm-patternConfig-r16</i> can be semi-			only	only
tically configured with LTE UL transmissions in all UL subframes not limited to				
tically configured with LTE UL transmissions in all UL subframes not limited to reference tdm-pattern (only for type 1 UE) in case of LTE FDD PCell. UE		1		
tically configured with LTE UL transmissions in all UL subframes not limited to				

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

<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
 maxNumberResWithinSlotAcrossCC-OneFR-r16 indicates maximum total number of SSB/CSI-RS/CSI-IM resources configured to measure within a slot across all CCs in one frequency range for any of L1-RSRP measurement, L1-SINR measurement, pathloss measurement, BFD, RLM and new beam identification maxNumberResAcrossCC-OneFR-r16 indicates maximum total number of SSB/CSI-RS/CSI-IM resources configured across all CCs in one frequency range for any of L1-RSRP measurement, BFD, RLM measurement, BFD, RLM range for any of L1-RSRP measurement, L1-SINR measurement, pathloss measurement, BFD, RLM and new beam identification. 				
gNB takes into conjunction of this feature and the features <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. 				
 NOTE 5: Regarding the "configured to measure" RS counting (basic usage 1): If one resource is used for one or multiple of BFD/RLM, it is counted as one. (basic usage 2): If one resource is used for one or multiple of New 				
 Beam Identification/PL-RS/L1-RSRP, add 1. L1-RSRP measurement includes cases associated with reports with reportQuantity set to 'ssb-Index-RSRP, 'cri-RSRP' or with 				
 reportQuantity set to 'none' and CSI-RS-ResourceSet with higher layer parameter trs-Info is not configured. If one resource is used for L1-SINR in addition to basic usage 1 & 2, add N if referred N times by one or more CSI Reporting settings with 				
reportQuantity-r16 = 'ssb-Index-SINR-r16' or 'cri-SINR-r16'. monitoringDCI-SameSearchSpace-r16	UE	No	No	No
Indicates whether the UE supports monitoring both DCI format 0_1/1_1 and DCI format 0_2/1_2 in the same search space. If the UE supports this feature, the UE needs to report <i>dci-Format1-2And0-2-r16</i> .				
<i>multipleCORESET</i> 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	UE	CY	No	Yes
signaling for FR2 and optional for FR1. <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	UE	Yes	No	Yes
access. For shared spectrum channel access, <i>mux-HARQ-ACK-PUSCH-DiffSymbol-r16</i> applies.				
<i>mux-MultipleGroupCtrICH-Overlap</i> Indicates whether the UE supports more than one group of overlapping PUCCHs and PUSCHs per slot per PUCCH cell group for control multiplexing.	UE	No	No	Yes

<i>pdcch-BlindDetectionCA</i> Indicates PDCCH blind decoding capabilities supported by the UE for CA with more	UE	No	No	No
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 TS 38.213 [11].				
Additionally, if the UE does not report <i>pdcch-BlindDetectionCA</i> , and if X is the				
maximum number of CCs supported by the UE across all NR-DC band				
combinations then there is at least one parameter pair (X1, X2) such that $X1 + X2 =$				
X and the UE supports at least one NR-DC band combination with X1 CCs in MCG				
and X2 CCs in SCG and for which X1 <= pdcch-BlindDetectionMCG-UE and X2 <=				
pdcch-BlindDetectionSCG-UE.				
pdcch-MonitoringAnyOccasionsWithSpanGapCrossCarrierSch-r16	UE	No	No	No
Indicates how the UE supports pdcch-MonitoringAnyOccasionsWithSpanGap in				
case of cross-carrier scheduling with different SCSs in the scheduling cell and the				
scheduled cell.				
Value 'mode2' indicates pdcch-MonitoringAnyOccasionsWithSpanGap is supported				
for the band of the scheduling/triggering/indicating cell.				
Value 'mode3' indicates pdcch-MonitoringAnyOccasionsWithSpanGap is supported				
in both the band of the scheduled/triggered/indicated cell and the band of the				
scheduling/triggering/indicating cell.				
UE indicating support of these feature indicates support of pdcch-				
MonitoringAnyOccasionsWithSpanGap and crossCarrierSchedulingDL-DiffSCS-r16.				
NOTE: For pdcch-MonitoringAnyOccasionsWithSpanGap, the supported set				
(set1, set2 or set 3) for cross-carrier scheduling with the different SCSs in				
the scheduling cell and the scheduled cell is still based on the indicated				
value for the band of the scheduling cell.				
pdsch-256QAM-FR1	UE	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.	UE	Vaa	Na	Nic
<i>pdsch-MappingTypeB</i> Indicates whether the UE supports receiving PDSCH using PDSCH mapping type	UE	Yes	No	No
Indicates whether the UE supports receiving PDSCH using PDSCH mapping type B.				
pdsch-RepetitionMultiSlots	UE	No	No	No
ndicates whether the UE supports receiving PDSCH scheduled by DCI format 1_1				
when configured with higher layer parameter pdsch-AggregationFactor > 1, as				
				1
defined in 5.1.2.1 of TS 38.214 [12]. This applies only to non-shared spectrum				
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, <i>pdsch-RepetitionMultiSlots-r16</i> applies.				

pdsch-RE-MappingFR1-PerSymbol/pdsch-RE-MappingFR1-PerSlot	UE	Yes	No	FR1
Indicates the maximum number of supported PDSCH Resource Element (RE) mapping patterns for FR1, each described as a resource (including NZP/ZP CSI-				only
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 <i>pdsch-RE-MappingFR1-</i>				
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 <i>pdsch-RE-MappingFR2-PerSymbol</i> and <i>pdsch-RE-MappingFR2-PerSlot</i> to at least n6 and n16, respectively. In the				
exceptional case that the UE does not include the fields, the network may anyway				
assume that the UE supports the required minimum values.				
precoderGranularityCORESET	UE	No	No	No
Indicates whether the UE supports receiving PDCCH in CORESETs configured with			110	
CORESET-precoder-granularity equal to the size of the CORESET in the frequency				
domain as specified in TS 38.211 [6].				
pre-EmptIndication-DL	UE	No	No	No
Indicates whether the UE supports interrupted transmission indication for PDSCH				
reception based on reception of DCI format 2_1 as defined in TS 38.213 [11]. This				
applies only to non-shared spectrum channel access. For shared spectrum channel				
access, pre-EmptIndication-DL-r16 applies.				
pucch-F2-WithFH	UE	Yes	No	Yes
Indicates whether the UE supports transmission of a PUCCH format 2 (2 OFDM				
symbols in total) with frequency hopping in a slot. This field shall be set to				
supported.		No.	NIa	N
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			140	103
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-RepetitionMultiSlots	UE	Yes	No	No
Indicates whether the UE supports transmitting PUSCH scheduled by DCI format				
0_1 when configured with higher layer parameter <i>pusch-AggregationFactor</i> > 1, as				
defined in clause 6.1.2.1 of TS 38.214 [12]. This applies only to non-shared				
spectrum channel access. For shared spectrum channel access, <i>pusch</i> -				
RepetitionMultiSlots-r16 applies.		X		
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 per shared				
multiple slots with the repetition factor 2, 4 or 8. This applies only to non-shared				
spectrum channel access. For shared spectrum channel access, <i>pucch-Repetition- F1-3-4-r16</i> applies.				
pusch-HalfPi-BPSK	UE	Yes	No	Yes
Indicates whether the UE supports pi/2-BPSK modulation scheme for PUSCH as		103	UNIT	103
defined in 6.3.1.2 of TS 38.211 [6]. It is mandatory with capability signalling for FR1				
and FR2. This capability is not applicable to IAB-MT.				
pusch-LBRM	UE	No	No	Yes
Indicates whether the UE supports limited buffer rate matching in UL as specified in			110	100
TS 38.212 [10].				
pusch-RepetitionTypeA-r16	UE	No	No	No
Indicates whether the UE supports PUSCH transmission with or without slot		1 1		1
Indicates whether the UE supports PUSCH transmission with or without slot aggregation. Support of this field is reported for shared spectrum channel access and non-shared spectrum channel access, respectively.				

<i>ra-Type0-PUSCH</i> Indicates whether the UE supports resource allocation Type 0 for PUSCH as	UE	No	No	No
specified in TS 38.214 [12].				
rateMatchingCtrlResrcSetDynamic Indicates whether the UE supports dynamic rate matching for DL control resource	UE	Yes	No	No
set.		Na	Na	Nia
<i>rateMatchingResrcSetDynamic</i> Indicates whether the UE supports receiving PDSCH with resource mapping that excludes the REs corresponding to resource sets configured with RB-symbol level granularity indicated by <i>bitmaps</i> (see <i>patternType</i> in <i>RateMatchPattern</i> in TS 38.331[9]) based on dynamic indication in the scheduling DCI as specified in TS 38.214 [12].	UE	No	No	No
rateMatchingResrcSetSemi-Static	UE	Yes	No	No
Indicates whether the UE supports receiving PDSCH with resource mapping that excludes the REs corresponding to resource sets configured with RB-symbol level granularity indicated by <i>bitmaps</i> and <i>controlResourceSet</i> (see <i>patternType</i> in <i>RateMatchPattern</i> in TS 38.331[9]) following the semi-static configuration as specified in TS 38.214 [12].				
scs-60kHz	UE	No	No	FR1
Indicates whether the UE supports 60kHz subcarrier spacing for data channel in FR1 as defined in clause 4.2-1 of TS 38.211 [6].				only
semiOpenLoopCSI Indicates whether UE supports CSI reporting with report quantity set to 'CRI/RI/i1/CQI ' as defined in clause 5.2.1.4 of TS 38.214 [12].	UE	No	No	Yes
semiStaticHARQ-ACK-Codebook	UE	Yes	No	No
Indicates whether the UE supports HARQ-ACK codebook constructed by semi- static configuration.				
<i>simultaneousTCI-ActMultipleCC-r16</i> Indicates the UE support of simultaneous TCI state activation across multiple CCs. If the UE indicates support of this for a FR, the UE shall support this on the supported bands of the indicated FR where the UE reports the support of TCI-states for PDSCH using <i>tci-StatePDSCH</i> .	UE	No	No	Yes
simultaneousSpatialRelationMultipleCC-r16	UE	No	No	FR2
Indicates the UE support of simultaneous spatial relation across multiple CCs for aperiodic and semi-persistent SRS. The UE indicating support of this also indicates the capabilities of maximum and active supported spatial relations for the supported FR2 bands using <i>maxNumberConfiguredSpatialRelations</i> and <i>maxNumberActiveSpatialRelations</i> .				only
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 Indicates the UE support of spatial relation update for AP-SRS using MAC CE. The UE indicating support of this also indicates the capabilities of supported SRS resources and maximum supported spatial relations for the supported FR2 bands using supportedSRS-Resources and maxNumberConfiguredSpatialRelations.	UE	No	No	FR2 only
spCellPlacement Indicates whether the UE supports a SpCell on FR1-FDD, FR1-TDD and/or FR2- TDD depending on which additional SCells of other frequency range(s) / duplex mode(s) are configured. It is applicable to NR SA and NR-DC (both MCG and SCG), where UL is configured on more than one of FR1-FDD, FR1-TDD and FR2- TDD in a cell group. If not included, the UE supports SpCell on any serving cell with UL in supported band combinations.	UE	No	No	No
sp-CSI-IM Indicates whether the UE supports semi-persistent CSI-IM.	UE	No	No	Yes
<i>sp-CSI-ReportPUCCH</i> Indicates whether UE supports semi-persistent CSI reporting using PUCCH formats 2, 3 and 4. This applies only to non-shared spectrum channel access. For shared spectrum channel access, <i>sp-CSI-ReportPUCCH-r16</i> applies.	UE	No	No	No
sp-CSI-ReportPUSCH Indicates whether UE supports semi-persistent CSI reporting using PUSCH. This applies only to non-shared spectrum channel access. For shared spectrum channel	UE	No	No	No
access, <i>sp-CSI-ReportPUSCH-r16</i> applies. sp-CSI-RS	UE	Yes	No	Yes
30-00-110		I res	UNI	l res

sps-ReleaseDCI-1-1-r16 Indicates whether the UE supports SPS release by DCI format 1_1. If the UE	UE	No	No	No
supports this feature, the UE needs to report <i>downlinkSPS</i> . <i>sps-ReleaseDCI-1-2-r16</i> 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> <i>2-r16</i> .	UE	No	No	No
supportedDMRS-TypeDL Defines supported DM-RS configuration types at the UE for DL reception. Type 1 is mandatory with capability signaling. Type 2 is optional. If this field is not included, Type 1 is supported.	UE	FD	No	Yes
supportedDMRS-TypeUL Defines supported DM-RS configuration types at the UE for UL transmission. Support of both type 1 and type 2 is mandatory with capability signalling. If this field is not included, Type 1 is supported.	UE	FD	No	Yes
supportRepetitionZeroOffsetRV-r16 Indicates whether UE supports the value 0 for the parameter sequenceOffsetforRV. The UE indicating support of this capability shall also indicate support of supportInter-slotTDM-r16 with maxNumberTCI-states-r16 set to 2 for at least one band.	UE	No	No	No
 supportRetx-Diff-CoresetPool-Multi-DCI-TRP-r16 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 multiDCI-MultiTRP- 	UE	No	No	No
<i>r16.</i> <i>targetSMTC-SCG-r16</i> Indicates the support of configuration of SMTC of target SCG cell with field <i>targetCellSMTC-SCG</i> .	UE	No	No	No
tdd-MultiDL-UL-SwitchPerSlot Indicates whether the UE supports more than one switch points in a slot for actual DL/UL transmission(s).	UE	No	TDD only	Yes
<i>tdd-PCellUL-TX-AllUL-Subframe-r16</i> Indicates whether the UE configured with <i>tdm-patternConfig-r16</i> can be semi- statically configured with LTE UL transmissions in all UL subframes not limited to the reference tdm-pattern (only for type 1 UE) in case of TDD PCell. UE indicating support can configure LTE TDD PCell with this feature on the band combination which indicates support of <i>tdm-restrictionTDD-endc-r16</i> .	UE	No	TDD only	FR1 only
<i>tpc-PUCCH-RNTI</i> Indicates whether the UE supports group DCI message based on TPC-PUCCH-RNTI for TPC commands for PUCCH.	UE	No	No	Yes
<i>tpc-PUSCH-RNTI</i> Indicates whether the UE supports group DCI message based on TPC-PUSCH- RNTI for TPC commands for PUSCH.	UE	No	No	Yes
<i>tpc-SRS-RNTI</i> Indicates whether the UE supports group DCI message based on TPC-SRS-RNTI for TPC commands for SRS.	UE	No	No	Yes
<i>twoDifferentTPC-Loop-PUCCH</i> Indicates whether the UE supports two different TPC loops for PUCCH closed loop power control.	UE	Yes	Yes	Yes
<i>twoDifferentTPC-Loop-PUSCH</i> Indicates whether the UE supports two different TPC loops for PUSCH closed loop power control.	UE	Yes	Yes	Yes
twoFL-DMRS 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 symbols. The left most in the bitmap corresponds to DL reception and the right most bit in the bitmap corresponds to UL transmission.	UE	Yes	No	Yes

twoFL-DMRS-TwoAdditionalDMRS-UL Defines whether the UE supports DM-RS pattern for UL transmission with 2	UE	Yes	No	Yes
symbols front-loaded DM-RS with one additional 2 symbols DM-RS.				
twoPUCCH-AnyOthersInSlot ndicates whether the UE supports transmission of two PUCCH formats in TDM in he same slot, which are not covered by twoPUCCH-F0-2-ConsecSymbols and onePUCCH-LongAndShortFormat.	UE	No	No	Yes
twoPUCCH-F0-2-ConsecSymbols ndicates whether the UE supports transmission of two PUCCHs of format 0 or 2 in	UE	No	Yes	Yes
consecutive symbols in a slot.				
woStepRACH-r16 ndicates whether the UE supports the following basic structure and procedure of 2- step RACH:	UE	No	No	No
 Fallback procedures from 2-step RA type to 4-step RA type; 				
 MSGA PRACH resource and format determination; 				
- MSGA PUSCH configuration;				
- Validation and transmission of MSGA PRACH and PUSCH;				
 Mapping between preamble of MSGA PRACH and PUSCH occasion with DMRS resource of MSGA PUSCH; 				
 MSGB monitoring and decoding; 				
 PUCCH transmission for HARQ-ACK feedback to a MSGB; 				
 Power control for MSGA PRACH, MSGA PUSCH and PUCCH carrying HARQ-ACK feedback to MSGB. 				
 Reconfiguration with sync using a contention free random access with 2-step RA type on MSGA PRACH and PUSCH resources that are associated with SSB resources of the target cell. 				
woTCI-Act-servingCellInCC-List-r16	UE	CY	No	Ye
ndicates whether the UE supports receiving the Enhanced TCI States Activation/Deactivation for UE-specific PDSCH MAC CE (as specified in TS 38.321 8] clause 6.1.3.24) indicating a serving cell configured as part of <i>simultaneousTCI- UpdateList1</i> or <i>simultaneousTCI-UpdateList2</i> as specified in TS 38.331 [9]. f the UE indicates support of <i>simultaneousTCI-ActMultipleCC-r16</i> for a FR and support of at least one of <i>singleDCI-SDM-scheme-r16</i> , <i>supportFDM-SchemeA-r16</i> , <i>supportFDM-SchemeB-r16</i> , <i>supportTDM-SchemeA-r16</i> or <i>supportInter-slotTDM-r16</i> for at least one band or component carrier of this FR, the UE shall indicate support of <i>twoTCI-Act-servingCellInCC-List-r16</i> for this FR.				
ype1-HARQ-ACK-Codebook-r16 ndicates whether the UE supports Type 1 HARQ-ACK codebook for TDRA using the starting symbol of the PDCCH monitoring occasion in which the DL assignment as detected as the reference of the SLIV. If the UE supports this feature, the UE needs to report <i>dci-Format1-2And0-2-r16</i> . Support for FR1/FR2 is differentiated from the viewpoint of the scheduled carrier.	UE	No	No	Ye
type1-PUSCH-RepetitionMultiSlots	UE	No	No	Nc
ndicates whether the UE supports Type 1 PUSCH transmissions with configured grant as specified in TS 38.214 [12] with UL-TWG-repK value equal to 2, 4, or 8 with a single repetition of the transport block within each slot, and redundancy version pattern as indicated by UL-TWG-RV-rep. A UE supporting this feature shall also support Type 1 PUSCH transmissions with configured grant as specified in TS 38.214 [12] with UL-TWG-repK value of one. This applies only to non-shared spectrum channel access. For shared spectrum channel access, <i>type1-PUSCH-RepetitionMultiSlots-r16</i> applies.				
ype2-CG-ReleaseDCI-0-1-r16	UE	No	No	Nc
ndicates 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> GrantType2.				
type2-CG-ReleaseDCI-0-2-r16	UE	No	No	No
ndicates 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 <i>configuredUL-GrantType2</i> and <i>dci-Format1-2And0-2-r16</i> .				

type2-HARQ-ACK-Codebook-r16 Indicates whether the UE supports Type 2 HARQ-ACK codebook when HARQ-ACK feedback in a codebook corresponds to more than one unicast DL DCI for same scheduled cell in a monitoring occasion of a scheduling cell using the PDSCH starting time in addition to the existing monitoring occasion and Cell index to order the HARQ-ACK feedback.	UE	No	No	No
<i>type2-PUSCH-RepetitionMultiSlots</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-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	No	No	No
type2-SP-CSI-Feedback-LongPUCCH 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].	UE	No	No	No
<i>uci-CodeBlockSegmentation</i> Indicates whether the UE supports segmenting UCI into multiple code blocks depending on the payload size.	UE	Yes	No	Yes
<i>ul-64QAM-MCS-TableAlt</i> Indicates whether the UE supports the alternative 64QAM MCS table for PUSCH with and without transform precoding respectively.	UE	No	No	Yes
<i>ul-SchedulingOffset</i> Indicates whether the UE supports UL scheduling slot offset (K2) greater than 12.	UE	Yes	Yes	Yes

4.2.7.11 Other PHY parameters

Definitions for parameters	Per	M	FDD- TDD DIFF	FR1- FR2 DIFF
appliedFreqBandListFilter Mirrors the FreqBandList that the NW provided in the capability enquiry, if any. The UE filtered the band combinations in the supportedBandCombinationList in accordance with this appliedFreqBandListFilter.	UE	No	No	No
downlinkSetEUTRA Indicates the features that the UE supports on the DL carriers corresponding to one EUTRA band entry in a band combination by FeatureSetEUTRA-DownlinkId. The FeatureSetEUTRA-DownlinkId = 0 means that the UE does not support a EUTRA DL carrier in this band of a band combination.	Band	N/A	N/A	N/A
<i>downlinkSetNR</i> Indicates the features that the UE supports on the DL carriers corresponding to one NR band entry in a band combination by FeatureSetDownlinkId. The FeatureSetDownlinkId = 0 means that the UE does not support a DL carrier in this band of a band combination. A fallback per band feature set resulting from the reported DL feature set that has fallback per CC feature set is not signalled but the UE shall support it.	Band	N/A	N/A	N/A
extendedBand-n77-r16 This field is only applicable for UEs that indicate support for band n77. If present, the UE supports the restriction to 3450 - 3550 MHz and 3700 - 3980 MHz ranges of band n77 in the USA as specified in Note 12 of Table 5.2-1 in TS 38.101-1 [2]. If absent, the UE supports only restriction to the 3700 - 3980 MHz range of band n77 in the USA. A UE that indicates this field shall also support NS value 55 as specified in TS 38.101-1 [2].	UE	No	No	No
<i>featureSetCombinations</i> Pools of feature sets that the UE supports on the NR or MR-DC band combinations.	UE	N/A	No	No
<i>featureSets</i> Pools of downlink and uplink features sets as well as a pool of FeatureSetCombination elements. A FeatureSetCombination refers to the IDs of the feature set(s) that the UE supports in that FeatureSetCombination. The BandCombination entries in the BandCombinationList then indicate the ID of the FeatureSetCombination that the UE supports for that band combination.	UE	N/A	No	No
<i>naics-Capability-List</i> Indicates that UE in MR-DC supports NAICS as defined in TS 36.331 [17].	UE	No	No	No
<i>receivedFilters</i> Contains all filters requested with UE-CapabilityRequestFilterNR from version 15.6.0 onwards.	UE	No	No	No
supportedBandCombinationList Defines the supported NR and/or MR-DC band combinations by the UE. For each band combination the UE identifies the associated feature set combination by featureSetCombinations index referring to featureSetCombination. A fallback band combination resulting from the reported CA and MR-DC band combination is not signalled but the UE shall support it. For intra-band non-contiguous CA band combinations, the UE only includes one band combination, and exclude the others for which the presence of uplink CA bandwidth class in the band combination entry is different. One band combination entry can also indicate support of any other possible permutations in the presence of uplink CA bandwidth class where a paired downlink CA bandwidth class is the same or where the number of UL CCs is smaller than the one of paired DL CCs expressed by the CA bandwidth class, as specified in TS 36.306 [15]. For these band combinations not included in the capability, the supported feature set is the same as the ones for the band combination included in the UE capability.	UE	Yes	No	No
supportedBandCombinationListNEDC-Only Defines the supported NE-DC only type of band combinations by the UE.	UE	No	No	No
supportedBandCombinationList-UplinkTxSwitch-r16 Defines the NR inter-band UL CA, SUL and/or EN-DC band combinations where UE supports dynamic UL Tx switching. UE only includes this field if requested by the network. All fallback band combinations resulting from the reported band combination, which include at least one band pair supporting dynamic UL Tx switching as indicated in ULTxSwitchingBandPair, shall be supported by the UE.	UE	No	No	No
<i>supportedBandListNR</i> Includes the supported NR bands as defined in TS 38.101-1 [2] and TS 38.101-2 [3].	UE	Yes	No	No

uplinkSetEUTRA Indicates the features that the UE supports on the UL carriers corresponding to one EUTRA band entry in a band combination by FeatureSetEUTRA-UplinkId. The FeatureSetUplinkId = 0 means that the UE does not support a UL carrier in this band of a band combination.	Band	N/A	N/A	N/A
uplinkSetNR Indicates the features that the UE supports on the UL carriers corresponding to one NR band entry in a band combination by FeatureSetUplinkId. The FeatureSetUplinkId = 0 means that the UE does not support a UL carrier in this band of a band combination. A fallback per band feature set resulting from the reported UL feature set that has fallback per CC feature set is not signalled but the UE shall support it.	Band	N/A	N/A	N/A

4.2.7.12 NRDC-Parameters

Definitions for parameters	Per	M	FDD- TDD DIFF	FR1- FR2 DIFF
asyncNRDC-r16 Indicates whether the UE supports asynchronous NR-DC with MRTD and MTTD as specified in clause 7.5 and 7.6 of TS 38.133 [5]. If the band combination is comprised of a single band entry for more than two carriers, the UE shall support any permutations of carriers to CGs. If the band combination is comprised of at least two band entries, the carriers corresponding to a band entry shall belong to only one cell group. A UE indicating this capability shall support asynchronous NR-DC configuration where all serving cells of the MCG are in FR1 and all serving cells of the SCG are in FR2.	BC	FFS	No	No
condPSCellAdditionNRDC-r17 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.	BC	No	No	No
<i>intraFR-NR-DC-PwrSharingMode1-r16</i> Indicates whether the UE supports intra-FR NR DC with semi-static power sharing mode1 between MCG and SCG cells of same frequency range as defined in TS 38.213 [11]. If this field is absent, the UE does not support intra-FR NR DC.	BC	No	No	No
<i>intraFR-NR-DC-PwrSharingMode2-r16</i> Indicates whether the UE supports semi-static power sharing mode2 between MCG and SCG cells of same frequency range for synchronous intra-FR NR DC as defined in TS 38.213 [11]. The UE indicating the support of this also indicates the support of <i>intraFR-NR-DC-PwrSharingMode1-r16</i> .	BC	No	No	No
<i>intraFR-NR-DC-DynamicPwrSharing-r16</i> Indicates the UE support of dynamic power sharing for intra-FR NR DC between MCG and SCG cells of same frequency range with long or short offset as specified in TS 38.213 [11]. The UE indicating the support of this also indicates the support of <i>intraFR-NR-DC-PwrSharingMode1-r16</i> .	BC	No	No	No
scg-ActivationDeactivationNRDC-r17 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.	BC	No	No	No
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
<i>sfn-SyncNRDC</i> Indicates the UE supports NR-DC only with SFN and frame synchronization between PCell and PSCell. If not included by the UE supporting NR-DC, the UE supports NR-DC with slot-level synchronization without condition on SFN and frame synchronization. In this release of the specification, the UE shall not report this UE capability.	UE	No	No	No
 supportedCellGrouping-r16 Indicates which NR-DC cell groupings the UE supports for the given NR DC band combination, i.e., mapping of serving cells to MCG and SCG, and the operation mode (synchronous or asynchronous), as requested by the network via requestedCellGrouping-r16. The IDs reported in this field refer to the cell groupings that the network requested in requestedCellGrouping-r16. ID#0 corresponds to the first element in requestedCellGrouping-r16, ID#1 corresponds to the second element in requestedCellGrouping-r16 and so on. NOTE: Irrespective of the indicated supportedCellGrouping-r16, the UE shall also support NR-DC where all FR1 serving cells are in the MCG and all FR2 serving cells are in the SCG, as described in <i>ca-ParametersNRDC</i>. 	BC	No	No	No

4.2.7.13 CarrierAggregationVariant

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

4.2.7.14 *Phy-ParametersSharedSpectrumChAccess*

Definitions for parameters	Per	M	FDD- TDD DIFF	FR1- FR2 DIFF
configuredUL-GrantType1-r16 Indicates whether the UE supports Type 1 PUSCH transmissions with configured grant as specified in TS 38.214 [12] with UL-TWG-repK value of one in shared spectrum channel access.	UE	No	No	No
<i>configuredUL-GrantType2-r16</i> Indicates whether the UE supports Type 2 PUSCH transmissions with configured grant as specified in TS 38.214 [12] with UL-TWG-repK value of one in shared spectrum channel access.	UE	No	No	No
<i>downlinkSPS-r16</i> Indicates whether the UE supports PDSCH reception based on semi-persistent scheduling. One SPS configuration is supported per cell group in shared spectrum channel access.	UE	No	No	No
<i>dynamicSFI-r16</i> Indicates whether the UE supports monitoring for DCI format 2_0 and determination of slot formats via DCI format 2_0 in shared spectrum channel access.	UE	No	No	No
<i>mux-HARQ-ACK-PUSCH-DiffSymbol-r16</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 in shared spectrum channel access. This feature is mandatory if UE supports any of the deployment scenarios A.2, B, C, D and E in Annex B.3 of TS 38.300 [28].	UE	CY	No	No
<i>mux-SR-HARQ-ACK-CSI-PUCCH-MultiPerSlot-r16</i> Indicates whether the UE supports multiplexing SR, HARQ-ACK and CSI on a PUCCH or piggybacking on a PUSCH more than once per slot when SR, HARQ- ACK and CSI are supposed to be sent with the same or different starting symbol in a slot in shared spectrum channel access.	UE	No	No	No
<i>mux-SR-HARQ-ACK-CSI-PUCCH-OncePerSlot-r16</i> sameSymbol indicates the UE supports multiplexing SR, HARQ-ACK and CSI on a PUCCH or piggybacking on a PUSCH once per slot, when SR, HARQ-ACK and CSI are supposed to be sent with the same starting symbols on the PUCCH resources in a slot. <i>diffSymbol</i> indicates the UE supports multiplexing SR, HARQ-ACK and CSI on a PUCCH or piggybacking on a PUSCH once per slot, when SR, HARQ- ACK and CSI are supposed to be sent with the different starting symbols in a slot in shared spectrum channel access.	UE	CY	No	No
If the UE indicates <i>sameSymbol</i> in this field and does not support <i>mux-HARQ-ACK-PUSCH-DiffSymbol-r16</i> , the UE supports HARQ-ACK/CSI piggyback on PUSCH once per slot, when the starting OFDM symbol of the PUSCH is the same as the starting OFDM symbols of the PUCCH resource(s) that would have been transmitted on. If the UE indicates <i>sameSymbol</i> in this field and supports <i>mux-HARQ-ACK-PUSCH-DiffSymbol-r16</i> , the UE supports HARQ-ACK/CSI piggyback on PUSCH once per slot for which case the starting OFDM symbol of the PUSCH is the different from the starting OFDM symbols of the PUCCH resource(s) that would have been transmitted on.				
The UE is mandated to support the multiplexing and piggybacking features indicated by <i>sameSymbol</i> for <i>mux-SR-HARQ-ACK-CSI-PUCCH-OncePerSlot-r16</i> if UE supports any of the deployment scenarios A.2, B, C, D and E in Annex B.3 of TS 38.300 [28].				
<i>mux-SR-HARQ-ACK-PUCCH-r16</i> Indicates whether the UE supports multiplexing SR and HARQ-ACK on a PUCCH or piggybacking on a PUSCH once per slot, when SR and HARQ-ACK are supposed to be sent with the different starting symbols in a slot in shared spectrum channel access.	UE	No	No	No
<i>pdsch-RepetitionMultiSlots-r16</i> Indicates whether the UE supports receiving PDSCH scheduled by DCI format 1_1 when configured with higher layer parameter <i>pdsch-AggregationFactor</i> > 1, as defined in 5.1.2.1 of TS 38.214 [12] in shared spectrum channel access.	UE	No	No	No
<i>pre-EmptIndication-DL-r16</i> Indicates whether the UE supports interrupted transmission indication for PDSCH reception based on reception of DCI format 2_1 as defined in TS 38.213 [11] in shared spectrum channel access.	UE	No	No	No

pusch-RepetitionMultiSlots-r16	UE	CY	No	No
Indicates whether the UE supports transmitting PUSCH scheduled by DCI format				
0_1 when configured with higher layer parameter pusch-AggregationFactor > 1, as				
defined in clause 6.1.2.1 of TS 38.214 [12] in shared spectrum channel access. This				
feature is mandatory if UE supports any of the deployment scenarios A.2, B, C, D				
and E in Annex B.3 of TS 38.300 [28].				
pucch-Repetition-F1-3-4-r16	UE	CY	No	No
Indicates whether the UE supports transmission of a PUCCH format 1 or 3 or 4 over				
multiple slots with the repetition factor 2, 4 or 8 in shared spectrum channel access.				
This feature is mandatory if UE supports any of the deployment scenarios				
A.2(whenever PUCCH is supported on shared spectrum channel access cell), B, C,				
D and E in Annex B.3 of TS 38.300 [28].				
sp-CSI-ReportPUCCH-r16	UE	No	No	No
Indicates whether UE supports semi-persistent CSI reporting using PUCCH formats				
2, 3 and 4 in shared spectrum channel access.				
sp-CSI-ReportPUSCH-r16	UE	No	No	No
Indicates whether UE supports semi-persistent CSI reporting using PUSCH in				
shared spectrum channel access.				
ss-SINR-Meas-r16	UE	No	No	No
Indicates whether the UE can perform SS-SINR measurement in shared spectrum				
channel access as specified in TS 38.215 [13].				
type1-PUSCH-RepetitionMultiSlots-r16	UE	No	No	No
Indicates whether the UE supports Type 1 PUSCH transmissions with configured				
grant in shared spectrum channel access as specified in TS 38.214 [12] with UL-				
TWG-repK value equal to 2, 4, or 8 with a single repetition of the transport block				
within each slot, and redundancy version pattern as indicated by UL-TWG-RV-rep.				
A UE supporting this feature shall also support Type 1 PUSCH transmissions with				
configured grant as specified in TS 38.214 [12] with UL-TWG-repK value of one.				
type2-PUSCH-RepetitionMultiSlots-r16	UE	No	No	No
Indicates whether the UE supports Type 2 PUSCH transmissions with configured				
grant in shared spectrum channel access as specified in TS 38.214 [12] with UL-				
TWG-repK value equal to 2, 4, or 8 with a single repetition of the transport block				
within each slot, and redundancy version pattern as indicated by UL-TWG-RV-rep.				
A UE supporting this feature shall also support Type 2 PUSCH transmissions with				
configured grant as specified in TS 38.214 [12] with UL-TWG-repK value of one.				

4.2.8 Void

4.2.9 *MeasAndMobParameters*

Definitions for parameters	Per	M	FDD- TDD DIFF	FR1- FR2 DIFF
<i>cli-RSSI-Meas-r16</i> Indicates whether the UE can perform CLI RSSI measurements as specified in TS 38.215 [13] and supports periodical reporting and measurement event triggering as specified in TS 38.331 [9]. If the UE supports this feature, the UE needs to report <i>maxNumberCLI-RSSI-r16</i> . If this parameter is indicated for FR1 and FR2 differently, each indication corresponds to the frequency range of measurement resources to be measured.	UE	No	TDD only	Yes
<i>cli-SRS-RSRP-Meas-r16</i> Indicates whether the UE can perform SRS RSRP measurements as specified in TS 38.215 [13] and supports periodical reporting and measurement event triggering based on SRS-RSRP as specified in TS 38.331 [9]. If the UE supports this feature, the UE needs to report <i>maxNumberCLI-SRS-RSRP-r16</i> and <i>maxNumberPerSlotCLI-SRS-RSRP-r16</i> . If this parameter is indicated for FR1 and FR2 differently, each indication corresponds to the frequency range of measurement resources to be measured.	UE	No	TDD only	Yes
concurrent/MeasGap-r17 Indicates whether the UE supports the concurrent measurement gap 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 (<i>independentGapConfig</i>), 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 in an FR, or more than 1 per-UE measurement gap configurations.	UE	No	No	No
condHandoverFDD-TDD-r16 Indicates whether the UE supports conditional handover between FDD and TDD cells. The parameter can only be set if <i>condHandover-r16</i> is set for at least one FDD band and one TDD band. The UE that indicates support of this feature shall also indicate support of <i>handoverFDD-TDD</i> .	UE	No	No	No
condHandoverFR1-FR2-r16 Indicates whether the UE supports conditional handover HO between FR1 and FR2. The parameter can only be set if <i>condHandover-r16</i> is set for at least one FR1 band and one FR2 band. The UE that indicates support of this feature shall also indicate support of <i>handoverFR1-FR2</i> .	UE	No	No	No
<i>csi-RS-RLM</i> Indicates whether the UE can perform radio link monitoring procedure based on measurement of CSI-RS as specified in TS 38.213 [11] and TS 38.133 [5]. This parameter needs FR1 and FR2 differentiation. If the UE supports this feature, the UE needs to report <i>maxNumberResource-CSI-RS-RLM</i> . This applies only to non- shared spectrum channel access. For shared spectrum channel access, <i>csi-RS- RLM-r16</i> applies.	UE	Yes	No	Yes
<i>csi-RSRP-AndRSRQ-MeasWithSSB</i> Indicates whether the UE can perform CSI-RSRP and CSI-RSRQ measurement as specified in TS 38.215 [13], where CSI-RS resource is configured with an associated SS/PBCH. If this parameter is indicated for FR1 and FR2 differently, each indication corresponds to the frequency range of measured target cell. If the UE supports this feature, the UE needs to report <i>maxNumberCSI-RS-RRM-RS-</i> <i>SINR</i> . This applies only to non-shared spectrum channel access. For shared spectrum channel access, <i>csi-RS-RLM-r16</i> applies.	UE	No	No	Yes
<i>csi-RSRP-AndRSRQ-MeasWithoutSSB</i> Indicates whether the UE can perform CSI-RSRP and CSI-RSRQ measurement as specified in TS 38.215 [13], where CSI-RS resource is configured for a cell that transmits SS/PBCH block and without an associated SS/PBCH block. If this parameter is indicated for FR1 and FR2 differently, each indication corresponds to the frequency range of measured target cell. If the UE supports this feature, the UE needs to report <i>maxNumberCSI-RS-RRM-RS-SINR</i> . This applies only to non- shared spectrum channel access. For shared spectrum channel access, <i>csi- RSRP-AndRSRQ-MeasWithoutSSB-r16</i> applies.	UE	No	No	Yes
<i>csi-SINR-Meas</i> Indicates whether the UE can perform CSI-SINR measurements based on configured CSI-RS resources as specified in TS 38.215 [13]. If this parameter is indicated for FR1 and FR2 differently, each indication corresponding to the frequency range of measured target cell. If the UE supports this feature, the UE needs to report <i>maxNumberCSI-RS-RRM-RS-SINR</i> . This applies only to non- shared spectrum channel access. For shared spectrum channel access, <i>csi-SINR-Meas-r16</i> applies.	UE	No	No	Yes

Definitions for parameters	Per	M	FDD- TDD DIFF	FR1- FR2 DIFF
eutra-AutonomousGaps-r16 Defines whether the UE supports, upon configuration of useAutonomousGaps by the network, acquisition of relevant information from a neighbouring E-UTRA cell by reading the SI of the neighbouring cell using autonomous gap and reporting the acquired information to the network as specified in TS 38.331 [9] when MR-DC is not configured.	UE	No	No	No
eutra-AutonomousGaps-NEDC-r16 Defines whether the UE supports, upon configuration of useAutonomousGaps by the network, acquisition of relevant information from a neighbouring E-UTRA cell by reading the SI of the neighbouring cell using autonomous gap and reporting the acquired information to the network as specified in TS 38.331 [9] when NE-DC is configured.	UE	No	No	No
eutra-AutonomousGaps-NRDC-r16 Defines whether the UE supports, upon configuration of useAutonomousGaps by the network, acquisition of relevant information from a neighbouring E-UTRA cell by reading the SI of the neighbouring cell using autonomous gap and reporting the acquired information to the network as specified in TS 38.331 [9] when NR-DC is configured.	UE	No	No	No
eutra-CGI-Reporting Defines whether the UE supports acquisition of relevant CGI-information from a neighbouring E-UTRA cell by reading the SI of the neighbouring cell and reporting the acquired information to the network as specified in TS 38.331 [9] when the (NG)EN-DC and NE-DC are not configured or, when consistent DRX is configured in NR-DC. The consistent DRX configuration implies that MN and SN have the same DRX cycle and on-duration configured by MN completely contains on- duration configured by SN. It is mandated if the UE supports EUTRA. It is optional for RedCap UEs.	UE	CY	No	No
eutra-CGI-Reporting-NEDC Defines whether the UE supports acquisition of relevant information from a neighbouring E-UTRA cell by reading the SI of the neighbouring cell and reporting the acquired information to the network as specified in TS 38.331 [9] when the NE- DC is configured.	UE	No	No	No
eutra-CGI-Reporting-NRDC Defines whether the UE supports acquisition of relevant information from a neighbouring E-UTRA cell by reading the SI of the neighbouring cell and reporting the acquired information to the network as specified in TS 38.331 [9] when the NR- DC is configured wherein MN and SN have different DRX cycles, or on-duration configured by MN does not contain on-duration configured by SN if the DRX cycles are the same.	UE	No	No	No
eventA-MeasAndReport Indicates whether the UE supports NR measurements and events A triggered reporting as specified in TS 38.331 [9]. This field only applies to SN configured measurement when (NG)EN-DC is configured. For NR SA, MN and SN configured measurement when NR-DC is configured, and MN configured measurement when NE-DC is configured, this feature is mandatory supported.	UE	Yes	Yes	No
eventB-MeasAndReport Indicates whether the UE supports EUTRA measurement and event B triggered reporting as specified in TS 38.331 [9]. It is mandated if the UE supports EUTRA.	UE	CY	No	No
handoverLTE-5GC, handoverLTE-5GC-r17 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)
handoverFDD-TDD Indicates whether the UE supports HO between FDD and TDD. It is mandated if the UE supports both FDD and TDD. This field only applies to NR SA/NR-DC/NE- DC (e.g. PCell handover). For PSCell change when (NG)EN-DC/NR-DC is configured, this feature is mandatory supported. UEs supporting this shall indicate support of <i>handoverInterF</i> for both FDD and TDD.	UE	Yes	No	No
handoverFR1-FR2 Indicates whether the UE supports HO between FR1 and FR2. Support is mandatory for the UE supporting both FR1 and FR2. This field only applies to NR SA/NR-DC/NE-DC (e.g. PCell handover). For PSCell change when (NG)EN- DC/NR-DC is configured, this feature is mandatory supported. UEs supporting this shall indicate support of <i>handoverInterF</i> for both FR1 and FR2.	UE	Yes	No	No

Definitions for parameters	Per	M	FDD- TDD DIFF	FR1- FR2 DIFF
handoverFR1-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. PCell handover) and PSCell change when (NG)EN-DC/NR-DC is configured. UEs supporting this shall indicate support of handoverInterF for both FR1 and FR2-2.	UE	No	No	No
handoverFR2-1-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 handoverInterF for both FR2-1 and FR2-2.	UE	No	No	No
<i>handoverInterF, handoverInterF-r17</i> 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 (Incl FR2-2 DIFF)
handoverLTE-EPC, handoverLTE-EPC-r17 Indicates whether the UE supports HO to EUTRA connected to EPC. It is mandated if the UE supports EUTRA connected to EPC.	UE	CY	Yes	Yes (Incl FR2-2 DIFF)
<i>idleInactiveNR-MeasReport-r16, idleInactiveNR-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 measured target cell.	UE	No	No	Yes (Incl FR2-2 DIFF)
<i>idleInactiveNR-MeasBeamReport-r16</i> Indicates whether the UE supports beam level measurements in RRC_IDLE/RRC_INACTIVE and reporting of the corresponding beam measurement results upon network request as specified in TS 38.331 [9]. A UE supports this feature shall also support <i>idleInactiveNR-MeasReport-r16</i> . If this parameter is indicated for FR1 and FR2 differently, each indication corresponds to the frequency range of measured target cell.	UE	No	No	Yes
<i>idleInactiveEUTRA-MeasReport-r16</i> Indicates whether the UE supports configuration of E-UTRA measurements in RRC_IDLE/RRC_INACTIVE and reporting of the corresponding results upon network request as specified in TS 38.331 [9].	UE	No	No	No
<i>idleInactive-ValidityArea-r16</i> Indicates whether the UE supports configuration of a validity area for NR measurements in RRC_IDLE/RRC_INACTIVE as specified in TS 38.331 [9].	UE	No	No	No
<i>independentGapConfig</i> This field indicates whether the UE supports two independent measurement gap configurations for FR1 and FR2 specified in clause 9.1.2 of TS 38.133 [5]. The field also indicates whether the UE supports the FR2 inter-RAT measurement without gaps when (NG)EN-DC is not configured.	UE	No	No	No
<i>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>periodicEUTRA-MeasAndReport</i> Indicates whether the UE supports periodic EUTRA measurement and reporting. It is mandated if the UE supports EUTRA.	UE	CY	No	No

Definitions for parameters	Per	TDD DIFF		FR1- FR2 DIFF
<i>maxNumberCLI-RSSI-r16</i> Defines the maximum number of CLI-RSSI measurement resources for CLI RSSI measurement. If the UE supports <i>cli-RSSI-Meas-r16</i> , the UE shall report this capability.	UE	CY	TDD only	No
maxNumberCLI-SRS-RSRP-r16 Defines the maximum number of SRS-RSRP measurement resources for SRS- RSRP measurement. If the UE supports <i>cli-SRS-RSRP-Meas-r16</i> , the UE shall report this capability. NOTE 1: A slot is based on minimum SCS among active BWPs across all CCs	UE	CY	TDD only	No
configured for SRS-RSRP measurement. NOTE 2: A SRS resource occasion that overlaps with the slot is counted as one measurement resource in the slot.				
<i>increasedNumberofCSIRSPerMO-r16</i> Indicates support of up to 192 CSI-RS resource for L3 mobility configuration per measurement object configured with <i>associatedSSB</i> .	UE	No	No	Yes
maxNumberCSI-RS-RRM-RS-SINR Defines the maximum number of CSI-RS resources for RRM and RS-SINR measurement across all measurement frequencies per slot. If UE supports any of csi-RSRP-AndRSRQ-MeasWithSSB, csi-RSRP-AndRSRQ-MeasWithoutSSB, and csi-SINR-Meas, UE shall report this capability.	UE	CY	No	No
<i>maxNumberPerSlotCLI-SRS-RSRP-r16</i> Defines the maximum number of SRS-RSRP measurement resources per slot for SRS-RSRP measurement. If the UE supports <i>cli-SRS-RSRP-Meas-r16</i> , the UE shall report this capability.	UE	CY	TDD only	No
<i>maxNumberResource-CSI-RS-RLM</i> Defines the maximum number of CSI-RS resources within a slot per spCell for CSI-RS based RLM. If UE supports any of <i>csi-RS-RLM</i> and <i>ssb-AndCSI-RS-RLM</i> , UE shall report this capability.	UE	CY	No	Yes
<i>ncsg-MeasGap-r17</i> Indicates whether the UE supports the NCSG measurement gap as specified in TS 38.133 [5].	UE	No	No	No
ncsg-MeasGapEUTRAN-r17 Indicates whether the UE supports reporting of the NCSG measurement gap for E- UTRA target bands as specified in TS 38.331 [9].	UE	No	No	No
<i>nr-AutonomousGaps-r16</i> Defines whether the UE supports, upon configuration of <i>useAutonomousGaps</i> by the network, acquisition of relevant information from a neighbouring NR cell by reading the SI of the neighbouring cell using autonomous gap and reporting the acquired information to the network as specified in TS 38.331 [9] when MR-DC is not configured. If this parameter is indicated for FR1 and FR2 differently, each indication corresponds to the frequency range of measured target cell.	UE	No	No	Yes
<i>nr-AutonomousGaps-ENDC-r16</i> Defines whether the UE supports, upon configuration of <i>useAutonomousGaps</i> by the network, acquisition of relevant information from a neighbouring NR cell by reading the SI of the neighbouring cell using autonomous gap and reporting the acquired information to the network as specified in TS 38.331 [9] when (NG)EN-DC is configured. If this parameter is indicated for FR1 and FR2 differently, each indication corresponds to the frequency range of measured target cell.	UE	No	No	Yes
<i>nr-AutonomousGaps-NEDC-r16</i> Defines whether the UE supports, upon configuration of <i>useAutonomousGaps</i> by the network, acquisition of relevant information from a neighbouring NR cell by reading the SI of the neighbouring cell using autonomous gap and reporting the acquired information to the network as specified in TS 38.331 [9] when NE-DC is configured. If this parameter is indicated for FR1 and FR2 differently, each indication corresponds to the frequency range of measured target cell.	UE	No	No	Yes
<i>nr-AutonomousGaps-NRDC-r16</i> Defines whether the UE supports, upon configuration of <i>useAutonomousGaps</i> by the network, acquisition of relevant information from a neighbouring NR cell by reading the SI of the neighbouring cell using autonomous gap and reporting the acquired information to the network as specified in TS 38.331 [9] when NR-DC is configured. If this parameter is indicated for FR1 and FR2 differently, each indication corresponds to the frequency range of measured target cell.	UE	No	No	Yes

Definitions for parameters	Per	M	FDD- TDD DIFF	FR1- FR2 DIFF
<i>nr-CGI-Reporting</i> Defines whether the UE supports acquisition of relevant CGI-information from a neighbouring intra-frequency or inter-frequency NR cell by reading the SI of the neighbouring cell and reporting the acquired information to the network as specified in TS 38.331 [9] when (NG)EN-DC and NE-DC are not configured or, when consistent DRX is configured in NR-DC. The consistent DRX configuration implies that MN and SN have the same DRX cycle and on-duration configured by MN completely contains on-duration configured by SN. It is optional for RedCap UEs.	UE	Yes	No	No
nr-CGI-Reporting-ENDC Defines whether the UE supports acquisition of relevant CGI-information from a neighbouring intra-frequency or inter-frequency NR cell by reading the SI of the neighbouring cell and reporting the acquired information to the network as specified in TS 38.331 [9] when the (NG)EN-DC is configured.	UE	Yes	No	No
reportAddNeighMeasForPeriodic-r16 Defines whether the UE supports periodic reporting of best neighbour cells per serving frequency, as defined in TS 38.331 [9]. It is optional for RedCap UEs.	UE	Yes	No	No
<i>nr-CGI-Reporting-NEDC</i> Defines whether the UE supports acquisition of relevant information from a neighbouring intra-frequency or inter-frequency NR cell by reading the SI of the neighbouring cell and reporting the acquired information to the network as specified in TS 38.331 [9] when the NE-DC is configured.	UE	Yes	No	No
<i>nr-CGI-Reporting-NPN-r16</i> Defines whether the UE supports acquisition of NPN-relevant CGI-information from a neighbouring intra-frequency or inter-frequency NR NPN cell by reading the SI of the neighbouring cell and reporting the acquired information to the network as specified in TS 38.331 [9]. If UE supports NPN, UE shall report this capability. It is optional for RedCap UEs.	UE	CY	No	No
<i>nr-CGI-Reporting-NRDC</i> Defines whether the UE supports acquisition of relevant information from a neighbouring intra-frequency or inter-frequency NR cell by reading the SI of the neighbouring cell and reporting the acquired information to the network as specified in TS 38.331 [9] when the NR-DC is configured wherein MN and SN have different DRX cycles, or on-duration configured by MN does not contain on-duration configured by SN if the DRX cycles are the same.	UE	Yes	No	No
<i>nr-NeedForGap-Reporting-r16</i> Indicates whether the UE supports reporting the measurement gap requirement information for NR target in the UE response to a network configuration RRC message.	UE	No	No	No
<i>pcellT312-r16</i> Indicates whether the UE supports T312 based fast failure recovery for PCell.	UE	No	No	No
preconfiguredUE-AutonomousMeasGap-r17 Indicates whether the UE supports the preconfigured measurement gap with UE- autonomous mechanism for activation and deactivation as specified in TS 38.133 [5].	UE	No	No	No
Editor's Note: current version assume procedure is specify in RAN4 spec. Change is needed according if it will specify in 331.				
<i>preconfiguredNW-ControlledMeasGap-r17</i> Indicates whether the UE supports the preconfigured measurement gap with network-controlled mechanism for activation and deactivation as specified in TS 38.133 [5].	UE	No	No	No
Editor's Note: current version assume procedure is specify in RAN4 spec. Change is needed according if it will specify in 331.				

Definitions for parameters	Per	м	FDD- TDD DIFF	FR1- FR2 DIFF
simultaneousRxDataSSB-DiffNumerology Indicates whether the UE supports concurrent intra-frequency measurement on serving cell or neighbouring cell and PDCCH or PDSCH reception from the serving cell with a different numerology as defined in clause 8 and 9 of TS 38.133 [5].	UE	No	No	Yes
<i>simultaneousRxDataSSB-DiffNumerology-Inter-r16</i> Indicates whether the UE supports concurrent SSB based inter-frequency measurement without measurement gap on neighbouring cell and PDCCH or PDSCH reception from the serving cell with a different numerology as defined in clause 8 and 9 of TS 38.133 [5]. UE indicates support of this indicates support of <i>interFrequencyMeas-NoGap-r16.</i> If this parameter is indicated for FR1 and FR2 differently, each indication corresponds to the frequency range where the SSB and PDCCH/PDSCH are received.	UE	No	No	Yes
sftd-MeasPSCell Indicates whether the UE supports SFTD measurements between the PCell and a configured PSCell. If this capability is included in UE-MRDC-Capability, it indicates that the UE supports SFTD measurement between PCell and PSCell in (NG)EN- DC. If this capability is included in UE-NR-Capability, it indicates that the UE supports SFTD measurement between PCell and PSCell in NR-DC.	UE	No	Yes	No
<i>sftd-MeasPSCell-NEDC</i> Indicates whether the UE supports SFTD measurement between the NR PCell and a configured E-UTRA PSCell in NE-DC.	UE	No	Yes	No
sftd-MeasNR-Cell Indicates whether the SFTD measurement with and without measurement gaps between the EUTRA PCell and the NR cells is supported by the UE which is capable of EN-DC/NGEN-DC when EN-DC/NGEN-DC is not configured. The SFTD measurement without gaps can be used when the UE supports at least one EN-DC band combination consisting of the set of the current E-UTRA serving frequencies and the NR frequency where SFTD measurement is configured. In UE-NR-Capability, this field is not used, and UE does not include the field.	UE	No	Yes	No
sftd-MeasNR-Neigh Indicates whether the inter-frequency SFTD measurement with and without measurement gaps between the NR PCell and inter-frequency NR neighbour cells is supported by the UE when MR-DC is not configured. The SFTD measurement without gaps can be used when the UE supports at least one DC or CA band combination consisting of the set of the current NR serving frequencies and the NR frequency where SFTD measurement is configured.	UE	No	Yes	No
<i>sftd-MeasNR-Neigh-DRX</i> Indicates whether the inter-frequency SFTD measurement using DRX off period between the NR PCell and the inter-frequency NR neighbour cells is supported by the UE when MR-DC is not configured.	UE	No	Yes	No
ssb-RLM Indicates whether the UE can perform radio link monitoring procedure based on measurement of SS/PBCH block as specified in TS 38.213 [11] and TS 38.133 [5]. This field shall be set to <i>supported</i> . This applies only to non-shared spectrum channel access. For shared spectrum channel access, <i>ssb-RLM- DynamicChAccess-r16</i> or <i>ssb-RLM-Semi-StaticChAccess-r16</i> applies.	UE	Yes	No	No
ssb-AndCSI-RS-RLM Indicates whether the UE can perform radio link monitoring procedure based on measurement of SS/PBCH block and CSI-RS as specified in TS 38.213 [11] and TS 38.133 [5]. If the UE supports this feature, the UE needs to report <i>maxNumberResource-CSI-RS-RLM</i> . This applies only to non-shared spectrum channel access. For shared spectrum channel access, <i>ssb-AndCSI-RS-RLM-r16</i> applies.	UE	No	No	No
ss-SINR-Meas Indicates whether the UE can perform SS-SINR measurement as specified in TS 38.215 [13]. If this parameter is indicated for FR1 and FR2 differently, each indication corresponds to the frequency range of measured target cell. This applies only to non-shared spectrum channel access. For shared spectrum channel access, ss-SINR-Meas-r16 applies.	UE	No	No	Yes

Definitions for parameters	Per	М	FDD- TDD DIFF	FR1- FR2 DIFF
supportedGapPattern Indicates measurement gap pattern(s) optionally supported by the UE for NR SA, for NR-DC, for NE-DC and for independent measurement gap configuration on FR2 in (NG)EN-DC. The leading / leftmost bit (bit 0) corresponds to the gap pattern 2, the next bit corresponds to the gap pattern 3, as specified in TS 38.133 [5] and so on. The UE shall set the bits corresponding to the measurement gap pattern 13, 14, 17, 18 and 19 to 1 if the UE is an NR standalone capable UE that supports a band in FR2 or if the UE is an (NG)EN-DC capable UE that supports <i>independentGapConfig</i> and supports a band in FR2.	UE	CY	No	No
supportedGapPattern-r16 Indicates measurement gap pattern(s) optionally supported by the UE for NR SA, for NR-DC for PRS measurement and NR/E-UTRA RRM measurement. The leading / leftmost bit (bit 0) corresponds to the gap pattern 24, the next bit corresponds to the gap pattern 25, as specified in TS 38.133 [5]. The applicability of the gap patterns 24 and 25 is defined in clause 9.1.2 of TS 38.133 [5]. A UE that indicates support of this capability shall indicate support of <i>NR-DL-PRS-ProcessingCapability-r16</i> defined in TS 37.355 [22].	UE	No	No	No
supportedGapPattern-NRonly-r16 Indicates measurement gap pattern(s) optionally supported by the UE for NR SA and NR-DC when the frequencies to be measured within this measurement gap are all NR frequencies. The leading / leftmost bit (bit 0) corresponds to the gap pattern 2, the next bit corresponds to the gap pattern 3 and so on. The UE shall set the bits corresponding to the measurement gap pattern 2, 3 and 11 to 1.	UE	FD	No	No
supportedGapPattern-NRonly-NEDC-r16 Indicates whether the UE supports gap patterns 2, 3 and 11 in NE-DC when the frequencies to be measured within this measurement gap are all NR frequencies.	UE	No	No	No

4.2.9a MeasAndMobParametersMRDC

Definitions for parameters	Per	М	FDD- TDD DIFF	FR1- FR2 DIFF
condPSCellChangeFDD-TDD-r16 Indicates whether the UE supports conditional PSCell change between FDD and TDD cells. The parameter can only be set if <i>condPSCellChange-r16</i> is set for at least one FDD band and one TDD band.	UE	No	No	No
<i>condPSCellChangeFR1-FR2-r16</i> Indicates whether the UE supports conditional PSCell change between FR1 and FR2. The parameter can only be set if <i>condPSCellChange-r16</i> is set for at least one FR1 band and one FR2 band.	UE	No	No	No
 inter-SN-condPSCellChangeFDD-TDD-ENDC-r17 Indicates whether the UE supports inter SN conditional PSCell change between FDD and TDD cells in EN-DC. The parameter can only be set if mn-InitiatedCondPSCellChange-FR1FDD-ENDC-r17 is supported and at least one of mn-InitiatedCondPSCellChange-FR1TDD-ENDC-r17 and mn- InitiatedCondPSCellChange-FR2TDD-ENDC-r17 is supported; or if sn-InitiatedCondPSCellChange-FR1FDD-ENDC-r17 is supported and at least one of sn-InitiatedCondPSCellChange-FR1FDD-ENDC-r17 is supported and at least one of sn-InitiatedCondPSCellChange-FR1FDD-ENDC-r17 is supported and at least one of sn-InitiatedCondPSCellChange-FR1FDD-ENDC-r17 is supported. 	UE	No	No	No
<i>inter-SN-condPSCellChangeFDD-TDD-NRDC-r17</i> Indicates whether the UE supports inter SN conditional PSCell change between FDD and TDD cells in NR-DC. The parameter can only be set if <i>mn-InitiatedCondPSCellChangeNRDC-r17</i> is set for at least one FDD band and one TDD band, or <i>sn-InitiatedCondPSCellChangeNRDC-r17</i> is set for at least one FDD band and one TDD band and one TDD band.	UE	No	No	No
 inter-SN-condPSCellChangeFR1-FR2-ENDC-r17 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-FR2TDD-ENDC-r17 is supported and at least one of 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. 	UE	No	No	No
<i>inter-SN-condPSCellChangeFR1-FR2-NRDC-r17</i> 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> <i>InitiatedCondPSCellChangeNRDC-r17</i> is set for at least one FR1 band and one FR2 band, or <i>sn-InitiatedCondPSCellChangeNRDC-r17</i> is set for at least one FR1 band and one FR2 band and one FR2 band.	UE	No	No	No
<i>mn-InitiatedCondPSCellChange-FR1FDD-ENDC-r17</i> 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 <i>conditionalReconfiguration</i> 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.	UE	No	No	No
<i>mn-InitiatedCondPSCellChange-FR1TDD-ENDC-r17</i> 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 <i>conditionalReconfiguration</i> 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.	UE	No	No	No
<i>mn-InitiatedCondPSCellChange-FR2TDD-ENDC-r17</i> 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 <i>conditionalReconfiguration</i> 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.	UE	No	No	No
<i>pscellT312-r16</i> Indicates whether the UE supports T312 based fast failure recovery for PSCell.	UE	No	No	No

Definitions for parameters	Per	М	FDD- TDD DIFF	FR1- FR2 DIFF
sn-InitiatedCondPSCellChange-FR1FDD-ENDC-r17 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 <i>conditionalReconfiguration</i> 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.	UE	No	No	No
sn-InitiatedCondPSCellChange-FR1TDD-ENDC-r17 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.	UE	No	No	No
<i>sn-InitiatedCondPSCellChange-FR2TDD-ENDC-r17</i> 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 <i>conditionalReconfiguration</i> 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.	UE	No	No	No

4.2.10 Inter-RAT parameters

Definitions for parameters	Per	М	FDD- TDD DIFF
mfbi-EUTRA	UE	Yes	No
Indicates whether the UE supports the mechanisms defined for cells broadcasting multi			
band information i.e. comprehending <i>multiBandInfoList</i> defined in TS 36.331 [17]. <i>modifiedMPR-BehaviorEUTRA</i>	UE	No	No
modifiedMPR-Behavior in 4.3.5.10, TS 36.306 [15].			NO
multiNS-Pmax-EUTRA	UE	No	No
multiNS-Pmax defined in 4.3.5.16, TS 36.306 [15].			-
ne-DC	UE	No	No
Indicates whether the UE supports NE-DC as specified in TS 37.340 [7].			
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	M	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 NR and IMS voice over E-UTRA via EPC.	UE	No	No	No
voiceOverEUTRA-5GC Indicates whether the UE supports IMS voice over E-UTRA via 5GC. It is mandated to the UE if the UE is capable of IMS voice over E-UTRA via 5GC. Otherwise, the UE does not include this field. If this field is included and the UE is capable of E-UTRA with EPC, the UE shall support IMS voice over E-UTRA via EPC.	UE	No	No	No
voiceOverNR, voiceOverNR-r17 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 information
0.	0-1	CP-OFDM waveform	1) CP-OFDM for DL	
Waveform,		for DL and UL	2) CP -OFDM for UL	
modulation	0-3	DL modulation scheme	1) QPSK modulation	
, subcarrier			2) 16QAM modulation	
spacings,			3) 64QAM modulation for FR1	
and CP	0-4	UL modulation scheme	1) QPSK modulation	
			2) 16QAM modulation	
1. Initial	1-1	Basic initial access	1) RACH preamble format	Only 1 preamble
access and		channels and	2) SS block based RRM measurement	for component
mobility		procedures	3) Broadcast SIB reception including RMSI/OSI and paging	 component component except paging
	1-3	SS block based RLM	SS-SINR measurement	
2. MIMO	2-1	Basic PDSCH	1) Data RE mapping	
		reception	2) Single layer transmission	
			3) Support one TCI state	
	2-5	Basic downlink DMRS	1) Support 1 symbol FL DMRS without additional symbol(s)	
		for scheduling type A	2) Support 1 symbol FL DMRS and 1 additional DMRS	
		• • •	symbol	
			3) Support 1 symbol FL DMRS and 2 additional DMRS	
			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	
			symbol	
	2-12	Basic PUSCH	Data RE mapping	
		transmission	Single layer (single Tx) transmission	
			Single port, single resource SRS transmission (SRS set	
			use is configured as for codebook)	
	2-16	Basic uplink DMRS	1) Support 1 symbol FL DMRS without additional symbol(s)	
		(uplink) for scheduling	2) Support 1 symbol FL DMRS and 1 additional DMRS	
		type A	symbols	
			3) Support 1 symbol FL DMRS and 2 additional DMRS	
			symbols	
	2-16a	Basic uplink DMRS	1) Support 1 symbol FL DMRS without additional symbol(s)	
		for scheduling type B	2) Support 1 symbol FL DMRS and 1 additional DMRS	
			symbol	
	2-22	Aperiodic beam report	Support aperiodic report on PUSCH	
	2-32	Basic CSI feedback	1) Type I single panel codebook based PMI (further discuss	
			which mode or both to be supported as mandatory)	
			2) 2Tx codebook for FR1 and FR2	
			3) 4Tx codebook for FR1	
			4) 8Tx codebook for FR1 when configured as wideband	
			CSI report	
			7) a-CSI on PUSCH (at least Z value >= 14 symbols, detail	
			processing time to be discussed separately)	
			further check a-CSI on p-CSI-RS and/or SP-CSI-RS from	
			component-7	
	2-50	Basic TRS	1) Support of TRS (mandatory)	
			2) All the periodicity are supported.	
	2-52	Basic SRS	1) Support 1 port SRS transmission	
			2) Support periodic/aperiodic SRS transmission	

3. DL control	3-1	Basic DL control	1) One configured CORESET per BWP per cell in addition to CORESET0	
3. DL control channel and procedure	3-1	channel	 1) One configured CORESET per BWP per cell in addition to CORESET0 CORESET resource allocation of 6RB bit-map and duration of 1 – 3 OFDM symbols for FR1 For type 1 CSS without dedicated RRC configuration and for type 0, 0A, and 2 CSSs, CORESET resource allocation of 6RB bit-map and duration 1-3 OFDM symbols for FR2 For type 1 CSS with dedicated RRC configuration and for type 3 CSS, UE specific SS, CORESET resource allocation of 6RB bit-map and duration 1-2 OFDM symbols for FR2 REG-bundle sizes of 2/3 RBs or 6 RBs Interleaved and non-interleaved CCE-to-REG mapping Precoder-granularity of REG-bundle size PDCCH DMRS scrambling determination TCI state(s) for a CORESET configuration 2) CSS and UE-SS configurations for unicast PDCCH transmission per BWP per cell PDCCH aggregation levels 1, 2, 4, 8, 16 UP to 3 search space sets in a slot for a scheduled SCell per BWP This search space limit is before applying all dropping 	
			rules. - For type 1 CSS with dedicated RRC configuration, type 3 CSS, and UE-SS, the monitoring occasion is within the first 3 OFDM symbols of a slot - For type 1 CSS without dedicated RRC configuration and for type 0, 0A, and 2 CSS, the monitoring occasion can be any OFDM symbol(s) of a slot, with the monitoring occasions for any of Type 1- CSS without dedicated RRC configuration, or Types 0, 0A, or 2 CSS configurations within a single span of three consecutive OFDM symbols within a slot 3) Monitoring DCI formats 0_0, 1_0, 0_1, 1_1 4) Number of PDCCH blind decodes per slot with a given SCS follows Case 1-1 table 5) Processing one unicast DCI scheduling DL and one unicast DCI scheduling UL per slot per scheduled CC for FDD	
4. UL control channel and procedure	4-1	Basic UL control channel	 PUCCH format 0 over 1 OFDM symbols once per slot PUCCH format 0 over 2 OFDM symbols once per slot with frequency hopping as "enabled" PUCCH format 1 over 4 – 14 OFDM symbols once per slot with intra-slot frequency hopping as "enabled" One SR configuration per PUCCH group HARQ-ACK transmission once per slot with its resource/timing determined by using the DCI 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 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 Semi-static beta-offset configuration for HARQ-ACK 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 codebook	Dynamic HARQ-ACK codebook	

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

Features	Index	Feature group	Components	Additional information
0. General	N/A	IAB procedures	 Routing using BAP protocol, as specified in TS 38.340 [23] Bearer mapping using BAP protocol, as specified in TS 38.340 [23] IAB-node IP address signalling over RRC, as specified in TS 38.331 	
1. PDCP	1-0	Basic PDCP procedures	 (de)Ciphering on SRB Integrity protection on SRB Timer based SDU discard Re-ordering and in-order delivery Duplicate discarding 18bits SN 	
2. RLC	2-0	Basic RLC procedures	1) RLC TM 2) RLC AM with 18bits SN 3) SDU discard	
	2-4	NR RLC SN size for SRB	NR RLC SN size for SRB	
3. MAC	3-0	Basic MAC procedures	 RA procedure on PCell IAB-MT initiated RA procedure (including for beam recovery purpose) NW initiated RA procedure (i.e. based on PDCCH) Support of ssb-Threshold and association between preamble/PRACH occasion and SSB Preamble grouping UL single TA maintenance HARQ operation for DL and UL LCH prioritization Prioritized bit rate Multiplexing SR with single SR configuration BSR PHR 8bits and 16bits L field 	
9. RRC	<u>9-1</u> 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 38.331 [9] and 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 specified in TS 37.324 [25].	MT			

4.2.15.4 PDCP Parameters

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

4.2.15.5 BAP Parameters

Definitions for parameters	Per	М	FDD- TDD DIFF	FR1- FR2 DIFF
bapHeaderRewriting-Rerouting-r17	IAB-	No	No	No
Indicates whether the IAB-MT supports BAP header rewriting based re-routing, including inter-donor DU local re-routing and/or inter-donor CU re-routing, as specified in TS 38.340 [23].	MT			
bapHeaderRewriting-Routing-r17	IAB-	No	No	No
Indicates whether the IAB-MT supports BAP header rewriting based inter-donor CU routing, including inter-donor CU partial migration and inter-donor CU routing for topology redundancy, as specified in TS 38.340 [23].	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
lcg-ExtensionIAB-r17	IAB-	No	No	No
Indicates whether the IAB-MT supports extended logical channel group as specified in TS 38.321 [8].	MT			
Icid-ExtensionIAB-r16	IAB-	No	No	No
Indicates whether the IAB-MT supports extended Logical Channel ID space using two-octet eLCID, as specified in TS 38.321 [8].	MT			
preEmptiveBSR-r16	IAB-	No	No	No
Indicates whether the IAB-MT supports Pre-emptive BSR as specified in TS 38.321 [8].	MT			

4.2.15.7 Physical layer parameters

4.2.15.7.1 BandNR parameters

Definitions for parameters	Per	М	FDD- TDD DIFF	FR1- FR2 DIFF
handoverIntraF-IAB-r16 Indicates whether the IAB-MT supports intra-frequency HO. It indicates the support for intra-frequency HO from the corresponding duplex mode if this capability is included in <i>fdd-Add-UE-NR-Capabilities</i> or <i>tdd-Add-UE-NR-Capabilities</i> . It indicates the support for intra-frequency HO in the corresponding frequency range if this capability is included in <i>fr1-Add-UE-NR-Capabilities</i> or <i>fr2-Add-UE-NR-Capabilities</i> . IAB-MT shall set the capability value consistently for all FDD-FR1 bands, all TDD-FR1 bands and all TDD-FR2 bands respectively.	Band	No	N/A	N/A
<i>multipleTCI</i> Indicates whether IAB-MT supports more than one TCI state configurations per CORESET. UE is only required to track one active TCI state per CORESET. UE is required to support minimum between 64 and number of configured TCI states indicated by <i>tci-StatePDSCH</i> .	Band	No	N/A	N/A
<i>rasterShift7dot5-IAB-r16</i> Indicates whether the IAB-MT supports 7.5kHz UL raster shift in the indicated band.	Band	No	N/A	N/A

4.2.15.7.2 Phy-Parameters

Definitions for parameters	Per	М	FDD- TDD DIFF	FR1- FR2 DIFF
<i>case6-TimingAlignmentReception-IAB-r17</i> Indicates whether the IAB-MT supports case 6 timing alignment reception as specified in TS 38.213 [11].	IAB -MT	No	No	No
case7-TimingAlignmentReception-IAB-r17 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 -MT	No	No	No
<i>dft-S-OFDM-WaveformUL-IAB-r16</i> Indicates whether the IAB-MT supports DFT-S-OFDM waveform for UL and transform precoding for single-layer PUSCH.	IAB -MT	No	No	No
dci-25-AI-RNTI-Support-IAB-r16 Indicates the support of monitoring DCI Format 2_5 scrambled by AI-RNTI for indication of soft resource availability to an IAB node as specified in TS 38.212 [10].	IAB -MT	No	No	No
<i>dl-tx-PowerAdjustment-IAB-r17</i> Indicates the support of desired DL Tx power adjustment reporting and DL Tx power adjustment reception.	IAB -MT	No	No	No
<i>guardSymbolReportReception-IAB-r16</i> Indicates the support of DesiredGuardSymbols reporting and ProvidedGuardSymbols reception as specified in TS 38.213 [11].	IAB -MT	No	No	No
<i>guardSymbolReportReception-IAB-r17</i> 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 -MT	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.				
<i>pdsch-MappingTypeA</i> Indicates whether the IAB-MT supports receiving PDSCH using PDSCH mapping type A with less than seven symbols.	IAB -MT	No	No	No
pucch-F2-WithFH Indicates whether the IAB-MT supports transmission of a PUCCH format 2 (2 OFDM symbols in total) with frequency hopping in a slot.	IAB -MT	No	No	Yes
pucch-F3-WithFH Indicates whether the IAB-MT supports transmission of a PUCCH format 3 (4~14 OFDM symbols in total) with frequency hopping in a slot.	IAB -MT	No	No	Yes
restricted-IAB-DU-BeamReception-r17 Indicates the support of restricted IAB-DU beam reception. recommended-IAB-MT-BeamTransmission-r17	IAB -MT	No	No	No
Indicates the support of recommended IAB-MT beam transmission for DL and UL beam.	IAB -MT	No	No	No
seperateSMTC-InterIAB-Support-r16 Indicates the support of up to 4 SMTCs configurations per frequency location, including IAB-specific SMTC window periodicities.	IAB -MT	No	No	No
seperateRACH-IAB-Support-r16 Indicates the support of separate RACH configurations including new IAB-specific offset and scaling factors.	IAB -MT	No	No	No
<i>t-DeltaReceptionSupport-IAB-r16</i> Indicates the support of T_delta reception for case 1 OTA timing alignment as specified in TS 38.213 [11].	IAB -MT	No	No	No
<i>ul-flexibleDL-SlotFormatSemiStatic-IAB-r16</i> Indicates the support of semi-static configuration/indication of UL-Flexible-DL slot formats for IAB-MT resources.	IAB -MT	No	No	No
<i>ul-flexibleDL-SlotFormatDynamics-IAB-r16</i> Indicates the support of dynamic indication of UL-Flexible-DL slot formats for IAB-MT resources.	IAB -MT	No	No	No

4.2.15.8 MeasAndMobParameters Parameters

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

4.2.15.9 MR-DC Parameters

Definitions for parameters	Per	Μ	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
f1c-OverNR-RRC-r17	IAB-	No	No	No
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 [x] and TS 37.340 [7].	МТ			
<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 basic NR L2 sidelink relay UE operation is supported by the UE.				
remoteUE-Operation-L2-r17	UE	No	No	No
Indicates whether basic 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
<i>am-WithLongSN-Sidelink-r16</i> Indicates whether the UE supports AM DRB with 18 bit length of RLC sequence number for sidelink.	UE	No	No	No
<i>um-WithLongSN-Sidelink-r16</i> Indicates whether the UE supports UM DRB with 12 bit length of RLC sequence number for sidelink.	UE	No	No	No

4.2.16.1.4 Sidelink MAC Parameters

Definitions for parameters	Per	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
<i>supportedBandCombinationListSidelinkEUTRA-NR-r16</i> Defines the supported NR sidelink communication and/or V2X sidelink communication band combinations by the UE. A fallback band combination resulting from the reported sidelink band combination shall be supported by the UE. The UE does not include this field if the UE capability is requested by E-UTRAN (see TS 36.331 [17]) and the network request includes the field <i>eutra-nr-only</i> .	UE	No	No	No
supportedBandCombinationListSidelinkNR-r16 Defines the supported joint NR sidelink communication band combinations by the UE. A fallback band combination resulting from the reported sidelink band combination shall be supported by the UE.	UE	No	No	No
supportedBandCombinationListSL-NonRelayDiscovery-r17 Defines the supported band combinations of NR sidelink non-relay discovery message transmission and reception by the UE.	UE	No	No	No
supportedBandCombinationListSL-RelayDiscovery-r17 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.	UE	No	No	No
supportedBandListSidelink-r16 Indicates frequency bands supported for NR sidelink communications and parameters supported for each frequency band, as specified in 4.2.16.1.6.	UE	No	No	No

4.2.16.1.6 BandSidelink Parameters

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

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

 <i>sI-TransmissionMode2-r16</i> Indicates whether transmitting NR sidelink mode 2 is supported. If supported, this parameter indicates the support of the capabilities and includes the parameters as follows: UE can transmit PSCCH/PSSCH using NR sidelink mode 2 configured by NR Uu or preconfiguration. <i>harq-TxProcessModeTwoSidelink</i>, which indicates the number of sidelink HARQ processes across all links that the UE supports for NR PSSCH transmission using mode 2. Value n8 corresponds to 8, n16 corresponds to 	Band	CY	N/A	N/A
 16. UE can transmit PSSCH according to the normal 64QAM MCS table. UE supports PT-RS transmission in FR2. UE can perform mode 2 sensing and resource allocation operations <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 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 transmission using 30 kHz subcarrier spacing with normal CP in FR1, 120 kHz subcarrier spacing with normal CP in FR2. 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. <i>dl-openLoopPC-Sidelink</i>, which indicates whether UE supports DL pathloss based open loop power control when mode 2 is configured by NR Uu, if the band is indicated with only the PC5 interface in 38.101-1 [2], Table 5.2E.1-1. Otherwise, it is mandatory. 				
This field is only applicable if the UE supports <i>sl-Reception-r16</i> . NOTE 1: Random selection in the exceptional pool is supported. NOTE 2: Configuration by NR Uu is not required to be supported in a band				
indicated with only the PC5 interface in 38.101-1 [2] Table 5.2E.1-1. Support of this feature is mandatory if UE supports NR sidelink.				

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

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

<i>sl-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 NR sidelink.				
ue-PowerClassSidelink-r16	Band	No	N/A	N/A
This parameter indicates the supported power class for this band used for sidelink.				

4.2.16.1.7 BandCombinationListSidelinkEUTRA-NR Parameters

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

4.2.16.2 Sidelink Parameters in E-UTRA

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

4.2.16.2.1 BandSideLinkEUTRA parameters

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

4.2.17 SON parameters

Definitions for parameters	Per	М	FDD- TDD DIFF	FR1- FR2 DIFF
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 <i>UEInformationResponse</i> message as specified in TS 38.331 [9].				
rach-Report-r16	UE	No	No	No
Indicates whether the UE supports delivery of rachReport 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.				
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- TDD DIFF	FR1- FR2 DIFF
<i>barometerMeasReport-r16</i> Indicates whether UE supports uncompensated barometeric pressure measurement reporting upon request from the network.	UE	No	No	No
excessPacketDelay-r17 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].	UE	No	No	No
<i>immMeasBT-r16</i> Indicates whether the UE supports Bluetooth measurements in RRC_CONNECTED state.	UE	No	No	No
<i>immMeasWLAN-r16</i> Indicates whether the UE supports WLAN measurements in RRC_CONNECTED state.	UE	No	No	No
<i>loggedMeasBT-r16</i> Indicates whether the UE supports Bluetooth measurements in RRC_IDLE and RRC_INACTIVE state.	UE	No	No	No
loggedMeasurements-r16 Indicates whether the UE supports logged measurements in RRC_IDLE and RRC_INACTIVE. A UE that supports logged measurements shall support both periodical logging and event-triggered logging. The memory size of MDT logged measurements is 64KB.	UE	No	No	No
<i>loggedMeasWLAN-r16</i> Indicates whether the UE supports WLAN measurements in RRC_IDLE and RRC_INACTIVE state.	UE	No	No	No
<i>multipleCEF-Report-r17</i> Indicates whether the UE supports the storage and delivery of multiple CEF upon request from the network.	UE	No	No	No
<i>orientationMeasReport-r16</i> Indicates whether the UE supports orientation information reporting upon request from the network.	UE	No	No	No
sigBasedLogMDT-OverrideProtect-r17 Indicates whether the UE supports the override protection of the signalling based Logged MDT configured in NR.	UE	No	No	No
<i>speedMeasReport-r16</i> Indicates whether the UE supports speed information reporting upon request from the network.	UE	No	No	No
<i>gnss-Location-r16</i> Indicates whether the UE is equipped with a GNSS or A-GNSS receiver that may be used to provide detailed location information along with SON, MDT, and NTN related measurements in RRC_CONNECTED, RRC_IDLE and RRC_INACTIVE. A UE shall set this field to <i>supported</i> if it indicates the support of <i>nonTerrestrialNetwork-r17</i> .	UE	CY	No	No
ulPDCP-Delay-r16 Indicates whether the UE supports UL PDCP Packet Average Delay measurement (as specified in TS 38.314 [26]) and reporting in RRC_CONNECTED state.	UE	No	No	No

4.2.19 High speed parameters

Definitions for parameters	Per	М	FDD- TDD DIFF	FR1- FR2 DIFF
<i>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 to support high speed up to 500 km/h as specified in TS 38.133 [5]. This field applies to MN configured measurement enhancement when MR-DC is not configured and SN configured measurement enhancement when (NG)EN-DC is configured.	UE	No	No	FR1 only
<i>measurementEnhancementCA-r17</i> 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].	UE	No	No	FR1 only
<i>measurementEnhancementInterFreq-r17</i> 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].	UE	No	No	FR1 only

4.2.20 QoE measurement parameters

Definitions for parameters	Per	М	FDD- TDD DIFF	FR1- FR2 DIFF
<i>qoe-Streaming-MeasReport-r17</i> Indicates whether the UE supports NR QoE Measurement Collection for streaming services, see TS 26.247 [29].	UE	No	No	No
<i>qoe-MTSI-MeasReport-r17</i> Indicates whether the UE supports NR QoE Measurement Collection for MTSI services, see TS 26.114 [30].	UE	No	No	No
<i>qoe-VR-MeasReport-r17</i> Indicates whether the UE supports NR QoE Measurement Collection for VR services, see TS 26.118 [31].	UE	No	No	No
<i>ran-VisibleQoE-Streaming-MeasReport-r17</i> Indicates whether the UE supports RAN visible QoE Measurement Collection for streaming services.	UE	No	No	No
<i>ran-VisibleQoE-VR-MeasReport-r17</i> Indicates whether the UE supports RAN visible QoE Measurement Collection for VR services.	UE	No	No	No
<i>ul-MeasurementReportAppLayer-Seg-r17</i> Indicates whether the UE supports RRC segmentation of the MeasurementReportAppLayer message in UL, as specified in TS 38.331 [9].	UE	No	No	No

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;
- 1 DL MIMO layer if 1 Rx branch is supported, and 2 DL MIMO layers if 2 Rx branches are supported. UE features and corresponding capabilities related to more than 2 UE Rx branches and more than 2 DL MIMO layers, as well as UE features and capabilities related to more than 2 UE Tx branches and more than 2 UL MIMO layers 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.

Editor's Note: May be updated based on latest RAN1 and RAN4 agreements.

4.2.21.2 General parameters

Definitions for parameters	Per	м	FDD- TDD DIFF
<i>supportOf16DRB-RedCap-r17</i> Indicates whether the RedCap UE supports 16 DRBs. This capability is only applicable for RedCap UEs.	UE	No	No
 supportOfRedCap-r17 Indicates that the UE is a RedCap UE with comprised of at least the following functional components: Maximum FR1 RedCap UE bandwidth is 20 MHz; Maximum FR2 RedCap UE bandwidth is 100 MHz; Support of RedCap early indication based on Msg1, MsgA and Msg3 for random access; A RedCap UE shall set the field to supported. 	UE	No	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. This capability is only applicable for RedCap UEs.			

4.2.21.4 RLC parameters

Definitions for parameters	Per	М	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.			

5 Optional features without UE radio access capability parameters

5.1 PWS features

Definitions for feature

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

ETWS

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

KPAS

It is optional for UE to support Korean Public Alert System (KPAS) reception as specified in TS 38.331 [9]. KPAS uses the same AS mechanisms as defined for CMAS. Therefore a KPAS-capable UE shall support all behaviour that is included in TS 38.331 [9] and TS 38.304 [21] for a CMAS-capable UE.

EU-Alert

It is optional for UE to support EU-Alert reception as specified in TS 38.331 [9]. EU-Alert uses the same AS mechanisms as defined for CMAS. Therefore a EU-Alert-capable UE shall support all behaviour that is included in TS 38.331 [9] and TS 38.304 [21] for a CMAS-capable UE.

5.2 UE receiver features

Definitions for feature

SU-MIMO Interference Mitigation advanced receiver

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

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

5.3 RRC connection

Definitions for feature			
RRC connection release with deprioritisation			
It is optional for UE to support <i>RRCRelease</i> with <i>deprioritisationReq</i> as specified in TS 38.331 [9].			
RRC connection establishment failure with temporary offset			
It is antisenal familie to summant BDO as an active so tablisher out failure with taken any effect (O affect (Lener)) as an active d			

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

5.4 Other features

Definitions for feature	
Segmentation for UE capability information	
is optional for UE to support segmentation of UECapabilityInformation as specified in TS 38.331 [9].	
Call over IMS	
: is optional for UE to support eCall over IMS as specified in TS 38.331 [9].	
Access Category 1 selection assistance information enhancement	
t is optional for UE that is configured for delay tolerant service to support Access Category 1 selection assistance information enhancement, according to <i>uac-AC1-SelectAssistInfo-r16</i> as specified in TS 38.331 [9].	
Random access prioritization for MPS and MCS	
is optional for UE that is configured for MPS or MCS to support random access prioritization for Access Identity 1	or
as specified in TS 38.321 [8].	
ISDN cell reselection	
: is optional for UE to support HSDN cell reselection priority handling in RRC_IDLE/RRC_INACTIVE as specified i S 38.304 [21] and TS 38.331 [9].	ı
RS occasions for idle mode and RRC_INACTIVE UEs	
is optional for UE to support reading TRS configuration from SIB and receiving L1 indication for TRS availability	
Animization of service interruption	
is optional for UE to support minimization of service interruption including reporting to NAS of disaster roaming	
nformation for available PLMNs and Access Barring check for Access Identity 3, as specified in TS 38.331 [9].	
Random access prioritisation for Slicing	
is optional for UE to support slice based prioritisation for random access as specified in TS 38.321 [8].	
Random access partitioning for Slicing	
is optional for UE to support slice based RACH partitioning as specified in TS 38.321 [8].	

5.5 Sidelink Features

Definitions for feature

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

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

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

Rank 2 PSSCH transmission

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

5.6 RRM measurement features

Definitions for feature

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].

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].

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 <i>failedPCellId</i> in <i>RLF-Report</i> 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 SpCell ID in the RA-Report, if the RA procedure is performed in a
SCell of the MCG/SCG.

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].

6 Conditionally mandatory features without UE radio access capability parameters

Features	Condition
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].
Downlink SDAP header	Either NAS reflective QoS or as-ReflectiveQoS is supported.
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 MDT measurement suspension due to IDC interference	It is mandatory to support Logged MDT measurement 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].
Skipping UL configured grant if no data to transmit.	Either configuredUL-GrantType1 or configuredUL-GrantType2 is supported.

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		
 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. 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. NOTE 3: This requirement is applicable in NR SA, NR-DC and NE-DC. NOTE 4: The value of parameter #DRBs defines the total number of multicast MRBs and DRBs, and the 				
maximum number of split-MRBs is two.				

Annex A (normative): Differentiation of capabilities

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

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

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

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

UE-NR-Capability or	Classification		
UE-MRDC-Capability			
eventA-MeasAndReport	PSCell		
dl-SchedulingOffset-PDSCH-TypeA (Note3)	Associated serving cells		
dl-SchedulingOffset-PDSCH-TypeB (Note3)	Associated serving cells		
dynamicSFI (Note3)	Associated serving cells		
handoverInterF	PCell		
handoverLTE-EPC	PCell		
handoverLTE-5GC	PCell		
intraAndInterF-MeasAndReport	PSCell		
logicalChannelSR-DelayTimer(Note2)	Associated serving cells		
longDRX-Cycle	All serving cells		
multipleConfiguredGrants(Note1)	Associated serving cells		
multipleSR-Configurations	Per serving cell		
secondaryDRX-Group-r16	All serving cells		
sftd-MeasNR-Cell	PCell		
sftd-MeasNR-Neigh	PCell		
sftd-MeasNR-Neigh-DRX	PCell		
sftd-MeasPSCell	PCell		
sftd-MeasPSCell-NEDC	PCell		
shortDRX-Cycle	All serving cells		
skipUplinkTxDynamic	Per serving cell		
twoDifferentTPC-Loop-PUCCH (Note3)	Associated serving cells		
twoDifferentTPC-Loop-PUSCH (Note3)	Associated serving cells		
ul-SchedulingOffset (Note3)	Associated serving cells		
NOTE 1: The associated serving cells includi	ng the serving cell(s) configured		
with configured grant.			
NOTE 2: For a given logical channel, the ass			
PUCCH cell(s) associated with this	logical channel (via		
schedulingRequestID).			
NOTE 3: The associated serving cells including both the cell sending the			
command and the cell applying the command.			

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

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 Icl	
	all serving cells in the CG; for a UE
that supports Ich-ToSCellRestricti	
serving cells includes the serving	cells indicated by
allowedServingCells for the LCH.	
NOTE 2: The associated serving cells inclu	
command and the cell applying th	e command.

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

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

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

A UE that indicates support for sidelink:

- For the fields for which the UE is allowed to indicate different support for FDD and TDD, the UE shall support the feature on the PCell and/or SCell(s) for Uu interface, as specified in tables A.3-1 in accordance to the following rules:
 - Per serving cell: the UE shall support the feature for a serving cell if the UE indicates support of the feature for the serving cell's duplex mode;
 - Associated serving cells: UE shall support the feature if the UE indicates support of the feature for all associated serving cells's duplex modes;
- For the fields where the UE is not allowed to indicate different support for FDD and TDD, the UE shall support the feature for PCell and SCell(s) for Uu interface and carrier for PC5 interface if the UE indicates support of the feature via the common capability bit.

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

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

A.4: Sidelink capabilities applicable to Uu and PC5

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

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

Sidelink Parameter	UECapabilityInformation	UECapabilityInformationSidelink
accessStratumReleaseSi		X
delink		
outOfOrderDeliverySideli		X
nk		
am-WithLongSN-Sidelink	Х	X
um-WithLongSN-Sidelink	Х	X
Icp-RestrictionSidelink	Х	
logicalChannelSR-	Х	
DelayTimerSidelink		
multipleSR-	Х	
ConfigurationsSidelink		
multipleConfiguredGrants	Х	
Sidelink	~	
supportedBandCombinati	Х	
onListSidelinkEUTRA-NR	~	
supportedBandCombinati		X
onListSidelinkNR		~
gnb-	X	
ScheduledMode3Sidelink		
EUTRA		
	Х	
gnb- ScheduledMode4Sidelink	^	
EUTRA	×	× ·
sl-Reception	X X	Х
sl-TransmissionMode1		
sl-TransmissionMode2	X	
sync-Sidelink	X	
congestionControlSidelin	X	
k		
sl-Tx-256QAM	Х	X
sl-Rx-256QAM	Х	X
psfch-	Х	
FormatZeroSidelink		
lowSE-64QAM-MCS-	X	X
TableSidelink		
csi-ReportSidelink		Х
enb-sync-Sidelink	Х	
rankTwoReception		X
fewerSymbolSlotSidelink	Х	
sl-openLoopPC-RSRP-	Х	Х
ReportSidelink		
tx-Sidelink	Х	
rx-Sidelink	X	1
ue-PowerClassSidelink	X	1
drx-OnSidelink	X	X
enhancedUuDRX-	X	
forSidelink	^	
relayUE-Operation-L2	X	
	X	
remoteUE-Operation-L2		
remoteUE-	X	
PathSwitchToldleInactive		
Relay		
supportedBandCombinati	X	
onListSL-RelayDiscovery		
supportedBandCombinati	Х	
onListSL-		
NonRelayDiscovery		

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

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

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

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

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

UE-NR-Capability	Classification			
activeConfiguredGrant-r16	Triggered serving cell			
aperiodicTRS	Triggered serving cell			
beamSwitchTiming, beamSwitchTiming-r16	Triggered serving cell			
bwp-DiffNumerology (NOTE 1)	Triggering&Triggered serving cells			
bwp-SameNumerology (NOTE 1)	Triggering&Triggered serving cells			
crossCarrierScheduling-SameSCS	Triggering&Triggered serving cells			
crossCarrierSchedulingProcessing-DiffSCS-r16	Triggering&Triggered serving cells			
(NOTE 2)				
dynamicSFI-r16	Triggering&Triggered serving cells			
jointReleaseConfiguredGrantType2-r16	Triggered serving cell			
jointReleaseSPS-r16	Triggered serving cell			
pdcch-MonitoringAnyOccasionsWithSpanGap	Triggering&Triggered serving cells			
(NOTE 3)				
sps-r16	Triggered serving cell			
ue-SpecificUL-DL-Assignment	Triggering&Triggered serving cells			
ul-CancellationCrossCarrier-r16	Triggering&Triggered serving cells			
NOTE 1: For bwp-DiffNumerology and bwp-Same				
for each band is still based on the indica				
whether it is a scheduling cell or schedu				
	DiffSCS-r16, if reported value is different			
	gered/indicated cell and the band of the			
scheduling/triggering/indicating cell, the				
scheduling/triggering/indicating cell is a				
	with the same SCS in the scheduling cell and			
the scheduled cell. If the reported value				
	he band of the scheduling/triggering/indicating			
ceil, the value reported for the schedulir	ling/triggering/indicating cell is applied.			

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

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

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

ę	Support for the feature		Setting of UE capability fields									
		Common UE capability (with suffix '- XDD-Diff')	Common UE capability (with suffix '- FRX-diff')	fdd-Add-UE- NR/MRDC- Capabilities	tdd-Add-UE- NR/MRDC- Capabilities	fr1-Add-UE- NR/MRDC- Capabilities	fr2-Add-UE- NR/MRDC- Capabilities					
Case 1	FR1 FDD: 'supported' FR1 TDD: 'supported' FR2 TDD: 'supported'	Included	Included	Not included	Not included	Not included	Not included					
Case 2	FR1 FDD: 'not supported' FR1 TDD: 'not supported' FR2 TDD: 'not supported'	Not included	Not included	Not included	Not included	Not included	Not included					
Case 3	FR1 FDD: 'not supported' FR1 TDD: 'supported'	Not included	Included	Not included	Included	Not included	Not included					
FR2 TDD: 'supported'	Not included	Not included	Not included	Included	Not included	Not included						
Case 4	FR1 FDD: 'not supported' FR1 TDD: 'not supported' FR2 TDD: 'supported'	Not included	Not included	Not included	Included	Not included	Included					
Case 5	FR1 FDD: 'not supported' FR1 TDD: 'supported' FR2 TDD: 'not supported'	Not included	Not included	Not included	Included	Included	Not included					
Case 6	FR1 FDD: 'supported' FR1 TDD: 'not supported' FR2 TDD: 'supported'	The current UE of	capability signalling	g does not support	the UE capability	indication for this c	ase.					
Case 7	FR1 FDD: 'supported' FR1 TDD: 'not supported' FR2 TDD: 'not supported'	Not included	Not included	Included	Not included	Included	Not included					
Case 8	FR1 FDD: 'supported' FR1 TDD: 'supported' FR2 TDD: 'not supported'	Included	Not included	Not included	Not included	Included	Not included					
		Not included	Not included	Not included	Not included	Included	Not included					

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

Change history							
Date	Meetin g	TDoc	CR	Rev	Cat	Subject/Comment	New version
06/2017		R2-1704810				First version	0.0.1
06/2017		R2-1707386					0.0.2
08/2017		R2-1708750					0.0.3
12/2017		R2-1712587					0.0.4
12/2017		R2-1714141					0.0.5
12/2017		R2-1714271					0.1.0
12/2017	RP-78	RP-172521				Submitted to RAN#78 for approval	1.0.0
12/2017	RP-78					Upgraded to Rel-15	15.0.0
03/2018	RP-79	RP-180440	0003	3	F	Updates on UE capabilities	15.1.0
06/2018	RP-80	RP-181216	0009	2	В	Introduce ANR in NR	15.2.0
		RP-181216	0012	1	F	Miscellaneous corrections	15.2.0
00/0040		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	0008	4	F	Correction on total layer2 buffer size Introduction of UE capability constraints	15.3.0
		RP-181942 RP-181942	0024	-	F	38.306 corrections and cleanup	15.3.0 15.3.0
12/2018		RP-182651	0030	4	F	Clarification for Interruption-based and gap-based SFTD measurement	15.4.0
12/2010		RP-182653	0033	1	F	Timer based BWP switching	15.4.0
		RP-182652	0035	2	F	Additional UE capabilities for NR standalone	15.4.0
		RP-182651	0037	1	F	Clarification to UE capability of independentGapConfig for inter-RAT	15.4.0
	RP-82	RP-182661	0038	2	F	NR measurement not yet configured with EN-DC Update of L2 capability parameters	15.4.0
	RP-82	RP-182660	0038	2	F	Clarification on physical layer parameters of UE capability	15.4.0
		RP-182666	0050	3	F	Introduce RRC buffer size in NR	15.4.0
		RP-182664	0051	2	F	Clarification of multipleConfiguredGrants	15.4.0
	RP-82	RP-182664	0052	2	F	CR to 38.306 for PDCP CA duplication for SRB	15.4.0
		RP-182661	0054	1	F	UE capability handling for FDD/TDD and FR1/FR2	15.4.0
	RP-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-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-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-82	RP-182667 RP-182664	0068 0071	2	B F	CR on introduction of UE overheating support in NR SA scenario Introduction of SRS switching capability	15.4.0 15.4.0
03/2019	RP-83	RP-190634	0071	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-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 usage	15.5.0
	RP-83	RP-190543	0099	-	F	Clarification on signaling the bandwidth class	15.5.0
	RP-83	RP-190545	0100	1	F	Clarification on Frequency Separation Class	15.5.0
	RP-83	RP-190544	0101	-	F	CR on Processing delay requirements for RRC Resume procedures in TS 38.306	15.5.0
06/2019	RP-84	RP-191375	0094	1	F	CR to clarify ul-TimingAlignmentEUTRA-NR	15.6.0
-		RP-191373	0108	-	F	Layer-1, RF and RRM capability updates	15.6.0
	RP-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-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-191381	0118 0119	4	F	Clarification on supported modulation order capability	15.6.0
		RP-191374 RP-191381	0119	- 3	F	Correction to PDCP parameters Corrections to UE Capability definitions	15.6.0 15.6.0
		RP-191361 RP-191378	0121	1	F	38.306 Clarification on multiple TA capabilities	15.6.0
				1 1			

		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	-	F	Correction to Beam Correspondence for CA	15.6.0
	RP-84	RP-191379	0130 0132	2	F	Correction on the number of DRB in UE Capability Constraints	15.6.0
	RP-84 RP-84	RP-191379 RP-191376	0132	1	F F	CR to capture UE supported DL/UL bandwidths UE capability signalling for FD-MIMO processing capabilities for EN-	15.6.0 15.6.0
	_					DC	
	RP-84	RP-191376	0134	-	F	Modified UE capability on different numerologies within the same PUCCH group	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	В	Introduction of SFTD measurement to neighbour cells for NR SA	15.7.0
	RP-85	RP-192193	0146	1	F	MR-DC measurement gap pattern capability	15.7.0
	RP-85	RP-192194	0151	3	F	Clarifying UE capability freqHoppingPUCCH-F0-2 and freqHoppingPUCCH-F1-3-4	15.7.0
	RP-85	RP-192190	0152	-	F	Clarification to dynamic power sharing capability	15.7.0
	RP-85	RP-192192	0153	2	F	Miscellaneous corrections	15.7.0
	RP-85	RP-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
	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
	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- RepetitionMultiSlots	15.8.0
	RP-86	RP-192937	0215	1	F	Correction on initial BWP bandwidth capabilities	15.8.0
	RP-86	RP-192937	0216	1	F	NE-DC dynamic power sharing capability	15.8.0
	RP-86	RP-192935	0219	-	F	Clarification on crossCarrierScheduling-OtherSCS in R15	15.8.0
	RP-86	RP-192937	0220	-	F	Correction on ambiguity of UE FDD/TDD FR1/FR2 capabilities	15.8.0
03/2020	RP-87	RP-200334	0194	2	F	Correction on parameter description of beamManagementSSB-CSI- RS	15.9.0
	RP-87	RP-200335	0208	3	F	CR on BWCS for inter-ENDC BC with intra-ENDC BC (38.306)	15.9.0
	RP-87	RP-200335	0209	5	F	CR to 38.306 on support of 70MHz channel bandwidth	15.9.0
		RP-200334	0236	-	F	Correction on SRB capability in NR-DC	15.9.0
	RP-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 UE capability parameters	15.9.0
	RP-87	RP-200335	0259	1	F	UE capability of intra-band requirements for inter-band EN-DC/NE-DC	15.9.0
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	-	B	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	A	CR on introduction of BCS to asymmetric channel bandwidths (38.306)	16.1.0
	RP-88	RP-201160	0295	1	A	SRS Capability report for SRS only Scell	16.1.0
	RP-88	RP-201159	0299	-	A	Clarification on L1 feature of NGEN-DC and NE-DC	16.1.0
	RP-88	RP-201161	0304	2	A	Default values for UE capability	16.1.0
	RP-88	RP-201163	0312	1	A	Invalidating bandwidth class F for FR1	16.1.0
			T	r .			1010
	RP-88	RP-201163	0318	1	А	Missing "Optional features without UE radio access capability parameters"	16.1.0

	RP-88	RP-201163	0320	1	А	Missing UE capability requirements	16.1.0
	RP-88	RP-201103 RP-201198	0320	1	C	Introduction of secondary DRX group CR 38.306	16.1.0
	RP-88	RP-201164	0324	2	A	Correction on UE capability constraints	16.1.0
	RP-88	RP-201183	0324	2	В	UE capability of supporting UL Tx switching	16.1.0
	RP-88	RP-201217	0320	2	B	Release-16 UE capabilities based on RAN1, RAN4 feature lists and	16.1.0
		101201217	0525	~	5	RAN2	10.1.0
	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	А	Clarification on the support of IMS voice over split bearer for NR-DC	16.1.0
						and NE-DC	
	RP-88	RP-201162	0343	1	А	Clarification on maximum number of supported PDSCH Resource	16.1.0
						Element mapping patterns	
	RP-88	RP-201164	0344	2	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	А	Correction on UE capability signalling for simultaneous SRS antenna	16.1.0
						and carrier switching	
	RP-88	RP-201163	0362	-	A	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	16.2.0
					<u> </u>	RAN2 corrections	
	RP-89	RP-201938	0378	1	A	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	A	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	A	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	16.3.0
	DD 00		0.40.4	_	_	RAN2 corrections	10.0.0
	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	-	A	Clarification on NE-DC for bandwidth combination set	16.3.0
	RP-90	RP-202790	0453	1	A	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
	BD 00		0476		^	Dummity LIE appohility of arose Carrier School uling Other SCS	1620
	RP-90	RP-202770	0476	-	A	Dummify UE capability of crossCarrierScheduling-OtherSCS	16.3.0
	RP-90	RP-202770 RP-202789	0479	- 1	А	Clarification for multipleCORESET	16.3.0
03/2021	RP-90 RP-90	RP-202770 RP-202789 RP-202882	0479 0481	-	A A	Clarification for multipleCORESET CR to 38.306 on handling of fallbacks for FR2 CA	16.3.0 16.3.0
03/2021	RP-90 RP-90 RP-91	RP-202770 RP-202789 RP-202882 RP-210689	0479 0481 0482	-	A A F	Clarification for multipleCORESET CR to 38.306 on handling of fallbacks for FR2 CA Update on V2X UE capability	16.3.0 16.3.0 16.4.0
03/2021	RP-90 RP-90 RP-91 RP-91	RP-202770 RP-202789 RP-202882 RP-210689 RP-210693	0479 0481 0482 0483	- - 1	A A F F	Clarification for multipleCORESET CR to 38.306 on handling of fallbacks for FR2 CA Update on V2X UE capability CR for the supported max date rate for uplink Tx switching	16.3.0 16.3.0 16.4.0 16.4.0
03/2021	RP-90 RP-90 RP-91 RP-91 RP-91	RP-202770 RP-202789 RP-202882 RP-210689 RP-210693 RP-210697	0479 0481 0482 0483 0485	- - 1 -	A A F F F	Clarification for multipleCORESET CR to 38.306 on handling of fallbacks for FR2 CA Update on V2X UE capability CR for the supported max date rate for uplink Tx switching UE capability of NR to UTRA-FDD CELL_DCH CS handover	16.3.0 16.3.0 16.4.0 16.4.0 16.4.0
03/2021	RP-90RP-90RP-91RP-91RP-91RP-91	RP-202770 RP-202789 RP-202882 RP-210689 RP-210693 RP-210697 RP-210697	0479 0481 0482 0483 0485 0489	- - 1 - 2	A F F F A	Clarification for multipleCORESET CR to 38.306 on handling of fallbacks for FR2 CA Update on V2X UE capability CR for the supported max date rate for uplink Tx switching UE capability of NR to UTRA-FDD CELL_DCH CS handover Correction on beamSwitchTiming capability	16.3.0 16.3.0 16.4.0 16.4.0 16.4.0 16.4.0
03/2021	RP-90 RP-90 RP-91 RP-91 RP-91 RP-91 RP-91	RP-202770 RP-202789 RP-202882 RP-210689 RP-210693 RP-210697 RP-210697 RP-210697	0479 0481 0482 0483 0485 0485 0489 0490	- - 1 - 2 1	A F F F A F	Clarification for multipleCORESET CR to 38.306 on handling of fallbacks for FR2 CA Update on V2X UE capability CR for the supported max date rate for uplink Tx switching UE capability of NR to UTRA-FDD CELL_DCH CS handover Correction on beamSwitchTiming capability Correction on beamSwitchTiming-r16 capability	16.3.0 16.4.0 16.4.0 16.4.0 16.4.0 16.4.0 16.4.0 16.4.0
03/2021	RP-90 RP-90 RP-91 RP-91 RP-91 RP-91 RP-91 RP-91	RP-202770 RP-202789 RP-202882 RP-210689 RP-210693 RP-210697 RP-210697 RP-210697 RP-210697	0479 0481 0482 0483 0485 0485 0489 0490 0491	- - 1 - 2 1 1 1	A F F F A F	Clarification for multipleCORESET CR to 38.306 on handling of fallbacks for FR2 CA Update on V2X UE capability CR for the supported max date rate for uplink Tx switching UE capability of NR to UTRA-FDD CELL_DCH CS handover Correction on beamSwitchTiming capability Correction on beamSwitchTiming-r16 capability Correction on TPMI grouping capability	16.3.0 16.3.0 16.4.0 16.4.0 16.4.0 16.4.0 16.4.0 16.4.0
03/2021	RP-90 RP-90 RP-91 RP-91 RP-91 RP-91 RP-91 RP-91 RP-91	RP-202770 RP-202789 RP-202882 RP-210689 RP-210693 RP-210697 RP-210697 RP-210697 RP-210697 RP-210692	0479 0481 0482 0483 0485 0489 0490 0491 0501	- - 1 - 2 1 1 -	A F F A F F F	Clarification for multipleCORESET CR to 38.306 on handling of fallbacks for FR2 CA Update on V2X UE capability CR for the supported max date rate for uplink Tx switching UE capability of NR to UTRA-FDD CELL_DCH CS handover Correction on beamSwitchTiming capability Correction on beamSwitchTiming-r16 capability Correction on TPMI grouping capability Dummifying intraFreqMultiUL-TransmissionDAPS-r16 capability	16.3.0 16.3.0 16.4.0 16.4.0 16.4.0 16.4.0 16.4.0 16.4.0 16.4.0
03/2021	RP-90 RP-91	RP-202770 RP-202789 RP-202882 RP-210689 RP-210693 RP-210697 RP-210697 RP-210697 RP-210697 RP-210692 RP-210694	0479 0481 0482 0483 0485 0489 0490 0490 0491 0501 0502	- 1 - 2 1 - 1 - 1 - 1	A F F A F F F F	Clarification for multipleCORESET CR to 38.306 on handling of fallbacks for FR2 CA Update on V2X UE capability CR for the supported max date rate for uplink Tx switching UE capability of NR to UTRA-FDD CELL_DCH CS handover Correction on beamSwitchTiming capability Correction on beamSwitchTiming-r16 capability Correction on TPMI grouping capability Dummifying intraFreqMultiUL-TransmissionDAPS-r16 capability Corrections on UE capability for NR-U	16.3.0 16.3.0 16.4.0 16.4.0 16.4.0 16.4.0 16.4.0 16.4.0 16.4.0 16.4.0 16.4.0
03/2021	RP-90 RP-91	RP-202770 RP-202789 RP-202882 RP-210689 RP-210693 RP-210697 RP-210697 RP-210697 RP-210697 RP-210692 RP-210694 RP-210703	0479 0481 0482 0483 0485 0489 0490 0491 0501 0502 0503	- - 1 - 2 1 1 - 1 - 1 2	A F F A F F F F F	Clarification for multipleCORESET CR to 38.306 on handling of fallbacks for FR2 CA Update on V2X UE capability CR for the supported max date rate for uplink Tx switching UE capability of NR to UTRA-FDD CELL_DCH CS handover Correction on beamSwitchTiming capability Correction on beamSwitchTiming-r16 capability Correction on TPMI grouping capability Dummifying intraFreqMultiUL-TransmissionDAPS-r16 capability Corrections on UE capability for NR-U Release with Redirect for connection resume triggered by NAS	16.3.0 16.3.0 16.4.0 16.4.0 16.4.0 16.4.0 16.4.0 16.4.0 16.4.0 16.4.0 16.4.0 16.4.0 16.4.0 16.4.0 16.4.0
03/2021	RP-90 RP-90 RP-91 RP-91 RP-91 RP-91 RP-91 RP-91 RP-91 RP-91 RP-91	RP-202770 RP-202789 RP-202882 RP-210689 RP-210693 RP-210697 RP-210697 RP-210697 RP-210697 RP-210692 RP-210694 RP-210703 RP-210703	0479 0481 0482 0483 0485 0489 0490 0491 0501 0502 0503 0505	- - 1 - 2 1 1 - 1 - 1 2 2 2	A F F F F F F F F A	Clarification for multipleCORESET CR to 38.306 on handling of fallbacks for FR2 CA Update on V2X UE capability CR for the supported max date rate for uplink Tx switching UE capability of NR to UTRA-FDD CELL_DCH CS handover Correction on beamSwitchTiming capability Correction on beamSwitchTiming-r16 capability Correction on TPMI grouping capability Dummifying intraFreqMultiUL-TransmissionDAPS-r16 capability Corrections on UE capability for NR-U Release with Redirect for connection resume triggered by NAS Clarification to LCP restrictions	16.3.0 16.3.0 16.4.0 16.4.0 16.4.0 16.4.0 16.4.0 16.4.0 16.4.0 16.4.0 16.4.0 16.4.0 16.4.0 16.4.0 16.4.0 16.4.0 16.4.0
03/2021	RP-90 RP-90 RP-91 RP-91 RP-91 RP-91 RP-91 RP-91 RP-91 RP-91 RP-91	RP-202770 RP-202789 RP-202882 RP-210689 RP-210693 RP-210697 RP-210697 RP-210697 RP-210697 RP-210692 RP-210694 RP-210703 RP-210703 RP-210691	0479 0481 0482 0483 0485 0489 0490 0491 0501 0502 0503 0505 0506	- - 1 - 2 1 1 - 1 - 1 2 2 2 1	A F F A F F F F F A F	Clarification for multipleCORESET CR to 38.306 on handling of fallbacks for FR2 CA Update on V2X UE capability CR for the supported max date rate for uplink Tx switching UE capability of NR to UTRA-FDD CELL_DCH CS handover Correction on beamSwitchTiming capability Correction on beamSwitchTiming-r16 capability Correction on TPMI grouping capability Dummifying intraFreqMultiUL-TransmissionDAPS-r16 capability Corrections on UE capability for NR-U Release with Redirect for connection resume triggered by NAS Clarification to LCP restrictions Introduction of the UE Capability for SpCell BFR Enhancement	$\begin{array}{c} 16.3.0\\ 16.3.0\\ 16.4.0\\ 16.4.0\\ 16.4.0\\ 16.4.0\\ 16.4.0\\ 16.4.0\\ 16.4.0\\ 16.4.0\\ 16.4.0\\ 16.4.0\\ 16.4.0\\ 16.4.0\\ \end{array}$
03/2021	RP-90 RP-90 RP-91 RP-91 RP-91 RP-91 RP-91 RP-91 RP-91 RP-91 RP-91 RP-91 RP-91	RP-202770 RP-202789 RP-202882 RP-210689 RP-210693 RP-210697 RP-210697 RP-210697 RP-210697 RP-210694 RP-210703 RP-210703 RP-210691 RP-210697	0479 0481 0482 0483 0485 0489 0490 0491 0501 0502 0503 0505 0506 0509	- - 1 - 2 1 1 - 1 - 1 2 2 1 2	A F F A F F F F F F F F	Clarification for multipleCORESET CR to 38.306 on handling of fallbacks for FR2 CA Update on V2X UE capability CR for the supported max date rate for uplink Tx switching UE capability of NR to UTRA-FDD CELL_DCH CS handover Correction on beamSwitchTiming capability Correction on beamSwitchTiming-r16 capability Correction on TPMI grouping capability Dummifying intraFreqMultiUL-TransmissionDAPS-r16 capability Corrections on UE capability for NR-U Release with Redirect for connection resume triggered by NAS Clarification to LCP restrictions Introduction of the UE Capability for SpCell BFR Enhancement Clarification on UE capabilities with FDD/TDD differentiation	$\begin{array}{c} 16.3.0\\ 16.3.0\\ 16.4.0\\ 16.4.0\\ 16.4.0\\ 16.4.0\\ 16.4.0\\ 16.4.0\\ 16.4.0\\ 16.4.0\\ 16.4.0\\ 16.4.0\\ 16.4.0\\ 16.4.0\\ 16.4.0\\ 16.4.0\\ \end{array}$
03/2021	RP-90 RP-91 RP-91 RP-91 RP-91 RP-91 RP-91 RP-91 RP-91 RP-91 RP-91 RP-91 RP-91	RP-202770 RP-202789 RP-202882 RP-210689 RP-210693 RP-210697 RP-210697 RP-210697 RP-210697 RP-210694 RP-210703 RP-210703 RP-210691 RP-210697 RP-210805	0479 0481 0482 0483 0485 0489 0490 0491 0501 0502 0503 0505 0506 0509 0512	- - 1 - 2 1 1 - - 1 2 2 2 1 1 2 2 3	A F F A F F F F F F F F B	Clarification for multipleCORESET CR to 38.306 on handling of fallbacks for FR2 CA Update on V2X UE capability CR for the supported max date rate for uplink Tx switching UE capability of NR to UTRA-FDD CELL_DCH CS handover Correction on beamSwitchTiming capability Correction on beamSwitchTiming-r16 capability Correction on TPMI grouping capability Dummifying intraFreqMultiUL-TransmissionDAPS-r16 capability Corrections on UE capability for NR-U Release with Redirect for connection resume triggered by NAS Clarification to LCP restrictions Introduction of the UE Capability for SpCell BFR Enhancement Clarification on UE capabilities with FDD/TDD differentiation Support of 35 MHz and 45 MHz channel bandwidth for FR1	$\begin{array}{c} 16.3.0\\ 16.3.0\\ 16.4.0\\ 16.4.0\\ 16.4.0\\ 16.4.0\\ 16.4.0\\ 16.4.0\\ 16.4.0\\ 16.4.0\\ 16.4.0\\ 16.4.0\\ 16.4.0\\ 16.4.0\\ 16.4.0\\ 16.4.0\\ \end{array}$
03/2021	RP-90 RP-91 RP-91 RP-91 RP-91 RP-91 RP-91 RP-91 RP-91 RP-91 RP-91 RP-91 RP-91 RP-91	RP-202770 RP-202789 RP-202882 RP-210689 RP-210697 RP-210697 RP-210697 RP-210697 RP-210697 RP-210694 RP-210703 RP-210703 RP-210697 RP-210805 RP-210697	0479 0481 0482 0483 0485 0489 0490 0491 0501 0502 0503 0505 0506 0509 0512 0513	- - 1 - 2 1 - 1 - 1 - 2 2 1 2 2 1 2 3 1	A F F F F F F F F F B F	Clarification for multipleCORESET CR to 38.306 on handling of fallbacks for FR2 CA Update on V2X UE capability CR for the supported max date rate for uplink Tx switching UE capability of NR to UTRA-FDD CELL_DCH CS handover Correction on beamSwitchTiming capability Correction on beamSwitchTiming-r16 capability Correction on TPMI grouping capability Dummifying intraFreqMultiUL-TransmissionDAPS-r16 capability Corrections on UE capability for NR-U Release with Redirect for connection resume triggered by NAS Clarification to LCP restrictions Introduction of the UE Capability for SpCell BFR Enhancement Clarification on UE capabilities with FDD/TDD differentiation Support of 35 MHz and 45 MHz channel bandwidth for FR1 Clarification on UE capabilities for enhanced MIMO	$\begin{array}{c} 16.3.0\\ 16.3.0\\ 16.4.0\\ 16.4.0\\ 16.4.0\\ 16.4.0\\ 16.4.0\\ 16.4.0\\ 16.4.0\\ 16.4.0\\ 16.4.0\\ 16.4.0\\ 16.4.0\\ 16.4.0\\ 16.4.0\\ 16.4.0\\ 16.4.0\\ 16.4.0\\ \end{array}$
03/2021	RP-90 RP-91 RP-91 RP-91 RP-91 RP-91 RP-91 RP-91 RP-91 RP-91 RP-91 RP-91 RP-91	RP-202770 RP-202789 RP-202882 RP-210689 RP-210693 RP-210697 RP-210697 RP-210697 RP-210697 RP-210694 RP-210703 RP-210703 RP-210691 RP-210697 RP-210805	0479 0481 0482 0483 0485 0489 0490 0491 0501 0502 0503 0505 0506 0509 0512	- - 1 - 2 1 1 - - 1 2 2 2 1 1 2 2 3	A F F A F F F F F F F F B	Clarification for multipleCORESET CR to 38.306 on handling of fallbacks for FR2 CA Update on V2X UE capability CR for the supported max date rate for uplink Tx switching UE capability of NR to UTRA-FDD CELL_DCH CS handover Correction on beamSwitchTiming capability Correction on beamSwitchTiming-r16 capability Correction on TPMI grouping capability Dummifying intraFreqMultiUL-TransmissionDAPS-r16 capability Corrections on UE capability for NR-U Release with Redirect for connection resume triggered by NAS Clarification to LCP restrictions Introduction of the UE Capability for SpCell BFR Enhancement Clarification on UE capabilities with FDD/TDD differentiation Support of 35 MHz and 45 MHz channel bandwidth for FR1 Clarification on UE capabilities for enhanced MIMO CR on the SupportedBandwidth and channelBWs(R16) Correction to PUSCH skipping with UCI without LCH-based	$\begin{array}{c} 16.3.0\\ 16.3.0\\ 16.4.0\\ 16.4.0\\ 16.4.0\\ 16.4.0\\ 16.4.0\\ 16.4.0\\ 16.4.0\\ 16.4.0\\ 16.4.0\\ 16.4.0\\ 16.4.0\\ 16.4.0\\ 16.4.0\\ 16.4.0\\ \end{array}$
03/2021	RP-90 RP-91 RP-91 RP-91 RP-91 RP-91 RP-91 RP-91 RP-91 RP-91 RP-91 RP-91 RP-91 RP-91 RP-91 RP-91	RP-202770 RP-202789 RP-202882 RP-210693 RP-210697 RP-210697 RP-210697 RP-210697 RP-210692 RP-210703 RP-210703 RP-210691 RP-210697 RP-210697 RP-210697 RP-210695	0479 0481 0482 0483 0485 0489 0490 0491 0501 0502 0503 0505 0506 0509 0512 0513 0516 0520	- - 1 - 2 1 - - - 1 - - - 1 - - - - 1 - - - -	A F F F F F F F F F F F A F F A F	Clarification for multipleCORESET CR to 38.306 on handling of fallbacks for FR2 CA Update on V2X UE capability CR for the supported max date rate for uplink Tx switching UE capability of NR to UTRA-FDD CELL_DCH CS handover Correction on beamSwitchTiming capability Correction on beamSwitchTiming-r16 capability Correction on TPMI grouping capability Dummifying intraFreqMultiUL-TransmissionDAPS-r16 capability Corrections on UE capability for NR-U Release with Redirect for connection resume triggered by NAS Clarification to LCP restrictions Introduction of the UE Capability for SpCell BFR Enhancement Clarification on UE capabilities with FDD/TDD differentiation Support of 35 MHz and 45 MHz channel bandwidth for FR1 Clarification on UE capabilities for enhanced MIMO CR on the SupportedBandwidth and channelBWs(R16) Correction to PUSCH skipping with UCI without LCH-based prioritization	$\begin{array}{c} 16.3.0\\ 16.3.0\\ 16.4.0\\ 16.4.0\\ 16.4.0\\ 16.4.0\\ 16.4.0\\ 16.4.0\\ 16.4.0\\ 16.4.0\\ 16.4.0\\ 16.4.0\\ 16.4.0\\ 16.4.0\\ 16.4.0\\ 16.4.0\\ 16.4.0\\ 16.4.0\\ 16.4.0\\ 16.4.0\\ \end{array}$
03/2021	RP-90 RP-91 RP-91 RP-91 RP-91 RP-91 RP-91 RP-91 RP-91 RP-91 RP-91 RP-91 RP-91 RP-91 RP-91 RP-91	RP-202770 RP-202789 RP-202882 RP-210693 RP-210697 RP-210697 RP-210697 RP-210697 RP-210692 RP-210703 RP-210703 RP-210691 RP-210697 RP-210695 RP-210695 RP-210695	0479 0481 0482 0483 0485 0489 0490 0491 0501 0502 0503 0505 0506 0509 0512 0513 0516 0520	- - 1 - - - - - - - - - - - - - - - - -	A F F F F F F F F F F F F F F F F F F F	Clarification for multipleCORESET CR to 38.306 on handling of fallbacks for FR2 CA Update on V2X UE capability CR for the supported max date rate for uplink Tx switching UE capability of NR to UTRA-FDD CELL_DCH CS handover Correction on beamSwitchTiming capability Correction on beamSwitchTiming-r16 capability Correction on TPMI grouping capability Dummifying intraFreqMultiUL-TransmissionDAPS-r16 capability Corrections on UE capability for NR-U Release with Redirect for connection resume triggered by NAS Clarification to LCP restrictions Introduction of the UE Capability for SpCell BFR Enhancement Clarification on UE capabilities with FDD/TDD differentiation Support of 35 MHz and 45 MHz channel bandwidth for FR1 Clarification on UE capabilities for enhanced MIMO CR on the SupportedBandwidth and channelBWs(R16) Correction to PUSCH skipping with UCI without LCH-based prioritization CR on the Capability of PUCCH Transmissions for HARQ-ACK-38306	$\begin{array}{c} 16.3.0\\ 16.3.0\\ 16.4.0\\$
03/2021	RP-90 RP-91 RP-91 RP-91 RP-91 RP-91 RP-91 RP-91 RP-91 RP-91 RP-91 RP-91 RP-91 RP-91 RP-91 RP-91 RP-91 RP-91	RP-202770 RP-202789 RP-202882 RP-210693 RP-210697 RP-210697 RP-210697 RP-210697 RP-210697 RP-210694 RP-210703 RP-210697 RP-210805 RP-210697 RP-210695 RP-210697 RP-210697 RP-210697 RP-210697	0479 0481 0482 0483 0485 0489 0490 0491 0501 0502 0503 0505 0506 0509 0512 0513 0516 0520 0521 0523	- - 1 - - - - - - - - - - - - - - - - -	A F F F F F F F F F F F F F F F F F F F	Clarification for multipleCORESET CR to 38.306 on handling of fallbacks for FR2 CA Update on V2X UE capability CR for the supported max date rate for uplink Tx switching UE capability of NR to UTRA-FDD CELL_DCH CS handover Correction on beamSwitchTiming capability Correction on beamSwitchTiming-r16 capability Correction on TPMI grouping capability Dummifying intraFreqMultiUL-TransmissionDAPS-r16 capability Corrections on UE capability for NR-U Release with Redirect for connection resume triggered by NAS Clarification to LCP restrictions Introduction of the UE Capability for SpCell BFR Enhancement Clarification on UE capabilities with FDD/TDD differentiation Support of 35 MHz and 45 MHz channel bandwidth for FR1 Clarification on UE capabilities for enhanced MIMO CR on the SupportedBandwidth and channelBWs(R16) Correction to PUSCH skipping with UCI without LCH-based prioritization CR on the Capability of PUCCH Transmissions for HARQ-ACK-38306 Clarification on FDD-TDD differentiation for SUL band	$\begin{array}{c} 16.3.0\\ 16.3.0\\ 16.4.0\\$
03/2021	RP-90 RP-91 RP-91 RP-91 RP-91 RP-91 RP-91 RP-91 RP-91 RP-91 RP-91 RP-91 RP-91 RP-91 RP-91 RP-91 RP-91 RP-91 RP-91	RP-202770 RP-202789 RP-202882 RP-210693 RP-210697 RP-210697 RP-210697 RP-210697 RP-210697 RP-210694 RP-210703 RP-210691 RP-210697 RP-210695 RP-210695 RP-210697 RP-210697 RP-210697 RP-210697 RP-210703 RP-210703 RP-210703	0479 0481 0482 0483 0485 0489 0490 0491 0501 0502 0503 0505 0506 0509 0512 0513 0516 0520 0521 0523 0525	- - 1 - - - - - - - - - - - - - - - - -	A A F F A F A F A	Clarification for multipleCORESET CR to 38.306 on handling of fallbacks for FR2 CA Update on V2X UE capability CR for the supported max date rate for uplink Tx switching UE capability of NR to UTRA-FDD CELL_DCH CS handover Correction on beamSwitchTiming capability Correction on beamSwitchTiming-r16 capability Correction on TPMI grouping capability Dummifying intraFreqMultiUL-TransmissionDAPS-r16 capability Corrections on UE capability for NR-U Release with Redirect for connection resume triggered by NAS Clarification to LCP restrictions Introduction of the UE Capability for SpCell BFR Enhancement Clarification on UE capabilities with FDD/TDD differentiation Support of 35 MHz and 45 MHz channel bandwidth for FR1 Clarification on UE capabilities for enhanced MIMO CR on the SupportedBandwidth and channelBWs(R16) Correction to PUSCH skipping with UCI without LCH-based prioritization CR on the Capability of PUCCH Transmissions for HARQ-ACK-38306 Clarification on single uplink operation capability report	$\begin{array}{c} 16.3.0\\ 16.3.0\\ 16.4.0\\$
	RP-90 RP-91	RP-202770 RP-202789 RP-202882 RP-210693 RP-210697 RP-210697 RP-210697 RP-210697 RP-210697 RP-210697 RP-210703 RP-210703 RP-210805 RP-210805 RP-210703 RP-210703 RP-210703 RP-210703 RP-210703 RP-210703 RP-210703 RP-210703 RP-210703	0479 0481 0482 0483 0485 0489 0490 0491 0501 0502 0503 0505 0506 0509 0512 0513 0516 0520 0521 0523 0525 0528	- - 1 - - - - - - - - - - - - - - - - -	A F F F F F F F F F F F A F F A F F A F	Clarification for multipleCORESET CR to 38.306 on handling of fallbacks for FR2 CA Update on V2X UE capability CR for the supported max date rate for uplink Tx switching UE capability of NR to UTRA-FDD CELL_DCH CS handover Correction on beamSwitchTiming capability Correction on beamSwitchTiming-r16 capability Correction on TPMI grouping capability Dummifying intraFreqMultiUL-TransmissionDAPS-r16 capability Corrections on UE capability for NR-U Release with Redirect for connection resume triggered by NAS Clarification to LCP restrictions Introduction of the UE Capability for SpCell BFR Enhancement Clarification on UE capabilities with FDD/TDD differentiation Support of 35 MHz and 45 MHz channel bandwidth for FR1 Clarification on UE capabilities for enhanced MIMO CR on the SupportedBandwidth and channelBWs(R16) Correction to PUSCH skipping with UCI without LCH-based prioritization CR on the Capability of PUCCH Transmissions for HARQ-ACK-38306 Clarification on FDD-TDD differentiation for SUL band Clarification on single uplink operation capability report Addition of TEI16 features	$\begin{array}{c} 16.3.0\\ 16.3.0\\ 16.4.0\\$
	RP-90 RP-91 RP-91	RP-202770 RP-202789 RP-202882 RP-210693 RP-210697 RP-210697 RP-210697 RP-210697 RP-210697 RP-210697 RP-210703 RP-210703 RP-210697 RP-210697 RP-210697 RP-210697 RP-210703 RP-210703 RP-210703 RP-210703 RP-210702 RP-210697 RP-210702	0479 0481 0482 0483 0485 0489 0490 0491 0501 0502 0503 0505 0506 0509 0512 0513 0516 0513 0516 0521 0523 0525 0528 0529	- - 1 - - 2 1 1 - - 1 2 2 1 2 2 3 1 2 2 2 1 2 2 1 - - - - - - - - - - - -	A A F F F F F F F F F A F F A F F A F A F A F A F A F A	Clarification for multipleCORESET CR to 38.306 on handling of fallbacks for FR2 CA Update on V2X UE capability CR for the supported max date rate for uplink Tx switching UE capability of NR to UTRA-FDD CELL_DCH CS handover Correction on beamSwitchTiming capability Correction on beamSwitchTiming.r16 capability Correction on TPMI grouping capability Dummifying intraFreqMultiUL-TransmissionDAPS-r16 capability Corrections on UE capability for NR-U Release with Redirect for connection resume triggered by NAS Clarification to LCP restrictions Introduction of the UE Capability for SpCell BFR Enhancement Clarification on UE capabilities with FDD/TDD differentiation Support of 35 MHz and 45 MHz channel bandwidth for FR1 Clarification on UE capabilities for enhanced MIMO CR on the SupportedBandwidth and channelBWs(R16) Correction to PUSCH skipping with UCI without LCH-based prioritization CR on the Capability of PUCCH Transmissions for HARQ-ACK-38306 Clarification on FDD-TDD differentiation for SUL band Clarification on Single uplink operation capability report Addition of TEI16 features CR to clarify the definition of fallback per CC feature set	$\begin{array}{c} 16.3.0\\ 16.3.0\\ 16.4.0\\$
03/2021	RP-90 RP-91	RP-202770 RP-202789 RP-202882 RP-210693 RP-210697 RP-210697 RP-210697 RP-210697 RP-210697 RP-210697 RP-210703 RP-210703 RP-210805 RP-210805 RP-210703 RP-210703 RP-210703 RP-210703 RP-210703 RP-210703 RP-210703 RP-210703 RP-210703	0479 0481 0482 0483 0485 0489 0490 0491 0501 0502 0503 0505 0506 0509 0512 0513 0516 0520 0521 0523 0525 0528	- - 1 - - - - - - - - - - - - - - - - -	A F F F F F F F F F F F A F F A F F A F	Clarification for multipleCORESET CR to 38.306 on handling of fallbacks for FR2 CA Update on V2X UE capability CR for the supported max date rate for uplink Tx switching UE capability of NR to UTRA-FDD CELL_DCH CS handover Correction on beamSwitchTiming capability Correction on beamSwitchTiming-r16 capability Correction on TPMI grouping capability Dummifying intraFreqMultiUL-TransmissionDAPS-r16 capability Corrections on UE capability for NR-U Release with Redirect for connection resume triggered by NAS Clarification to LCP restrictions Introduction of the UE Capability for SpCell BFR Enhancement Clarification on UE capabilities with FDD/TDD differentiation Support of 35 MHz and 45 MHz channel bandwidth for FR1 Clarification on UE capabilities for enhanced MIMO CR on the SupportedBandwidth and channelBWs(R16) Correction to PUSCH skipping with UCI without LCH-based prioritization CR on the Capability of PUCCH Transmissions for HARQ-ACK-38306 Clarification on FDD-TDD differentiation for SUL band Clarification on single uplink operation capability report Addition of TEI16 features	$\begin{array}{c} 16.3.0\\ 16.3.0\\ 16.4.0\\$

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History

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