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ETSI

650 Route des Lucioles F-06921 Sophia Antipolis Cedex - FRANCE

Tel.: +33 4 92 94 42 00 Fax: +33 4 93 65 47 16

Siret N° 348 623 562 00017 - APE 7112B Association à but non lucratif enregistrée à la Sous-Préfecture de Grasse (06) N° w061004871

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Foreword

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1 Scope

[15]

[16]

[17]

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.
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radio access capabilities".

Control (RRC); Protocol Specification".

- 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". 3GPP TS 38.101-2: "NR; User Equipment (UE) radio transmission and reception Part 2: Range 2 [3] 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". 3GPP TS 38.321: "NR; Medium Access Control (MAC) protocol specification". [8] [9] 3GPP TS 38.331: "NR; Radio Resource Control (RRC) protocol specification". 3GPP TS 38.212: "NR; Multiplexing and channel coding". [10] 3GPP TS 38.213: "NR; Physical layer procedures for control". [11] [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".

[18] 3GPP TS 38.101-4: "NR; User Equipment (UE) radio transmission and reception Part 4: Performance requirements".

3GPP TS 38.323: "NR; Packet Data Convergence Protocol (PDCP) specification".

3GPP TS 36.331: "Evolved Universal Terrestrial Radio Access (E-UTRA) Radio Resource

3GPP TS 36.306: "Evolved Universal Terrestrial Radio Access (E-UTRA) User Equipment (UE)

[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]	$3\mbox{GPP TS }26.114:$ "IP Multimedia Subsystem (IMS); Multimedia Telephony; Media handling and interaction".
[31]	3GPP TS 26.118: "Virtual Reality (VR) profiles for streaming applications".
[32]	3GPP TS 37.213: "Physical layer procedures for shared spectrum channel access".
[33]	3GPP TS 38.401: "NG-RAN; Architecture description".
[34]	3GPP TS 38.101-5: "NR; User Equipment (UE) radio transmission and reception; Part 5: Satellite access Radio Frequency (RF) and performance requirements".
[35]	3GPP TS 38.104: "NR; Base Station (BS) radio transmission and reception".

3 Definitions, symbols and abbreviations

3.1 Definitions

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

Fallback band combination: A Uu band combination that would result from another Uu band combination (parent band combination) by releasing at least one SCell or uplink configuration of SCell, or SCG, or SUL. A PC5 band combination that would result from another PC5 band combination (parent band combination) by releasing at least one sidelink carrier. An intra-band non-contiguous band combination is not considered to be a fallback band combination of an intra-band contiguous band combination. A fallback band combination supports the same channel bandwidth(s) for each carrier as its parent band combination(s).

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

Fallback per CC feature set: A feature set per CC that has same or lower capabilities than the capabilities of UE (e.g. supported MIMO layers, BW, modulation order) while keeping the numerology the same from the reported feature set per CC for a given carrier per band. The *supportedMinBandwidthDL/supportedMinBandwidthUL* defines the lower bound of the bandwidth supported by the UE.

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

 $\textbf{Switching SCell (sSCell):} \ \ \textbf{The SCell configured with cross-carrier scheduling to PCell/PSCell.}$

3.2 Symbols

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

MaxDLDataRate: Maximum DL data rate

MaxDLDataRate_MN: Maximum DL data rate in the MN MaxDLDataRate_SN: Maximum DL data rate in the SN

MaxULDataRate: Maximum UL data rate

MaxSLtxDataRate: Maximum SL data rate in transmission
MaxSLrxDataRate: Maximum SL data rate in reception

3.3 Abbreviations

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

A-CSI Aperiodic-CSI

BAP Backhaul Adaptation Protocol

BC Band Combination
BPS Body Proximity Sensing

BT Bluetooth

CCS Cross Carrier Scheduling
CMR Channel Measurement Resource
CPAC Conditional PSCell Addition/Change

DAPS Dual Active Protocol Stack

DL Downlink

EHC Ethernet Header Compression

FS Feature Set

FSPC Feature Set Per Component-carrier

GSO Geosynchronous Orbit

HSDN High Speed Dedicated Network

IAB-MT Integrated Access Backhaul Mobile Termination

MAC Medium Access Control
MHI Mobility History Information
MBS Multicast/Broadcast Service

MCG Master Cell Group MN Master Node MRB MBS Radio Bearer

MR-DC Multi-Radio Dual Connectivity

mTRP Multiple TRP

MUSIM Multi-Universal Subscriber Identity Module

NCJT Non-Coherent Joint Transmission NCSG Network Controlled Small Gap NGSO Non-Geosynchronous Orbit NTN Non-Terrestrial Network

P-CSI Periodic CSI

PDCP Packet Data Convergence Protocol

QoE Quality of Experience
RLC Radio Link Control
RTT Round Trip Time
SCG Secondary Cell Group

SDAP Service Data Adaptation Protocol

SN Secondary Node sTRP Serving TRP

TRP Transmit/Receive Point UDC Uplink Data Compression

UL Uplink

WLAN Wireless Local Area Network

4 UE radio access capability parameters

4.1 Supported max data rate

4.1.1 General

The DL, UL and SL max data rate supported by the UE is calculated by band or band combinations supported by the UE. A UE supporting NR (NR SA, MR-DC) shall support the calculated DL and UL max data rate defined in 4.1.2. A UE supporting NR sidelink communication shall support the calculated SL max data rate defined in 4.1.5.

4.1.2 Supported max data rate for DL/UL

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

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

wherein

J is the number of aggregated component carriers in a band or band combination

 $R_{max} = 948/1024$

For the j-th CC,

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

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

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

 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], 5.3 TS 38.101-2 [3], and 5.3 TS 38.101-5 [34], where $BW^{(j)}$ is the UE supported maximum bandwidth in the given band or band combination.

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

0.14, for frequency range FR1 for DL

0.18, for frequency range FR2 for DL

0.08, for frequency range FR1 for UL

0.10, for frequency range FR2 for UL

NOTE 1: Only one of the UL or SUL carriers (the one with the higher data rate) is counted for a cell operating SUL.

NOTE 2: For UL Tx switching between carriers, only the supported MIMO layer combination across carriers that results in the highest combined data rate is counted for the carriers in the supported maximum UL data rate.

The approximate maximum data rate can be computed as the maximum of the approximate data rates computed using the above formula for each of the supported band or band combinations. For the CCs where UE supports *pdsch-1024QAM-2MIMO-FR1-r17* for the concerned band, data rate shall be derived as maximum what UE would support if using 1024 QAM (when *mcs-Table-r17* or *mcs-TableDCI-1-2-r17* is configured) or 256 QAM.

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

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

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

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

wherein

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

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

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

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

4.1.3 Void

4.1.4 Total layer 2 buffer size for DL/UL

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

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

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

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

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

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

wherein

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

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

RLC RTT for EUTRA cell group = 75ms

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

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

SCS (kHz)	RLC RTT (ms)
15KHz	50
30KHz	40
60KHz	30
120KHz	20
480KHz	20
960KHz	20

4.1.5 Supported max data rate for SL

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

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

wherein

 $R_{\text{max}} = 948/1024$

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

 Q_m is the maximum supported modulation order between 6 or 8 given by sl-Tx-256QAM and sl-Rx-256QAM, f is the scaling factor for sidelink transmission and reception given by scalingFactorTxSidelink and scalingFactorRxSidelink respectively, as specified in TS 36.331 [17] and TS 38.331 [9], and can take the values 1, 0.8, 0.75, and 0.4.

 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*RLCRTT+MaxSLrxDataRate*RLCRTT.

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

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

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

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 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 TDD and not applicable to SUL carriers. "N/A" in the column indicates it is not applicable to the feature (e,g. the signalling supports the UE to have different values between FDD and TDD or between FR1 and FR2).

- 1> set all fields of UE-NR/MRDC-Capability except fdd-Add-UE-NR/MRDC/Sidelink-Capabilities, tdd-Add-UE-NR/MRDC/Sidelink-Capabilities, fr1-Add-UE-NR/MRDC-Capabilities and fr2-Add-UE-NR/MRDC-Capabilities, to include the values applicable for all duplex mode(s) and frequency range(s) that the UE supports;
- 1> if UE supports both FDD (or SUL) 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 signalling.
- NOTE 2: For the case where the UE is allowed to support different functionality between FDD and TDD and between FR1 and FR2 according to the specification, the UE capability indication is clarified in Annex B.

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

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

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

4.2.2 General parameters

Definitions for parameters	Per	М	FDD- TDD DIFF	FR1- FR2 DIFF
accessStratumRelease Indicates the access stratum release the UE supports as specified in TS 38.331 [9].	UE	Yes	No	No
crossCarrierSchedulingConfigurationRelease-r17 Indicates whether the UE supports using crossCarrierSchedulingConfigRelease to release the configurations configured by crossCarrierSchedulingConfig.	UE	No	No	No
delayBudgetReporting Indicates whether the UE supports delay budget reporting as specified in TS 38.331 [9].	UE	No	No	No
dl-DedicatedMessageSegmentation-r16 Indicates whether the UE supports reception of segmented DL RRC messages.	UE	No	No	No
drx-Preference-r16 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 rtt-BasedPDC-CSI-RS-ForTracking-r17 and/or rtt-BasedPDC-PRS-r17.	UE	No	No	No
inactiveState Indicates whether the UE supports RRC_INACTIVE as specified in TS 38.331 [9].	UE	Yes	No	No
inactiveStateNTN-r17 Indicates whether the UE supports RRC_INACTIVE in NTN as specified in TS 38.331 [9]. It is mandated if the UE indicates the support of nonTerrestrialNetwork-r17.	UE	CY	No	No
inactiveStatePO-Determination-r17 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
inDeviceCoexInd-r16 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)
maxCC-Preference-r16 Indicates whether the UE supports providing its preference of a cell group on the maximum number of secondary component carriers for power saving in RRC_CONNECTED, as specified in TS 38.331 [9].	UE	No	No	No
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)
maxMRB-Add-r17 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
mcgRLF-RecoveryViaSCG-r16 Indicates whether the UE supports recovery from MCG RLF via split SRB1 (if supported) and via SRB3 (if supported) as specified in TS 38.331[9].	UE	No	No	No
minSchedulingOffsetPreference-r16 Indicates whether the UE supports providing its preference on the minimum scheduling offset for cross-slot scheduling of the cell group for power saving in RRC_CONNECTED, as specified in TS 38.331 [9].	UE	No	No	No
mpsPriorityIndication-r16 Indicates whether the UE supports mpsPriorityIndication on RRC release with redirect as defined in TS 38.331 [9].	UE	No	No	No
musim-GapPreference-r17 Indicates whether the UE supports providing MUSIM assistance information with MUSIM gap preference and related MUSIM gap configuration, as defined in TS 38.331 [9]. UE supporting this feature supports 3 periodic gaps and 1 aperiodic gap.	UE	No	No	No
musimLeaveConnected-r17 Indicates whether the UE supports providing MUSIM assistance information with indication of leaving RRC_CONNECTED state as defined in TS 38.331 [9].	UE	No	No	No

nonTerrestrialNetwork-r17	UE	No	No	No
Indicates whether the UE supports NR NTN access. If the UE indicates this				
capability the UE shall support the following NTN essential features, e.g., timer				
extension in MAC/RLC/PDCP layers and RACH adaptation to handle long RTT,				
acquiring NTN specific SIB and more than one TAC per PLMN broadcast in one cell.				
ntn-ScenarioSupport-r17	UE	No	No	No
Indicates whether the UE supports the NTN features in GSO scenario or NGSO	OL	INO	INU	INO
· ·				
scenario. If a UE does not include this field but includes <i>nonTerrestrialNetwork-r</i> 17,				
the UE supports the NTN features for both GSO and NGSO scenarios, and also				
supports mobility between GSO and NGSO scenarios.				
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.				
pei-SubgroupingSupportBandList-r17	UE	No	No	No
Indicates whether the UE supports receiving paging early indication in DCI format				
2_7 as specified in TS38.304 [21] for a list of frequency band. The UE shall support				
UEID based subgrouping for a frequency band if it indicates supporting of paging				
early indication reception for the frequency band. The set of OFDM symbols within a				
slot where UE can monitor the PEI PDCCH in Type 2A CSS is the same as the				
requirement for paging PDCCH in Type 2 CSS for IDLE and INACTIVE mode UEs.				
partialFR2-FallbackRX-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
	OL	110	140	110
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 twoStepRACH-r16, with 2-step RA				
type, as specified in TS 38.331 [9].				
ra-SDT-NTN-r17	UE	No	No	No
Indicates whether the UE supports transmission of data and/or signalling over	-	'''		
allowed radio bearers in RRC_INACTIVE state in NTN via Random Access				
procedure (i.e., RA-SDT) with 4-step RA type and if UE supports twoStepRACH-r16				
for NTN, with 2-step RA type, as specified in TS 38.331 [9]. A UE supporting this				
feature shall also indicate the support of nonTerrestrialNetwork-r17.				
redirectAtResumeByNAS-r16	UE	No	No	No
Indicates whether the UE supports reception of redirectedCarrierInfo in an	-	'''		
PDC Pologo monogo in reproporte le espiral de la PDC Pologo de Pologo de la PDC POLOGO de l				
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]				
		NI-	NI-	NI-
referenceTimeProvision-r16	UE	No	No	No
Indicates whether the UE supports provision of referenceTimeInfo in				
DLInformationTransfer message and in SIB9 and reference time information				
preference indication via assistance information, as specified in TS 38.331 [9].				
releasePreference-r16	UE	No	No	No
Indicates whether the UE supports providing its preference assistance information to	J_	'10	140	110
transition out of RRC_CONNECTED for power saving, as specified in TS 38.331 [9].		1		
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
	OL:	110	INU	INU
Indicates whether the UE supports not deleting the stored SCG configuration when				
initiating resume. The UE which indicates support for resumeWithStoredSCG-r16				
shall also indicate support for resumeWithSCG-Config-r16.				
resumeWithSCG-Config-r16	UE	No	No	No
Indicates whether the UE supports (re-)configuration of an SCG during the resume			-	
, ,				
procedure.				l .

UE	No	No	No
UE	No	No	No
UE	Yes	No	No
UE	Yes	No	No
UE	No	No	No
UE	No	No	No
UE	CY	No	FR2
			only
UE	No	No	No
	UE UE UE	UE Yes UE No UE No UE CY	UE No No UE Yes No UE No No UE No No UE CY No

4.2.3 SDAP Parameters

Definitions for parameters	Per	M	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
continueEHC-Context-r16 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
continueROHC-Context 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
ehc-r16 Indicates that the UE supports Ethernet header compression and decompression using EHC protocol, as specified in TS 38.323 [16]. The UE indicating this capability and indicating support for at least one ROHC profile, shall support simultaneous configuration of EHC and ROHC on different DRBs/multicast MRBs.	UE	No	No
extendedDiscardTimer-r16 Indicates whether the UE supports the additional values of PDCP discard timer. The supported additional values are 0.5ms, 1ms, 2ms, 4ms, 6ms and 8ms, as specified in TS 38.331 [9].	UE	No	No
jointEHC-ROHC-Config-r16 Indicates whether the UE supports simultaneous configuration of EHC and ROHC protocols for the same DRB/multicast MRB.	UE	No	No
maxNumberROHC-ContextSessions Defines the maximum number of ROHC header compression context sessions supported by the UE across all DRBs and multicast MRBs, excluding context sessions that leave all headers uncompressed.	UE	No	No
maxNumberEHC-Contexts-r16 Defines the maximum number of Ethernet header compression contexts supported by the UE across all DRBs and multicast MRBs and across UE's EHC compressor and EHC decompressor. The indicated number defines the number of contexts in addition to CID = "all zeros" as specified in TS 38.323 [16].	UE	No	No
outOfOrderDelivery Indicates whether UE supports out of order delivery of data to upper layers by PDCP.	UE	No	No
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
pdcp-DuplicationMoreThanTwoRLC-r16 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 pdcp-DuplicationMCG-OrSCG-DRB, pdcp-DuplicationSplitDRB, pdcp-DuplicationSplitSRB and pdcp-DuplicationSRB.	UE	No	No
pdcp-DuplicationSplitDRB 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
pdcp-DuplicationSRB Indicates whether the UE supports CA-based PDCP duplication over SRB1/2 and/or, if (NG)EN-DC is supported, SRB3 as specified in TS 38.323 [16].	UE	No	No
shortSN Indicates whether the UE supports 12 bit length of PDCP sequence number.	UE	Yes	No

aumnewted POUC Profiles	ш	No	No
supportedROHC-Profiles	UE	No	No
Defines which ROHC profiles from the list below are supported by the UE:			
- 0x0000 ROHC No compression (RFC 5795)			
- 0x0001 ROHC RTP/UDP/IP (RFC 3095, RFC 4815)			
- 0x0002 ROHC UDP/IP (RFC 3095, RFC 4815)			
- 0x0003 ROHC ESP/IP (RFC 3095, RFC 4815)			
- 0x0004 ROHC IP (RFC 3843, RFC 4815)			
- 0x0006 ROHC TCP/IP (RFC 6846)			
- 0x0101 ROHC RTP/UDP/IP (RFC 5225)			
- 0x0102 ROHC UDP/IP (RFC 5225)			
- 0x0103 ROHC ESP/IP (RFC 5225)			
- 0x0104 ROHC IP (RFC 5225)			
A UE that supports one or more of the listed ROHC profiles shall support ROHC profile			
0x0000 ROHC uncompressed (RFC 5795).			
An IMS voice capable UE shall indicate support of ROHC profiles 0x0000, 0x0001,			
0x0002 and be able to compress and decompress headers of PDCP SDUs at a PDCP			
SDU rate corresponding to supported IMS voice codecs.			
udc-r17	UE	No	No
Indicates whether the UE supports the uplink data compression operation as specified in			
TS 38.323 [16]. The capability signalling comprises of the following parameters:			
- standardDictionary-r17 indicates whether the UE supports UL data compression			
with SIP static dictionary as defined in TS 38.323 [16].			
. Did			
- operatorDictionary-r17 indicates whether the UE supports UL data compression			
with operator defined dictionary. In this release, the UE can only support one			
operator defined dictionary. If the UE supports operator defined dictionary, the UE			
shall report <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 associatedPLMN-ID-r17 is only			
associated to the operator defined dictionary which has no relationship with UE's			
HPLMN ID.			
continued IDC r17 indicates whether the LIE supports continuation of unlink data			
- continueUDC-r17 indicates 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].			
PDGF re-establishment, as specified in 13 30.323 [10].			
- supportOfBufferSize-r17 indicates which compression buffer size the UE supports			
as specified in TS 38.323 [16]. Value kbyte4 means the UE supports 4096 bytes			
for compression buffer per UDC DRB. Value kbyte8 means the UE supports 8192			
bytes for compression buffer per UDC DRB.			
bytes for compression build per obe bits.			
A UE that supports the uplink data compression operation shall support 2048 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	M	FDD- TDD DIFF
am-WithShortSN	UE	Yes	No
Indicates whether the UE supports AM DRB with 12 bit length of RLC sequence number.			
extendedT-PollRetransmit-r16	UE	No	No
Indicates whether the UE supports the additional values of <i>T-PollRetransmit timer</i> . The			
supported additional values are 1ms, 2ms, 3ms and 4ms, as specified in TS 38.331 [9].			
extendedT-StatusProhibit-r16	UE	No	No
Indicates whether the UE supports the additional values of <i>T-StatusProhibit timer</i> . The			
supported additional values are 1ms, 2ms, 3ms and 4ms, as specified in TS 38.331 [9].			
um-WithLongSN	UE	Yes	No
Indicates whether the UE supports UM DRB with 12 bit length of RLC sequence number.			
um-WithShortSN	UE	Yes	No
Indicates whether the UE supports UM DRB with 6 bit length of RLC sequence number.			

4.2.6 MAC parameters

Definitions for parameters	Per	М	FDD- TDD DIFF	FR1- FR2 DIFF
autonomousTransmission-r16 Indicates whether the UE supports autonomous transmission of the MAC PDU generated for a deprioritized configured uplink grant as specified in TS 38.321 [8]. A UE supporting this feature shall also support <i>lch-priorityBasedPrioritization-r16</i> .	UE	No	No	No
directMCG-SCellActivation-r16, directMCG-SCellActivation-r17 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)
directMCG-SCellActivationResume-r16, directMCG-SCellActivationResume-r17 Indicates whether the UE supports direct NR MCG SCell activation, as specified in TS 38.321 [8], upon reception of an RRCResume message, as specified in TS 38.331 [9].	UE	No	No	Yes (Incl FR2- 2 DIFF)
directSCG-SCellActivation-r16, directSCG-SCellActivation-r17 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 RRCReconfiguration message received via SRB3 or contained in an RRC(Connection)Reconfiguration message received via SRB1, as specified in TS 38.331 [9] and TS 36.331 [17]. A UE indicating support of directSCG-SCellActivation-r16 shall indicate support of ENDC or support of NGEN-DC as specified in TS 36.331 [17] or support of NR-DC as specified in TS 38.331 [9].	UE	No	No	Yes (Incl FR2- 2 DIFF)
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 RRCReconfiguration included in an RRCConnectionResume 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 resumeWithSCG-Config-r16 as specified in TS 36.331 [17], - upon reception of an RRCReconfiguration included in an RRCResume message, as specified in TS 38.331 [9], if the UE indicates support of NR-DC and of resumeWithSCG-Config-r16 as specified in TS 38.331 [9]. A UE indicating support of directSCG-SCellActivationResume-r16 shall indicate support of EN-DC or NGEN-DC and support of resumeWithSCG-Config-r16 as specified in TS 36.331 [17] or indicate support of NR-DC and of resumeWithSCG-Config-r16 as specified in TS 38.331 [9].	UE	No	No	Yes (Incl FR2- 2 DIFF)

drx-Adaptation-r16, drx-Adaptation-r17 Indicates whether the UE supports DRX adaptation comprised of the following functional components: - Configured ps-Offset for the detection of DCI format 2_6 with CRC scrambling by ps-RNTI and reported MinTimeGap or MinTimeGapFR2-2 before the start of drx-onDurationTimer of Long DRX	UE	No	No	Yes (Incl FR2- 2 DIFF)
 Indication of UE whether or not to start drx-onDurationTimer for the next Long DRX cycle by detection of DCI format 2_6 				
 Configured UE wakeup or not when DCI format 2_6 is not detected at all monitoring occasions outside Active Time 				
 Configured periodic CSI report apart from L1-RSRP (ps- TransmitOtherPeriodicCSI) when impacted by DCI format 2_6 that drx- onDurationTimer does not start for the next Long DRX cycle 				
 Configured periodic L1-RSRP report (ps-TransmitPeriodicL1-RSRP) when impacted by DCI format 2_6 that drx-onDurationTimer does not start for the next Long DRX cycle 				
The capability signalling includes the minimum time gap between the end of the slot of last DCI format 2_6 monitoring occasion and the beginning of the slot where the UE would start the <i>drx-onDurationTimer</i> of Long DRX for each SCS. The value <i>sl1</i> indicates 1 slot. The value <i>sl2</i> indicates 2 slots, and so on. Support of this feature is reported for licensed and unlicensed bands, respectively. When <i>drx-Adaptation-r16</i> is reported, either of <i>sharedSpectrumChAccess-r16</i> or <i>non-SharedSpectrumChAccess-r16</i> shall be reported, at least. When <i>drx-Adaptation-r17</i> is reported, either of <i>sharedSpectrumChAccess-r17</i> or <i>non-SharedSpectrumChAccess-r17</i> shall be reported, at least.				
enhancedSkipUplinkTxConfigured-r16 Indicates whether the UE supports skipping UL transmission for a configured uplink grant only if no data is available for transmission and no UCI is multiplexed on the corresponding PUSCH of the uplink grant as specified in TS 38.321 [8].	UE	No	Yes	No
enhancedSkipUplinkTxDynamic-r16 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 sl-TransmissionMode1-r16.	UE	No	No	No
extendedDRX-CycleInactive-r17 Indicates whether UE supports the extended DRX in RRC_INACTIVE with values of 256, 512 and 1024 radio frames as specified in TS 38.331 [9]. The UE may indicate support for extended DRX in RRC_INACTIVE only if it supports extended DRX in RRC_IDLE.	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
intraCG-Prioritization-r17 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 jointPrioritizationCG-Retx-Timer-r17.	UE	No	No	No
jointPrioritizationCG-Retx-Timer-r17 Indicates whether the UE supports simultaneous configuration of LCH based prioritization and cg-RetransmissionTimer-r16 as specified in TS 38.321 [8]. A UE supporting this feature shall also support Ich-priorityBasedPrioritization-r16 and configuredGrantWithReTx-r16.	UE	No	No	No
lastTransmissionUL-r17 Indicates whether the UE supports starting the drx-HARQ-RTT-TimerUL after the end of the last transmission within a bundle as specified in TS 38.321 [8].	UE	No	No	No
Ich-PriorityBasedPrioritization-r16 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

Ich-ToConfiguredGrantMapping-r16	UE	No	No	No
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				
LogicalChannelConfig in TS 38.331 [9]) as specified in TS 38.321 [8].				ļ
Ich-ToGrantPriorityRestriction-r16	UE	No	No	No
Indicates whether the UE supports restricting data transmission from a given LCH to a				
configured (sub-) set of dynamic grant priority levels (see <i>allowedPHY-PriorityIndex-</i>				
r16 in LogicalChannelConfig in TS 38.331 [9]) as specified in TS 38.321 [8].	UE	No	Nia	No
Ich-ToSCellRestriction	UE	No	No	No
Indicates whether the UE supports restricting data transmission from a given LCH to a configured (sub-) set of serving cells (see <i>allowedServingCells</i> in				
LogicalChannelConfig). A UE supporting pdcp-DuplicationMCG-OrSCG-DRB or pdcp-DuplicationSRB (see PDCP-Config) shall also support lch-ToSCellRestriction.				
	LIE	No	Nia	No
Icp-Restriction	UE	No	No	No
Indicates whether UE supports the selection of logical channels for each UL grant				
based on RRC configured restriction using RRC parameters allowedSCS-List,				
maxPUSCH-Duration, and configuredGrantType1Allowed as specified in TS 38.321				
[8].		NIa	Vaa	NIa
Indicates what has the UE avanage to the desired Channel SP. Delay Times as a position in	UE	No	Yes	No
Indicates whether the UE supports the <i>logicalChannelSR-DelayTimer</i> as specified in				
TS 38.321 [8].		Vaa	Vaa	NIa
longDRX-Cycle	UE	Yes	Yes	No
Indicates whether UE supports long DRX cycle as specified in TS 38.321 [8].		NI-	NI-	NI-
mg-ActivationCommPRS-Meas-r17	UE	No	No	No
Indicates whether UE supports preconfiguration of MGs in RRC signalling for PRS				
measurements and the use of DL MAC CE from the gNB, as specified in TS 38.321				
[8], to activate/deactivate the preconfigured MG for PRS measurements.		NI-	NI-	NI-
mg-ActivationRequestPRS-Meas-r17	UE	No	No	No
Indicates whether UE supports preconfiguration of MGs in RRC signalling for PRS				
measurements and supports the use of UL MAC CE, as specified in TS38.321 [8], to				
request the activation/deactivation of the preconfigured MG for PRS measurements.				
The UE can include this field only if the UE supports mg-ActivationCommPRS-Meas-				
r17.				
multipleConfiguredGrants	UE	No	Yes	No
Indicates whether UE supports more than one configured grant configurations				
(including both Type 1 and Type 2) in a cell group. For each cell, the UE supports at				
most one configured grant per BWP and the maximum number of configured grant				
configurations per cell group is 2. If absent, for each configured cell group, the UE				
only supports one configured grant configuration on one serving cell.	LIF	No	Voc	Nia
multipleSR-Configurations	UE	No	Yes	No
Indicates whether the UE supports 8 SR configurations per PUCCH cell group as				
specified in TS 38.321 [8].	UE	No	No	Nia
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].				
• • • • • • • • • • • • • • • • • • • •	ш	No	No	Nia
recommendedBitRateMultiplier-r16 Indicates whether the UE supports the bit rate multiplier for recommended bit rate	UE	No	No	No
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	0'=	100	INU	INU
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].	l OE	INO	162	INO
shortDRX-Cycle	UE	Yes	Yes	No
Indicates whether UE supports short DRX cycle as specified in TS 38.321 [8].	l OE	162	162	INO
simultaneousSR-PUSCH-DiffPUCCH-groups-r17	UE	No	No	No
Indicates whether the UE supports simultaneous transmission of SR and PUSCH in	OL	INO	INO	INO
different PUCCH groups as specified in TS 38.321 [8].				
singlePHR-P-r16	UE	No	No	No
Indicates whether UE supports the P bit in single PHR MAC CE as specified in TS	0=	INU	INU	INU
38.321 [8].				
skipUplinkTxDynamic	UE	No	Yes	No
Indicates whether the UE supports skipping of UL transmission for an uplink grant	0=	INU	168	INU
indicates whether the DE supports skipping of DE transmission for an uplink grant indicated on PDCCH if no data is available for transmission as specified in TS 38.321				
[8].			L	

spCell-BFR-CBRA-r16	UE	No	No	No
Indicates whether the UE supports sending BFR MAC CE for SpCell BFR as specified	-			
in TS 38.321 [8].				
srs-Resourceld-Ext-r16	UE	No	No	No
Indicates whether the UE supports the extended 6-bit (Positioning) SRS resource ID				
in SP Positioning SRS Activation/Deactivation MAC CE, as specified in TS 38.321 [8].				
sr-TriggeredBy-TA-Report-r17	UE	No	No	No
Indicates whether the UE supports triggering of SR when a TA report is triggered and				
there are no available UL-SCH resources. A UE supporting this feature shall also				
indicate the support of nonTerrestrialNetwork-r17.				
survivalTime-r17	UE	No	No	No
Indicates whether the UE supports services with survival time requirement using				
configured grant resource and PDCP duplication, as specified in TS 38.321 [8]. A UE				
supporting this feature shall support pdcp-DuplicationMCG-orSCG-DRB or pdcp-				
DuplicationSplitDRB. A UE supporting this feature shall also support configuredUL-				
GrantType1-v1650 or configuredUL-GrantType2-v1650.				
tdd-MPE-P-MPR-Reporting-r16	UE	No	TDD	FR2
Indicates whether the UE supports P-MPR reporting for Maximum Permissible			only	only
Exposure, as specified in TS38.321 [8].				
ul-LBT-FailureDetectionRecovery-r16	UE	No	No	No
Indicates whether the UE supports consistent uplink LBT detection and recovery, as				
specified in TS 38.321 [8], for cells operating with shared spectrum channel access.				
This field applies to all serving cells with which the UE is configured with shared				
spectrum channel access.		NI-	NI-	NI-
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	М	FDD- TDD DIFF	FR1- FR2 DIFF
bandEUTRA Defines supported EUTRA frequency band by NR frequency band number, as specified in TS 36.101 [14].	Band	Yes	N/A	N/A
bandList Each entry of the list should include at least one bandwidth class for UL or DL.	ВС	Yes	N/A	N/A
bandNR 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
ca-BandwidthClassDL-EUTRA 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
ca-BandwidthClassDL-NR 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
ca-BandwidthClassDL-NR-r17 Defines for DL, additional FR2 CA bandwidth class (e.g., R, S, T, U) as specified in TS 38.101-2 [3]. When all FeatureSetDownlinkId:s in the corresponding FeatureSetSPerBand are zero, this field is absent.	Band	No	N/A	FR2 only
If this field is indicated for a band, the UE shall also set <i>ca-BandwidthClassDL-NR</i> (without suffix) to the highest bandwidth class from the same fallback group that it supports in this band combination and with the given bandwidth combination set ID in case that the bandwidth combination consists of a sub-set of carriers and the same or a sub-set of carrier bandwidths on those carriers with respect to the bandwidth combination corresponding to <i>ca-BandwidthClassDL-NR-r17</i> ; otherwise, it shall omit the <i>ca-BandwidthClassDL-NR</i> (without suffix) field. NOTE: If the UE includes <i>ca-BandwidthClassDL-NR-r17</i> in a BandParameter the				
network ignores the ca-BandwidthClassDL-NR therein, if signalled. ca-BandwidthClassUL-EUTRA	Band	No	N/A	N/A
Defines for UL, the class defined by the aggregated transmission bandwidth configuration and maximum number of component carriers supported by the UE, as specified in TS 36.101 [14]. When all FeatureSetEUTRA-UplinkId:s in the corresponding FeatureSetsPerBand are zero, this field is absent.	24.14			
ca-BandwidthClassUL-NR Defines for UL, the class defined by the aggregated transmission bandwidth configuration and maximum number of component carriers supported by the UE, as specified in TS 38.101-1 [2] and TS 38.101-2 [3]. When all FeatureSetUplinkId:s in the corresponding FeatureSetsPerBand are zero, this field is absent. For FR1, the value 'F' shall not be used as it is invalidated in TS 38.101-1 [2].	Band	No	N/A	N/A
Ca-BandwidthClassUL-NR-r17 Defines for UL, additional FR2 CA bandwidth class (e.g., R, S, T, U) as specified in TS 38.101-2 [3]. When all FeatureSetUplinkId:s in the corresponding FeatureSetsPerBand are zero, this field is absent.	Band	No	N/A	FR2 only
If this field is indicated for a band, the UE shall also set <i>ca-BandwidthClassUL-NR</i> (without suffix) to the highest bandwidth class from the same fallback group that it supports in this band combination and with the given bandwidth combination set ID in case that the bandwidth combination consists of a sub-set of carriers and the same or a sub-set of carrier bandwidths on those carriers with respect to the bandwidth combination corresponding to <i>ca-BandwidthClassUL-NR-r17</i> ; otherwise, it shall omit the <i>ca-BandwidthClassUL-NR</i> (without suffix) field.				
NOTE: If the UE includes <i>ca-BandwidthClassUL-NR-r17</i> in a BandParameter the network ignores the <i>ca-BandwidthClassUL-NR</i> therein, if signalled.				
ca-ParametersEUTRA Contains the EUTRA part of band combination parameters for a given (NG)EN-DC/NE-DC band combination.	ВС	No	N/A	N/A

ca-ParametersNR Contains the NR band combination parameters for a given (NG)EN-DC/NE-DC	ВС	No	N/A	N/A
and/or NR CA band combination. ca-ParametersNRDC Indicates whether the UE supports NR-DC for the band combination. It contains the NR band combination parameters applicable across MCG and SCG. If the band combination includes both FR1 and FR2 bands, a UE indicating support for NR-DC shall support synchronous NR-DC configuration where all serving cells of the MCG	ВС	No	N/A	N/A
are in FR1 and all serving cells of the SCG are in FR2. featureSetCombination Indicates the feature set that the UE supports on the NR and/or MR-DC band	ВС	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 between every CC pair in the same or different band entries in the band combination, except for the CC pair within a band entry with bandwidth class A. A feature set including intraFreqDAPS-r16 can only be referred to by featureSetCombinationDAPS-r16 is only applied to inter-freq DAPS handover if it is referred to by featureSetCombinationDAPS. Both feature sets with and without intraFreqDAPS-r16 can be referred to by the same featureSetCombinationDAPS-r16.	ВС	N/A	N/A	N/A
intrabandConcurrentOperationPowerClass-r16 Indicates the power class, of a particular Uu band combination and the intra-band PC5 band combination(s) on which the UE supports transmission of PC5 simultaneous with Uu uplink (as indicated by supportedTxBandCombListPerBC-Sidelink-r16). The leading/leftmost value corresponds to the band combination of the particular Uu band combination and the first intra-band PC5 band combination included in BandCombinationListSidelinkEUTRA-NR which is indicated with value 1 by supportedTxBandCombListPerBC-Sidelink-r16, the next value corresponds to the band combination of the particular Uu band combination and the second intraband PC5 band combination included in BandCombinationListSidelinkEUTRA-NR which is indicated with value 1 by supportedTxBandCombListPerBC-Sidelink-r16 and so on. If this power class is higher than the power class that the UE supports on the individual Uu or PC5 interface of this band combination, the latter determines maximum TX power available in each interface.	BC	No	N/A	N/A
mrdc-Parameters Contains the band combination parameters for a given (NG)EN-DC/NE-DC band combination.	ВС	No	N/A	N/A
ne-DC-BC Indicates whether the UE supports NE-DC for the band combination.	ВС	No	N/A	N/A
powerClass, powerClass-v1610 Indicates power class the UE supports when operating according to this band combination. If the field is absent, the UE supports the default power class. If this power class is higher than the power class that the UE supports on the individual bands of this band combination (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.	ВС	No	N/A	FR ² only
powerClassNRPart-r16 Indicates NR part power class the UE supports when operating according to this band combination. This field only applies for MR-DC BCs containing only single CC or intra-band CA in NR side in this release.	ВС	No	N/A	FR ² only

scalingFactorTxSidelink-r16, scalingFactorRxSidelink-r16 Indicates, for a particular Uu band combination, the scaling factor for the PC5 band combination(s) on which the UE supports transmission/reception of PC5 simultaneous with Uu uplink/downlink respectively (as indicated by supportedTxBandCombListPerBC-Sidelink-r16 / supportedRxBandCombListPerBC-Sidelink-r16). The leading / leftmost value corresponds to the first band combination included in BandCombinationListSidelinkEUTRA-NR which is indicated with value 1 by supportedTxBandCombListPerBC-Sidelink-r16 / supportedRxBandCombListPerBC-Sidelink-r16, the next value corresponds to the second band combination included in BandCombinationListSidelinkEUTRA-NR which is indicated with value 1 by supportedTxBandCombListPerBC-Sidelink-r16 / supportedRxBandCombListPerBC-Sidelink-r16 and so on. For each value of ScalingFactorSidelink-r16, value f0p4 indicates the scaling factor 0.4, f0p75 indicates 0.75, and so on.	BC	No	N/A	N/A
srs-SwitchingAffectedBandsListNR-r17 Indicates which other bands in the band combination are affected by the SRS switch and the dropping rules / timelines apply to the indicated bands when SRS carrier switching on target CC and other UL on source CC are overlapped in the same symbol. UE indicating support of this feature shall indicate support of srs-CarrierSwitch. NOTE: For each "source-target" pair (as indicated by srs-SwitchingTimesListNR), the UE can indicate which other bands in the band combination are affected by the SRS switch.	BC	No	N/A	N/A
SRS-SwitchingTimeNR 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. switchingTimeDL/ switchingTimeUL: n0us represents 0 us, n30us represents 30us, and so on. switchingTimeDL/ switchingTimeUL is mandatory present if switching between the NR band pair is supported, otherwise the field is absent. It is signalled per pair of bands per band combination.	FD	No	N/A	N/A
SRS-SwitchingTimeEUTRA 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. switchingTimeDL/switchingTimeUL: n0 represents 0 OFDM symbols, n0dot5 represents 0.5 OFDM symbols, n1 represents 1 OFDM symbol and so on. switchingTimeDL/switchingTimeUL is mandatory present if switching between the EUTRA band pair is supported, otherwise the field is absent. It is signalled per pair of bands per band combination.	FD	No	N/A	N/A

			1.1/4	N 1/0
srs-TxSwitch, srs-TxSwitch-v1610	BC	FD	N/A	N/A
Defines whether UE supports SRS for DL CSI acquisition as defined in clause				
6.2.1.2 of TS 38.214 [12]. The capability signalling comprises of the following				
parameters:				
- supportedSRS-TxPortSwitch indicates SRS Tx port switching pattern				
supported by the UE, which is mandatory with capability signalling. The				
indicated UE antenna switching capability of 'xTyR' corresponds to a UE,				
capable of SRS transmission on 'x' antenna ports over total of 'y' antennas,				
where 'y' corresponds to all or subset of UE receive antennas, where 2T4R				
is two pairs of antennas. supportedSRS-TxPortSwitch-v1610, which is				
optional to report, indicates downgrading configuration of SRS Tx port				
switching pattern. If the UE indicates the support of downgrading				
configuration of SRS Tx port switching pattern using <i>supportedSRS</i> -				
TxPortSwitch-v1610, the UE shall report the values for this as below, based				
on what is reported in <i>supportedSRS-TxPortSwitch</i> .				
on what is reported in supported on or tail on owner.				
supportedSRS-TxPortSwitch supportedSRS-TxPortSwitch-				
V1610				
t1r2 t1r1-t1r2				
t1r4 t1r1-t1r2-t1r4				
t2r4 t1r1-t1r2-t2r2-t2r4				
t2r2 t1r1-t2r2				
t4r4 t1r1-t2r2-t4r4				
t1r4-t2r4 t1r1-t1r2-t2r2-t1r4-t2r4				
- txSwitchImpactToRx indicates the lowest band entry number of the UL grou	g			
(see txSwitchWithAnotherBand) that impacts the DL of this band entry;				
(300 tx 0 with with whother barra) that impacts the BE of this barra entry,				
- txSwitchWithAnotherBand indicates the lowest band entry of the UL group,				
which is defined as band entries with UL (see NOTE) that impact each				
other's UL (i.e. SRS TX port switching on any of the cells in the group will				
impact UL on all the cells in the group). This parameter is absent if an UL				
group contains only one band entry.				
For txSwitchImpactToRx and txSwitchWithAnotherBand, value 1 means first entry,				
value 2 means second entry and so on. The UE may include <i>txSwitchImpactToRx</i>				
and txSwitchWithAnotherBand for a band entry even if supportedSRS-TxPortSwitch	h			
is set to 'notSupported' for that band entry. All DL and UL that switch together				
indicate the same entry number.				
The entry number is the band entry number in a band combination. The UE is				
restricted not to include fallback band combinations for the purpose of indicating				
different SRS antenna switching capabilities.				
amorani antonna amtoning appabilitios.				
NOTE: The band with UL includes a band associated with FeatureSetUplinkId				
set to 0 corresponding to the support of SRS-SwitchingTimeNR.				
set to 0 corresponding to the support of SRS-Switching himeric. srs-AntennaSwitchingBeyond4RX-r17	ВС	No	N/A	N/A
Indicates whether the UE supports SRS Antenna switching for more than 4 Rx. The		INO	IN/A	IN/A
	7			
capability signalling comprises the following parameters:				
- supportedSRS-TxPortSwitchBeyond4Rx-r17 indicates a combination of	.			
supported xTyRs. It includes 11-bit bitmap, where starting from the leading /	'			
leftmost bit (bit 0), each bit corresponds to {t1r1, t2r2, t1r2, t4r4, t2r4, t1r4,				
t2r6, t1r6, t4r8, t2r8, t1r8}. For any indicated value, x shall be equal to or				
smaller than the one associated with the largest y.				
- entryNumberAffectBeyond4Rx-r17 indicates the entry number of the first-				
listed band with UL in the band combination that affects this DL.				
- <i>entryNumberSwitchBeyond4Rx-r17</i> indicates the entry number of the first-				
listed band with UL in the band combination that switches together with this				
UL.				
The UE indicating support of this shall indicate support of srs-TxSwitch.				
NOTE: If reported for the party of true of the party of t				
NOTE: If reported for the same values of xTyR in <i>supportedSRS</i> -				
TxPortSwitchBeyond4Rx-r17 as reported with supportedSRS-				
TxPortSwitch/supportedSRS-TxPortSwitch-v1610, the reported values				
for entryNumberAffectBeyond4Rx-r17 and				
entryNumberSwitchBeyond4Rx-r17 are not valid.				

SupportedBandwidthCombinationSet Defines the supported bandwidth combination set for a band combination as defined in TS 38.101-1 [2], TS 38.101-2 [3] and TS 38.101-3 [4]. For NR SA CA, NR-DC, inter-band (NG)EN-DC without intra-band (NG)EN-DC component, inter-band NE-DC without intra-band NE-DC component and intra-band (NG)EN-DC/NE-DC with additional inter-band NR CA component, the field defines the bandwidth combinations for the NR part of the band combination. For intra-band (NG)EN-DC/NE-DC without additional inter-band NR and LTE CA component, the field indicates the supported bandwidth combination set applicable to intra-band (NG)EN-DC/NE-DC band combination. This field is not applicable to source and target cells in intra-frequency DAPS handover. Field encoded as a bit map, where bit N is set to "1" if UE supports Bandwidth Combination Set N for this band combination as defined in the TS 38.101-1 [2], TS 38.101-2 [3] and TS 38.101-3 [4]. The leading / leftmost bit (bit 0) corresponds to the Bandwidth Combination Set 0, the next bit corresponds to the Bandwidth Combination Set 1 and so on. It is mandatory if - the band combination has more than one NR carrier (at least one SCell in an NR cell group); - or is an intra-band (NG)EN-DC/NE-DC combination without additional interband NR and LTE CA component; - or both. The corresponding bits of Bandwidth Combination Set 4 and Bandwidth	BC	CY	N/A	N/A
Combination Set 5 shall not both be set to "1" for the same band combination.				
 supportedBandwidthCombinationSetIntraENDC Defines the supported bandwidth combination set for a band combination that allows configuration of at least one EUTRA serving cell and at least one NR serving cell in the same band, as defined in the TS 38.101-3 [4], table 5.3B.1.2-1 and table 5.3B.1.3-1. For intra-band (NG)EN-DC with additional inter-band CA component(s) of LTE and/or NR, the field defines the bandwidth combinations for the intraband (NG)EN-DC component. For intra-band NE-DC with additional inter-band CA component(s) of LTE and/or NR, the field defines the bandwidth combinations for the intra-band NE-DC component. Field encoded as a bit map, where bit N is set to "1" if UE support Bandwidth Combination Set N for this band combination as defined in the TS 38.101-3 [4]. The leading / leftmost bit (bit 0) corresponds to the Bandwidth Combination Set 0, the next bit corresponds to the Bandwidth Combination Set 1 and so on. It is mandatory if the band combination is an intra-band (NG)EN-DC/NE-DC combination supporting both UL and DL intra-band (NG)EN-DC/NE-DC parts with additional inter-band NR/LTE CA component. It is optional if the band combination is an intra-band (NG)EN-DC/NE-DC combination without supporting UL in both the bands of the intra-band (NG)EN-DC/NE-DC UL part. If not included, the network assumes the UE supports BCS0 as defined in TS 38.101-3 [4], table 5.3B.1.2-1 and table 5.3B.1.3-1 for the intra-band (NG)EN-DC/NE-DC. 	BC	CY	N/A	N/A
supportedTxBandCombListPerBC-Sidelink-r16, supportedRxBandCombListPerBC-Sidelink-r16 Indicates, for a particular Uu band combination, the PC5 band combination(s) on which the UE supports transmission/reception of PC5 simultaneously with Uu uplink/downlink respectively. The leading / leftmost bit (bit 0) corresponds to the first band combination included in BandCombinationListSidelinkEUTRA-NR, the next bit corresponds to the second band combination included in BandCombinationListSidelinkEUTRA-NR and so on. with value 1 indicating simultaneous transmission/reception is supported.	BC	No	N/A	N/A
supportedBandCombListPerBC-SL-RelayDiscovery-r17, supportedBandCombListPerBC-SL-NonRelayDiscovery-r17 Indicates, for a particular Uu band combination, the PC5 Relay discovery and non-Relay discovery band combination(s) on which the UE supports simultaneous transmission/reception of PC5 data (Relay discovery or non-Relay discovery) and Uu uplink/downlink respectively. The leading / leftmost bit (bit 0) corresponds to the first band combination included in supportedBandCombinationListSL-RelayDiscovery-r17/supportedBandCombinationListSL-NonRelayDiscovery-r17, the next bit corresponds to the second band combination included in supportedBandCombinationListSL-RelayDiscovery-r17/supportedBandCombinationListSL-NonRelayDiscovery-r17 and so on. with value 1 indicating simultaneous transmission/reception is supported.	BC	No	N/A	N/A

ULTxSwitchingBandPair-r16, ULTxSwitchingBandPair-v1700	ВС	FD	N/A	FR1
Indicates UE supports dynamic UL 1Tx-2Tx switching in case of inter-band CA,	ВС	רט	IN/A	only
SUL, and (NG)EN-DC, and UL 2Tx-2Tx switching in case of inter-band CA and SUL				Offig
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:				
- bandIndexUL1-r16 and bandIndexUL2-r16 indicate the band pair on which UE				
supports dynamic UL Tx switching. bandindexUL1/bandindexUL2 xx refers to				
the xxth band entry in the band combination. UE shall indicate support for 2-				
layer UL MIMO capabilities on one of the indicated two bands in each				
FeatureSet entry supporting UL 1Tx-2Tx switching and indicate support for 2-				
layer UL MIMO capabilities on both bands in each FeatureSet entry supporting				
UL 2T-2Tx switching, and only the band where UE supports 2-layer UL MIMO				
capability can work as carrier2 as defined in TS 38.101-1 [2] and TS 38.101-3				
[4].				
- 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].				
- <i>uplinkTxSwitching-DL-Interruption-r16</i> 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				
uplinkTxSwitching-OptionSupport-r16	DC	CY	N/A	ED4
	ВС	Ci	IN/A	FR1
Indicates which option is supported for dynamic UL 1Tx-2Tx switching for inter-band				only
UL CA and (NG)EN-DC. switchedUL represents option 1 as specified in TS 38.214				
[12], dualUL represents option 2 as specified in TS 38.214 [12], both represents				
both option 1 and option2 as specified in TS 38.214 [12]. UE shall not report the				
value <i>both</i> for (NG)EN-DC case. The field is mandatory for inter-band UL CA and				
(NG)EN-DC case where UE supports dynamic UL 1Tx-2Tx switching.	- DC	0)/	N1/A	
uplinkTxSwitching-OptionSupport2T2T-r17	BC	CY	N/A	FR1
Indicates which option is supported for dynamic UL 2Tx-2Tx switching for inter-band				only
UL CA. switchedUL represents option 1 as specified in TS 38.214 [12], dualUL				
represents option 2 as specified in TS 38.214 [12], both represents both option 1				
and option2 as specified in TS 38.214 [12]. The field is mandatory for inter-band UL				
CA cases where UE supports dynamic UL 2Tx-2Tx switching. The UE indicating				
support of this feature shall indicate support of at least one common switching				
option between uplinkTxSwitching-OptionSupport2T2T-r17 and uplinkTxSwitching-				
OptionSupport-r16.				
uplinkTxSwitching-PowerBoosting-r16	BC	No	N/A	FR1
Indicates the support of 3dB boosting on the maximum output power for UE				only
transmission under the operation state in which 2-port transmission can be				
supported on carrier2 in case of inter-band UL CA case where UE supports				
dynamic UL Tx switching. A UE shall only indicate this capability in case the UE				
supports power class 3 for inter-band UL CA for the band combination as defined in				
TS 38.101-1 [2].				

 UplinkTxSwitchingBandParameters-v1700 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]. NOTE: If UplinkTxSwitchingBandParameters-v1700 is absent for one or more bands of a band combination, the per BC UE capability reported in uplinkTxSwitching-PUSCH-TransCoherence-r16 is also absent, the UE capability reported in pusch-TransCoherence-r16 is also absent, the UE capability reported in pusch-TransCoherence-r16 is also absent, the UE capability reported in pusch-TransCoherence is applied for corresponding band(s) when uplink Tx switching is triggered between last transmitted SRS and scheduled PUSCH transmission, as specified in TS 38.101-1 [2]. 	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 pusch-TransCoherence applies when the uplink switching is triggered between last transmitted SRS and scheduled transmission.	BC	No	N/A	FR1 only

4.2.7.2 BandNR parameters

Definitions for parameters	Per	M	FDD- TDD DIFF	FR1- FR2 DIFF
ack-NACK-FeedbackForMulticastWithDCI-Enabler-r17 Indicates whether the UE supports DCI-based enabling/disabling ACK/NACK based HARQ-ACK feedback configured per G-RNTI by RRC signalling via DCI format 4_2. A UE supporting this feature shall also indicate support of ack-NACK-	Band	No	N/A	N/A
FeedbackForMulticast-r17 and dynamicMulticastDCI-Format4-2-r17. ack-NACK-FeedbackForSPS-MulticastWithDCI-Enabler-r17 Indicates whether the UE supports DCI-based enabling/disabling ACK/NACK based HARQ-ACK feedback configured per G-CS-RNTI for multicast by RRC signalling via DCI format 4_2.	Band	No	N/A	N/A
A UE supporting this feature shall also indicate support of ack-NACK-FeedbackForSPS-Multicast-r17 and sps-MulticastDCI-Format4-2-r17.				
activeConfiguredGrant-r16 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: - 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	Band	No	N/A	N/A
MAC entity, and across MCG and SCG in case of NR-DC. The UE can include this feature only if the UE indicates support of either configuredUL-GrantType1 or configuredUL-GrantType1-v1650 and/or configuredUL-GrantType2 or configuredUL-GrantType2-v1650.				
 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 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 Indicates whether the UE supports one additional active TCI-State for control in addition to the supported number of active TCI-States for PDSCH. The UE can include this field only if maxNumberActiveTCI-PerBWP in tci-StatePDSCH is set to n1. Otherwise, the UE does not include this field.	Band	No	N/A	N/A
aperiodicBeamReport Indicates whether the UE supports aperiodic 'CRI/RSRP' or 'SSBRI/RSRP' reporting on PUSCH. The UE provides the capability for the band number for which the report is provided (where the measurement is performed).	Band	Yes	N/A	N/A
aperiodicCSI-RS-AdditionalBandwidth-r17 Indicates the UE supported TRS bandwidths for fast SCell activation, in addition to 52 RBs, for a 10MHz UE channel bandwidth. This field only applies for the BWPs configured with 52 RBs size and 15kHz SCS, in FDD bands and indicates the values: Value addBW-Set1 indicates 28, 32, 36, 40, 44, 48 RBs. Value addBW-Set2 indicates 32, 36, 40, 44, 48 RBs. The UE can include this feature only if the UE indicates support of aperiodicCSI-RS-FastScellActivation-r17.	Band	No	FDD only	FR1 only

 aperiodicCSI-RS-FastScellActivation-r17 Indicates whether the UE supports aperiodic CSI-RS for tracking for fast SCell activation, i.e., 1) Aperiodic CSI-RS for tracking for fast SCell activation is triggered by enhanced SCell activation/deactivation MAC CE; 2) Aperiodic CSI-RS for tracking for fast SCell activation is triggered within the BWP indicated by firstActiveDownlinkBWP-Id for the SCell. 	Band	No	N/A	N/A
This field includes the following parameters: - maxNumberAperiodicCSI-RS-PerCC-r17 indicates the maximum number of aperiodic CSI-RS resource set configurations for tracking for fast SCell activation that can be configured to UE per CC in a reported band. Value n8 corresponds to 8, n16 corresponds to 16, and so on.				
 maxNumberAperiodicCSI-RS-AcrossCCs-r17 indicates the maximum number of aperiodic CSI-RS resource set configurations for tracking for fast SCell activation that can be configured to UE across CCs in a reported band. Value n8 corresponds to 8, n16 corresponds to 16, and so on. 				
NOTE: - maxNumberAperiodicCSI-RS-PerCC-r17 and maxNumberAperiodicCSI-RS-AcrossCCs-r17 values refer to the number of RS configurations for fast SCell activation that can be indicated by the MAC CE. - The NZP-CSI-RS configured as RS for tracking for fast SCell activation are not considered when counting the maximum NZP-CSI-RS configurations of CSI-RS and CSI-IM reception for CSI feedback.				
aperiodicTRS Indicates whether the UE supports DCI triggering aperiodic TRS associated with periodic TRS.	Band	No	N/A	Yes
asymmetricBandwidthCombinationSet Defines the supported asymmetric channel bandwidth combination for the band as defined in the TS 38.101-1 [2]. Field encoded as a bit map, where bit N is set to "1" if UE support asymmetric channel bandwidth combination set N for this band as defined in the TS 38.101-1 [2]. The leading / leftmost bit (bit 0) corresponds to the asymmetric channel bandwidth combination set 1, the next bit corresponds to the asymmetric channel bandwidth combination set 2 and so on. UE shall support asymmetric channel bandwidth combination set 0. If the field is absent, the UE supports asymmetric channel bandwidth combination set 0.	Band	No	N/A	N/A
bandNR Defines supported NR frequency band by NR frequency band number, as specified in TS 38.101-1 [2], TS 38.101-2 [3], and TS 38.101-5 [34].	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 Rel-15 beam correspondence requirements. If UE supports neither beamCorrespondenceSSB-based-r16 nor beamCorrespondenceCSI-RS-based-r16, gNB can expect the UE to fulfill beam correspondence based on Rel-15 beam correspondence requirements.	Band	No	TDD only	FR2 only
beamCorrespondenceSSB-based-r16 Indicates whether the UE support for beam correspondence based on SSB has the 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. If UE supports neither beamCorrespondenceSSB-based-r16 nor beamCorrespondenceCSI-RS-based-r16, gNB can expect the UE to fulfil beam correspondence based on Rel-15 beam correspondence requirements.	Band	No	TDD only	FR2 only
beamCorrespondenceWithoutUL-BeamSweeping 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 supported. The UE that fulfils the beam correspondence requirement with the uplink beam sweeping (as specified in TS 38.101-2 [3], clause 6.6) shall not report this field.	Band	Yes	N/A	FR2 only

beamManagementSSB-CSI-RS	Band	Voc	N/A	FD
Defines support of SS/PBCH and CSI-RS based RSRP measurements. The	Band	Yes	IN/A	ן דט
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.				
The state of the s				
- 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).				
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- 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".				
Almahan Alamahan Alamahan Isa OOL DO Daaran asala disataa maasimuu aa af				
- 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.	Dond	Yes	N/A	NI/A
beamReportTiming, beamReportTiming-v1710	Band	res	IN/A	N/A
Indicates the number of OFDM symbols between the end of the last symbol of SSB/CSI-RS and the start of the first symbol of the transmission channel containing				
beam report. The UE provides the capability for the band number for which the				
report is provided (where the measurement is performed). The UE includes this field				
for each supported sub-carrier spacing. beamSwitchTiming, beamSwitchTiming-v1710	Dond	No	NI/A	- FD2
	Band	No	N/A	FR2
Indicates the minimum number of OFDM symbols between the DCI triggering of				only
aperiodic CSI-RS and aperiodic CSI-RS transmission. The number of OFDM				
symbols is measured from the end of the last symbol containing the indication to the				
start of the first symbol of CSI-RS. The UE includes this field for each supported				
sub-carrier spacing. NOTE: beamSwitchTiming of value (sym224 or sym336 for 60kHz and 120kHz				
SCS, sym896 or sym1344 for 480kHz SCS and sym1792 or sym2688 for				
960kHz SCS) will be used to determine UE expectation/behaviour for				
aperiodic CSI-RS for tracking and latency requirements for L1-RSRP reporting as described in clause 5.1.6.1.1 of TS 38.214 [12], while UE				
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, beamSwitchTiming-r17	Band	No	N/A	FR2
Indicates the minimum number of required OFDM symbols (sym224, sym336 for	Dallu	INO	IN/A	only
60kHz and 120kHz SCS, sym896 or sym1344 for 480kHz SCS and sym1792 or				Office
sym2688 for 960kHz SCS) between the DCI triggering aperiodic CSI-RS and the				
corresponding aperiodic CSI-RS transmission in a CSI-RS resource set configured				
with repetition 'ON' if enableBeamSwitchTiming-r16 is configured.				
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 beamSwitchTiming-r16 is reported and				
enableBeamSwitchTiming-r16 is configured.				

bfd-Relaxation-r17 Indicates whether the UE supports BFD 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 and all TDD-FR2-2 bands respectively.	Band	No	N/A	N/A
UE indicating support of this feature shall also indicate support of maxNumberCSI-RS-BFD, maxNumberSSB-BFD and maxNumberCSI-RS-SSB-CBD.				
bwp-DiffNumerology Indicates whether the UE supports BWP adaptation up to 4 BWPs with the different numerologies, via DCI and timer. Except for SUL, the UE only supports the same numerology for the active UL and DL BWP. For the UE which is a non-RedCap 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 the UE which is a RedCap UE capable of this feature, the bandwidth of a UE-specific RRC configured DL BWP may not include the bandwidth of the CORESET#0 (if configured) and SSB for PCell. For SCell(s), the bandwidth of the UE-specific RRC configured DL BWP includes SSB, if there is SSB on SCell(s).	Band	No	N/A	N/A
bwp-SameNumerology Indicates 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 which is a non-RedCap 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 the UE which is a RedCap UE capable of this feature, the bandwidth of a UE-specific RRC configured DL BWP may not include the bandwidth of the CORESET#0 (if configured) and SSB for PCell. For SCell(s), the bandwidth of the UE-specific RRC configured DL BWP includes SSB, if there is SSB on SCell(s).	Band	No	N/A	N/A
bwp-WithoutRestriction Indicates support of BWP operation without bandwidth restriction. The Bandwidth restriction in terms of DL BWP for PCell and PSCell means that the bandwidth of a UE-specific RRC configured DL BWP may not include the bandwidth of CORESET #0 (if configured) and SSB. For SCell(s), it means that the bandwidth of DL BWP may not include SSB.	Band	No	N/A	N/A
cancelOverlappingPUSCH-r16 Indicates whether UE supports the cancellation of the (repetition of the) PUSCHs transmission on all other intra-band serving cell(s). The cancellation of the (repetition of the) PUSCH transmission on a the set of intra-band serving cell(s) includes all symbols from the earliest symbol that is overlapping with the first cancelled symbol of the PUSCH on the serving cell for which the DCI format 2_4 is applicable to. If the UE supports this feature, the UE needs to report pa-PhaseDiscontinuityImpacts and ul-CancellationSelfCarrier-r16.	Band	No	N/A	N/A
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]. Except for NTN bands, UE shall set the capability value consistently for all FDD-FR1 bands, all TDD-FR1 bands and all TDD-FR2 bands respectively. For NTN, UE shall set the capability value consistently for all FDD-FR1 NTN bands. UE supports multiple CG-SDT configurations when a UE indicates the support of this feature and activeConfiguredGrant-r16; otherwise UE only supports one CG-SDT configuration.	Band	No	N/A	N/A

channolPWc_DI	Rand	Voc	NI/A	NI/A
channelBWs-DL Indicates for each subcarrier spacing the UE supported channel bandwidths. Absence of the <i>channelBWs-DL</i> (without suffix) for a band or absence of specific scs-XXkHz entry for a supported subcarrier spacing means that the UE supports the channel bandwidths among [5, 10, 15, 20, 25, 30, 40, 50, 60, 80, 100] and [50, 100, 200] that were defined in clause 5.3.5 of TS 38.101-1 version 15.7.0 [2] and TS 38.101-2 version 15.7.0 [3] for the given band or the specific SCS entry. For IAB-MT, to determine whether the IAB-MT supports a channel bandwidth of 100 MHz, the network checks <i>channelBW-DL-IAB-r16</i> . For FR1, the bits in <i>channelBWs-DL</i> (without suffix) starting from the leading / leftmost bit indicate 5, 10, 15, 20, 25, 30, 40, 50, 60 and 80MHz. For FR2, the bits in <i>channelBWs-DL</i> (without suffix) starting from the leading / leftmost bit indicate 50, 100 and 200MHz. The third / rightmost bit (for 200MHz) shall be set to 1. For IAB-MT the third / rightmost bit (for 200MHz) is ignored. To determine whether the IAB-MT supports a channel bandwidth of 200 MHz, the network checks <i>channelBW-DL-IAB-r16</i> . For FR1, the leading/leftmost bit in <i>channelBWs-DL-v1590</i> indicates 70MHz, the second leftmost bit indicates 45MHz, the third leftmost bit indicates 35MHz, the fourth leftmost bit indicates 100MHz and all the remaining bits in <i>channelBWs-DL-v1590</i> shall be set to 0. The fourth leftmost bit (for 100MHz) is not applicable for bands n41, n48, n77, n78, n79 and n90 as defined in TS 38.101-1 [2]. For each band, RedCap UEs shall indicate supporting the maximum of those channel bandwidths that are less than or equal to 20 MHz for FR1 and less than or equal to 100 Mhz for FR2, taking restrictions in TS 38.101-1 [2] and TS 38.101-2 [3] into consideration. For each band, NTN capable UEs shall indicate the supported channel bandwidths for FR1, taking restrictions in TS 38.101-5 [34] into consideration.	Band	Yes	N/A	N/A
This feature is applicable only for FR1 and FR2-1 band, otherwise it is absent.				
NOTE: To determine whether the UE supports a specific SCS for a given band, the network validates the supportedSubCarrierSpacingDL and the scs-60kHz. To determine whether the UE supports a channel bandwidth of 90 MHz, the network may ignore this capability and validate instead the channelBW-90mhz, the supportedBandwidthCombinationSet and the supportedBandwidthCombinationSetIntraENDC. To determine whether the UE supports a channel bandwidth of 400 MHz, the network may ignore this capability and validate the supportedBandwidthCombinationSet, the supportedBandwidthCombinationSetIntraENDC, and the supportedBandwidthDL. 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 as defined in clause 5.3.6 of TS 38.101-1 [2]), supportedBandwidthDL/supportedBandwidthDL-v1710 and supportedBandwidthDL.				
channelBWs-DL-SCS-120kHz-FR2-2-r17	Band	CY	N/A	N/A
Indicates the UE supported channel bandwidths in DL for the SCS 120kHz. The bits in <i>channelBWs-DL-SCS-120kHz-FR2-2</i> starting from the leading / leftmost bit indicate 100 and 400MHz. 100 and 400 MHz are mandatory channel bandwidths if the UE supports 120 kHz SCS (i.e. the bit for 100 and 400MHz shall always be set to 1). UE supporting this feature shall also indicate support of <i>dl-FR2-2-SCS-120kHz-r17</i> . NOTE: To determine whether the UE supports a SCS 120kHz for a given band, the network validates the <i>supportedSubCarrierSpacingDL</i> . To determine the supported carrier bandwidths, the network validates the <i>channelBWs-DL-SCS-120kHz-FR2-2-r17</i> , the <i>supportedBandwidthCombinationSet</i> and the <i>supportedBandwidthDL-v1710</i> .				

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

channelBWs-UL Indicates for each subcarrier spacing the UE supported channel bandwidths. Absence of the channelBWs-UL (without suffix) for a band or absence of specific scs-XXkHz entry for a supported subcarrier spacing means that the UE supports the channel bandwidths among [5, 10, 15, 20, 25, 30, 40, 50, 60, 80, 100] and [50, 100, 200] that were defined in clause 5.3.5 of TS 38.101-1 version 15.7.0 [2] and TS 38.101-2 version 15.7.0 [3] for the given band or the specific SCS entry. For IAB-MT, to determine whether the IAB-MT supports a channel bandwidth of 100 MHz, the network checks channelBW-UL-IAB-r16. For FR1, the bits in channelBWs-UL (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 45MHz, and all the remaining bits in channelBWs-UL-v1590 shall be set to 0. The fourth leftmost bit (for 100MHz) is not applicable for bands n41, n48, n77, n78, n79 and n90 as defined in TS 38.101-1 [2]. For each band, RedCap UEs shall indicate supporting the maximum of those channel bandwidths that are less than or equal to 20 MHz for FR1 and less than or equal to 100 Mhz for FR2, taking restrictions in TS 38.101-1 [2] and TS 38.101-2 [3] into consideration. For each band, NTN capable UEs shall indicate the supported channel bandwidths for FR1, taking restrictions in TS 38.101-5 [34] into consideration.	Band	Yes	N/A	N/A
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-60kHz</i> . 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>supportedBandwidthCombinationSet</i> and the supportedBandwidthCombinationSetIntraENDC. To determine whether the UE supports a channel bandwidth of 400 MHz, the network may ignore this capability and validate the <i>supportedBandwidthCombinationSet</i> , the <i>supportedBandwidthCombinationSet</i> , the <i>supportedBandwidthUL</i> . For serving cell(s) with other channel bandwidths the network validates the <i>channelBWs-UL</i> , the <i>supportedBandwidthCombinationSet</i> , the <i>supportedBandwidthCombinationSet</i> (for a band supporting asymmetric channel bandwidth as defined in clause 5.3.6 of TS 38.101-1 [2]), <i>supportedBandwidthUL/supportedBandwidthUL-v1710</i> and <i>supportedMinBandwidthUL</i>				
supportedMinBandwidthUL. channelBWs-UL-SCS-120kHz-FR2-2-r17 Indicates the UE supported channel bandwidths in UL for the SCS 120kHz. The bits in channelBWs-UL-SCS-120kHz-FR2-2 starting from the leading / leftmost bit indicate 100 and 400MHz. 100 and 400 MHz are mandatory channel bandwidths if the UE supports 120 kHz SCS (i.e. the bit for 100 and 400MHz shall always be set to 1). UE supporting this feature shall also indicate support of ul-FR2-2-SCS-120kHz-r17. NOTE: To determine whether the UE supports a SCS 120kHz for a given band, the network validates the supportedSubCarrierSpacingUL. To determine the supported carrier bandwidths, the network validates the channelBWs-UL-SCS-120kHz-FR2-2-r17, the supportedBandwidthCombinationSet and the supportedBandwidthUL-v1710.	Band	CY	N/A	N/A

channelBWs-UL-SCS-480kHz-FR2-2-r17	Band	CY	N/A	N/A
Indicates the UE supported channel bandwidths in UL for the SCS 480kHz.				
The bits in <i>channelBWs-UL-SCS-480kHz-FR2-2</i> starting from the leading / leftmost				
bit indicate 400, 800 and 1600MHz.				
400 MHz is a mandatory channel bandwidth if the UE supports 480 kHz SCS (i.e.				
the bit for 400MHz shall always be set to 1).				
UE supporting this feature shall also indicate support of <i>ul-FR2-2-SCS-480kHz-r17</i> .				
NOTE: To determine whether the UE supports a SCS 480kHz for a given band,				
the network validates the supportedSubCarrierSpacingUL.				
To determine the supported carrier bandwidths, the network validates the				
channelBWs-UL-SCS-480kHz-FR2-2-r17, the				
supportedBandwidthCombinationSet and supportedBandwidthUL-v1710.				
channelBWs-UL-SCS-960kHz-FR2-2-r17	Band	CY	N/A	N/A
Indicates the UE supported channel bandwidths in UL for the SCS 960kHz.				
The bits in <i>channelBWs-UL-SCS-960kHz-FR2-2</i> starting from the leading / leftmost				
bit indicate 400, 800, 1600 and 2000MHz.				
400 MHz is a mandatory channel bandwidth if the UE supports 960 kHz SCS (i.e.				
the bit for 400MHz shall always be set to 1).				
UE supporting this feature shall also indicate support of <i>ul-FR2-2-SCS-960kHz-r17</i> .				
NOTE: To determine whether the UE supports a SCS 960kHz for a given band,				
the network validates the supportedSubCarrierSpacingUL.				
To determine the supported carrier bandwidths, the network validates the				
channelBWs-UL-SCS-960kHz-FR2-2-r17, the				
supportedBandwidthCombinationSet and supportedBandwidthUL-v1710.				
channelBW-DL-IAB-r16	Band	No	N/A	N/A
Indicates whether the IAB-MT supports channel bandwidth of 100 MHz for a given				•
SCS in FR1 for DL or whether the IAB-MT supports channel bandwidth of 200 MHz				
for a given SCS in FR2 for DL.				
channelBW-UL-IAB-r16	Band	No	N/A	N/A
Indicates whether the IAB-MT supports channel bandwidth of 100 MHz for a given				
SCS in FR1 for UL or whether the IAB-MT supports channel bandwidth of 200 MHz				
for a given SCS in FR2 for UL.				
-	·			

codebookComboParametersAddition-r16 Indicates the UE supports 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, Type 2 with port selection, 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=1 with port selection, Null} {Type 1 Multi Panel, eType 2 with R=2 with port selection, Null} {Type 1 Multi Panel, Type 2, Type 2 with port selection} 				
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 CSIresource 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 supportedCSI-RS-ResourceList with maxNumberTxPortsPerResource; a UE shall support a maxNumberTxPortsPerResource minimum value of 2 for codebook type I single panel in FR2 in the case of a single active CSIresource 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; amplitudeScalingType indicates the amplitude scaling type supported by the UE (wideband or both wideband and sub-band); amplitudeSubsetRestriction indicates whether amplitude subset restriction is supported for the UE. Parameters for type II codebook with port selection (type2-PortSelection) supported by the UE, which are optional: supportedCSI-RS-ResourceList. parameterLx indicates the parameter "Lx" in codebook generation where x is an index of Tx ports indicated by maxNumberTxPortsPerResource; amplitudeScalingType 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 supportedCSI-RS-ResourceListAlt in codebookParametersPerBand. For type I single panel codebook (type1 singlePanel) supportedCSI-RS-ResourceListAlt. a UE shall report at least one triplet in supportedCSI-RS-ResourceListAlt with maxNumberTxPortsPerResource greater than or equal to 8 for FR1;

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

codebookParametersfetype2-r17	Band	No	N/A	N/A
Indicates the UE support of additional codebooks and the corresponding				
parameters supported by the UE of Further Enhanced Port-Selection Type II				
Codebook (FeType-II) as specified in TS 38.214 [12] clause 5.2.2.2.7.				
The UE indicating this feature shall include fetype2basic-r17 to indicate basic				
features 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 fetype2basic-r17 shall support parameter combinations with M=1				
and support rank 1 and 2. UE indicating this feature shall also include csi-				
ReportFramework.				
The UE optionally includes <i>fetype2R1-r17</i> to indicate whether the UE supports M=2				
and R=1 for FeType-II. This capability signalling comprises the following				
parameters:				
- indicates the list of supported CSI-RS resources in a band by referring to				
codebookVariantsList.				
The UE indicating support of <i>fetype2R1-r17</i> shall also indicate support of				
fetype2basic-r17 and parameter combinations with M=2.				
236				
The UE optionally includes <i>fetype2R2-r17</i> to indicate whether the UE supports R=2				
for FeType-II. This capability signalling comprises the following parameters:				
- indicates the list of supported CSI-RS resources in a band by referring to				
codebookVariantsList.				
UE indicating support of <i>fetype2R2-r17</i> shall also indicate support of <i>fetype2R1-r17</i> .				
2 11 12 13/1				
The UE optionally includes 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.				
- 1-1/1-1 - 1-				
For codebookVariantsList related to the FeType-II:				
- The minimum of maxNumberTxPortsPerResource is 'p4';				
- The minimum value of totalNumberTxPortsPerBand is 4.				

codebookComboParameterMixedType-r17	Band	No	N/A	N/A
Indicates the support of active CSI-RS resources and ports for mixed codebook				
types in any slot. The UE reports support active CSI-RS resources and ports for up				
to 4 mixed codebook combinations in any slot. The following are the possible mixed				
codebook combinations {Codebook1, Codebook2, Codebook3}:				
,				
- type1SP-feType2PS-null-r17 indicates {Type 1 Single Panel, FeType II PS				
M=1, NULL}				
- type1SP-feType2PS-M2R1-null-r17 indicates {Type 1 Single Panel, FeType				
II PS M=2 R=1, NULL}				
- type1SP-feType2PS-M2R2-null-r17 indicates {Type 1 Single Panel, FeType				
II PS M=2 R=2, NULL}				
- type1SP-Type2-feType2-PS-M1-r17 indicates {Type 1 Single Panel, Type II,				
FeType II PS M=1}				
- type1SP-Type2-feType2-PS-M2R1-r17 indicates {Type 1 Single Panel, Type				
II, FeType II PS M=2 R=1}				
- type1SP-eType2R1-feType2-PS-M1-r17 indicates {Type 1 Single Panel,				
eType II R=1, FeType II PS M=1}				
- type1SP-eType2R1-feType2-PS-M2R1-r17 indicates {Type 1 Single Panel,				
eType II R=1, FeType II PS M=2 R=1}				
- type1MP-feType2PS-null-r17 indicates {Type 1 Multi Panel, FeType II PS				
M=1, NULL}				
- type1MP-feType2PS-M2R1-null-r17 indicates {Type 1 Multi Panel, FeType II				
**				
PS M=2 R=1, NULL}				
- type1MP-feType2PS-M2R2-null-r17 indicates {Type 1 Multi Panel, FeType II				
PS M=2 R=2, NULL}				
- type1MP-Type2-feType2-PS-M1-r17 indicates {Type 1 Multi Panel, Type II,				
FeType II PS M=1} - type1MP-Type2-feType2-PS-M2R1-r17 indicates {Type 1 Multi Panel, Type				
II, FeType II PS M=2 R=1}				
- type1MP-eType2R1-feType2-PS-M1-r17 indicates {Type 1 Multi Panel,				
eType II R=1, FeType II PS M=1} - type1MP-eType2R1-feType2-PS-M2R1-r17 indicates {Type 1 Multi Panel,				
eType II R=1, FeType II PS M=2 R=1}				
For each private and head, as more additional for the LIF as more additional DC				
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 for the				
supported CSI-RS resource:				
- maxNumberTxPortsPerResource indicates the maximum number of Tx				
ports in a resource of a band. The minimum of				
maxNumberTxPortsPerResource is 'p4';				
- maxNumberResourcesPerBand indicates the maximum number of				
resources across all CCs in a band;				
- totalNumberTxPortsPerBand indicates the total number of Tx ports				
across all CCs in a band. The minimum value of				
totalNumberTxPortsPerBand is 4.				
The LIE connection this feeture shall indicate the connect of feture 2/2 and 7				
The UE supporting this feature shall indicate the support of fetype2basic-r17, etype2R1-r16, CodebookComboParametersAddition-r16, supportedCSI-RS-				
ResourceList, fetype2R1-r17, fetype2R2-r17.				

	5 .		11/1	11/0
codebookComboParameterMultiTRP-r17	Band	No	N/A	N/A
Indicates the support of active CSI-RS resources and ports in the presence of multi-				
TRP CSI.				
Indicates the support of active CSI-RS resources and ports for mixed codebook				
types in any slot. The UE reports supported active CSI-RS resources and ports for				
up to 4 mixed codebook combinations. The following are the possible mixed				
codebook combinations {Codebook1, Codebook2, Codebook3}:				
 nCJT-null-null indicates {NCJT, NULL, NULL} 				
 nCJT1SP-null-null indicates {NCJT+Type 1 SP for sTRP, NULL, NULL} 				
- nCJT-Type2-null-r16 indicates {NCJT, Type 2, Null}				
 nCJT-Type2PS-null-r16 indicates {NCJT, Type 2 with port selection, Null} 				
- nCJT-eType2R1-null-r16 indicates {NCJT, eType 2 with R=1, Null}				
- nCJT-eType2R2-null-r16 indicates {NCJT, eType 2 with R=2, Null}				
- nCJT-eType2R1PS-null-r16 indicates {NCJT, eType 2 with R=1 and port				
selection, Null}				
- nCJT-eType2R2PS-null-r16 indicates {NCJT, eType 2 with R=2 and port				
selection, Null}				
- nCJT-Type2-Type2PS-r16 indicates {NCJT, Type 2, Type 2 with port				
selection}				
- nCJT1SP-Type2-null-r16 indicates {NCJT+Type 1 SP for sTRP, Type 2,				
Null}				
- nCJT1SP-Type2PS-null-r16 indicates {NCJT+Type 1 SP for sTRP, Type 2				
with port selection, Null}				
- nCJT1SP-eType2R1-null-r16 indicates {NCJT+Type 1 SP for sTRP, eType 2				
, , , , , , , , , , , , , , , , , , , ,				
with R=1, Null}				
- nCJT1SP-eType2R2-null-r16 indicates {NCJT+Type 1 SP for sTRP, eType 2				
with R=2, Null}				
- nCJT1SP-eType2R1PS-null-r16 indicates {NCJT+Type 1 SP for sTRP,				
eType 2 with R=1 and port selection, Null}				
- nCJT1SP-eType2R2PS-null-r16 indicates {NCJT+Type 1 SP for sTRP,				
eType 2 with R=2 and port selection, Null}				
- nCJT1SP-Type2-Type2PS-r16 indicates {NCJT+Type 1 SP for sTRP, Type				
2, Type 2 with port selection}				
 nCJT-feType2PS-null-r17 indicates {NCJT, FeType II PS M=1, NULL} 				
 nCJT-feType2PS-M2R1-null-r17 indicates {NCJT, FeType II PS M=2 R=1, 				
NULL}				
 nCJT-feType2PS-M2R2-null-r17 indicates {NCJT, FeType II PS M=2 R=2, 				
NULL}				
 nCJT-Type2-feType2-PS-M1-r17 indicates {NCJT, Type II, FeType II PS 				
M=1}				
- nCJT-Type2-feType2-PS-M2R1-r17 indicates {NCJT, Type II, FeType II PS				
M=2 R=1}				
- nCJT-eType2R1-feType2-PS-M1-r17 indicates {NCJT, eType II R=1,				
FeType II PS M=1}				
- nCJT-eType2R1-feType2-PS-M2R1-r17 indicates {NCJT, eType II R=1,				
FeType II PS M=2 R=1}				
- nCJT1SP-feType2PS-null-r17 indicates {NCJT+Type 1 SP for sTRP, FeType				
II PS M=1, NULL}				
- nCJT1SP-feType2PS-M2R1-null-r17 indicates {NCJT+Type 1 SP for sTRP,				
FeType II PS M=2 R=1, NULL}				
- nCJT1SP-feType2PS-M2R2-null-r17 indicates {NCJT+Type 1 SP for sTRP,				
FeType II PS M=2 R=2, NULL}				
- nCJT1SP-Type2-feType2-PS-M1-r17 indicates {NCJT+Type 1 SP for sTRP,				
Type II, FeType II PS M=1}				
- nCJT1SP-Type2-feType2-PS-M2R1-r17 indicates {NCJT+Type 1 SP for				
sTRP, Type II, FeType II PS M=2 R=1}				
- nCJT1SP-eType2R1-feType2-PS-M1-r17 indicates {NCJT+Type 1 SP for				
sTRP, eType II R=1, FeType II PS M=1}				
- nCJT1SP-eType2R1-feType2-PS-M2R1-r17 indicates {NCJT+Type 1 SP for				
sTRP, eType II R=1, FeType II PS M=2 R=1}				
For each mixed codebook supported by the LIE supported COLDS				
For each mixed codebook supported by the UE, supported CSI-RS-				
ResourceListAdd-r16 indicates the list of supported CSI-RS resources in a band by				
referring to codebookVariantsList. The following parameters are included in				
codebookVariantsList.				
- maxNumberTxPortsPerResource indicates the maximum number of Tx				
ports in a resource of a band combination.				

 maxNumberResourcesPerBand indicates the maximum number of resources across all CCs in a band combination. totalNumberTxPortsPerBand indicates the total number of Tx ports across all CCs in a band combination. 				
NOTE 1: A CMR pair configured for NCJT will be counted as two activated resources, a CMR configured for sTRP will be counted as one activated resource for a triplet.				
NOTE 2: This capability is relevant only when UE is configured with NCJT CSI in at least one CSI report setting in at least one CC in the band and/or band combination.				
The UE indicating support of this feature shall also indicate the support of mTRP-CSI-EnhancementPerBand-r17.				
condHandover-r16	Band	No	N/A	N/A
Indicates whether the UE supports conditional handover including execution condition, candidate cell configuration and maximum 8 candidate cells. 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	24.14		,, .	
NTN, UE shall set the capability value consistently for all FDD-FR1 NTN bands.				
condHandoverFailure-r16 Indicates whether the UE supports conditional handover during re-establishment procedure when the selected cell is configured as candidate cell for condition handover. Except for NTN bands, UE shall set the capability value consistently for all FDD-FR1 bands, all TDD-FR1 bands, all TDD-FR2-2 bands respectively. For NTN, UE shall set the capability value consistently for all FDD-FR1 NTN bands.	Band	No	N/A	N/A
condHandoverTwoTriggerEvents-r16	Band	CY	N/A	N/A
Indicates whether the UE supports 2 trigger events for same execution condition. This feature is mandatory supported if the UE supports <i>condHandover-r16</i> . 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.	Бапи	Ci	IN/A	N/A
	Dand	NIa	NI/A	NI/A
condPSCellChange-r16 Indicates whether the UE supports conditional PSCell change including execution condition, candidate cell configuration and maximum 8 candidate cells. UE shall set the capability value consistently for all FDD-FR1 bands, all TDD-FR1 bands, all TDD-FR2-1 bands and all TDD-FR2-2 bands respectively.	Band	No	N/A	N/A
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 <i>condPSCellChange-r16</i> . UE shall set the capability value consistently for all FDD-FR1 bands, all TDD-FR2-1 bands and all TDD-FR2-2 bands respectively.				
configuredUL-GrantType1-v1650 Indicates whether the UE supports Type 1 PUSCH transmissions with configured grant as specified in TS 38.214 [12] with UL-TWG-repK value 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.	Band	No	N/A	N/A
The UE only includes <i>configuredUL-GrantType1-v1650</i> if <i>configuredUL-GrantType1</i> is absent.				
configuredUL-GrantType2-v1650 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 and all TDD-FR2-2 bands respectively.	Band	No	N/A	N/A
The UE only includes <i>configuredUL-GrantType2-</i> v1650 if <i>configuredUL-GrantType2</i> is absent.				
cqi-4-BitsSubbandNTN-SharedSpectrumChAccess-r17 Indicates whether the UE supports CQI reporting with 4 bits per subband for NTN and shared spectrum channel access.	Band	No	N/A	N/A

crossCarrierScheduling-SameSCS Indicates whether the UE supports cross carrier scheduling for the same numerology with carrier indicator field (CIF) in carrier aggregation where	Band	No	N/A	N/A
numerologies for the scheduling cell and scheduled cell are same. csi-ReportFramework Indicates whether the UE supports CSI report framework. This capability signalling 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;	Band	Yes	N/A	N/A
 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; - 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;	Band	Yes	N/A	N/A
 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 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. 	Band	Yes	N/A	N/A
 csi-RS-ProcFrameworkForSRS Indicates support of CSI-RS processing framework for SRS. This capability signalling comprises the following parameters: maxNumberPeriodicSRS-AssocCSI-RS-PerBWP indicates the maximum number of periodic SRS resources associated with CSI-RS per BWP; 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. 	Band	No	N/A	N/A
defaultQCL-PerCORESETPoolIndex-r16 Indicates whether the UE supports default QCL assumption per CORESET pool index using multi-DCI based multi-TRP. The UE that indicates support of this feature shall support multiDCI-MultiTRP-r16 and simultaneousReceptionDiffTypeD-r16.	Band	No	N/A	FR2 only

defaultQCL-TwoTCl-r16 Indicates whether the UE supports default QCL assumption with two TCI states using single-DCI based multi-TRP. The UE can include this field only if simultaneousReceptionDiffTypeD-r16 is present. Otherwise, the UE does not include this field.	Band	No	N/A	FR2 only
dmrs-BundlingNonBackToBackTX-r17 Indicates whether the UE supports DM-RS bundling for non-back-to-back transmission for consecutive slots for PUSCH and PUCCH only for corresponding supported back-to-back transmission as reported in dmrs-BundlingPUSCH-RepTypeA-r17, dmrs-BundlingPUSCH-RepTypeB-r17, dmrs-BundlingPUSCH-multiSlot-r17 or dmrs-BundlingPUCCH-Rep-r17. The UE is considered to support the feature in a band of a band combination if the UE indicates support of the feature for the corresponding band and for the band combination. UE indicating support of this feature shall also indicate support of at least one of	Band	No	N/A	N/A
dmrs-BundlingPUSCH-RepTypeA-r17, dmrs-BundlingPUSCH-RepTypeB-r17, dmrs-BundlingPUSCH-multiSlot-r17 or dmrs-BundlingPUCCH-Rep-r17.				
dmrs-BundlingPUCCH-Rep-r17 Indicates whether the UE supports DM-RS bundling for PUCCH repetitions for PUCCH formats 1/3/4 over consecutive symbols. The UE is considered to support the feature in a band of a band combination if the UE indicates support of the feature for the corresponding band and for the band combination. UE indicating support of this feature shall also indicate support of	Band	No	N/A	N/A
maxDurationDMRS-Bundling-r17 and pucch-Repetition-F1-3-4. dmrs-BundlingPUSCH-multiSlot-r17 Indicates whether the UE supports DM-RS bundling for TB processing over multislot PUSCH over consecutive symbols. The UE is considered to support the feature in a band of a band combination if the UE indicates support of the feature for the corresponding band and for the band combination.	Band	No	N/A	N/A
UE indicating support of this feature shall also indicate support of maxDurationDMRS-Bundling-r17 and tb-ProcessingMultiSlotPUSCH-r17.				
dmrs-BundlingPUSCH-RepTypeA-r17 Indicates whether the UE supports DM-RS bundling for PUSCH repetition type A over consecutive symbols. The UE is considered to support the feature in a band of a band combination if the UE indicates support of the feature for the corresponding band and for the band combination. UE indicating support of this feature shall also indicate support of	Band	No	N/A	N/A
maxDurationDMRS-Bundling-r17 and at least one of type1-PUSCH- RepetitionMultiSlots, type2-PUSCH-RepetitionMultiSlots or pusch- RepetitionMultiSlots.				
dmrs-BundlingPUSCH-RepTypeB-r17 Indicates whether the UE supports DM-RS bundling for PUSCH repetition type B over consecutive symbols. The UE is considered to support the feature in a band of a band combination if the UE indicates support of the feature for the corresponding band and for the band combination.	Band	No	N/A	N/A
UE indicating support of this feature shall also indicate support of maxDurationDMRS-Bundling-r17 and pusch-RepetitionTypeB-r16.				
dmrs-BundlingRestart-r17 Indicates whether the UE supports restarting DM-RS bundling after the events triggered by DCI or MAC CE that violate power consistency and phase continuity. The UE is considered to support the feature in a band of a band combination if the UE indicates support of the feature for the corresponding band and for the band combination.	Band	No	N/A	N/A
UE indicating support of this feature shall also indicate support of maxDurationDMRS-Bundling-r17.				
NOTE: Events which are triggered by DCI or MAC CE, but do not require UE capability to resume maintaining power consistency and/or phase continuity as specified in clause 6.1.7 of TS 38.214 [12] are excluded from this feature.				

dynamicMulticastDCI-Format4-2-r17 Indicates whether the UE supports DCI format 4_2 with CRC scrambled with G-RNTI for multicast. A UE supporting this feature shall also indicate support of dynamicMulticastPCell-r17.	Band	No	N/A	N/A
dynamicSlotRepetitionMulticastNTN-SharedSpectrumChAccess-r17 Indicates the maximum number of supported dynamic slot-level repetitions for group-common PDSCH for multicast for NTN and shared spectrum channel access. Value n8 corresponds to 8, and value n16 corresponds to 16. A UE supporting this feature shall also indicate support of dynamicMulticastPCell-r17.	Band	No	N/A	N/A
dynamicSlotRepetitionMulticastTN-NonSharedSpectrumChAccess-r17 Indicates the maximum number of supported dynamic slot-level repetitions for group-common PDSCH for multicast for TN and non-shared spectrum channel access. Value n8 corresponds to 8, and value n16 corresponds to 16. UE shall set the capability value consistently for all FDD-FR1 bands, all TDD-FR1 bands, all TDD-FR2 bands respectively. A UE supporting this feature shall also indicate support of dynamicMulticastPCell-r17.	Band	No	N/A	N/A
enhancedSkipUplinkTxConfigured-v1660 Indicates whether the UE supports skipping UL transmission for a configured uplink grant only if no data is available for transmission and no UCI is multiplexed on the corresponding PUSCH of the uplink grant as specified in TS 38.321 [8]. UE shall 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.	Band	No	N/A	N/A
enhancedSkipUplinkTxDynamic-v1660 Indicates whether the UE supports skipping UL transmission for an uplink grant addressed to a C-RNTI only if no data is available for transmission and no UCI is multiplexed on the corresponding PUSCH of the uplink grant as specified in TS 38.321 [8]. UE shall set the capability value consistently for all FDD-FR1 bands, all TDD-FR1 bands, all TDD-FR2-1 bands and all TDD-FR2-2 bands respectively. The UE only includes enhancedSkipUplinkTxDynamic-v1660 if enhancedSkipUplinkTxDynamic-r16 is absent.	Band	No	N/A	N/A
 enhancedType3-HARQ-CodebookFeedback-r17 Indicates whether the UE supports enhanced type 3 HARQ-ACK codebook feedback based on triggering information in DCI 1_1 and DCI 1_2 (for a UE supporting DCI format 1_2 as indicated in dci-Format1-2And0-2-r16) and also supports transmission of enhanced type 3 HARQ-ACK codebook using the first or second PUCCH configuration based on PHY priority indication in the triggering DCI (for a UE supporting two HARQ-ACK codebooks / PUCCH config as indicated in twoHARQ-ACK-Codebook-type1-r16). The capability signalling comprises the following parameters: enhancedType3-HARQ-Codebooks-r17 indicates the maximum number of supported enhanced type 3 HARQ-ACK codebooks; maxNumberPUCCH-Transmissions-r17 indicates the maximum number of actual PUCCH transmissions for type 3 or enhanced type 3 HARQ-ACK codebook feedback within a slot. UE only supports feedback of a dynamically selected enhanced type 3 HARQ-ACK codebook based on triggering information in DCI 1_1 and DCI 1_2 (for a UE supporting DCI format 1_2 as indicated in dci-Format1-2And0-2-r16) if the UE supports more than one enhanced type 3 HARQ-ACK codebook to be configured (as indicated in enhancedType3-HARQ-Codebooks-r17). The UE indicates support of this capability shall also indicates support of oneShotHARQ-feedback-r16. 	Band	No	N/A	N/A
enhancedUL-TransientPeriod-r16 Indicates whether the UE supports enhanced UL performance for the transient period as specified in clause 6.3.3 of TS 38.101-1 [2] and in clause 6.3.3 of TS 38.101-5 [34]. If not reported, the UE supports transient period of 10us.	Band	No	N/A	FR1 only
eventA4BasedCondHandover-r17 Indicates whether the UE supports Event A4 based conditional handover in NTN bands, i.e., CondEvent A4 as specified in TS 38.331 [9]. A UE supporting this feature shall also indicate the support of condHandover-r16 for NTN bands and the support of nonTerrestrialNetwork-r17. UE shall set the capability value consistently for all FDD-FR1 NTN bands.	Band	No	N/A	N/A

extendedCP Indicates whether the UE supports 60 kHz subcarrier spacing with extended CP	Band	No	N/A	N/A
length for reception of PDCCH, and PDSCH, and transmission of PUCCH, PUSCH, and SRS.				
groupBeamReporting	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 ssb-csirs-SINR-measurement-r16.				
handoverUTRA-FDD-r16	Band	No	N/A	N/A
Indicates whether the UE supports NR to UTRA-FDD CELL_DCH CS handover for the PCell on the band. It is mandatory to support both UTRA-FDD measurement and event B triggered reporting, and periodic UTRA-FDD measurement and				
reporting if the UE supports HO to UTRA-FDD. If this field is included, then UE shall support IMS voice over NR. UE shall set the capability value consistently for all				
FDD-FR1 bands, all TDD-FR1 bands, all TDD-FR2-1 bands and all TDD-FR2-2				
bands respectively. interSlotFreqHopInterSlotBundlingPUSCH-r17	Band	No	N/A	N/A
Indicates whether the UE supports enhanced inter-slot frequency hopping with inter- slot bundling for PUSCH.	Danu	NO		IVA
UE indicating support of this feature shall also indicate support of at least one of dmrs-BundlingPUSCH-RepTypeA-r17, dmrs-BundlingPUSCH-RepTypeB-r17 or dmrs-BundlingPUSCH-multiSlot-r17.				
interSlotFreqHopPUCCH-r17	Band	No	N/A	N/A
Indicates whether the UE supports enhanced inter-slot frequency hopping for PUCCH repetitions with DMRS bundling.	Dana			14//
UE indicating support of this feature shall also indicate support of <i>dmrs-BundlingPUCCH-Rep-r17</i> .				
maxDurationDMRS-Bundling-r17	Band	No	N/A	N/A
Indicates whether the UE supports the maximum duration during which UE is able to maintain power consistency and phase continuity to support DM-RS bundling for PUSCH/PUCCH.				
NOTE: DM-RS bundling is only applicable for UL transmissions with pi/2 BPSK, BPSK, and QPSK modulation orders for the corresponding physical channels.				
maxMIMO-LayersForMulti-DCI-mTRP-r16	Band	No	N/A	N/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 overlapPDSCHsFullyFreqTime-r16.				
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.	Do:	NI-	NI/A	NI/A
max-HARQ-ProcessNumber-r17 Indicates the maximal supported HARQ process numbers for UL and for DL respectively. For each value of max-HARQ-ProcessNumber-r17, value u16d32 indicates the maximal supported HARQ process number is 16 for UL and 32 for DL, value u32d16 indicates the maximal supported HARQ process number is 32 for UL and 13 for DL, value u32d32 indicates the maximal supported HARQ process	Band	No	N/A	N/A
number is 32 for UL and 32 for DL. This field is only applicable for bands in Table 5.2.2-1 in TS 38.101-5 [34] and HAPS operation bands in clause 5.2 of TS 38.104 [35].				

maxNumberPUSCH-TypeA-Repetition-r17 Indicates whether the UE supports the increased maximum number of PUSCH Type A repetitions to 32.	Band	No	N/A	N/A
A UE that indicates support of this feature shall support <i>type1-PUSCH-RepetitionMultiSlots</i> , <i>type2-PUSCH-RepetitionMultiSlots</i> , <i>pusch-RepetitionTypeA-r16</i> or <i>pusch-RepetitionTypeA-v16c0</i> .				
NOTE: For DG PUSCH, the number of repetitions is indicated in a TDRA list. A row index of the TDRA list is indicated by a DCI. For Type 1 CG PUSCH, the number of repetitions is indicated by <i>repK-v1710</i> . For Type 2 CG PUSCH, the number of repetitions is indicated in a TDRA list or by <i>repK-v1710</i> .				
mux-HARQ-ACK-DiffPriorities-r17	Band	No	N/A	N/A
 Indicates whether the UE supports HARQ-ACK with different priorities multiplexing on a PUCCH/PUSCH, comprised of the following functional components: Supports multiplexing a high-priority HARQ-ACK and a low-priority HARQ-ACK into a PUCCH. Supports separate coding for the two HARQ-ACKs; Supports multiplexing a low-priority HARQ-ACK, a high-priority HARQ-ACK and a high-priority SR into a PUCCH; Supports multiplexing a low-priority HARQ-ACK in a high-priority PUSCH (conveying UL-SCH only). Supports separate beta_offset values for this priority combination; Supports multiplexing a high-priority HARQ-ACK in a low-priority PUSCH (conveying UL-SCH only). Supports separate beta_offset values for this priority combination; Supports multiplexing a low-priority HARQ-ACK, a high-priority PUSCH, a high-priority HARQ-ACK and/or CSI; Supports multiplexing a high-priority HARQ-ACK, a low-priority PUSCH, a low-priority HARQ-ACK and/or CSI. 				
The UE indicating support of this feature shall also indicate the support of twoHARQ-ACK-Codebook-type1-r16.				
jointReleaseConfiguredGrantType2-r16 Indicates whether the UE supports joint release in a DCI for two or more configured grant Type 2 configurations for a given BWP of a serving cell. The UE can include this feature only if the UE indicates support of activeConfiguredGrant-r16.	Band	No	N/A	N/A
jointReleaseSPS-r16	Band	No	N/A	N/A
Indicates whether the UE supports joint release in a DCI for two or more SPS configurations for a given BWP of a serving cell. The UE can include this feature only if the UE indicates support of <i>sps-r16</i> .				
k1-RangeExtension-r17	Band	No	N/A	N/A
Indicates whether the UE supports extended K1 value range of (031) for unpaired spectrum. This field is only applicable for bands in Table 5.2.2-1 in TS 38.101-5 [34] and HAPS operation bands in clause 5.2 of TS 38.104 [35].				
Indicates whether the UE supports location based conditional handover, i.e., CondEvent D1 as specified in TS 38.331 [9]. A UE supporting this feature shall also indicate the support of condHandover-r16 for NTN bands and the support of nonTerrestrialNetwork-r17. UE shall set the capability value consistently for all FDD-FR1 NTN bands.	Band	No	N/A	N/A
IowPAPR-DMRS-PDSCH-r16 Indicates whether the UE supports low PAPR DMRS for PDSCH.	Band	No	N/A	N/A
IowPAPR-DMRS-PUCCH-r16	Band	Yes	N/A	N/A
Indicates whether the UE supports low PAPR DMRS for PUCCH format 3 and format 4 with transform precoding and with pi/2 BPSK modulation. UE indicates support of this feature shall indicate support of pucch-F3-4-HalfPi-BPSK and any combination of support of pucch-F3-WithFH, pucch-F4-WithFH and pucch-F1-3-4WithoutFH. It is mandatory with capability signalling.				
IowPAPR-DMRS-PUSCHwithoutPrecoding-r16 Indicates whether the UE supports low PAPR DMRS for PUSCH without transform precoding.	Band	No	N/A	N/A
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
UE indicates support of this feature shall indicate support of <i>pusch-HalfPi-BPSK</i> .				

maxDynamicSlotRepetitionForSPS-Multicast-r17 Indicates maximum number of dynamic slot-level repetitions for SPS group-common PDSCH for multicast. For TN, the UE shall set the capability value consistently for all FDD-FR1 bands, all TDD-FR1 bands and all TDD-FR2 bands, associated with supported shared and non-shared spectrum respectively. For NTN,	Band	No	N/A	N/A
UE shall set the capability value consistently for all FDD-FR1 NTN bands.				
A UE that indicates support of this feature shall indicate support of <i>sps-Multicast- r17</i> .				
maxModulationOrderForMulticast-r17 Defines the maximal modulation order for multicast PDSCH. If not reported, UE supports the same modulation order as unicast For FR1, up to 1024QAM is supported For FR2, up to 256QAM is supported.	Band	No	N/A	N/A
A UE supporting this feature shall also indicate support of <i>dynamicMulticastPCell- r17</i> .				
NOTE: A UE shall support the corresponding mandatory maximum modulation for unicast.				
maxNumberActivatedTCI-States-r16	Band	No	N/A	N/A
The UE that indicates support of this feature shall support <i>multiDCI-MultiTRP-r16</i> .		0)/	N 1/A	31/3
Indicates maximal number of CSI-RS resources across all CCs, and across MCG and SCG in case of NR-DC, for UE to monitor PDCCH quality. In this release, the maximum value that can be signalled is 16. If the UE includes the field in an FR1 band, it shall set the same value in all FR1 bands. If the UE includes the field in an FR2 band, it shall set the same value in all FR2 bands. The UE supports a total number of resources equal to the maximum of the FR1 and FR2 value, but no more than the FR1 value across all FR1 serving cells and no more than the FR2 value across all FR2 serving cells. It is mandatory with capability signalling for FR2 and optional for FR1.	Band	CY	N/A	N/A
maxNumberCSI-RS-SSB-CBD Defines maximal number of different CSI-RS [and/or SSB] resources across all CCs, and across MCG and SCG in case of NR-DC, for new beam identifications. In this release, the maximum value that can be signalled is 128. If the UE includes the field in an FR1 band, it shall set the same value in all FR1 bands. If the UE includes the field in an FR2 band, it shall set the same value in all FR2 bands. The UE supports a total number of resources equal to the maximum of the FR1 and FR2 value, but no more than the FR1 value across all FR1 serving cells and no more than the FR2 value across all FR2 serving cells. It is mandatory with capability signalling for FR2 and optional for FR1. The UE is mandated to report at least 32 for FR2.	Band	CY	N/A	N/A
maxNumberG-CS-RNTI-r17 Defines maximum number of G-CS-RNTIs for SPS multicast. For TN, the UE shall set the capability value consistently for all FDD-FR1 bands, all TDD-FR1 bands and all TDD-FR2 bands, associated with supported shared and non-shared spectrum respectively. For NTN, UE shall set the capability value consistently for all FDD-FR1 NTN bands. A UE supporting this feature shall also indicate support of sps-Multicast-r17.	Band	No	N/A	N/A

maxNumberG-RNTI-r17 Defines maximum number of G-RNTIs for multicast. For TN, the UE shall set the capability value consistently for all FDD-FR1 bands, all TDD-FR1 bands and all TDD-FR2 bands, associated with supported shared and non-shared spectrum respectively. For NTN, UE shall set the capability value consistently for all FDD-FR1 NTN bands.	Band	No	N/A	N/A
A UE supporting this feature shall also indicate support of <i>dynamicMulticastPCell- r17</i> .				
maxNumberNonGroupBeamReporting Defines support of non-group based RSRP reporting using N_max RSRP values	Band	Yes	N/A	N/A
reported. maxNumberRxBeam, maxNumberRxBeam-v1720 Defines whether UE supports receive beamforming switching using NZP CSI-RS resource. UE shall indicate a single value for the preferred number of NZP CSI-RS resource repetitions per CSI-RS resource set. Support of Rx beam switching is mandatory for FR2.	Band	CY	N/A	N/A
maxNumberRxTxBeamSwitchDL, maxNumberRxTxBeamSwitchDL-v1710 Defines the number of Tx and Rx beam changes UE can perform on this band within a slot. UE shall report one value per each subcarrier spacing supported by the UE. In this release, the number of Tx and Rx beam changes for scs-15kHz and scs-30kHz are not included.	Band	No	N/A	FR2 only
maxNumberSCellBFR-r16 Defines the maximum number of SCells configured for SCell beam failure recovery simultaneously. The UE indicating support of this also indicates the capabilities of maxNumberCSI-RS-BFD, maxNumberSSB-BFD and maxNumberCSI-RS-SSB-CBD.	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
maxNumber-LEO-SatellitesPerCarrier-r17 Indicates the number of target LEO satellites the UE can monitor per carrier. For serving carrier, the number of target LEO satellites also includes the serving satellite. If this field is not included, the number of target satellites UE can monitor per carrier is 2. The value shall be larger than or equal to the reported value on maxNumber-NGSO-SatellitesWithinOneSMTC-r17.	Band	No	FDD only	FR1 only
maxNumber-NGSO-SatellitesWithinOneSMTC-r17 Indicates the number of different NGSO satellites for target cells that the UE supports of simultaneous measurements within a SMTC with value n1 corresponds to 1, value n2 corresponds to 2 and so on.	Band	No	FDD only	FR1 only
maxUplinkDutyCycle-PC2-FR1 Indicates the maximum percentage of symbols during a certain evaluation period that can be scheduled for uplink transmission to ensure compliance with applicable electromagnetic energy absorption requirements provided by regulatory bodies. This field is applicable for FR1 power class 2 UE and also applicable for FR1 power class 1.5 UE as specified in clause 6.2.1 of TS 38.101-1 [2]. If the field and maxUplinkDutyCycle-PC1dot5-MPE-FR1-r16 are both absent, 50% shall be applied as the upper limit of the UL duty cycle for power class 2. Value n60 corresponds to 60%, value n70 corresponds to 70% and so on. This capability is not applicable to IAB-MT.	Band	No	N/A	FR1 only
maxUplinkDutyCycle-FR2 Indicates the maximum percentage of symbols during 1s that can be scheduled for 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.	Band	No	N/A	FR2 only

maxUplinkDutyCycle-PC1dot5-MPE-FR1-r16	Band	No	N/A	FR1
Indicates the maximum percentage of symbols during a certain evaluation period				only
that can be scheduled for uplink transmission to ensure compliance with applicable				
electromagnetic energy absorption requirements provided by regulatory bodies.				
This field is only applicable for FR1 power class 1.5 UE as specified in clause 6.2.1				
of TS 38.101-1 [2]. If the field and <i>maxUplinkDutyCycle-PC2-FR1</i> are both absent,				
25% shall be applied as the upper limit of the UL duty cycle for power class 1.5. mn-InitiatedCondPSCellChangeNRDC-r17	Band	No	N/A	N/A
Indicates whether the UE supports MN initiated conditional PSCell change in NR-	Danu	INO	IN/A	IN/
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],				
TS 38.101-2 [3], and TS 38.101-5 [34].				
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].	D 1		N1/A	
mpe-Mitigation-r17	Band	No	N/A	FR2
Indicates the support of enhanced PHR reporting which includes pairs of (P-MPR,				only
SSBRI/CRI). This feature also includes following parameters:				
- maxNumP-MPR-RI-pairs-r17 indicates the maximum number of reported P-				
MPR and SSBRI/CRI pairs;				
- maxNumConfRS-r17 indicates the maximum number of candidate RS(s)				
configured in a RRC pool for MPE mitigation.				
NOTE: maxNumConfRS-r17 is also counted in				
maxTotalResourcesForOneFreqRange-r16/				
maxTotalResourcesForAcrossFreqRanges-r16.				
				NI/A
	Band	No	N/A	IN/A
Indicates whether the UE supports the following features:	Band	No	N/A	IN/ <i>P</i>
Indicates whether the UE supports the following features: - support of PUCCH repetition scheme 1 (inter-slot repetition) with sequential	Band	No	N/A	IN/P
Indicates whether the UE supports the following features: - support of PUCCH repetition scheme 1 (inter-slot repetition) with sequential mapping for repetitions larger than 2 and with cyclic mapping for 2	Band	No	N/A	IN/A
Indicates whether the UE supports the following features: - support of PUCCH repetition scheme 1 (inter-slot repetition) with sequential mapping for repetitions larger than 2 and with cyclic mapping for 2 repetitions.	Band	No	N/A	IN/A
 Indicates whether the UE supports the following features: support of PUCCH repetition scheme 1 (inter-slot repetition) with sequential mapping for repetitions larger than 2 and with cyclic mapping for 2 repetitions. support of up to two PUCCH power control parameter sets/spatial relation 	Band	No	N/A	IN/P
 Indicates whether the UE supports the following features: support of PUCCH repetition scheme 1 (inter-slot repetition) with sequential mapping for repetitions larger than 2 and with cyclic mapping for 2 repetitions. support of up to two PUCCH power control parameter sets/spatial relation information per PUCCH resource. The power control parameter sets only 	Band	No	N/A	IN/A
 Indicates whether the UE supports the following features: support of PUCCH repetition scheme 1 (inter-slot repetition) with sequential mapping for repetitions larger than 2 and with cyclic mapping for 2 repetitions. support of up to two PUCCH power control parameter sets/spatial relation information per PUCCH resource. The power control parameter sets only apply to FR1 and spatial relation information only applies to FR2. 	Band	No	N/A	IN/A
 Indicates whether the UE supports the following features: support of PUCCH repetition scheme 1 (inter-slot repetition) with sequential mapping for repetitions larger than 2 and with cyclic mapping for 2 repetitions. support of up to two PUCCH power control parameter sets/spatial relation information per PUCCH resource. The power control parameter sets only apply to FR1 and spatial relation information only applies to FR2. supported PUCCH formats for PUCCH repetition scheme 1. 	Band	No No	N/A	
 Indicates whether the UE supports the following features: support of PUCCH repetition scheme 1 (inter-slot repetition) with sequential mapping for repetitions larger than 2 and with cyclic mapping for 2 repetitions. support of up to two PUCCH power control parameter sets/spatial relation information per PUCCH resource. The power control parameter sets only apply to FR1 and spatial relation information only applies to FR2. supported PUCCH formats for PUCCH repetition scheme 1. 				
 Indicates whether the UE supports the following features: support of PUCCH repetition scheme 1 (inter-slot repetition) with sequential mapping for repetitions larger than 2 and with cyclic mapping for 2 repetitions. support of up to two PUCCH power control parameter sets/spatial relation information per PUCCH resource. The power control parameter sets only apply to FR1 and spatial relation information only applies to FR2. supported PUCCH formats for PUCCH repetition scheme 1. mTRP-PUCCH-CyclicMapping-r17 Indicates whether the UE supports cyclic mapping for beam mapping/power control 				
 Indicates whether the UE supports the following features: support of PUCCH repetition scheme 1 (inter-slot repetition) with sequential mapping for repetitions larger than 2 and with cyclic mapping for 2 repetitions. support of up to two PUCCH power control parameter sets/spatial relation information per PUCCH resource. The power control parameter sets only apply to FR1 and spatial relation information only applies to FR2. supported PUCCH formats for PUCCH repetition scheme 1. mTRP-PUCCH-CyclicMapping-r17 Indicates whether the UE supports cyclic mapping for beam mapping/power control parameter set mapping for PUCCH repetitions scheme 1 and/or 3 when the number 				
 Indicates whether the UE supports the following features: support of PUCCH repetition scheme 1 (inter-slot repetition) with sequential mapping for repetitions larger than 2 and with cyclic mapping for 2 repetitions. support of up to two PUCCH power control parameter sets/spatial relation information per PUCCH resource. The power control parameter sets only apply to FR1 and spatial relation information only applies to FR2. supported PUCCH formats for PUCCH repetition scheme 1. mTRP-PUCCH-CyclicMapping-r17 Indicates whether the UE supports cyclic mapping for beam mapping/power control parameter set mapping for PUCCH repetitions scheme 1 and/or 3 when the number of repetitions is larger than 2. The UE that indicates support of this feature shall also indicate support of mTRP- 				
 Indicates whether the UE supports the following features: support of PUCCH repetition scheme 1 (inter-slot repetition) with sequential mapping for repetitions larger than 2 and with cyclic mapping for 2 repetitions. support of up to two PUCCH power control parameter sets/spatial relation information per PUCCH resource. The power control parameter sets only apply to FR1 and spatial relation information only applies to FR2. supported PUCCH formats for PUCCH repetition scheme 1. mTRP-PUCCH-CyclicMapping-r17 Indicates whether the UE supports cyclic mapping for beam mapping/power control parameter set mapping for PUCCH repetitions scheme 1 and/or 3 when the number of repetitions is larger than 2. The UE that indicates support of this feature shall also indicate support of mTRP-PUCCH-InterSlot-r17. 	Band	No	N/A	N/A
 Indicates whether the UE supports the following features: support of PUCCH repetition scheme 1 (inter-slot repetition) with sequential mapping for repetitions larger than 2 and with cyclic mapping for 2 repetitions. support of up to two PUCCH power control parameter sets/spatial relation information per PUCCH resource. The power control parameter sets only apply to FR1 and spatial relation information only applies to FR2. supported PUCCH formats for PUCCH repetition scheme 1. mTRP-PUCCH-CyclicMapping-r17 Indicates whether the UE supports cyclic mapping for beam mapping/power control parameter set mapping for PUCCH repetitions scheme 1 and/or 3 when the number of repetitions is larger than 2. The UE that indicates support of this feature shall also indicate support of mTRP-PUCCH-InterSlot-r17. mTRP-PUCCH-SecondTPC-r17 				N/A
 Indicates whether the UE supports the following features: support of PUCCH repetition scheme 1 (inter-slot repetition) with sequential mapping for repetitions larger than 2 and with cyclic mapping for 2 repetitions. support of up to two PUCCH power control parameter sets/spatial relation information per PUCCH resource. The power control parameter sets only apply to FR1 and spatial relation information only applies to FR2. supported PUCCH formats for PUCCH repetition scheme 1. mTRP-PUCCH-CyclicMapping-r17 Indicates whether the UE supports cyclic mapping for beam mapping/power control parameter set mapping for PUCCH repetitions scheme 1 and/or 3 when the number of repetitions is larger than 2. The UE that indicates support of this feature shall also indicate support of mTRP-PUCCH-InterSlot-r17. mTRP-PUCCH-SecondTPC-r17 Indicates whether the UE supports second TPC field for per TRP closed-loop power 	Band	No	N/A	N/A
 Indicates whether the UE supports the following features: support of PUCCH repetition scheme 1 (inter-slot repetition) with sequential mapping for repetitions larger than 2 and with cyclic mapping for 2 repetitions. support of up to two PUCCH power control parameter sets/spatial relation information per PUCCH resource. The power control parameter sets only apply to FR1 and spatial relation information only applies to FR2. supported PUCCH formats for PUCCH repetition scheme 1. mTRP-PUCCH-CyclicMapping-r17 Indicates whether the UE supports cyclic mapping for beam mapping/power control parameter set mapping for PUCCH repetitions scheme 1 and/or 3 when the number of repetitions is larger than 2. The UE that indicates support of this feature shall also indicate support of mTRP-PUCCH-InterSlot-r17. mTRP-PUCCH-SecondTPC-r17 Indicates whether the UE supports second TPC field for per TRP closed-loop power control for PUCCH with DCI formats 1_1 / 1_2. 	Band	No	N/A	N/A
 Indicates whether the UE supports the following features: support of PUCCH repetition scheme 1 (inter-slot repetition) with sequential mapping for repetitions larger than 2 and with cyclic mapping for 2 repetitions. support of up to two PUCCH power control parameter sets/spatial relation information per PUCCH resource. The power control parameter sets only apply to FR1 and spatial relation information only applies to FR2. supported PUCCH formats for PUCCH repetition scheme 1. mTRP-PUCCH-CyclicMapping-r17 Indicates whether the UE supports cyclic mapping for beam mapping/power control parameter set mapping for PUCCH repetitions scheme 1 and/or 3 when the number of repetitions is larger than 2. The UE that indicates support of this feature shall also indicate support of mTRP-PUCCH-InterSlot-r17. mTRP-PUCCH-SecondTPC-r17 Indicates whether the UE supports second TPC field for per TRP closed-loop power control for PUCCH with DCI formats 1_1 / 1_2. The UE that indicates support of this feature shall also indicate support of mTRP- 	Band	No	N/A	N/A
 Indicates whether the UE supports the following features: support of PUCCH repetition scheme 1 (inter-slot repetition) with sequential mapping for repetitions larger than 2 and with cyclic mapping for 2 repetitions. support of up to two PUCCH power control parameter sets/spatial relation information per PUCCH resource. The power control parameter sets only apply to FR1 and spatial relation information only applies to FR2. supported PUCCH formats for PUCCH repetition scheme 1. mTRP-PUCCH-CyclicMapping-r17 Indicates whether the UE supports cyclic mapping for beam mapping/power control parameter set mapping for PUCCH repetitions scheme 1 and/or 3 when the number of repetitions is larger than 2. The UE that indicates support of this feature shall also indicate support of mTRP-PUCCH-InterSlot-r17. mTRP-PUCCH-SecondTPC-r17 Indicates whether the UE supports second TPC field for per TRP closed-loop power control for PUCCH with DCI formats 1_1 / 1_2. The UE that indicates support of this feature shall also indicate support of mTRP-PUCCH-InterSlot-r17. 	Band	No	N/A	N/A
 Indicates whether the UE supports the following features: support of PUCCH repetition scheme 1 (inter-slot repetition) with sequential mapping for repetitions larger than 2 and with cyclic mapping for 2 repetitions. support of up to two PUCCH power control parameter sets/spatial relation information per PUCCH resource. The power control parameter sets only apply to FR1 and spatial relation information only applies to FR2. supported PUCCH formats for PUCCH repetition scheme 1. mTRP-PUCCH-CyclicMapping-r17 Indicates whether the UE supports cyclic mapping for beam mapping/power control parameter set mapping for PUCCH repetitions scheme 1 and/or 3 when the number of repetitions is larger than 2. The UE that indicates support of this feature shall also indicate support of mTRP-PUCCH-InterSlot-r17. mTRP-PUCCH with DCI formats 1_1 / 1_2. The UE that indicates support of this feature shall also indicate support of mTRP-PUCCH-InterSlot-r17. mTRP-PUSCH-twoCSI-RS-r17 	Band	No	N/A	N/A
 Indicates whether the UE supports the following features: support of PUCCH repetition scheme 1 (inter-slot repetition) with sequential mapping for repetitions larger than 2 and with cyclic mapping for 2 repetitions. support of up to two PUCCH power control parameter sets/spatial relation information per PUCCH resource. The power control parameter sets only apply to FR1 and spatial relation information only applies to FR2. supported PUCCH formats for PUCCH repetition scheme 1. mTRP-PUCCH-CyclicMapping-r17 Indicates whether the UE supports cyclic mapping for beam mapping/power control parameter set mapping for PUCCH repetitions scheme 1 and/or 3 when the number of repetitions is larger than 2. The UE that indicates support of this feature shall also indicate support of mTRP-PUCCH-InterSlot-r17. mTRP-PUCCH-SecondTPC-r17 Indicates whether the UE supports second TPC field for per TRP closed-loop power control for PUCCH with DCI formats 1_1 / 1_2. The UE that indicates support of this feature shall also indicate support of mTRP-PUCCH-InterSlot-r17. mTRP-PUSCH-twoCSI-RS-r17 Indicates whether the UE supports up to two NZP CSI-RS resources associated 	Band	No	N/A	N/A
 Indicates whether the UE supports the following features: support of PUCCH repetition scheme 1 (inter-slot repetition) with sequential mapping for repetitions larger than 2 and with cyclic mapping for 2 repetitions. support of up to two PUCCH power control parameter sets/spatial relation information per PUCCH resource. The power control parameter sets only apply to FR1 and spatial relation information only applies to FR2. supported PUCCH formats for PUCCH repetition scheme 1. mTRP-PUCCH-CyclicMapping-r17 Indicates whether the UE supports cyclic mapping for beam mapping/power control parameter set mapping for PUCCH repetitions scheme 1 and/or 3 when the number of repetitions is larger than 2. The UE that indicates support of this feature shall also indicate support of mTRP-PUCCH-InterSlot-r17. mTRP-PUCCH-secondTPC-r17 Indicates whether the UE supports second TPC field for per TRP closed-loop power control for PUCCH with DCI formats 1_1 / 1_2. The UE that indicates support of this feature shall also indicate support of mTRP-PUCCH-InterSlot-r17. mTRP-PUSCH-twoCSI-RS-r17 Indicates whether the UE supports up to two NZP CSI-RS resources associated with the two SRS resource sets for non-codebook-based mTRP PUSCH. 	Band	No	N/A	N/A
 mapping for repetitions larger than 2 and with cyclic mapping for 2 repetitions. support of up to two PUCCH power control parameter sets/spatial relation information per PUCCH resource. The power control parameter sets only apply to FR1 and spatial relation information only applies to FR2. supported PUCCH formats for PUCCH repetition scheme 1. mTRP-PUCCH-CyclicMapping-r17 Indicates whether the UE supports cyclic mapping for beam mapping/power control parameter set mapping for PUCCH repetitions scheme 1 and/or 3 when the number of repetitions is larger than 2. The UE that indicates support of this feature shall also indicate support of mTRP-PUCCH-InterSlot-r17. mTRP-PUCCH-SecondTPC-r17 Indicates whether the UE supports second TPC field for per TRP closed-loop power control for PUCCH with DCI formats 1_1 / 1_2. The UE that indicates support of this feature shall also indicate support of mTRP-PUCCH-InterSlot-r17. mTRP-PUSCH-twoCSI-RS-r17 	Band	No	N/A	N/A N/A

mTRP-BFR-twoBFD-RS-Set-r17 Indicates whether the UE supports mTRP BFR based on two BFD-RS sets. The capability signalling comprises the following parameters: - maxBFD-RS-resourcesPerSetPerBWP-r17 indicates the maximum number of supported measured BFD-RS resources per set per BWP.	Band	No	N/A	N/A
 maxBFR-r17 indicates the maximum number of CCs per band configured with BFR (including spCell/SCell/MTRP BFR). maxBFD-RS-resourcesAcrossSetsPerBWP-r17 indicates the supported maximum number of measured BFD-RS resources across two BFD-RS sets 				
per BWP. maxBFD-RS-resourcesAcrossSetsPerBWP-r17 is also counted in maxTotalResourcesForOneFreqRange-r16 and				
maxTotalResourcesForAcrossFreqRanges-r16.				
mTRP-BFR-PUCCH-SR-perCG-r17	Band	No	N/A	N/A
Indicates the maximum number of supported PUCCH-SR resources for MTRP BFR per cell group. A UE that supports <i>mTRP-BFR-twoBFD-RS-Set-r17</i> shall indicate support of this feature with at least 1 PUCCH-SR resources for MTRP BFR per cell group.				
UE shall set the capability value consistently for all FDD-FR1 bands, all TDD-FR1 bands, all TDD-FR2-1 bands and all TDD-FR2-2 bands respectively.				
mTRP-BFR-association-PUCCH-SR-r17	Band	No	N/A	N/A
Indicates whether the UE supports association between a BFD-RS resource set on SpCell and a PUCCH SR resource.				
The UE indicating support of this feature shall support <i>mTRP-BFR-PUCCH-SR-perCG-r17</i> . UE shall set the capability value consistently for all FDD-FR1 bands, all TDD-FR1 bands and all TDD-FR2-2 bands respectively.				
mTRP-BFD-RS-MAC-CE-r17	Band	No	N/A	N/A
Indicates the support of MAC-CE based update of explicit BFD-RS for mTRP BFR with maximum number of configured candidate BFD-RS per BWP for MAC-CE				
based update. The UE indicating support of this feature shall also indicate the support of <i>mTRP-BFR-twoBFD-RS-Set-r17</i> .				
mTRP-CSI-EnhancementPerBand-r17	Band	No	N/A	N/A
Indicates support of CSI enhancements for multi-TRP including support of NZP CSI-RS resource pairs used as CMR (channel measurement resource) pairs for NCJT measurement hypothesis with N=1.				
This feature also includes following parameters: - maxNumNZP-CSI-RS-r17 indicates the maximum number of NZP CSI-RS				
resources in one CSI-RS resource set: Ks,max				
 cSI-Report-mode-r17 indicates the CSI report mode selection. Mode1 indicates mode 1 with X=0, mode2 indicates mode 2, both indicate the support of both mode 1 with X=0 and mode 2. 				
- A list of supported combinations, up to 16, across all CCs simultaneously,				
 where each combination includes: maxNumTx-Ports-r17 indicates the maximum number of Tx ports in one NZP CSI-RS resource associated with an NCJT measurement 				
hypothesis - maxTotalNumCMR-r17 indicates the maximum total number of CMRs for				
NCJT measurement				
 maxTotalNumTx-PortsNZP-CSI-RS-r17 indicates the maximum total number of Tx ports of NZP CSI-RS resources associated with NCJT measurement hypotheses 				
- codebookModeNCJT-r17 indicates the supported codebook modes for NCJT CSI.				
mTRP-CSI-numCPU-r17	Band	No	N/A	N/A
Indicates the number of CSI processing units (CPUs) occupied by a pair of CMRs for NCJT CSI hypotheses. Maximum number of CPUs is reported in <i>csi-ReportFramework</i> .				
The UE indicating support of this feature shall also indicate the support of <i>mTRP-CSI-EnhancementPerBand-r17</i> .				
mTRP-CSI-additionalCSI-r17 Indicates the maximum value of numberOfSingleTRP-CSI-Mode1.	Band	No	N/A	N/A
The UE indicating support of this feature shall also indicate 'mode1' or 'both' in cSI-Report-mode-r17 of mTRP-CSI-EnhancementPerBand-r17.				

mTRP-CSI-N-Max2-r17 Indicates the support of maximum number of CMR pairs Nmax=2 configured in NZP-CSI-RS-ResourceSet for a given CSI report setting.	Band	No	N/A	N/A
The UE indicating support of this feature shall also indicate the support of <i>mTRP-CSI-EnhancementPerBand-r17</i> .				
mTRP-CSI-CMR-r17 Indicates the support of a NZP CSI-RS resource referred by both a CMR pair configured for Rel-17 Multi-TRP CSI enhancement and a single CMR configured for Single-TRP measurement in a CSI reporting setting. The UE indicating support of this feature shall also indicate the support of mTRP-	Band	No	N/A	FR2 only
CSI-EnhancementPerBand-r17. mTRP-PDCCH-individual-r17	Band	No	N/A	N/A
Indicates the support of monitoring of individual candidates when one of the linked PDCCH candidates uses the same set of CCEs as an individual (unlinked) PDCCH candidate, and they both are associated with the same DCI size, scrambling, and CORESET.				
The UE indicating support of this feature shall also indicate support of <i>mTRP-PDCCH-Repetition-r17</i> .				
mTRP-PDCCH-anySpan-3Symbols-r17 Indicates support of PDCCH repetition for PDCCH monitoring on any span of up to 3 consecutive OFDM symbols of a slot. It is applicable to 15kHz SCS only. The UE indicating support of this feature shall also indicate support of pdcchMonitoringSingleOccasion and mTRP-PDCCH-Repetition-r17.	Band	No	N/A	FR1 only
mTRP-PDCCH-TwoQCL-TypeD-r17 Indicates the support of determining two QCL-TypeD for time-domain overlapping CORESETs in the same CC or for intra-band CA when UE is configured with PDCCH repetition. The UE indicating support of this feature shall also indicate support of mTRP-PDCCH-Repetition-r17.	Band	No	N/A	FR2 only
mTRP-PUSCH-CSI-RS-r17 Indicates the support of CSI-RS processing framework for SRS with two associated CSI-RS resources.	Band	No	N/A	N/A
 This feature also includes following parameters: maxNumPeriodicSRS-r17 indicates the maximum number of periodic SRS resources associated with first and second CSI-RS per BWP. maxNumAperiodicSRS-r17 indicates the maximum number of aperiodic SRS resources associated with first and second CSI-RS per BWP. maxNumSP-SRS-r17 indicates the maximum number of semi-persistent SRS resources associated with first and second CSI-RS per BWP. numSRS-ResourcePerCC-r17: UE can process Y SRS resources associated with first and second CSI-RS resources simultaneously in a CC. Includes Periodic/Semi-Persistent/Aperiodic SRS. numSRS-ResourceNonCodebook-r17: UE can process up to X CSI-RS resources associated with SRS for non-codebook based transmission simultaneously. 				
The UE indicating support of this feature shall also indicate the support of mTRP-PUSCH-twoCSI-RS-r17.				
mTRP-PUSCH-cyclicMapping-r17 Indicates the support of cyclic mapping when the number of repetitions is larger than 2 with repetition type.	Band	No	N/A	N/A
The UE indicating support of this feature shall also indicate the support of <i>mTRP-PUSCH-TypeA-CB-r17</i> or <i>mTRP-PUSCH-RepetitionTypeA-r17</i> .				
mTRP-PUSCH-secondTPC-r17 Indicates the support of second TPC field for per TRP closed-loop power control for PUSCH with DCI formats 0_1 and 0_2.	Band	No	N/A	N/A
The UE indicating support of this feature shall also indicate the support of <i>mTRP-PUSCH-TypeA-CB-r17</i> or <i>mTRP-PUSCH-RepetitionTypeA-r17</i> .				

mTRP-PUSCH-twoPHR-Reporting-r17 Indicates the support of PHR reporting related to M-TRP PUSCH repetition (calculate two PHRs (at least corresponding to the CC that applies m-TRP PUSCH repetitions), each associated with a first PUSCH occasion corresponding to each SRS resource set, and report two PHRs). The UE indicating support of this feature shall also indicate the support of mTRP-PUSCH-TypeA-CB-r17 or mTRP-PUSCH-RepetitionTypeA-r17.	Band	No	N/A	N/A
mTRP-PUSCH-A-CSI-r17 Indicates the support of A-CSI report on two PUSCH repetitions. The UE indicating support of this feature shall also indicate the support of mTRP-PUSCH-TypeA-CB-r17 or mTRP-PUSCH-RepetitionTypeA-r17.	Band	No	N/A	N/A
mTRP-PUSCH-SP-CSI-r17 Indicates the support of SP-CSI report on two PUSCH repetitions. The UE indicating support of this feature shall also indicate the support of mTRP-PUSCH-TypeA-CB-r17 or mTRP-PUSCH-RepetitionTypeA-r17.	Band	No	N/A	N/A
mTRP-PUSCH-CG-r17 Indicates the support of CG PUSCH transmission towards M-TRPs using a single CG configuration. The UE uses same beam mapping principals as dynamic grant PUSCH repetition scheme. The UE indicating support of this feature shall also indicate the support of mTRP-PUSCH-TypeA-CB-r17 or mTRP-PUSCH-RepetitionTypeA-r17.	Band	No	N/A	N/A
mTRP-PUCCH-MAC-CE-r17 Indicates the support of updating two Spatial Relation Info's and two sets of power control parameters for a group of PUCCH resources in a CC by MAC-CE. The UE indicates support of this feature shall also indicate support of mTRP-PUCCH-InterSlot-r17.	Band	No	N/A	N/A
mTRP-PUCCH-maxNum-PC-FR1-r17 Indicates the maximum number of power control parameter sets configured for multi-TRP PUCCH repetition in FR1. The UE indicating support of this feature shall also indicate the support of mTRP-PUCCH-InterSlot-r17.	Band	No	N/A	FR1 only
 mTRP-inter-Cell-r17 Indicates the support of RRC configuration of additional PCI different from serving cell associated with the TCI state and/or QCL-info. This feature also includes following parameters: maxNumAdditionalPCI-Case1-r17 indicates the maximum number of configured additional PCIs per CC is X1 (Case 1) when each configuration of SSB time domain positions and periodicity of the additional PCIs is the same as SSB time domain positions and periodicity of the serving cell PCI. maxNumAdditionalPCI-Case2-r17 indicates the maximum number of configured additional PCIs per CC is X2 (Case 2) when the configurations of SSB time domain positions and periodicity of the additional PCIs is not according to Case 1. The UE indicating support of this feature shall also indicate the support of multiDCI-MultiTRP-r16. 	Band	No	N/A	N/A

mTRP-GroupBasedL1-RSRP-r17	Band	No	N/A	N/A
Indicates the support of group based L1-RSRP reporting enhancements.	Danu	INO	IN/A	IN/A
This feature also includes following parameters:				
- maxNumBeamGroups-r17 indicates the maximum number N of beam				
groups (M=2 beams per beam group) in a single L1-RSRP reporting				
instance based on measurement on two CMR resource sets.				
- maxNumRS-WithinSlot-r17 indicates the maximum number of SSB and CSI-				
RS resources for measurement in both CMR sets within a slot across all				
CCs.				
- maxNumRS-AcrossSlot-r17 indicates the maximum number of configured				
SSB and CSI-RS resources for measurement in both CMR sets across all				
CCs.				
maxNumRS-WithinSlot-r17 and maxNumRS-AcrossSlot-r17 are also counted in maxTotalResourcesForOneFreqRange-r16 and				
maxTotalResourcesForAcrossFreqRanges-r16.				
multiPDSCH-SingleDCI-FR2-1-SCS-120kHz-r17	Band	No	N/A	N/A
Indicates whether the UE supports multi-PDSCH scheduling by single DCI for the	Dana	''	,, .	,, .
operation with 120kHz SCS in FR2-1 and HARQ enhancements for both type 1 and				
type 2 HARQ codebook.				
multiPUCCH-HARQ-ACK-ForMulticastUnicast-r17	Band	No	N/A	N/A
Indicates whether the UE supports two non-overlapping slot-based PUCCHs for				
ACK/NACK based HARQ-ACK feedback for multicast or for unicast and multicast				
with different priorities in a slot.				
For TN, the UE shall set the capability value consistently for all FDD-FR1 bands, all				
TDD-FR1 bands and all TDD-FR2 bands, associated with supported shared and				
non-shared spectrum respectively. For NTN, UE shall set the capability value				
consistently for all FDD-FR1 NTN bands.				
A UE supporting this feature shall also indicate support of <i>priorityIndicatorInDCI-</i>				
Multicast-r17 and twoHARQ-ACK-CodebookForUnicastAndMulticast-r17.				
multiPUSCH-SingleDCI-FR2-1-SCS-120kHz-r17	Band	No	N/A	N/A
Indicates whether the UE supports multi-PUSCH scheduling by single DCI for the	Bana	110	14// (14// (
operation with 120kHz SCS in FR2-1 with non-contiguous allocation.				
multipleRateMatchingEUTRA-CRS-r16	Band	No	N/A	FR1
Indicates whether the UE supports multiple E-UTRA CRS rate matching patterns,				only
which is supported only for FR1. The capability signalling comprises the following				
parameters:				
- maxNumberPatterns-r16 indicates the maximum number of LTE-CRS rate				
matching patterns in total within a NR carrier using 15 kHz SCS. The UE can				
report the value larger than 2 only if UE reports the value of				
maxNumberNon-OverlapPatterns-r16 is larger than 1.				
- maxNumberNon-OverlapPatterns-r16 indicates the maximum number of				
LTE-CRS non-overlapping rate matching patterns within a NR carrier using				
15 kHz SCS.				
The UE can include this feature only if the UE indicates support of				
rateMatchingLTE-CRS.				
multipleTCI	Band	Yes	N/A	N/A
Indicates whether UE supports more than one TCI state configurations per CORESET. UE is only required to track one active TCI state per CORESET. UE is				
required to support minimum between 64 and number of configured TCI states				
indicated by <i>tci-StatePDSCH</i> . This field shall be set to <i>supported</i> .				
nack-OnlyFeedbackForMulticastWithDCI-Enabler-r17	Band	No	N/A	N/A
Indicates whether the UE supports DCI-based enabling/disabling NACK-only based	Dania		. 4// 1	. 4// 1
HARQ-ACK feedback configured per G-RNTI by RRC signalling via DCI format 4_2.				
A UE supporting this feature shall also indicate support of <i>nack-</i>				
OnlyFeedbackForMulticast-r17 and dynamicMulticastDCI-Format4-2-r17.				
nack-OnlyFeedbackForSPS-MulticastWithDCI-Enabler-r17	Band	No	N/A	N/A
Indicates whether the UE supports DCI-based enabling/disabling NACK-only based				
HARQ-ACK feedback configured per G-CS-RNTI by RRC signalling via DCI format				
4_2.				
A LIC that indicates a compart of this factors at all indicate according to				
A UE that indicates support of this feature shall indicate support of nack-				
OnlyFeedbackForSPS-Multicast-r17 and sps-MulticastDCI-Format4-2-r17.	<u> </u>			

nonGroupSINR-reporting-r16 Indicates N_max L1-SINR values reported when UE supports non-group based L1-SINR reporting. UE indicates support of this feature shall indicate support of ssb-csirs-SINR-measurement-r16.	Band	No	N/A	N/A
nr-UE-TxTEG-ID-MaxSupport-r17 Indicates the maximum number of UE TxTEG for SRS resource for positioning, which is supported and reported by UE for UL TDOA. The UE can include this field only if the UE supports srs-AllPosResources-r16.	Band	No	N/A	N/A
 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; 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-PosBasedOnPRS-Neigh-r16. Otherwise, the UE does not include this field. 	Band	No	N/A	N/A

 olpc-SRS-PosRRC-Inactive-r17 Indicates whether the UE supports OLPC for SRS for positioning in RRC_INACTIVE. 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-PosResourcesRRC-Inactive-r17. Otherwise, the UE does not include this field; 	Band	No	N/A	N/A
 olpc-SRS-PosBasedOnSSB-Neigh-r16 indicates whether the UE supports OLPC for SRS for positioning based on SSB from the neighbouring cell in the same band. The UE can include this field only if the UE supports srs- PosResourcesRRC-Inactive-r17. Otherwise, the UE does not include this field; 				
 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 transmissions. The UE shall include this field if the UE supports any of olpc-SRS-PosBasedOnPRS-Serving-r16, olpc-SRS-PosBasedOnSSB-Neigh-r16 and olpc-SRS-PosBasedOnPRS-Neigh-r16. Otherwise, the UE does not include this field. 				
oneShotHARQ-feedbackPhy-Priority-r17 Indicates whether the UE supports transmission of type 3 HARQ-ACK codebook using the first or second PUCCH configuration based on PHY priority indication in the triggering DCI. A UE supporting this feature shall also indicate support of oneShotHARQ-feedback-r16 and twoHARQ-ACK-Codebook-type1-r16.	Band	No	N/A	N/A
oneShotHARQ-feedbackTriggeredByDCI-1-2-r17 Indicates whether the UE supports one-shot HARQ ACK feedback triggered by DCI format 1_2, comprised of the following functional components: - Supports feedback of type 3 HARQ-ACK codebook, triggered by a DCI 1_2	Band	No	N/A	N/A
scheduling a PDSCH; - Supports feedback of type 3 HARQ-ACK codebook, triggered by a DCI 1_2 without scheduling a PDSCH using a reserved FDRA value. A UE supporting this feature shall also indicate support of oneShotHARQ-feedback-r16 and dci-Format1-2And0-2-r16.				
oneSlotPeriodicTRS-r16 Indicates whether the UE supports one-slot periodic TRS configuration only when no two consecutive slots are indicated as downlink slots by tdd-UL-DL-ConfigurationCommon or tdd-UL-DL-ConfigDedicated. If the UE supports this feature, the UE needs to report csi-RS-ForTracking.	Band	No	TDD only	FR1 only
 outOfOrderOperationDL-r16 Indicates whether the UE supports out of order operation for DL. The UE that indicates support of this feature shall support multiDCI-MultiTRP-r16. 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 Indicates whether the UE supports out of order operation for UL. The UE that indicates support of this feature shall support multiDCI-MultiTRP-r16.	Band	No	N/A	N/A
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 multiDCl-MultiTRP-r16. Note: A UE may assume that its maximum receive timing difference between the DL transmissions from the TDPs is within a Custin Refin.	Band	No	N/A	N/A
transmissions from two TRPs is within a Cyclic Prefix	Dond	No	NI/A	NI/A
overlapPDSCHsInTimePartiallyFreq-r16 Indicates whether the UE supports PDSCHs with partially overlapping Resource Elements. The UE that indicates support of this feature shall support overlapPDSCHsFullyFreqTime-r16.	Band	No	N/A	N/A
overlapRateMatchingEUTRA-CRS-r16	Band	No	N/A	FR1
Indicates whether the UE supports two LTE-CRS overlapping rate matching patterns within a part of NR carrier using 15 kHz SCS overlapping with a LTE carrier. If the UE supports this feature, the UE needs to report multipleRateMatchingEUTRA-CRS-r16.				only
parallelMeasurementWithoutRestriction-r17 Indicates whether the UE supports measurements on cells belonging to different satellites as the serving cell in parallel with normal operation (i.e. data/control transmission and/or reception, and L1 measurements) of serving cell without scheduling restrictions. The feature is applicable only when the serving satellite is NGSO. If the serving cell belongs to GSO satellite, the scheduling restriction is not applied on the premise that a mixed type of satellites on the same frequency layer is not supported in this release. If not reported, for measurements in parallel with normal operation of serving cell scheduling restrictions shall apply.	Band	No	FDD only	FR1 only
parallelPRS-MeasRRC-Inactive-r17	Band	No	N/A	N/A
Indicates whether the UE supports performing RRM measurement and PRS measurement in parallel. UE shall set the capability value consistently for all FDD-FR1 bands, all TDD-FR1 bands, all TDD-FR2-1 bands and all TDD-FR2-2 bands respectively	Dana			1471
pdcch-SkippingWithoutSSSG-r17 Indicates whether the UE supports up to 2-bit indication of PDCCH skipping by scheduling DCI if SSSG is not configured as specified in TS 38.213 [11], clause 10.4.	Band	No	N/A	N/A
pdcch-SkippingWithSSSG-r17 Indicates whether the UE supports 2-bit indication of SSSG switching between 2 SSSGs, PDCCH skipping by scheduling DCI, and timer based SSSG switching as specified in TS 38.213 [11], clause 10.4. UE supports search space set group switching capability-1 according to Table 10.4-1 of TS 38.213 [11]. UE indicating support of this feature shall also indicate support of pdcch-	Band	No	N/A	N/A
SkippingWithoutSSSG-r17 and sssg-Switching-1bitInd-r17.				
pdsch-1024QAM-2MIMO-FR1-r17 Indicates whether the UE supports 1024QAM modulation scheme for PDSCH with maximum 2 MIMO layers for FR1 as defined in TS 38.211 [6], MCS and CQI feedback tables based on 1024QAM modulation order as defined in TS 38.214 [12]. UE indicating support of this feature shall also indicate support of pdsch-256QAM-FR1 and shall not indicate support of pdsch-1024QAM-FR1-r17.	Band	No	N/A	FR1 only
pdsch-1024QAM-FR1-r17 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]. UE indicating support of this feature shall also indicate support of pdsch-256QAM-	Band	No	N/A	FR1 only
FR1 and shall not indicate support of pasch-1024QAM-2MIMO-FR1-r17.				
pdsch-256QAM-FR2 Indicates whether the UE supports 256QAM modulation scheme for PDSCH for FR2 as defined in 7.3.1.2 of TS 38.211 [6].	Band	No	N/A	FR2 only
pdsch-MappingTypeB-Alt-r16 Indicates whether the UE supports PDSCH Type B scheduling of length 9 and 10 OFDM symbols, and DMRS shift for length-10 symbols. If the UE supports this feature, the UE needs to report pdsch-MappingTypeB.	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

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

and switchingTimeSRS-TX-OtherTX-r17 shall be reported together if supported by UE.				
NOTE 6: srsPosWithoutRestrictionOnBWP-r17 is not applicable to FDD or SUL bands.				
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
 priorityIndicatorInDCI-Multicast-r17 Indicates whether the UE supports DL priority indication for multicast in DCI, comprised of the following functional components: Support of priority indicator field configured in DCI formats 4_2 with CRC scrambled with G-RNTI for multicast; Supports two HARQ-ACK codebooks with different priorities to be simultaneously constructed different priorities for multicast and multicast at a UE. 	Band	No	N/A	N/A
For TN, the UE shall set the capability value consistently for all FDD-FR1 bands, all TDD-FR1 bands and all TDD-FR2 bands, associated with supported shared and non-shared spectrum respectively. For NTN, UE shall set the capability value consistently for all FDD-FR1 NTN bands. A UE supporting this feature shall also indicate support of ack-NACK-FeedbackForMulticast-r17 and dynamicMulticastDCI-Format4-2-r17.				
priorityIndicatorInDCI-SPS-Multicast-r17 Indicates whether the UE supports priority indicator field configured in DCI format 4_2 for multicast HARQ-ACK feedback of SPS multicast. For TN, the UE shall set the capability value consistently for all FDD-FR1 bands, all TDD-FR1 bands and all TDD-FR2 bands, associated with supported shared and non-shared spectrum respectively. For NTN, UE shall set the capability value consistently for all FDD-FR1 NTN bands. A UE supporting this feature shall also indicate support of ack-NACK-FeedbackForSPS-Multicast-r17 and sps-MulticastDCI-Format4-2-r17.	Band	No	N/A	N/A
prs-MeasurementWithoutMG-r17 Indicates whether the UE supports using the threshold to compare the Rx time difference between the serving cell and a neighbor cell/TRP for PRS measurements, as defined in clause 9.9.1.2 of TS 38.133 [5], to determine whether the PRS from the non-serving cell satisfy the condition of PRS measurement outside MG. The UE can include this field only if the UE supports one of prs-ProcessingWindowType1A-r17, prs-ProcessingWindowType1B-r17 and prs-ProcessingWindowType2-r17.	Band	No	N/A	N/A

prs-ProcessingCapabilityOutsideMGinPPW-r17	Band	No	N/A	N/A
Indicates the DL-PRS Processing Capability outside MG of each of the supported				
PRS Processing Window (PPW) Type in the case the UE supports multiple PPW				
Types in a band and comprises the following subfields:				
 prsProcessingType-r17: Indicates the PPW Type for which the prs- 				
ProcessingCapabilityOutsideMGinPPW-r17 are provided.				
 ppw-dl-PRS-BufferType-r17: Indicates DL-PRS buffering capability. Value 				
'type1' indicates sub-slot/symbol level buffering and value 'type2' indicates				
slot level buffering.				
 ppw-durationOfPRS-Processing1-r17: Indicates the duration of DL-PRS 				
symbols N in units of ms a UE can process every T ms assuming maximum				
DL-PRS bandwidth provided in ppw-maxNumOfDL-Bandwidth-r17 and				
comprises the following subfields				
 ppw-durationOfPRS-ProcessingSymbolsN-r17: This field specifies the 				
values for N with values msDot125 indicates 0.125ms, msDot25				
indicates 0.25ms, and so on				
 ppw-durationOfPRS-ProcessingSymbolsT-r17: This field specifies the 				
values for T with values ms1 indicates 1ms, ms2 indicates 2ms, and so				
on.				
 ppw-durationOfPRS-Processing2-r17: Indicates the duration of DL-PRS 				
symbols N2 in units of ms a UE can process every T2 ms assuming				
maximum DL-PRS bandwidth provided in ppw-maxNumOfDL-Bandwidth-r17				
and comprises the following subfields:				
- ppw-durationOfPRS-ProcessingSymbolsN2-r17: This field specifies the				
values for N2 with values msDot125 indicates 0.125ms, msDot25				
indicates 0.25ms, and so on.				
 ppw-durationOfPRS-ProcessingSymbolsT2-r17: This field specifies the 				
values for T2 with values ms4 indicates 4ms, ms5 indicates 5ms, and so				
on.				
- ppw-maxNumOfDL-PRS-ResProcessedPerSlot-r17: Indicates the maximum				
number of DL PRS bandwidth in MHz, which is supported and reported by				
UE for PRS measurement outside MG within the PPW.				
- ppw-maxNumOfDL-Bandwidth-r17: Indicates the maximum number of DL				
PRS bandwidth in MHz for FR1 and FR2, which is supported and reported				
by UE for PRS measurement outside MG within the PPW.				
The UE can include this field only if the UE supports one of <i>prs</i> -				
ProcessingWindowType1A-r17, prs-ProcessingWindowType1B-r17 and prs-				
ProcessingWindowType2-r17. Otherwise, the UE does not include this field.				
NOTE 1: A UE that supports one of <i>prs-ProcessingWindowType1A-r17</i> , <i>prs-</i>				
ProcessingWindowType1B-r17 or prs-ProcessingWindowType2-r17 shall				
always include the prs-ProcessingCapabilityOutsideMGinPPW-r17.				
NOTE 2: The (N, T) in ppw-durationOfPRS-Processing1-r17 is interpreted as in				
(N,T) in durationOfPRS-Processing-r16 in TS 37.355 [22], and the UE is				
expected to receive the DL-PRS within the PPW but the processing of				
the received DL-PRS may be outside a PPW				
NOTE 3: The (N2, T2) in <i>ppw-durationOfPRS-Processing2-r17</i> is interpreted such				
that the UE is capable of measuring up to N2 ms DL-PRS within a PPW				
and is capable of completing the DL-PRS processing within the PPW,				
e.g., if the time duration from the last symbol of the measured DL-PRS				
resource(s) inside the PPW to the end of PPW is not smaller than T2 ms.				
NOTE 4: A UE which supports prs-ProcessingCapabilityOutsideMGinPPW-r17				
shall support either ppw-durationOfPRS-Processing1-r17 or ppw-				
durationOfPRS-Processing2-r17, but not both for each supported PPW				
type in a band.				
prs-ProcessingRRC-Inactive-r17	Band	No	N/A	N/A
Indicates whether the UE supports PRS processing in RRC_INACTIVE.				,
11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1				

prs-ProcessingWindowType1A-r17 Indicates whether the UE supports PRS processing Type 1A, subject to the UE	Band	No	N/A	N/A
determining that DL PRS to be higher priority for PRS measurement outside MG and in a PRS processing window and the priority handling options of PRS as				
follows: Option 1: Support of "st1" and "st3" defined in clause 5.1.6.5 of TS 38.214 [12].				
- Option 2: Support of "st1", "st2", and "st3" defined in clause 5.1.6.5 of TS 38.214 [12].				
NOTE 1: Void Option 3: Support of "st1" only defined in clause 5.1.6.5 of TS 38.214 [12].				
The UE can include this field only if the UE supports <i>prs-ProcessingCapabilityBandList-r16</i> defined in TS 37.355 [22]. A UE supporting this feature shall also indicate support of <i>prs-ProcessingCapabilityOutsideMGinPPW-r17</i> .				
NOTE 2: Type 1A refers to the determination of prioritization between DL PRS and other DL signals/channels in all OFDM symbols within the PRS processing window. The DL signals/channels from all DL CCs (per UE) are affected across LTE and NR.				
NOTE 3: Within a PRS processing window, UE measurement is inside the active DL BWP with PRS having the same numerology as the active DL BWP.				
NOTE 4: Support of configuration of PRS processing window in RRC and support of using DL MAC CE to activate/deactivate the PRS processing window				
for PRS measurements is part of the feature. NOTE 5: When the UE determines higher priority for other DL signals/channels over the DL-PRS measurement/processing, the UE is not expected to				
measure/process DL-PRS. prs-ProcessingWindowType1B-r17	Band	No	N/A	N/A
Indicates whether the UE supports PRS processing Type 1B, subject to the UE	Banu	INU	IN/A	IN/A
determining that DL PRS to be higher priority for PRS measurement outside MG				
and in a PRS processing window and the priority handling options of PRS as follows:				
- Option 1: Support of "st1" and "st3" defined in clause 5.1.6.5 of TS 38.214 [12].				
- Option 2: Support of "st1", "st2", and "st3" defined in clause 5.1.6.5 of TS 38.214 [12].				
NOTE 1: Void Option 3: Support of "st1" only defined in clause 5.1.6.5 of TS 38.214 [12].				
The UE can include this field only if the UE supports prs- ProcessingCapabilityBandList-r16 defined in TS 37.355 [22].				
A UE supporting this feature shall also indicate support of <i>prs-ProcessingCapabilityOutsideMGinPPW-r17</i> .				
NOTE 2: Type 1B refers to the determination of prioritization between DL PRS and other DL signals/channels in all OFDM symbols within the PRS processing window. The DL signals/channels from a certain band are				
affected. NOTE 3: Within a PRS processing window, UE measurement is inside the active DL BWP with PRS having the same numerology as the active DL BWP.				
NOTE 4: Support of configuration of PRS processing window in RRC and support of using DL MAC CE to activate/deactivate the PRS processing window				
for PRS measurements is part of the feature. NOTE 5: When the UE determines higher priority for other DL signals/channels over the DL-PRS measurement/processing, the UE is not expected to				
measure/process DL-PRS.				

prs-ProcessingWindowType2-r17 Indicates whether the UE supports PRS processing Type 2, subject to the UE determining that DL PRS to be higher priority for PRS measurement outside MG and in a PRS processing window and the priority handling options of PRS as	Band	No	N/A	N/A
follows: - Option 1: Support of "st1" and "st3" defined in clause 5.1.6.5 of TS 38.214				
[12] Option 2: Support of "st1", "st2", and "st3" defined in clause 5.1.6.5 of TS 38.214 [12].				
NOTE 1: Void Option 3: Support of "st1" only defined in clause 5.1.6.5 of TS 38.214 [12].				
The UE can include this field only if the UE supports <i>prs-ProcessingCapabilityBandList-r16</i> defined in TS 37.355 [22]. A UE supporting this feature shall also indicate support of <i>prs-ProcessingCapabilityOutsideMGinPPW-r17</i> .				
NOTE 2: Type 2 refers to the determination of prioritization between DL PRS and other DL signals/channels only in DL PRS symbols within the PRS processing window.				
NOTE 3: Within a PRS processing window, UE measurement is inside the active DL BWP with PRS having the same numerology as the active DL BWP. NOTE 4: Support of configuration of PRS processing window in RRC and support				
of using DL MAC CE to activate/deactivate the PRS processing window for PRS measurements is part of the feature. NOTE 5: When the UE determines higher priority for other DL signals/channels				
over the DL-PRS measurement/processing, the UE is not expected to measure/process DL-PRS.				
<pre>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:</pre>	Band	CY	N/A	N/A
- three values of timeDensity.				
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 frequencyDensity;	Band	No	N/A	N/A
- three values of timeDensity,				
- five values of sampleDensity.				
pucch-Repetition-F0-2-r17 Indicates whether the UE supports transmission of a PUCCH format 0 and 2 over multiple slots with the repetition factor 2, 4 or 8. A UE supporting this feature shall also indicate support of pucch-Repetition-F1-3-4.	Band	No	N/A	N/A
pucch-SpatialRelInfoMAC-CE Indicates whether the UE supports indication of PUCCH-spatialrelationinfo by a MAC CE per PUCCH resource. It is mandatory for FR2 and optional for FR1.	Band	CY	N/A	N/A
pusch-256QAM 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
pusch-RepetitionMsg3-r17 Indicates whether the UE supports repetition of PUSCH transmission scheduled by RAR UL grant and DCI format 0_0 with CRC scrambled by TC-RNTI.	Band	No	N/A	N/A
pusch-RepetitionMultiSlots-v1650 Indicates whether the UE supports transmitting PUSCH scheduled by DCI format 0_1 when configured with pusch-AggregationFactor > 1, as defined in clause 6.1.2.1 of TS 38.214 [12]. This applies only to non-shared spectrum channel access. For shared spectrum channel access, 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.	Band	Yes	N/A	N/A
The UE only includes pusch-RepetitionMultiSlots-v1650 if pusch-RepetitionMultiSlots is absent.				

pusch-RepetitionTypeA-v16c0	Band	No	N/A	N/A
Indicates whether the UE supports the dynamic indication of the number of				
repetitions for PUSCH transmission as specified in TS 38.214 [12], clause 6.1.2.1.				
Support of this field is reported for shared spectrum channel access and non-shared				
spectrum channel access, respectively. UE indicating support of this feature shall support at least one of <i>type2-PUSCH-RepetitionMultiSlots</i> and <i>pusch-</i>				
RepetitionMultiSlots for shared spectrum and non-shared spectrum respectively.				
Trepetitionivialisticis for shared spectrum and non-shared spectrum respectively.				
UE shall set the capability value consistently for all FDD-FR1 bands, all TDD-FR1				
bands and all TDD-FR2 bands respectively.				
The UE only includes pusch-RepetitionTypeA-v16c0 if pusch-RepetitionTypeA-r16				
is absent.				
pusch-TransCoherence	Band	No	N/A	N/A
Defines support of the uplink codebook subset by the UE for UL precoding for				
PUSCH transmission as described in clause 6.1.1.1 of TS 38.214 [12]. UE indicated 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.				
puschTypeA-RepetitionsAvailSlot-r17	Band	No	N/A	N/A
Indicates whether UE supports dynamic and configured grant PUSCH repetitions				
based on available slots. Transmission occasions for the repetitions for dynamic				
and configured grant PUSCH are determined on the basis of available slots.				
A UE that indicates support of this feature shall support <i>type1-PUSCH-</i>				
RepetitionMultiSlots, type2-PUSCH-RepetitionMultiSlots or pusch-				
RepetitionMultiSlots.				
rateMatchingLTE-CRS	Band	Yes	N/A	N/A
Indicates whether the UE supports receiving PDSCH with resource mapping that				
excludes the REs determined by the higher layer configuration LTE-carrier				
configuring common RS, as specified in TS 38.214 [12].				21/4
releaseSPS-MulticastWithCS-RNTI-r17	Band	No	N/A	N/A
Indicates whether UE supports unicast PDCCH scrambled with CS-RNTI to release SPS group-common PDSCH. For TN, the UE shall set the capability value				
consistently for all FDD-FR1 bands, all TDD-FR1 bands and all TDD-FR2 bands,				
associated with supported shared and non-shared spectrum respectively. For NTN,				
UE shall set the capability value consistently for all FDD-FR1 NTN bands.				
A UE that indicates the support of this feature shall indicate support of sps-				
Multicast-r17 and sps-r16. re-LevelRateMatchingForMulticast-r17	Dond	No	NI/A	NI/A
Indicates whether the UE supports group-common PDSCH RE-level rate matching	Band	No	N/A	N/A
for multicast, comprised of the following functional components:				
- Supports SP ZP-CSI-RS for group-common PDSCH RE-mapping patterns;				
- Supports P ZP-CSI-RS for group-common PDSCH RE-mapping patterns;				
- Supports <i>p-ZP-CSI-RS-ResourceSet</i> configured in <i>PDSCH-Config-Multicast</i>				
same as or different from the <i>p-ZP-CSI-RS-ResourceSet</i> configured in				
PDSCH-Config;				
- Supports AP ZP-CSI-RS for group-common PDSCH RE-mapping patterns.				
For TN, the UE shall set the capability value consistently for all FDD-FR1 bands, all				
TDD-FR1 bands and all TDD-FR2 bands, associated with supported shared and				
non-shared spectrum respectively. For NTN, UE shall set the capability value				
consistently for all FDD-FR1 NTN bands.				
A UE supporting this feature shall also indicate support of <i>dynamicMulticastPCell</i> -				
r17. A UE supporting this feature in FR1 bands shall also indicate support of pdsch-				
RE-MappingFR1-PerSymbol or pdsch-RE-MappingFR1-PerSlot. A UE supporting				
this feature in FR2 bands shall also indicate support of pdsch-RE-MappingFR2-				
PerSymbol or pdsch-RE-MappingFR2-PerSlot.				
NOTE: The total number of comi persistent 7D CCL DC Decourses Cot that a LIC				
NOTE: The total number of semi-persistent ZP-CSI-RS-ResourceSet that a UE can be configured with is the same as for unicast in Rel-16.				
Can be configured with to the same as for uniteast in Net-10.	l	<u> </u>		

rlm-Relaxation-r17 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-	Band	No	N/A	N/A
FR1 bands, all TDD-FR1 bands, all TDD-FR2-1 bands and all TDD-FR2-2 bands respectively.				
UE indicating support of this feature shall also indicate support of ssb-RLM and/or csi-RS-RLM.				
searchSpaceSetGrp-switchCap2-r17 Indicates whether UE supports search space set group switching capability 2 for FR1 according to Table 10.4-1 of TS 38.213 [11] for SSSG switching.	Band	No	N/A	FR1 only
UE indicating support of this feature shall also indicate support of sssg-Switching-1bitInd-r17.				
NOTE: For UE supporting this feature and also sssg-Switching-1BitInd-r17, sssg-Switching-2BitInd-r17, and/or pdcch-SkippingWithSSSG-r17, search space set group switching Capability-2 is applied to sssg-Switching-1BitInd-r17, sssg-Switching-2BitInd-r17, and/or pdcch-SkippingWithSSSG-r17.				
semi-PersistentL1-SINR-Report-PUCCH-r16	Band	No	N/A	N/A
Indicates whether the UE supports semi-persistent L1-SINR report on PUCCH. The 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 ssb-csirs-SINR-measurement-r16.				
semi-PersistentL1-SINR-Report-PUSCH-r16	Band	No	N/A	N/A
Indicates whether the UE supports semi-persistent L1-SINR report on PUSCH. The UE indicating support of this feature shall also indicate support of ssb-csirs-SINR-measurement-r16.				
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
sfn-SimulTwoTCI-AcrossMultiCC-r17 Indicates whether the UE supports simultaneous activation of two TCI states for	Band	No	N/A	N/A
CORESETs with the same CORESET ID in all BWPs across a set of configured component carriers by single MAC-CE. The UE indicating support of this feature shall also indicate sfn-schemeA-r17 or sfn-schemeB-r17 or sfn-SchemeA-PDCCH-only-r17.				
The UE shall set the capability value consistently for all FDD-FR1 bands, all TDD-FR1 bands, all TDD-FR2-1 bands and all TDD-FR2-2 bands respectively.				
sfn-DefaultDL-BeamSetup-r17	Band	No	N/A	N/A
Indicates whether the UE supports the following features: - For FR2 only, PDSCH reception using default beam for enhanced SFN scheme when PDSCH is scheduled with offset less than threshold.				
 For FR1 and FR2, PDSCH reception using default beam for enhanced SFN scheme when TCI field is not present in DCI format 1_0/1_1/1_2 when PDSCH is scheduled with offset equal or larger than the threshold, if applicable. 				
For FR2 only, aperiodic CSI-RS reception using default beam for enhanced SFN scheme when scheduling offset is less than threshold. The UE indicating support of this feature shall also indicate sfn-schemeA-r17 or sfn-				
schemeB-r17.				

 sfn-DefaultUL-BeamSetup-r17 Indicates whether the UE supports the following features: Support of single-TRP PUCCH transmission using default beam when enhanced SFN PDCCH transmission scheme is configured. Support of single-TRP PUSCH transmission using default beam when enhanced SFN PDCCH transmission scheme is configured. Support of single-TRP SRS resource transmission using default beam when enhanced SFN PDCCH transmission scheme is configured. The UE indicating support of this feature shall also indicate sfn-schemeA-r17 or sfn-schemeB-r17 or sfn-SchemeA-PDCCH-only-r17. 	Band	No	N/A	FR2 only
sfn-ImplicitRS-twoTCI-r17 Indicates whether the UE supports RS(s) with two TCI states configured implicitly for beam failure detection enhancement for HST.	Band	No	N/A	N/A
sfn-QCL-TypeD-Collision-twoTCl-r17 Indicates whether the UE supports identification of two QCL-TypeD properties for multiple overlapping CORESETs when a CORESET is activated with two TCI states which overlaps with another CORESET.	Band	No	N/A	N/A
simul-SpatialRelationUpdatePUCCHResGroup-r16 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 supportedSRS-Resources, maxNumberConfiguredSpatialRelations and pucch-SpatialRelInfoMAC-CE.	Band	No	N/A	N/A
 simulTX-SRS-AntSwitchingIntraBandUL-CA-r16 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="" ca.<="" cb="" ccs="" different="" for="" in="" intra-band="" li="" ncb="" on="" overlapped="" srs="" switching="" symbol(s)="" ul=""> 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. </y)> 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. 	Band	No	N/A	N/A
same UE antenna ports. simulSRS-MIMO-TransWithinBand-r16 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 srs-PosResources-r16. Otherwise, the UE does not include this field.	Band	No	N/A	N/A
simulSRS-TransWithinBand-r16 Indicates the number of SRS resources for positioning on a symbol within a band across multiple CCs. The UE can include this field only if the UE supports srs-PosResources-r16. Otherwise, the UE does not include this field.	Band	No	N/A	N/A
simultaneousReceptionDiffTypeD-r16 Indicates whether the UE supports simultaneous reception with different QCL Type D reference signal as specified in TS38.213 [11].	Band	No	N/A	FR2 only
sn-InitiatedCondPSCellChangeNRDC-r17 Indicates whether the UE supports SN initiated inter-SN conditional PSCell change in NR-DC, which is configured by NR conditionalReconfiguration using SN configured measurement as triggering condition. The UE supporting this feature shall also support 2 trigger events for same execution condition in SN initiated inter-SN conditional PSCell change in NR-DC. UE shall set the capability value consistently for all FDD-FR1 bands, all TDD-FR1 bands and all TDD-FR2 bands respectively.	Band	No	N/A	N/A

spatialRelations, spatialRelations-v1640	Band	FD	N/A	FD
Indicates whether the UE supports spatial relations. The capability signalling comprises the following parameters. - maxNumberConfiguredSpatialRelations indicates the maximum number of configured spatial relations per CC for PUCCH and SRS. It is not applicable to FR1 and applicable to FR2 only. The UE is mandated to report 16 or higher values. maxNumberConfiguredSpatialRelations-v1640 indicates the maximum number of configured spatial relations per CC for PUCCH and SRS with UE supporting the configuration of maximum 64 PUCCH spatial relations per BWP per CC; - maxNumberActiveSpatialRelations indicates the maximum number of active spatial relations with regarding to PUCCH and SRS for PUSCH, per BWP				
per CC. It is not applicable to FR1 and applicable and mandatory to report one or higher value for FR2 only; - additionalActiveSpatialRelationPUCCH indicates support of one additional				
active spatial relation for PUCCH. It is mandatory with capability signalling if maxNumberActiveSpatialRelations is set to n1;				
 maxNumberDL-RS-QCL-TypeD indicates the maximum number of downlink RS resources used for QCL type D in the active TCI states and active spatial relation information, which is optional. 				
The UE is mandated to report spatialRelations for FR2. if maxNumberConfiguredSpatialRelations-v1640 is reported, UE shall report value n96 in maxNumberConfiguredSpatialRelations.				
 spatialRelationsSRS-Pos-r16 Indicates whether the UE supports spatial relations for SRS for positioning. The capability signalling comprises the following parameters. spatialRelation-SRS-PosBasedOnSSB-Serving-r16 indicates whether the UE supports spatial relation for SRS for positioning based on SSB from the serving cell in the same band. The UE can include this field only if the UE supports srs-PosResources-r16. Otherwise, the UE does not include this field; spatialRelation-SRS-PosBasedOnCSI-RS-Serving-r16 indicates whether the 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; 	Band	No	N/A	FR2 only
 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.				

Indicates whether the UE supports spatial relations for SRS for positioning in RRC_INACTIVE. The capability signalling comprises the following parameters: - spatialRelation-SRS-PosBasedOnSSB-Serving-r16 indicates whether the UE supports spatial relation for SRS for positioning based on SSB from the serving cell in the same band. The UE indicating support of this feature shall also indicate support of srs-PosResourcesRRC-Inactive-r17; - spatialRelation-SRS-PosBasedOnCSI-RS-Serving-r16 indicates whether the UE supports spatial relation for SRS for positioning based on CSI-RS from the serving cell in the same band. The UE indicating support of this feature shall also indicate support of spatialRelation-SRS-PosBasedOnSSB-Serving-r16; - spatialRelation-SRS-PosBasedOnPRS-Serving-r16 indicates whether the UE supports spatial relation for SRS for positioning based on PRS from the serving cell in the same band. The UE indicating support of this feature shall also indicate support any of DL PRS Resources for DL AoD, DL PRS Resources for DL-TDOA or DL PRS Resources for Multi-RTT defined in TS37.355 [22], or srs-PosResourcesRRC-Inactive-r17; - spatialRelation-SRS-PosBasedOnSRS-r16 indicates whether the UE supports spatial relation for SRS for positioning based on SRS in the same band. The UE indicating support of this feature shall also indicate support of srs-PosResourcesRRC-Inactive-r17;	Band	No	N/A	FR2 only
 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 indicating support of this feature shall also indicate support of spatialRelation-SRS-PosBasedOnSSB-Serving-r16; 				
 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 indicating support of this feature shall also indicate support of spatialRelation-SRS-PosBasedOnPRS-Serving-r16. 				
NOTE: A PRS from a PRS-only TP is treated as PRS from a non-serving cell.				
sp-BeamReportPUCCH Indicates support of semi-persistent 'CRI/RSRP' or 'SSBRI/RSRP' reporting using PUCCH formats 2, 3 and 4 in one slot.	Band	No	N/A	N/A
sp-BeamReportPUSCH Indicates support of semi-persistent 'CRI/RSRP' or 'SSBRI/RSRP' reporting on PUSCH.	Band	No	N/A	N/A
sps-MulticastDCI-Format4-2-r17 Indicates whether the UE supports transmission and retransmission scheduled by DCI format 4_2 with CRC scrambled with G-CS-RNTI for multicast SPS scheduling. A UE that indicates support of this feature shall indicate support of sps-Multicast-r17.	Band	No	N/A	N/A
Indicates whether the UE supports up to 8 SPS group-common PDSCH configurations per CFR for multicast on PCell. The value indicates the maximum number of activated SPS group-common PDSCH configurations per CFR for multicast. The total number of SPS configurations for both multicast and unicast is no larger than 8 in a BWP of a serving cell. The total number of SPS configurations for both multicast and unicast in a cell group is no larger than 32. For TN, the UE shall set the capability value consistently for all FDD-FR1 bands, all TDD-FR1 bands and all TDD-FR2 bands, associated with supported shared and non-shared spectrum respectively. For NTN, UE shall set the capability value consistently for all FDD-FR1 NTN bands. A UE that indicates support of this feature shall indicate support of sps-Multicast-r17.	Band	No	N/A	N/A

10			N1/A	N1/A
 sps-r16 Indicates whether the UE support of up to 8 configured SPS configurations in a BWP of a serving cell and up to 32 configured SPS configurations in a cell group. This field includes the following parameters: maxNumberConfigsPerBWP-r16 indicates the maximum number of active SPS configurations in a BWP of a serving cell. 	Band	No	N/A	N/A
 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 support 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	54.14			
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 Indicates whether the UE supports comb-8 for SRS other than for positioning.	Band	No	N/A	N/A
srs-increasedRepetition-r17 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-	Band	No	N/A	N/A
Symbol-r16.				
srs-partialFreqSounding-r17 Indicates the support of partial frequency sounding for SRS for non-frequency hopping case.	Band	No	N/A	N/A
The UE indicating support of this feature shall also indicate the support of srs-partialFrequencySounding-r17.				
srs-partialFrequencySounding-r17 Indicates whether the UE supports partial frequency sounding for SRS with frequency hopping.	Band	No	N/A	N/A

srs-PosResourcesRRC-Inactive-r17 Indicates support of positioning SRS transmission in RRC_INACTIVE for initial UL BWP. The capability signalling comprises the following parameters: - maxNumberSRS-PosResourceSetPerBWP-r17 Indicates the max number of SRS Resource Sets for positioning supported by UE;	Band	No	N/A	N/A
 maxNumberSRS-PosResourcesPerBWP-r17 indicates the max number of P/SP SRS Resources for positioning; 				
 maxNumberSRS-ResourcesPerBWP-PerSlot-r17 indicates the max number of P/SP SRS Resources for positioning per slot; 				
 maxNumberPeriodicSRS-PosResourcesPerBWP-r17 indicates the max number of periodic SRS Resources for positioning; 				
 maxNumberPeriodicSRS-PosResourcesPerBWP-PerSlot-r17 indicates the max number of periodic SRS Resources for positioning per slot. 				
NOTE: OLPC for SRS for positioning based on SSB from the last serving cell (the cell that releases UE from connection) is part of this feature. No dedicated capability signalling is intended for this component				
srs-SemiPersistent-PosResourcesRRC-Inactive-r17 Indicates support of positioning SRS transmission in RRC_INACTIVE for initial UL BWP with semi-persistent SRS. UE indicating support of this feature shall indicate support of srs-PosResourcesRRC-Inactive-r17.	Band	No	N/A	N/A
The capability signalling comprises the following parameters: - maxNumOfSemiPersistentSRSposResources-r17 indicates the max number of semi-persistent SRS Resources for positioning;				
 maxNumOfSemiPersistentSRSposResourcesPerSlot-r17 indicates the max number of semi-persistent SRS Resources for positioning per slot. 				
srs-PortReport-r17 Indicates the maximum number of SRS ports for each UE reported quantity in reportQuantity-r17.	Band	No	N/A	N/A
srs-PortReportSP-AP-r17 Indicates that the UE supports the maximum number of SRS ports with semi-persistent/aperiodic capability value reporting. The UE supporting this feature shall also indicate support of srs-PortReport-r17 and one of aperiodicBeamReport, sp-BeamReportPUCCH, sp-BeamReportPUSCH, ssb-csirs-SINR-measurement-r16, semi-PersistentL1-SINR-Report-PUCCH-r16 or semi-PersistentL1-SINR-Report-PUSCH-r16.	Band	No	N/A	N/A
srs-startRB-locationHoppingPartial-r17 Indicates whether the UE supports start RB location hopping in partial frequency SRS transmission across different SRS frequency hopping periods for periodic/semi-persistent/aperiodic SRS.	Band	No	N/A	N/A
The UE supporting this feature shall also indicate the support of srs-partialFrequencySounding-r17.				
srs-TriggeringOffset-r17 Indicates the maximum number of configured available slots offsets for determining aperiodic SRS location based on available slot.	Band	No	N/A	N/A
srs-TriggeringDCI-r17 Indicates whether the UE supports triggering SRS in DCI 0_1/0_2 without data and without CSI.	Band	No	N/A	N/A

and anima OIND management at C	David	NI-	NI/A	NI/A
ssb-csirs-SINR-measurement-r16	Band	No	N/A	N/A
Indicates the limitations of the UE support of SSB/CSI-RS for L1-SINR				
measurement.				
This capability signalling includes list of the following parameters:				
Per slot limitations:				
- maxNumberSSB-CSIRS-OneTx-CMR-r16 indicates the maximum number of				
SSB/CSI-RS (1TX) across all CCs within a band for Channel Measurement				
Report				
- maxNumberCSI-IM-NZP-IMR-res-r16 indicates the maximum number of				
CSI-IM/NZP-IMR resources across all CCs within a band				
- maxNumberCSIRS-2Tx-res-r16 indicates the maximum number of CSI-RS				
(2TX) resources across all CCs within a band for Channel Measurement				
Report				
Memory limitations:				
- maxNumberSSB-CSIRS-res-r16 indicates the max number of SSB/CSI-RS				
resources across all CCs within a band as Channel Measurement Report				
- maxNumberCSI-IM-NZP-IMR-res-mem-r16 indicates the maximum number				
of CSI-IM/NZP-IMR resources across all CCs within a band				
Other limitations:				
- supportedCSI-RS-Density-CMR-r16 indicates supported density of CSI-RS				
for Channel Measurement Report.				
- maxNumberAperiodicCSI-RS-Res-r16 indicates the maximum number of				
aperiodic CSI-RS resources across all CCs within a band configured to				
measure L1-SINR (including CMR and IMR)				
 supportedSINR-meas indicates the supported SINR measurements. 				
- supportedSINR-meas-r16 contains values {ssbWithCSI-IM, ssbWithNZP-				
IMR, csirsWithNZP-IMR, csi-RSWithoutIMR} representing {SSB as CMR				
with dedicated CSI-IM, SSB as CMR with dedicated NZP IMR, CSI-RS				
as CMR with dedicated NZP IMR configured, CSI-RS as CMR without				
dedicated IMR configured}.				
- supportedSINR-meas-v1670 indicates a 4-bit bitmap {ssbWithCSI-IM,				
ssbWithNZP-IMR, csirsWithNZP-IMR, csi-RSWithoutIMR}, where the				
leftmost bit corresponds to ssbWithCSI-IM, the next bit corresponds to				
ssbWithNZP-IMR and so on. UE indicating supportedSINR-meas-v1670				
shall always indicate supportedSINR-meas-r16.				
UE supporting this feature shall also indicate support of CSI-RS as CMR with				
dedicated CSI-IM. UE indicating support of this feature shall also indicate support of				
periodicBeamReport and aperiodicBeamReport or sp-BeamReportPUCCH and sp-				
BeamReportPUSCH. UE indicating support of ssb-csirs-SINR-measurement-r16				
shall support periodic and aperiodic L1-SINR report.				
NOTE 4. The contract of the latest and the latest at the l				
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				
MR.				
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 <i>reportQuantity-r16</i> =				
ssb-Index-SINR-r16 or cri-SINR-r16, it is counted N times.				
NOTE 6: If more than one type of SINR measurement is indicated in				
supportedSINR-meas-v1670, it is left to UE implementation which SINR				
measurement to indicate in supportedSINR-meas-r16.				
measurement to mulcate in supported on Vi-Ineas-110.	1	l		

sssg-Switching-1Bitlnd-r17	Band	No	N/A	N/A
Indicates whether the UE supports 1-bit indication of SSSG switching between 2				
SSSGs by scheduling DCI, and timer based SSSG switching, if pdcch-				
SkippingDurationList is not configured as specified in TS 38.213 [11], clause 10.4.				
UE supports search space set group switching capability-1 according to Table 10.4-				
1 of TS 38.213 [11].				
sssg-Switching-2BitInd-r17	Band	No	N/A	N/A
Indicates whether the UE supports 2-bit indication of SSSG switching among 3				
SSSGs by scheduling DCI and timer based SSSG switching, if pdcch-				
SkippingDurationList is not configured as specified in TS 38.213 [11], clause 10.4.				
UE supports search space set group switching capability-1 according to Table 10.4-				
1 of TS 38.213 [11].				
UE indicating support of this feature shall also indicate support of sssg-Switching-				
1bitInd-r17.				
support64CandidateBeamRS-BFR-r16	Band	No	N/A	N/A
Indicates UE support of configuring maximum 64 candidate beam RSs per BWP per				
CC. UE indicating support of this feature shall also indicate support of				
maxNumberCSI-RS-BFD, maxNumberSSB-BFD and maxNumberCSI-RS-SSB-				
CBD.				
supportCodeWordSoftCombining-r16	Band	No	N/A	N/A
Indicates whether UE supports codeword soft combining for FDMSchemeB. UE				
indicates support of this feature depends on whether the supportFDM-SchemeB-r16				
is also supported.				
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 repetitionNumber-				
r16 in PDSCH-TimeDomainResourceAllocation-r16 and the maximum value				
of repetitionNumber-r16				
- 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 new DMRS port entry {0,2,3}. UE supports this				
feature should indicate support singleDCI-SDM-scheme-r16 for the band.				
supportRepNumPDSCH-TDRA-DCI-1-2-r17	Band	No	N/A	N/A
Indicates support of repetitionNumber-v1730 in PDSCH-	Jana	.40	14//3	1 4//
TimeDomainResourceAllocation for DCI format 1_2 and the maximum value of				
repetitionNumber-v1730. The UE indicating support of this field shall also indicate				
support of dci-Format1-2And0-2-r16.				
supportTDM-SchemeA-r16	Rand	No	NI/A	NI//
Indicates whether UE supports single DCI based TDMSchemeA. The capability	Band	INO	N/A	N/A
signalling includes the maximum TBS size.	D =1	NI-	N1/A	N 1 / /
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.	-		N • • • •	
ta-BasedPDC-NTN-SharedSpectrumChAccess-r17	Band	No	N/A	N/A
Indicates whether the UE supports propagation delay compensation based on Rel-				
15 TA procedure for NTN and shared spectrum channel access.				
tb-ProcessingMultiSlotPUSCH-r17	Band	No	N/A	N/A
Indicates whether UE supports TB processing over multi-slot PUSCH for DG and				
Type 2 CG without repetition in RRC connected mode.				
tb-ProcessingRepMultiSlotPUSCH-r17	Band	No	N/A	N/A
Indicates whether UE supports repetition of TB processing over multi-slot PUSCH in				
RRC connected mode.				
LIE annual and the state of the factors as half and the state of the s				
UE supporting this feature shall also indicates support of tb-				
ProcessingMultiSlotPUSCH-r17.				

	- ·		11/1	N1/A
tci-StatePDSCH 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 <i>tci-StatePDSCH</i> .				
timeBasedCondHandover-r17	Band	No	N/A	N/A
Indicates whether the UE supports time based conditional handover, i.e.,	_ = 5		,	,
CondEvent T1 as specified in TS 38.331 [9]. A UE supporting this feature shall also				
indicate the support of condHandover-r16 for NTN bands and the support of				
nonTerrestrialNetwork-r17. UE shall set the capability value consistently for all FDD-				
FR1 NTN bands.				
triggeredHARQ-CodebookRetx-r17	Band	No	N/A	N/A
Indicates whether the UE supports triggered HARQ-ACK codebook re-transmission				
from an earlier PUCCH slot based on the triggering information in DCI format 1_1				
and DCI format 1_2 (for a UE supporting DCI format 1_2 as indicated in dci-				
Format1-2And0-2-r16) and support the related PHY priority handling in terms of				
HARQ-ACK codebook selection and the applicable PUCCH configuration (for a UE				
supporting two HARQ-ACK codebooks / PUCCH config as indicated in twoHARQ-				
ACK-Codebook-type1-r16). The capability signalling comprises the following				
parameters:				
- minHARQ-Retx-Offset-r17 indicates minimum value for the HARQ re-tx				
offset. Value <i>n</i> -7 corresponds to -7, value <i>n</i> -5 corresponds to -5, and so on.				
 maxHARQ-Retx-Offset-r17 indicates maximum value for the HARQ re-tx offset. 				
NOTE: The minimum requirement for <i>minHARQ-Retx-Offset-r17</i> and <i>maxHARQ-</i>				
Retx-Offset-r17 is valid for HARQ CBs consisted of HARQ Processes				
with a single HARQ bit per HARQ Process ID.	_			
trs-AdditionalBandwidth-r16	Band	No	FDD	FR1
Indicates the UE supported TRS bandwidths, in addition to 52 RBs, for a 10MHz UE			only	only
channel bandwidth. This field only applies for the BWPs configured with 52 RBs				
size and 15kHz SCS, in FDD bands.				
Value <i>trs-AddBW-Set1</i> indicates 28, 32, 36, 40, 44, 48 RBs.				
Value trs-AddBW-Set2 indicates 32, 36, 40, 44, 48 RBs. twoHARQ-ACK-CodebookForUnicastAndMulticast-r17	Band	No	N/A	N/A
Indicates whether the UE supports two HARQ-ACK codebooks simultaneously	Danu	INO	IN/A	IN/A
constructed for supporting HARQ-ACK codebooks with different priorities for unicast				
and multicast at a UE.				
and manifolder at a OE.				
For TN, the UE shall set the capability value consistently for all FDD-FR1 bands, all				
TDD-FR1 bands and all TDD-FR2 bands, associated with supported shared and				
non-shared spectrum respectively. For NTN, UE shall set the capability value				
consistently for all FDD-FR1 NTN bands.				
A UE supporting this feature shall also indicate support of priorityIndicatorInDCI-				
Multicast-r17.				
twoPortsPTRS-UL	Band	No	N/A	N/A
Defines whether UE supports PT-RS with 2 antenna ports for UL transmission.				
type1-HARQ-Codebook-r17	Band	No	N/A	N/A
Indicates whether the UE supports Type-1 HARQ codebook enhancements when				
there are feedback-disabled HARQ processes. UE indicating support of this feature				
shall also indicate support of harq-FeedbackDisabled-r17. This field is only				
applicable for bands in Table 5.2.2-1 in TS 38.101-5 [34] and HAPS operation				
bands in clause 5.2 of TS 38.104 [35].				

type2-HARQ-Codebook-r17	Band	No	N/A	N/A
Indicates whether the UE supports Type-2 HARQ codebook enhancements when				
there are feedback-disabled HARQ processes. UE indicating support of this feature				
shall also indicate support of harq-FeedbackDisabled-r17. This field is only				
applicable for bands in Table 5.2.2-1 in TS 38.101-5 [34] and HAPS operation				
bands in clause 5.2 of TS 38.104 [35].				
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.				
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 Type 2 PUSCH transmissions with configured				
grant as specified in TS 38.214 [12] with UL-TWG-repK value equal to 2, 4, or 8				
with a single repetition of the transport block within each slot, and redundancy				
version pattern as indicated by UL-TWG-RV-rep. A UE supporting this feature shall				
also support Type 2 PUSCH transmissions with configured grant as specified in TS				
38.214 [12] with UL-TWG-repK value of one. This applies only to non-shared				
spectrum channel access. For shared spectrum channel access, type2-PUSCH-				
RepetitionMultiSlots-r16 applies. 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 type2-PUSCH-RepetitionMultiSlots-v1650 if type2-PUSCH-				
RepetitionMultiSlots is absent				
type3-HARQ-Codebook-r17	Band	No	N/A	N/A
Indicates whether the UE supports Type-3 HARQ codebook enhancements when				
there are feedback-disabled HARQ processes. UE indicating support of this feature				
shall also indicate support of harq-FeedbackDisabled-r17. This field is only				
applicable for bands in Table 5.2.2-1 in TS 38.101-5 [34] and HAPS operation				
bands in clause 5.2 of TS 38.104 [35].				
txDiversity-r16	Band	No	N/A	FR'
Indicates whether the UE supports transparent Tx diversity requirements as				onl
specified in the suffix G clauses of TS 38.101-1 [2] (see also clauses 4.2 and 4.3 of				
			N1/*	
TS38.101-1 [2]).	_ ·	No	N/A	FR
TS38.101-1 [2]). ue-OneShotUL-TimingAdj-r17	Band			onl
TS38.101-1 [2]). ue-OneShotUL-TimingAdj-r17	Band			
TS38.101-1 [2]). ue-OneShotUL-TimingAdj-r17 Indicates whether the UE supports one shot large UL timing adjustment.	Band			
TS38.101-1 [2]). ue-OneShotUL-TimingAdj-r17 Indicates whether the UE supports one shot large UL timing adjustment. UE indicating support of this feature shall indicate support of ue-PowerClass-v1700 set to 'pc6'.	Band			
TS38.101-1 [2]). ue-OneShotUL-TimingAdj-r17 Indicates whether the UE supports one shot large UL timing adjustment. UE indicating support of this feature shall indicate support of ue-PowerClass-v1700 set to 'pc6'. ue-PowerClass, ue-PowerClass-v1610, ue-PowerClass-v1700	Band	Yes	N/A	
TS38.101-1 [2]). ue-OneShotUL-TimingAdj-r17 Indicates whether the UE supports one shot large UL timing adjustment. UE indicating support of this feature shall indicate support of ue-PowerClass-v1700 set to 'pc6'. ue-PowerClass, ue-PowerClass-v1610, ue-PowerClass-v1700 For FR1, if the UE supports the different UE power class than the default UE power		Yes	N/A	
TS38.101-1 [2]). ue-OneShotUL-TimingAdj-r17 Indicates whether the UE supports one shot large UL timing adjustment. UE indicating support of this feature shall indicate support of ue-PowerClass-v1700 set to 'pc6'. ue-PowerClass, ue-PowerClass-v1610, ue-PowerClass-v1700 For FR1, if the UE supports the different UE power class than the default UE power		Yes	N/A	
TS38.101-1 [2]). ue-OneShotUL-TimingAdj-r17 Indicates whether the UE supports one shot large UL timing adjustment. UE indicating support of this feature shall indicate support of ue-PowerClass-v1700 set to 'pc6'. ue-PowerClass, ue-PowerClass-v1610, ue-PowerClass-v1700 For FR1, if the UE supports the different UE power class than the default UE power class as defined in clause 6.2 of TS 38.101-1 [2], or in clause 6.2 of TS 38.101-5		Yes	N/A	
TS38.101-1 [2]). ue-OneShotUL-TimingAdj-r17 Indicates whether the UE supports one shot large UL timing adjustment. UE indicating support of this feature shall indicate support of ue-PowerClass-v1700 set to 'pc6'. ue-PowerClass, ue-PowerClass-v1610, ue-PowerClass-v1700 For FR1, if the UE supports the different UE power class than the default UE power class as defined in clause 6.2 of TS 38.101-1 [2], or in clause 6.2 of TS 38.101-5 [34], the UE shall report the supported UE power class in this field. For FR2, UE		Yes	N/A	
TS38.101-1 [2]). ue-OneShotUL-TimingAdj-r17 Indicates whether the UE supports one shot large UL timing adjustment. UE indicating support of this feature shall indicate support of ue-PowerClass-v1700 set to 'pc6'. ue-PowerClass, ue-PowerClass-v1610, ue-PowerClass-v1700 For FR1, if the UE supports the different UE power class than the default UE power class as defined in clause 6.2 of TS 38.101-1 [2], or in clause 6.2 of TS 38.101-5 [34], the UE shall report the supported UE power class in this field. For FR2, UE shall report the supported UE power class as defined in clause 6 and 7 of TS		Yes	N/A	
TS38.101-1 [2]). ue-OneShotUL-TimingAdj-r17 Indicates whether the UE supports one shot large UL timing adjustment. UE indicating support of this feature shall indicate support of ue-PowerClass-v1700 set to 'pc6'. ue-PowerClass, ue-PowerClass-v1610, ue-PowerClass-v1700 For FR1, if the UE supports the different UE power class than the default UE power class as defined in clause 6.2 of TS 38.101-1 [2], or in clause 6.2 of TS 38.101-5 [34], the UE shall report the supported UE power class in this field. For FR2, UE shall report the supported UE power class as defined in clause 6 and 7 of TS 38.101-2 [3] in this field. UE indicating support for pc6 supports the enhanced intra-		Yes	N/A	
TS38.101-1 [2]). ue-OneShotUL-TimingAdj-r17		Yes	N/A	N/A

 ue-specific-K-Offset-r17 Indicates whether the UE supports the reception of UE-specific K_offset comprised of the following functional components: Support of reception of UE-specific K_offset via MAC-CE Support of determining the timing of PUSCH, PUCCH, CSI reference resource, transmission of aperiodic SRS, activation of TA command, first PUSCH transmission in CG Type 2 with UE-specific Koffset UE indicating support of this feature shall also indicate support of uplinkPreCompensation-r17 and uplink-TA-Reporting-r17 for this band. This field is only applicable for bands in Table 5.2.2-1 in TS 38.101-5 [34] and HAPS operation bands in clause 5.2 of TS 38.104 [35]. 	Band	No	N/A	N/A
 uI-GapFR2-r17 Indicates whether the UE supports FR2 UL gap to perform BPS sensing for Tx power management by the use of uplink gap patterns as specified in TS 38.133 [5] if UE supports a band in FR2. 	Band	No	No	FR2 only
unifiedJointTCI-BeamAlignDLRS-r17 Indicates the support of beam misalignment between the DL source RS in the TCI state to provide spatial relation indication and the PL-RS. The UE indicating support of this feature shall also indicate support of unifiedJointTCI-r17.	Band	No	N/A	FR2 only
unifiedJointTCI-commonMultiCC-r17 Indicates the support of common multi-CC TCI state ID update and activation. The UE indicating support of this feature shall also indicate support of unifiedJointTCI-r17.	Band	No	N/A	N/A
 unifiedJointTCI-InterCell-r17 Indicates the support of Unified TCI with joint DL/UL TCI update for inter-cell beam management including following parameters: additionalMAC-CE-PerCC-r17 indicates the number of K additional MAC-CEs to indicate joint TCI states per CC in a band. additionalMAC-CE-AcrossCC-r17 indicates the number of K additional MAC-CE activated joint TCI states across all CC(s) in a band. A UE indicating support of this shall also indicate support of unifiedJointTCI-r17 and unifiedJointTCI-mTRP-InterCell-BM-r17. NOTE: A UE that supports unifiedJointTCI-InterCell-r17 supports K additional MAC-CE activated joint TCI states across all CC(s) in a band in addition to the maximum number of MAC-CE activated joint TCI states across all CC(s) in a band signalled in unifiedJointTCI-r17. The signalled value in additionalMAC-CE-AcrossCC-r17 plus the signalled value in maxActivatedTCIAcrossCC-r17 determine the maximum number of MAC-CE activated joint TCI states across all CC(s) in a band that are applied to intra and inter-cell beam management jointly. 	Band	No	N/A	N/A
 unifiedJointTCI-Legacy-CORESET0-r17 Indicates the support of indication/configuration of R17 TCI states for CORESET #0 and the respective PDSCH reception reusing the Rel-15/16 signalling/configuration design(s). The UE indicating support of this feature shall also indicate support of unifiedJointTCI-r17. 	Band	No	N/A	N/A
unifiedJointTCI-Legacy-SRS-r17 Indicates the support of indication/configuration of R17 TCI states for SRS (except for periodic/semi-persistent SRS for BM) reusing the Rel-15/16 signalling/configuration design(s). The UE indicating support of this feature shall also indicate support of unifiedJointTCI-r17.	Band	No	N/A	N/A
unifiedJointTCI-Legacy-r17 Indicates the support of indication/configuration of R17 TCI states for aperiodic CSI-RS, PDCCH, PDSCH (except for TRS and for CORESET #0 and the respective PDSCH reception) reusing the Rel-15/16 signalling/configuration design(s). The UE indicating support of this feature shall also indicate support of unifiedJointTCI-r17.	Band	No	N/A	N/A

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

 unifiedJointTCI-r17 Indicates the support of unified TCI state operation with joint DL/UL TCI update for intra-cell beam management including the support of: One MAC-CE activated joint TCI state per CC in a band TCI state indication for update and activation of MAC CE based TCI state indication for one active TCI state The capability signalling comprises the following parameters: maxConfiguredJointTCI-r17 indicates the maximum number of configured joint TCI states per BWP per CC in a band maxActivatedTCIAcrossCC-r17 indicates the maximum number of MAC-CE activated joint TCI states across all CC(s) in a band 	Band	No	N/A	N/A
If a UE supports <i>unifiedJointTCI-InterCell-r17</i> , the signalled component values (except <i>additionalMAC-CE-AcrossCC-r17</i>) also apply to inter-cell beam management,				
NOTE: Activated joint TCI state(s) include all PDCCH/PDSCH receptions and PUSCH/PUCCH transmissions				
unifiedJointTCI-SCellBFR-r17 Indicates the support of SCell BFR with unified TCI operation. The maximum number of CCs configured with SCell BFR with unified TCI framework in a band with SpCell BFR is given by maxNumberSCellBFR-r16. The UE supporting this feature assumes that maxNumberSCellBFR-r16 includes SpCell.	Band	No	N/A	N/A
unifiedSeparateTCI-commonMultiCC-r17 Indicates the Common multi-CC DL/UL-TCI state ID update and activation.	Band	No	N/A	N/A
The UE indicating support of this feature shall also indicate support of unifiedSeparateTCI-r17.				
unifiedSeparateTCI-InterCell-r17 Indicates the support of unified TCI with separate DL/UL TCI update for inter-cell beam management with more than one MAC-CE activated separate TCI state per CC.	Band	No	N/A	N/A
This feature also includes following parameters: - k-DL-PerCC-r17 indicates the number of additional MAC-CE activated DL TCI states per CC in a band - k-UL-PerCC-r17 indicates the number of additional MAC-CE activated UL TCI states per CC in a band - k-DL-AcrossCC-r17 indicates the number of additional MAC-CE activated DL TCI states across all CC(s) in a band - k-UL-AcrossCC-r17 indicates the number of additional MAC-CE activated UL TCI states across all CC(s) in a band				
The UE indicating support of this feature shall also indicate support of unifiedSeparateTCI-r17.				
NOTE: A UE that supports this feature supports K additional MAC-CE activated DL and K additional MAC-CE activated UL TCI states across all CC(s) in a band in addition to the maximum number of MAC-CE activated DL and UL TCI states across all CC(s) in a band signalled in <i>unifiedSeperateTCI-r17</i> . The signalled value in <i>k-DL-AcrossCC-r17</i> (<i>k-UL-AcrossCC-r17</i>) plus the signalled value in <i>maxActivatedDL-TCIAcrossCC-r17</i> (<i>maxActivatedUL-TCIAcrossCC-r17</i>) determine the maximum number of MAC-CE activated DL (UL) TCI states across all CC(s) in a band that are applied to intra and inter-cell beam management jointly.				
unifiedSeparateTCI-ListSharingCA-r17 Indicates the support of reference BWP/serving cell configured with reference TCI state pool shared by a set of BWPs/serving cells. The value indicates the maximum number of configured DL/UL TCI state pools across all BWPs and all serving cells in a band.	Band	No	N/A	N/A

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

the following parameters: - maxNumberSRS-ResourcePer SRS resources per SRS resour supported by the UE.	for UL. This capability signalling comprises Set-BM indicates the maximum number of the set configurable for beam management, indicates the maximum number of SRS	Band	No	N/A	FR2 only
resource sets configurable for build if the UE does not set beamCorresport supported, the UE shall report this cap supports beam correspondence without 6.6, TS 38.101-2 [3].	peam management, supported by the UE.				
maximum number of SRS re	berSRS-ResourceSet to determine the esource sets that can be configured to the UE aperiodic configurations as below:				
Maximum number of SRS resource sets across all time domain behaviour (periodic/semipersistent/aperiodic) reported in maxNumberSRS-ResourceSet	Additional constraint on the maximum number of SRS resource sets configured to the UE for each supported time domain behaviour (periodic/semi-persistent/aperiodic)				
1	1				
2	1				
3	1				
4	2				
5	2				
6 7	2 4				
8	4				
uplinkPreCompensation-r17	4	Band	CY	N/A	N/A
and timing relationship enhancements components: - Support of UE specific TA calculated and the serving satellite epheme support of common TA calculated the network (UE considers comprovided) - For TA update in RRC_CONNE open (i.e. UE autonomous TA eclosed (i.e., received TA comments of pre-compensation of the support of pre-compensation of the service link support of frequency pre-compensation of the service link support of determining timing of the process of the service link support of determining timing of the service link support of determining timing of the service link support of determining timing of the service determining timing of the service link search space using K-mac during the search sp	ulation based on its GNSS-acquired position eris. tion according to the parameters provided by amon TA as 0 if the parameters are not ECTED state, support of combination of both estimation, and common TA estimation) and ands) control loops If the calculated TA in its uplink transmissions INTT and delaying the start of RAR window by ensation to counter shift the Doppler If the scheduling of PUSCH, PUCCH and reference resource, transmission of aperiodic and the start of the UE action and assumption on a boy MAC CE command by K_mac if it is siming of PDCCH monitoring in recoverying beam failure recovery procedure ecific K_offset/K_mac in system information				
uplink-TA-Reporting-r17	24.140 III 014400 0.2 01 10 00.10 1 [00].	Band	No	N/A	N/A
Indicates whether the UE supports UE compensation as specified in TS 38.32 shall also indicate support of <i>uplinkPre</i>	reporting of information related to TA pre- 21 [8]. UE indicating support of this feature 2-Compensation-r17 for this band. This field is 2-1 in TS 38.101-5 [34] and HAPS operation				

4.2.7.2a SharedSpectrumChAccessParamsPerBand

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

rssi-ChannelOccupancyReporting-r16 Indicates whether the UE supports RSSI measurements and channel occupancy	Band	No	N/A	N/A
reporting.	L			
srs-StartAnyOFDM-Symbol-r16	Band	No	N/A	N/A
Indicates whether the UE supports transmitting SRS starting in all symbols (0 to 13)				
of a slot. This capability is also applicable to a frequency band that does not require				
shared spectrum access.				
searchSpaceFreqMonitorLocation-r16	Band	No	N/A	N/A
Indicates the maximum number of frequency domain locations supported by the UE,				
for a search space set configuration with <i>freqMonitorLocations-r16</i> .				
coreset-RB-Offset-r16	Band	No	N/A	N/A
Indicates whether the UE supports CORESET configuration with <i>rb-Offset-r16</i> . This				
capability is also applicable to a frequency band that does not require shared				
spectrum access.				
cgi-Acquisition-r16	Band	No	N/A	N/A
Indicates whether the UE supports acquisition of CGI information from a	20.10		,, .	,, .
neighbouring NR unlicensed cell in an unlicensed carrier by reading SIB1 of the				
neighbouring unlicensed cell and reporting the acquired information to the network.				
configuredUL-Tx-r16	Band	No	N/A	N/A
Indicates whether the UE supports configuration of enableConfiguredUL-r16 and	Danu	INU	IN/A	14/74
enable transmission of higher-layer configured UL (SRS, PUCCH, CG-PUSCH, etc)				
when SFI field in DCl 2_0 is configured but DCl 2_0 is not detected.			N1/A	
prach-Wideband-r16	Band	No	N/A	N/A
Indicates whether the UE supports enhanced PRACH design for operation with				
shared spectrum channel access by adopting a single long ZC sequence, with ZC				
sequence = 1151 for 15 kHz and ZC sequence = 571 for 30 kHz.				
dci-AvailableRB-Set-r16	Band	No	N/A	N/A
Indicates whether the UE supports monitoring DCI 2_0 to read available RB set				
indicator.				
dci-ChOccupancyDuration-r16	Band	No	N/A	N/A
Indicates whether the UE supports monitoring DCI 2_0 to read COT duration.				
typeB-PDSCH-length-r16	Band	No	N/A	N/A
Indicates whether the UE supports 1. Type B PDSCH length {3, 5, 6, 8, 9, 10, 11,				
12, 13) without DMRS shift due to CRS collision. This capability is also applicable to				
a frequency band that does not require shared spectrum access.				
searchSpaceSwitchWithDCI-r16	Band	No	N/A	N/A
Indicates whether the UE supports switching between two groups of search space	20.10		,, .	,
sets with DCI 2_0 monitoring that comprises of the following functional components:				
- Monitor DCI 2_0 with a search space set switching field;				
Our and suitable at the county of the DOOL door in				
- 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 jointSearchSpaceSwitchAcrossCells-r16. The UE supports search				
space set group switching capability-1: P=25/25/25 symbols for μ =0/1/2, unless the				
UE supports searchSpaceSwitchCapability2-r16. The UE supports search space				
switching triggers to be configured for up to 4 cells or 4 cell groups.				
extendedSearchSpaceSwitchWithDCI-r16	Band	No	N/A	N/A
Indicates whether the UE supports search space switching triggers to be individually	Danu	140	1 N/ / \	'\'/^\
configured for up to 16 cells. UE indicating support of this feature shall indicate support of searchSpaceSwitchWithDCI-r16.				
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searchSpaceSwitchWithoutDCI-r16 Indicates whether the UE supports switching between two groups of search space sets without DCI 2_0 monitoring (i.e. implicit PDCCH decoding) that comprises of	Band	No	N/A	N/A
the following functional components: - Support switching the search space set group with PDCCH decoding in				
group 1;				
- Support a timer to switch back to original search space set group.				
The UE can switch search space set groups for different cells independently, unless the UE supports <i>jointSearchSpaceSwitchAcrossCells-r16</i> . The UE supports search space set group switching capability-1: P=25/25/25 symbols for µ=0/1/2, unless the				
UE supports searchSpaceSwitchCapability2-r16. searchSpaceSwitchCapability2-r16	Donal	Nia	NI/A	NI/A
Indicates whether the UE supports search space set group switching Capability-2: P=10/12/22 symbols for μ = 0/1/2 SCS. If the UE supports this feature, the UE needs to report searchSpaceSwitchWithDCI-r16 or searchSpaceSwitchWithoutDCI-	Band	No	N/A	N/A
r16.			. / A	
non-numericalPDSCH-HARQ-timing-r16 Indicates whether the UE supports configuration of a value for dl-DataToUL-ACK-r16 indicating an inapplicable time to report HARQ ACK.	Band	No	N/A	N/A
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.				
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 Indicates whether the LIE supports CSLPS based PLM for NP Unlicensed	Band	No	N/A	N/A
Indicates whether the UE supports CSI-RS based RLM for NR-Unlicensed. csi-RSRP-AndRSRQ-MeasWithSSB-r16	Band	No	N/A	N/A
Indicates whether the UE can perform CSI-RSRP and CSI-RSRQ measurement as specified in TS 38.215 [13], where CSI-RS resource is configured with an				
associated SS/PBCH in shared spectrum channel access. 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	Dailu	INU	IN/A	IN/A
indicate support of csi-RSRP-AndRSRQ-MeasWithSSB-r16.				

ssb-AndCSI-RS-RLM-r16	Band	No	N/A	N/A
Indicates whether the UE can perform radio link monitoring procedure based on				
measurement of SS/PBCH block and CSI-RS as specified in TS 38.213 [11] and TS				
38.133 [5] in shared spectrum channel access. If the UE supports this feature, the				
UE needs to report maxNumberResource-CSI-RS-RLM.				
of needs to report maxivumbernessurce-out-No-New.				
LIE indicating augment of this facture shall indicate augment of sai DC DLM #16 and				
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
	Danu	INO	IN/A	IN/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	Danu	140	11/7	111/7
format 2 and 3. If the UE supports this feature, the UE needs to report <i>pucch-F0-F1-</i>				
PRB-Interlace-r16.				
extCP-rangeCG-PUSCH-r16	Band	No	N/A	N/A
Indicates whether the UE supports generating a CP extension of length longer than				
1 symbol for Configured Grant PUSCH transmission. If the UE supports this feature,				
the UE needs to report configuredUL-GrantType1 or configuredUL-GrantType1-				
v1650 and/or configuredUL-GrantType2 or configuredUL-GrantType2-v1650.				
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 or configuredUL-GrantType1-v1650 and/or configuredUL-				
GrantType2 or configuredUL-GrantType2-v1650.	D .		N1/A	N1/A
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 <i>ul-DynamicChAccess-r16</i> .				
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
	Dallu	INO	IN/A	IN/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 or configuredUL-GrantType1-v1650 and/or	i			
" "" O T O " "" O T O TO		i l		
configuredUL-GrantType2 or configuredUL-GrantType2-v1650.			-	
dl-ReceptionLBT-subsetRB-r16	Band	No	N/A	N/A
	Band	No	N/A	N/A
dl-ReceptionLBT-subsetRB-r16	Band	No	N/A	N/A
dI-ReceptionLBT-subsetRB-r16 Indicates whether the UE supports reception in a wideband carrier when LBT is successful in a subset of the configured RB sets, which are either contiguous or	Band	No	N/A	N/A
dl-ReceptionLBT-subsetRB-r16 Indicates whether the UE supports reception in a wideband carrier when LBT is successful in a subset of the configured RB sets, which are either contiguous or non-contiguous, of the carrier.				
dl-ReceptionLBT-subsetRB-r16 Indicates whether the UE supports reception in a wideband carrier when LBT is successful in a subset of the configured RB sets, which are either contiguous or non-contiguous, of the carrier. dl-ReceptionIntraCellGuardband-r16	Band	No No	N/A	N/A N/A
dl-ReceptionLBT-subsetRB-r16 Indicates whether the UE supports reception in a wideband carrier when LBT is successful in a subset of the configured RB sets, which are either contiguous or non-contiguous, of the carrier. dl-ReceptionIntraCellGuardband-r16 Indicates whether the UE supports reception in the non-zero intra-cell guardband				
dl-ReceptionLBT-subsetRB-r16 Indicates whether the UE supports reception in a wideband carrier when LBT is successful in a subset of the configured RB sets, which are either contiguous or non-contiguous, of the carrier. dl-ReceptionIntraCellGuardband-r16 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				
dl-ReceptionLBT-subsetRB-r16 Indicates whether the UE supports reception in a wideband carrier when LBT is successful in a subset of the configured RB sets, which are either contiguous or non-contiguous, of the carrier. dl-ReceptionIntraCellGuardband-r16 Indicates whether the UE supports reception in the non-zero intra-cell guardband				

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

4.2.7.2b FR2-2-AccessParamsPerBand

Definitions for parameters	Per	M	FDD- TDD DIFF	FR1- FR2 DIFF
dI-FR2-2-SCS-120kHz-r17 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.	Band	CY	N/A	N/A
 It is mandatory for UE supporting at least one FR2-2 frequency band. dI-FR2-2-SCS-480kHz-r17 Indicates whether the UE supports the following: Reception of 480kHz subcarrier spacing for DL data and control channels, SSB, and reference signals in FR2-2 for non-initial access. Multiple-slot PDCCH monitoring for 480kHz with (Xs,Ys) = (4,1) Multi-PDSCH scheduling by single DCI for the operation with 480 kHz SCS and corresponding HARQ enhancements. Within the Ys = 1 slot (with Xs=4), monitoring of type 1 CSS with dedicated RRC configuration, type 3 CSS, and UE-SS with a maximum of two monitoring spans per slot with a span duration of Y symbols and a minimum gap of X symbols between the start of two spans, where (X,Y) = (4, 3) and (7, 3) are supported. Processing one unicast DCI scheduling DL and one unicast DCI scheduling UL per slot group of Xs slots per scheduled CC for FDD. Processing one unicast DCI scheduling DL and 2 unicast DCI scheduling UL per slot group of Xs slots per scheduled CC for TDD. For type 1 CSS without dedicated RRC configuration and for type 0, 0A, and 2 CSS, the configured monitoring occasion(s) can be any OFDM symbol(s) of any slot(s) of the slot group, and the actual monitoring occasions for any one of Type 1 - CSS without dedicated RRC configuration, or Types 0, 0A, or 2 CSS is within a single span of three consecutive OFDM symbols within a single slot of the slot group. UE indicating support of this feature shall also indicate support of dI-FR2-2-SCS-120kHz-r17. 	Band	No	N/A	N/A
 dI-FR2-2-SCS-960kHz-r17 Indicates whether the UE supports the following: Reception of 960kHz subcarrier spacing for DL data and control channels, SSB, and reference signals in FR2-2 for non-initial access. Multiple-slot PDCCH monitoring for 960kHz with (Xs,Ys) = (8,1). Multi-PDSCH scheduling by single DCI for the operation with 960 kHz SCS and corresponding HARQ enhancements. Within the Ys = 1 slot (with Xs=8), monitoring of type 1 CSS with dedicated RRC configuration, type 3 CSS, and UE-SS with a maximum of two monitoring spans per slot with a span duration of Y symbols and a minimum gap of X symbols between the start of two spans, where (X,Y) = (7, 3) is supported. Processing one unicast DCI scheduling DL and one unicast DCI scheduling UL per slot group of Xs slots per scheduled CC for FDD. Processing one unicast DCI scheduling DL and 2 unicast DCI scheduling UL per slot group of Xs slots per scheduled CC for TDD. For type 1 CSS without dedicated RRC configuration and for type 0, 0A, and 2 CSS, the configured monitoring occasion(s) can be any OFDM symbol(s) of any slot(s) of the slot group, and the actual monitoring occasions for any one of Type 1 - CSS without dedicated RRC configuration, or Types 0, 0A, or 2 CSS is within a single span of three consecutive OFDM symbols within a single slot of the slot group. UE indicating support of this feature shall also indicate support of dI-FR2-2-SCS-120kHz-r17. 	Band	No	N/A	N/A
enhancedPDCCH-monitoringSCS-480kHz-r17 Indicates whether the UE supports multiple-slot PDCCH monitoring of type 1 CSS with dedicated RRC configuration, type 3 CSS, and UE-SS in the first 3 OFDM symbols of each slot within each of the Ys=2 slots (with Xs=4) for 480kHz with (Xs,Ys)=(4,2). UE indicating support of this feature shall also indicate support of dl-FR2-2-SCS-480kHz-r17.	Band	No	N/A	N/A

enhancedPDCCH-monitoringSCS-960kHz-r17	Band	No	N/A	N/A
Indicates whether the UE supports multiple-slot PDCCH monitoring for one or more of (Xs, Ys) = {(4,1), (4,2), (8,4)} for 960kHz:				
- Type 1 CSS with dedicated RRC configuration, type 3 CSS, and UE-SS in				
the first 3 OFDM symbols of each slot within each of the Ys=2 slots (with				
Xs=4) or Ys =4 slots (with Xs=8).Type 1 CSS with dedicated RRC configuration, type 3 CSS, and UE-SS with				
a span duration of Y symbols and a minimum gap of X symbols between the				
start of two spans where $(X,Y) = (7, 3)$ within the Ys=1 slot (with Xs=4).				
UE indicating support of this feature shall also indicate support of <i>dl-FR2-2-SCS-960kHz-r17</i> and shall include at least one of pdcch-monitoring4-1, pdcch-				
monitoring4-2, or pdcch-monitoring8-4.				
modulation64-QAM-PUSCH-FR2-2-r17	Band	No	N/A	N/A
Indicates whether the UE supports 64-QAM modulation for FR2-2 PUSCH. ul-FR2-2-SCS-120kHz-r17	Band	No	N/A	N/A
Indicates whether the UE supports PRACH with 120kHz SCS and length 139 and	Dana	110	14// (14// (
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-120kHz-r17</i> .				
ul-FR2-2-SCS-480kHz-r17	Band	No	N/A	N/A
Indicates whether the UE supports the following: - PRACH with 480kHz SCS and length 139.				
- Transmission of 4800kHz subcarrier spacing for UL data and control				
channels and reference signals in FR2-2.				
- Multi-PUSCH scheduling by single DCI for the operation with 480 kHz SCS.				
UE indicating support of this feature shall also indicate support of <i>dl-FR2-2-SCS-480kHz-r17</i> and <i>ul-FR2-2-SCS-120kHz-r17</i> .				
ul-FR2-2-SCS-960kHz-r17	Band	No	N/A	N/A
Indicates whether the UE supports the following: - PRACH with 960kHz SCS and length 139.				
- Transmission of 960kHz subcarrier spacing for UL data and control channels				
and reference signals in FR2-2.				
- Multi-PUSCH scheduling by single DCI for the operation with 960 kHz SCS.				
UE indicating support of this feature shall also indicate support of <i>dl-FR2-2-SCS-960kHz-r17</i> and <i>ul-FR2-2-SCS-120kHz-r17</i> .				
initialAccessSSB-120kHz-r17	Band	No	N/A	N/A
Indicates whether the UE supports 120kHz SSB for initial access in FR2-2.				
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> .				
initialAccessSSB-480kHz-r17	Band	No	N/A	N/A
Indicates whether the UE supports 480kHz SSB for initial access in FR2-2.				
UE indicating support of this feature shall also indicate support of <i>initialAccessSSB-120kHz-r17</i> , <i>dl-FR2-2-SCS-480kHz-r17</i> and <i>ul-FR2-2-SCS-480kHz-r17</i> .				
multiPDSCH-SingleDCI-FR2-2-SCS-120kHz-r17	Band	No	N/A	N/A
Indicates whether the UE supports multi-PDSCH scheduling by single DCI for the operation with 120 kHz SCS in FR2-2 and HARQ enhancements for both type 1 and				
type 2 HARQ codebook.				
UE indicating support of this feature shall also indicate support of <i>dl-FR2-2-SCS-120kHz-r17</i> .				
multiPUSCH-SingleDCI-FR2-2-SCS-120kHz-r17	Band	No	N/A	N/A
Indicates whether the UE supports multi-PUSCH scheduling by single DCI for the operation with 120 kHz SCS in FR2-2.				
UE indicating support of this feature shall also indicate support of <i>ul-FR2-2-SCS-120kHz-r17</i> .				

multiRB-PUCCH-SCS-120kHz-r17 Indicates whether the UE supports multi-RB PUCCH format 0/1/4 for 120kHz SCS. This feature is only applicable when PSD limitation applies within FR2-2 based on the regional regulations. UE indicating support of this feature shall also indicate support of ul-FR2-2-SCS-120kHz-r17.	Band	No	N/A	N/A
multiRB-PUCCH-SCS-480kHz-r17 Indicates whether the UE supports multi-RB PUCCH format 0/1/4 for 480kHz SCS. This feature is only applicable when PSD limitation applies within FR2-2 based on the regional regulations. UE indicating support of this feature shall also indicate support of ul-FR2-2-SCS-	Band	No	N/A	N/A
480kHz-r17.	6 -		N1/A	N1/A
 multiRB-PUCCH-SCS-960kHz-r17 Indicates whether the UE supports multi-RB PUCCH format 0/1/4 for 960kHz SCS. This feature is only applicable when PSD limitation applies within FR2-2 based on the regional regulations. UE indicating support of this feature shall also indicate support of ul-FR2-2-SCS-960kHz-r17. 	Band	No	N/A	N/A
reduced-BeamSwitchTiming-FR2-2-r17	Band	No	N/A	N/A
Indicates whether the UE supports reduced beam switching time delay d = 56 symbols for 480 kHz SCS as specified in TS 38.214 [12], clause 5.2.1.5.1a. If this capability is not reported and the UE supports both <i>dl-FR2-2-SCS-480kHz-r17</i>				
and <i>dl-FR2-2-SCS-960kHz-r17</i> , the default value of 112 symbols is assumed.	Dond	Nia	N/A	N/A
support32-DL-HARQ-ProcessPerSCS-r17 Indicates whether the UE supports 32 HARQ processes in DL for each SCS in FR2-2 (i.e. SCS 120kHz/480kHz/960kHz).	Band	No	N/A	N/A
A UE supporting 32 HARQ processes for 480/960 kHz SCS for DL shall support 32 as the maximum number of HARQ processes for 120 kHz SCS for DL in FR2-2. UE indicating support of this feature shall indicate support of <i>dl-FR2-2-SCS-120kHz-r17</i> .				
support32-UL-HARQ-ProcessPerSCS-r17 Indicates whether the UE supports 32 HARQ processes in UL for each SCS in FR2-2 (i.e. SCS 120kHz/480kHz/960kHz).	Band	No	N/A	N/A
A UE supporting 32 HARQ processes for 480/960 kHz SCS for UL shall support 32 as the maximum number of HARQ processes for 120 kHz SCS for UL in FR2-2. UE indicating a support of this feature shall indicate a support of the FR3-2 SCS 430kHz rd.				
indicating support of this feature shall indicate support of <i>dl-FR2-2-SCS-120kHz-r17</i> . type1-ChannelAccess-FR2-2-r17	Band	CY	N/A	N/A
Indicates whether the UE supports Type 1 channel access procedure in uplink for FR2-2 with shared spectrum channel access and supports LBT performed per channel, as defined in TS 37.213 [32], clause 4.4.				
UE indicating support of this feature shall also indicate support of <i>ul-FR2-2-SCS-120kHz-r17</i> . It is mandatory for UE supporting FR2-2 frequency band to indicate this when required by regulation.				
type2-ChannelAccess-FR2-2-r17 Indicates whether the UE supports Type 2 channel access procedure in uplink for FR2-2 with shared spectrum channel access and supports LBT performed per channel, as defined in TS 37.213 [32], clause 4.4.	Band	CY	N/A	N/A
UE indicating support of this feature shall also indicate support of <i>ul-FR2-2-SCS-120kHz-r17</i> and <i>type1-ChannelAccess-FR2-2-r17</i> . It is mandatory for UE supporting FR2-2 frequency band to indicate this when required by regulation.				
widebandPRACH-SCS-120kHz-r17 Indicates whether the UE supports enhanced PRACH design for operation by adopting a single long ZC sequence, with ZC sequence equal to 1151 and 571 for 120kHz SCS.	Band	No	N/A	N/A
This feature is only applicable when PSD limitation applies within FR2-2 based on the regional regulations.				
UE indicating support of this feature shall also indicate support of <i>ul-FR2-2-SCS-120kHz-r17</i> .				

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

4.2.7.3 CA-ParametersEUTRA

Definitions for parameters	Per	М	FDD- TDD DIFF	FR1- FR2 DIFF
additionalRx-Tx-PerformanceReq additionalRx-Tx-PerformanceReq defined in 4.3.5.22, TS 36.306 [15].	ВС	No	N/A	N/A
dI-1024QAM-TotalWeightedLayers 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, dI- 1024QAM-TotalWeightedLayers-r15 as described in TS 36.331 [17] applies, if included.	ВС	No	N/A	N/A
multipleTimingAdvance multipleTimingAdvance defined in 4.3.5.3, TS 36.306 [15].	BC	No	N/A	N/A
simultaneousRx-Tx simultaneousRx-Tx defined in 4.3.5.4, TS 36.306 [15].	ВС	No	N/A	N/A
supportedBandwidthCombinationSetEUTRA Indicates the set of supported bandwidth combinations for the LTE part for interband (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.	ВС	CY	N/A	N/A
supportedNAICS-2CRS-AP supportedNAICS-2CRS-AP defined in 4.3.5.8, TS 36.306 [15].	BC	No	N/A	N/A
fd-MIMO-TotalWeightedLayers 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 UE-EUTRA-Capability field descriptions. For an (NG)EN-DC/NE-DC band combination for which this field is not included, totalWeightedLayers-r13 as described in TS 36.331 [17] applies, if included.	BC	No	N/A	N/A
ue-CA-PowerClass-N defined in 4.3.5.1.3, TS 36.306 [15].	ВС	No	N/A	N/A

4.2.7.4 *CA-ParametersNR*

Definitions for parameters	Per	M	FDD- TDD DIFF	FR1- FR2 DIFF
 ack-NACK-FeedbackForMulticast-r17 Indicates whether the UE supports ACK/NACK based HARQ-ACK feedback and RRC-based enabling/disabling ACK/NACK-based feedback for dynamic scheduling for multicast, comprised of the following functional components: Supports ACK/NACK based HARQ-ACK feedback, and support of enabling/disabling ACK/NACK based HARQ-ACK feedback configured by RRC signalling; Supports PTM retransmission for multicast; Supports Type-1 and Type-2 HARQ-ACK CB for multicast feedback only; Supports shared PUCCH resource configurations with unicast; Supports Type-2 HARQ-ACK codebook for multicast on PUSCH/PUCCH with max number of G-RNTIs indicated in maxNumberG-RNTI-HARQ-ACK-Codebook-r17, which is not larger than max number of G-RNTIs indicated in maxNumberG-RNTI-r17. 	BC	No	N/A	N/A
A UE supporting this feature shall also indicate support of dynamicMulticastPCell-r17. ack-NACK-FeedbackForSPS-Multicast-r17 Indicates whether the UE supports ACK/NACK based HARQ-ACK feedback and RRC-based enabling/disabling ACK/NACK-based feedback for SPS group-common PDSCH for multicast, comprised of the following functional components: - Support of ACK/NACK based HARQ-ACK feedback, enabling/disabling ACK/NACK based HARQ-ACK feedback configured by RRC signalling for SPS group-common PDSCH without PDCCH scheduling and first PDSCH after SPS activation; - Support of PTM retransmission for SPS multicast associated with G-CS-RNTI; - Support of Type-1 and Type-2 HARQ-ACK CB for SPS multicast feedback only; - Support of shared SPS-PUCCH-AN-List configuration from unicast SPS. A UE supporting this feature shall also indicate support of sps-Multicast-r17.	BC	No	N/A	N/A
beamManagementType-r16, beamManagementType-CBM-r17 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). The UE can support independent beam management (IBM) only or common beam management (CBM) only or both. NOTE: beamManagementType-CBM-r17 is only applicable to the band combinations with 2 bands.	BC	Yes	TDD only	FR2 only
blindDetectFactor-r16 Defines the value of factor R for blind detection as specified in Clause 10.1 [11]. The UE that indicates support of this feature shall support multiDCI-MultiTRP-r16.	ВС	No	N/A	N/A
 codebookComboParametersAdditionPerBC-r16 Indicates the list of supported CSI-RS resources across all bands in a band combination by referring to codebookVariantsList for the mixed codebook types. For mixed codebook types, UE reports support active CSI-RS resources and ports for up to 4 mixed codebook combinations in any slot. The following parameters are included in codebookVariantsList for each code book type: maxNumberTxPortsPerResource indicates the maximum number of Tx ports in a resource across all bands within a band combination; maxNumberResourcesPerBand indicates the maximum number of resources across all CCs within a band combination, simultaneously; totalNumberTxPortsPerBand indicates the total number of Tx ports across all CCs within a band combination, simultaneously. For each band in a band combination, supported values for these three parameters are determined in conjunction with codebookComboParametersAddition-r16 reported in MIMO-ParametersPerBand. 	ВС	No	N/A	N/A

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

codebookComboParameterMixedTypePerBC-r17 Indicates the support of active CSI-RS resources and ports for mixed codebook	ВС	No	N/A	N/A
types in any slot. The UE reports supported active CSI-RS resources and ports for				
up to 4 mixed codebook combinations in any slot. The following are the possible				
mixed codebook combinations {Codebook1, Codebook2, Codebook3}:				
 type1SP-feType2PS-null-r17 indicates {Type 1 Single Panel, FeType II PS M=1, NULL} 				
 type1SP-feType2PS-M2R1-null-r17 indicates {Type 1 Single Panel, FeType II PS M=2 R=1, NULL} 				
 type1SP-feType2PS-M2R2-null-r17 indicates {Type 1 Single Panel, FeType II PS M=2 R=2, NULL} 				
 type1SP-Type2-feType2-PS-M1-r17 indicates {Type 1 Single Panel, Type II, FeType II PS M=1} 				
 type1SP-Type2-feType2-PS-M2R1-r17 indicates {Type 1 Single Panel, Type II, FeType II PS M=2 R=1} 				
 type1SP-eType2R1-feType2-PS-M1-r17 indicates {Type 1 Single Panel, eType II R=1, FeType II PS M=1} 				
 type1SP-eType2R1-feType2-PS-M2R1-r17 indicates {Type 1 Single Panel, eType II R=1, FeType II PS M=2 R=1} 				
 type1MP-feType2PS-null-r17 indicates {Type 1 Multi Panel, FeType II PS M=1, NULL} 				
 type1MP-feType2PS-M2R1-null-r17 indicates {Type 1 Multi Panel, FeType II PS M=2 R=1, NULL} 				
 type1MP-feType2PS-M2R2-null-r17 indicates {Type 1 Multi Panel, FeType II PS M=2 R=2, NULL} 				
 type1MP-Type2-feType2-PS-M1-r17 indicates {Type 1 Multi Panel, Type II, FeType II PS M=1} 				
 type1MP-Type2-feType2-PS-M2R1-r17 indicates {Type 1 Multi Panel, Type II, FeType II PS M=2 R=1} 				
 type1MP-eType2R1-feType2-PS-M1-r17 indicates {Type 1 Multi Panel, eType II R=1, FeType II PS M=1} 				
 type1MP-eType2R1-feType2-PS-M2R1-r17 indicates {Type 1 Multi Panel, eType II R=1, FeType II PS M=2 R=1} 				
For each mixed codebook supported by the UE, supportedCSI-RS-				
ResourceListAdd-r16 indicates the list of supported CSI-RS resources in a band by referring to codebookVariantsList. The following parameters are included in				
codebookVariantsList: - maxNumberTxPortsPerResource indicates the maximum number of Tx				
ports in a resource of a band combination with the minimum value of 'p4'.				
- maxNumberResourcesPerBand indicates the maximum number of				
resources across all CCs in a band combination with the minimum value				
of 4.				
 totalNumberTxPortsPerBand indicates the total number of Tx ports 				
across all CCs in a band combination.				
The UE supporting this feature shall indicate the support of fetype2basic-r17,				
etype2R1-r16, codebookParameters (type1-singlePanel, type1-multiPanel, type2),				
fetype2R1-r17, fetype2R2-r17.				

codebookComboParameterMultiTRP-PerBC-r17	Band	No	N/A	N/A
Indicates the support of active CSI-RS resources and ports in the presence of multi-				
TRP CSI.				
Indicates the support of active CSI-RS resources and ports for mixed codebook				
types in any slot. The UE reports supported active CSI-RS resources and ports for				
up to 4 mixed codebook combinations. The following are the possible mixed				
codebook combinations {Codebook1, Codebook2, Codebook3}:				
 nCJT-null-null indicates {NCJT, NULL, NULL} 				
 nCJT1SP-null-null indicates {NCJT+Type 1 SP for sTRP, NULL, NULL} 				
- nCJT-Type2-null-r16 indicates {NCJT, Type 2, Null}				
- nCJT-Type2PS-null-r16 indicates {NCJT, Type 2 with port selection, Null}				
- nCJT-eType2R1-null-r16 indicates {NCJT, eType 2 with R=1, Null}				
- nCJT-eType2R2-null-r16 indicates {NCJT, eType 2 with R=2, Null}				
- nCJT-eType2R1PS-null-r16 indicates {NCJT, eType 2 with R=1 and port				
selection, Null}				
- nCJT-eType2R2PS-null-r16 indicates {NCJT, eType 2 with R=2 and port				
selection, Null}				
- nCJT-Type2-Type2PS-r16 indicates {NCJT, Type 2, Type 2 with port				
selection}				
- nCJT1SP-Type2-null-r16 indicates {NCJT+Type 1 SP for sTRP, Type 2,				
Null}				
- nCJT1SP-Type2PS-null-r16 indicates {NCJT+Type 1 SP for sTRP, Type 2				
with port selection, Null}				
- nCJT1SP-eType2R1-null-r16 indicates {NCJT+Type 1 SP for sTRP, eType 2				
with R=1, Null}				
- nCJT1SP-eType2R2-null-r16 indicates {NCJT+Type 1 SP for sTRP, eType 2				
with R=2, Null}				
- nCJT1SP-eType2R1PS-null-r16 indicates {NCJT+Type 1 SP for sTRP,				
eType 2 with R=1 and port selection, Null}				
eType 2 with R=2 and port selection, Null}				
- nCJT1SP-Type2-Type2PS-r16 indicates {NCJT+Type 1 SP for sTRP, Type				
2, Type 2 with port selection}				
 nCJT-feType2PS-null-r17 indicates {NCJT, FeType II PS M=1, NULL} 				
 nCJT-feType2PS-M2R1-null-r17 indicates {NCJT, FeType II PS M=2 R=1, 				
NULL}				
- nCJT-feType2PS-M2R2-null-r17 indicates {NCJT, FeType II PS M=2 R=2,				
NULL}				
- nCJT-Type2-feType2-PS-M1-r17 indicates {NCJT, Type II, FeType II PS				
M=1}				
- nCJT-Type2-feType2-PS-M2R1-r17 indicates {NCJT, Type II, FeType II PS				
M=2 R=1}				
- nCJT-eType2R1-feType2-PS-M1-r17 indicates {NCJT, eType II R=1,				
FeType II PS M=1}				
- nCJT-eType2R1-feType2-PS-M2R1-r17 indicates {NCJT, eType II R=1,				
FeType II PS M=2 R=1}				
- nCJT1SP-feType2PS-null-r17 indicates {NCJT+Type 1 SP for sTRP, FeType				
II PS M=1, NULL}				
 nCJT1SP-feType2PS-M2R1-null-r17 indicates {NCJT+Type 1 SP for sTRP, 				
FeType II PS M=2 R=1, NULL}				
- nCJT1SP-feType2PS-M2R2-null-r17 indicates {NCJT+Type 1 SP for sTRP,				
FeType II PS M=2 R=2, NULL}				
- nCJT1SP-Type2-feType2-PS-M1-r17 indicates {NCJT+Type 1 SP for sTRP,				
Type II, FeType II PS M=1}				
- nCJT1SP-Type2-feType2-PS-M2R1-r17 indicates {NCJT+Type 1 SP for				
sTRP, Type II, FeType II PS M=2 R=1}				
- nCJT1SP-eType2R1-feType2-PS-M1-r17 indicates {NCJT+Type 1 SP for				
sTRP, eType II R=1, FeType II PS M=1}				
- nCJT1SP-eType2R1-feType2-PS-M2R1-r17 indicates {NCJT+Type 1 SP for				
sTRP, eType II R=1, FeType II PS M=2 R=1}				
For each wind and shock arms of the delication o				
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:				
 maxNumberTxPortsPerResource indicates the maximum number of Tx 				
ports in a resource of a band combination.				
·				

 maxNumberResourcesPerBand ind resources across all CCs in a band totalNumberTxPortsPerBand indica across all CCs in a band combination 	combination. es the total number of Tx ports				
NOTE 1: A CMR pair configured for NCJT will resources, a CMR configured for sT resource for a triplet.	be counted as two activated RP will be counted as one activated				
NOTE2: his capability is relevant only when least one CSI report setting in at least combination.	JE is configured with NCJT CSI in at st one CC in the band and/or band				
The UE indicating support of this feature shall CSI-EnhancementPerBand-r17.	also indicate the support of mTRP-				
crossCarrierA-CSI-trigDiffSCS-r16		ВС	No	N/A	N/A
Indicates the UE support of handling cross-car aperiodic CSI-RS where triggering PDCCH and different cells with different SCS. Value higher of PDCCH cell of lower SCS and CSI RS cell of SCS indicates the UE support of PDCCH cell of lower SCS, and value both indicates the support this feature shall also indicate support of CSI-F feedback using csi-RS-IM-ReceptionForFeedback.	d triggered CSI-RS resource are on A-CSI-SCS indicates the UE support of higher SCS and value lowerA-CSI-of higher SCS and CSI RS cell of our of both variations. A UE supporting as and CSI-IM reception for CSI	50	140	14//	TWA
crossCarrierSchedulingDefaultQCL-r16		ВС	No	N/A	N/A
Indicates whether the UE can be configured widefault QCL assumption for cross-carrier schenumerologies. A UE supporting this feature shares Carrier Scheduling-Same SCS or cross Carvier Scheduling-Same SCS or cross Cavalue diff-only indicates UE supports this feature for the support of the s	duling for same/different all either indicate support of trierSchedulingDL-DiffSCS-r16. re only for different SCS	ВО	NO	IVA	IWA
combination(s).					
crossCarrierSchedulingDL-DiffSCS-r16		ВС	No	N/A	N/A
Indicates the UE supports cross carrier schedu with carrier indicator field (CIF) in DL carrier ag the scheduling CC and scheduled CC are diffe	gregation where numerologies for			,	
Value <i>low-to-hig</i> h indicates UE supports sched CC of higher SCS;	uling CC of lower SCS to scheduled				
Value <i>high-to-low</i> indicates UE supports sched CC of lower SCS;	-				
Value <i>both</i> indicates UE supports both schedu CC of higher SCS and scheduling CC of highe SCS.					
per scheduled CC for FDD sche	UE reports this feature: eduling DL per scheduling CC slot duling CC eduling DL per scheduling CC slot				
NOTE 2: Following components are applicab higher SCS to lower SCS when the - Processing one unicast DCI sch scheduling CC slot per schedule - Processing one unicast DCI sch scheduling CC slot per schedule - N is based on pair of (schedulin	e to cross carrier scheduling from UE reports this feature: eduling DL per N consecutive ed CC for FDD scheduling CC eduling DL per N consecutive				

crossCarrierSchedulingSCell-SpCellTypeB-r17	ВС	No	N/A	FR1
Indicates whether the UE supports cross-carrier scheduling from SCell configured	20	1,40	14//	only
with cross-carrier scheduling to PCell/PSCell (sSCell) to PCell/PSCell				Office
(Type B). This capability signalling comprises the following parameters:				
- supportedSCS-Combinations-r17 indicates which {PCell/PSCell SCS in kHz,				
sSCell SCS in kHz} combinations are supported. For {PCell/PSCell SCS in				
kHz, sSCell SCS in kHz} combinations = {(30,30), (30, 60), (60,60)}, the				
capability also indicates the band pair(s) that are supported. The band-pair is				
encoded as a bitmap with size L * $(L-1)/2$, and bit N (leftmost bit is				
indexed as bit 0) is set to "1" if the UE supports cross-carrier scheduling from				
SCell toPCell/PSCell for the band pair (x, y), where L is the number of band				
entries in the band combination, x and y are the indices of the band entry in				
the band combination (the first band entry is indexed as 0), $x < y$, and $N =$				
$x^*(2^*L - x - 1)/2 + y - x - 1$.				
- sSCell USS set(s) (for CCS from sSCell to PCell/PSCell) and search space				
sets on PCell/PSCell can be configured so that the UE monitors them in				
overlapping slot of PCell/PSCell and sSCell.				
 Configuration of scaling factor α for BD and CCE limit handling and PDCCH 				
overbooking handling on P(S)Cell				
 The number of unicast DCI limits for PCell/PSCell scheduling 				
 Processing K1 unicast DCI scheduling DL on PCell/PSCell per 				
PCell/PSCell slot and its aligned N consecutive sSCell slot(s)				
 Processing K2 unicast DCI scheduling UL on PCell/PSCell per 				
PCell/PSCell slot and its aligned N consecutive sSCell slot(s)				
 N is based on pair of (PCell/PSCell SCS, sSCell SCS): N=1 for (15,15), 				
(30,30), (60,60) and N=2 for (15,30), (30,60) and N=4 for (15, 60)				
- (K1, K2) = {(1,1) for FDD P(S)Cell; (K1, K2) = (1,2) for TDD P(S)Cell}				
- Same numerology between sSCell and P(S)Cell or sSCell SCS is larger than				
P(S)Cell SCS.				
- USS set(s) for DCI format 0_1,1_1 configured on sSCell for CCS from sSCell				
to PCell/PSCell and USS set(s) for DCl format 0_2,1_2 configured on sSCell				
for CCS from sSCell to PCell/PSCell if UE supports dci-Format1-2And0-2-				
r16				
- pdcch-MonitoringOccasion-r17 indicates the PDCCH monitoring occasion(s)				
on sSCell for cross-carrier scheduling to Pcell/PSCell. There are 2 values				
{val1, val2} where val1 = within the first 3 OFDM symbols of sSCell slot				
overlapping with the first 3 OFDM symbols of PCell/PSCell slot and val2 =				
within the first 3 OFDM symbols of any sSCell slot overlapping with a				
PCell/PSCell slot.				
- Frame boundary alignment between PCell/PSCell and sSCell.				
- I fame boundary alignment between Foell/1 Soell and Socell.				
NOTE 1: A UE supporting this FG does not imply that the UE can be configured				
with sSCell in shared channel access spectrum.				
NOTE 2: The CCS from sSCell to PCell is applicable to FR1 only but there can be				
other SCells in FR2 configured for the UE.				
NOTE 3: Parameters in CSI-MeasConfig of P(S)Cell and sSCell are configured				
such that combination of P(S)Cell and sSCell configurations does not				
result in exceeding any of the UE's capabilities for A-/SP-CSI reporting				
on PUSCH on P(S)Cell.				
5 1 COO. 1 C/OO				

crossCarrierSchedulingSCell-SpCellTypeA-r17 Indicates whether the UE supports cross-carrier scheduling from SCell configured with cross-carrier scheduling to PCell/PSCell (sSCell) to PCell/PSCell with search space restrictions (Type A). This capability signalling comprises the following parameters:	ВС	No	N/A	FR1 only
- supportedSCS-Combinations-r17 indicates which {PCell/PSCell SCS in kHz, sSCell SCS in kHz} combinations are supported. For {PCell/PSCell SCS in kHz, sSCell SCS in kHz} combinations = {(30,30), (30, 60), (60,60)}, the capability also indicates the band pair(s) that are supported. The band-pair is encoded as a bitmap with size L * (L - 1) / 2, and bit N (leftmost bit is indexed as bit 0) is set to "1" if the UE supports cross-carrier scheduling from SCell toPCell/PSCell for band pair (x, y), where L is the number of band entries in the band combination, x and y are the indices of the band entry in the band combination (the first band entry is indexed as 0), x < y, and N = x*(2*L - x - 1)/2 + y - x - 1.				
 Search space restrictions: sSCell USS set(s) (for CCS from sSCell to PCell/PSCell) and following search space sets on PCell/PSCell can only be configured such that UE does not monitor them in overlapping slot of PCell/PSCell and sSCell: USS sets for DCI formats 0_1,1_1,0_2,1_2. USS sets for DCI formats 0_0,1_0. Type3-CSS set(s) for DCI formats 1_0/0_0 with C-RNTI/CS-RNTI/MCS-C-RNTI. 				
- Configuration of scaling factor α for BD and CCE limit handling and PDCCH				
overbooking handling on P(S)Cell.				
- The number of unicast DCI limits for PCell/PSCell scheduling:				
- Processing K1 unicast DCI scheduling DL on PCell/PSCell per				
PCell/PSCell slot and its aligned N consecutive sSCell slot(s).				
 Processing K2 unicast DCI scheduling UL on PCell/PSCell per 				
PCell/PSCell slot and its aligned N consecutive sSCell slot(s).				
 N is based on pair of (PCell/PSCell SCS, sSCell SCS): N=1 for (15,15), 				
(30,30), (60,60) and N=2 for (15,30), (30,60) and N=4 for (15, 60).				
 (K1, K2) = {(1,1) for FDD P(S)Cell; (K1, K2) = (1,2) for TDD P(S)Cell}. 				
 Same numerology between sSCell and P(S)Cell or sSCell SCS is larger than P(S)Cell SCS. 				
- USS set(s) for DCI format 0_1,1_1 configured on sSCell for CCS from sSCell				
to PCell/PSCell and USS set(s) for DCl format 0_2,1_2 configured on sSCell				
for CCS from sSCell to PCell/PSCell if UE supports dci-Format1-2And0-2-				
r16.				
 sSCell USS set(s) (for CCS from sSCell to PCell/PSCell) and Type0/0A/1/2 				
CSS sets on PCell/PSCell can be configured so that the UE monitors them				
in overlapping slot of PCell/PSCell and sSCell				
 no simultaneous monitoring between 'USS sets (for P(S)Cell scheduling) 				
on sSCell' and 'Type 0/0A/1/2 CSS sets on P(S)Cell for DCI formats with				
CRC scrambled by C-RNTI/MCS-C-RNTI/CS-RNTI				
- simultaneous monitoring of 'USS sets (for P(S)Cell scheduling) on				
sSCell' and 'Type 0/0A/1/2 CSS sets on P(S)Cell for DCI formats with				
CRC not scrambled by C-RNTI/MCS-C-RNTI/CS-RNTI'.				
- pdcch-MonitoringOccasion-r17 indicates the PDCCH monitoring occasion(s)				
on sSCell for cross-carrier scheduling to PCell/PSCell. There are 2 values				
{val1, val2} where val1 = within the first 3 OFDM symbols of sSCell slot overlapping with the first 3 OFDM symbols of PCell/PSCell slot and val2 =				
within the first 3 OFDM symbols of any sSCell slot overlapping with a				
PCell/PSCell slot.				
- Frame boundary alignment between PCell/PSCell and sSCell.				
NOTE 1: A UE supporting this FG does not imply that the UE can be configured				
with sSCell in shared channel access spectrum.				
NOTE 2: The CCS from sSCell to PCell is applicable to FR1 only but there can be				
other SCells in FR2 configured for the UE.				
NOTE 3: Parameters in CSI-MeasConfig of P(S)Cell and sSCell are configured				
such that combination of P(S)Cell and sSCell configurations does not				
result in exceeding any of the UE's capabilities for A-/SP-CSI reporting				
on PUSCH on P(S)Cell.				

crossCarrierSchedulingUL-DiffSCS-r16 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.	ВС	No	N/A	N/A
the scheduling CC and scheduled CC are different. Value low-to-high indicates UE supports scheduling CC of lower SCS to scheduled CC of higher SCS; Value high-to-low indicates UE supports scheduling CC of higher SCS to scheduled CC of lower SCS; Value both 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)				

csi-ReportingCrossPUCCH-Grp-r16	ВС	No	N/A	N/A
Indicates the support of CSI reporting cross PUCCH group, comprised of the following functional components:				
Tollowing functional components.				
- Support reporting CSI of an SCell belonging to secondary PUCCH group by				
PUSCH or PUCCH of active serving cells belonging to primary PUCCH				
group, for both during and after SCell activation procedure; - Support reporting CSI of an SCell belonging to primary PUCCH group by				
PUSCH or PUCCH of active serving cells belonging to secondary PUCCH				
group, for both during and after SCell activation procedure;				
- Support for P-CSI and A-CSI for cross-PUCCH group CSI reporting;				
- computationTimeForA-CSI-r16 indicates the CSI computation time for A-CSI;				
if 'relaxed' is reported, the additionalSymbols-r16 shall be reported to indicate for each supported SCS the required additional number of symbols				
in addition to existing Z and Z' for aperiodic CSI report for cross-PUCCH				
group CSI reporting (the same SCS set definition as in clause 5.4 of TS				
38.214 [12]). The value <i>s14</i> indicates 14 symbols, and so on. For FR2-2				
bands, the time relaxation values of the required additional number of symbols for SCS 480/960 kHz (μ=5 and μ=6) are the same amount of				
absolute time as UE reported for SCS 120kHz (μ =3).				
- sp-CSI-ReportingOnPUCCH-r16 indicates whether the UE supports SP-CSI				
reporting on PUCCH for cross-PUCCH group CSI reporting;				
 sp-CSI-ReportingOnPUSCH-r16 indicates whether the UE supports SP-CSI reporting on PUSCH for cross-PUCCH group CSI reporting; 				
- carrierTypePairList-r16 indicates one or multiple supported carrier type				
pairs(s). For each supported carrier type pair in carrierTypePairList-r16:				
- carrierForCSI-Measurement-r16 indicates the carrier type in a PUCCH				
group in which CSI measurement is performed; - carrierForCSI-Reporting-r16 indicates the carrier type in the other				
PUCCH group in which CSI report is performed,				
 where a carrier type is one of {fr1-NonSharedTDD-r16, fr1-SharedTDD- 				
r16, fr1-NonSharedFDD-r16, fr2-r16}				
UE indicating support of this feature shall indicate csi-ReportFramework and indicate support of either twoPUCCH-Group or twoPUCCH-Grp-ConfigurationsList-r16.				
NOTE 1: For a band combination with SUL, the SUL band is counted as one of the bands.				
NOTE 2: For a band combination with SDL, the SDL band is counted as one of the bands. SDL is indicated as 'FR1-NonSharedFDD' carrier type. Per UE				
capabilities that are TDD only are not applicable to SDL.				
NOTE 3: When the carrier type of NUL is indicated for PUCCH/PUSCH				
transmission location for CSI measurement or CSI reporting, the SUL in				
the same cell as in the NUL can also be configured for PUCCH/PUSCH transmission.				
csi-RS-IM-ReceptionForFeedbackPerBandComb	ВС	Yes	N/A	N/A
Indicates support of CSI-RS and CSI-IM reception for CSI feedback. This capability				
signalling comprises the following parameters: - maxNumberSimultaneousNZP-CSI-RS-ActBWP-AllCC indicates the				
maximum number of simultaneous CSI-RS resources (irrespective of the				
associated codebook type) in active BWPs across all CCs, and across MCG				
and SCG in case of NR-DC. The network applies this limit in addition to the				
limits signalled in MIMO-ParametersPerBand-> 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 MIMO-ParametersPerBand->				
totalNumberPortsSimultaneousNZP-CSI-RS-PerCC and in Phy-				
ParametersFRX-Diff-> totalNumberPortsSimultaneousNZP-CSI-RS-PerCC.				
The UE is mandated to report csi-RS-IM-ReceptionForFeedbackPerBandComb.				

dci-FormatsPCellPSCellUSS-Sets-r17 Indicates whether UE supports the monitoring DCI formats 0_1,1_1,0_2 (if supported),1_2 (if supported) on PCell/PSCell USS set(s).	ВС	No	N/A	FR1 only
UE indicating support of this feature shall indicate support of				
crossCarrierSchedulingSCell-SpCellTypeA-r17.			N1/A	N1/A
defaultQCL-CrossCarrierA-CSI-Trig-r16 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].	BC	No	N/A	N/A
Value diffOnly indicates the UE supports this feature for different SCS combination(s). Value both indicates the UE supports this feature for same SCS and for different SCS combination(s) (low-to-high, high-to-low or both) reported for crossCarrierA-CSI-trigDiffSCS-r16.				
demodulationEnhancementCA-r17	ВС	No	No	FR1
Indicates whether the UE supports the enhanced demodulation processing for carrier aggregation for HST-SFN joint transmission scheme with velocity up to 500km/h as specified in TS 38.101-4 [18].				only
UE indicating support of this feature shall indicate support of demodulationEnhancement-r16.				
diffNumerologyAcrossPUCCH-Group	ВС	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	ВС	No	N/A	N/A
Indicates whether UE supports different numerology across carriers within a	ВС	110	14/73	14/7
PUCCH group and a same numerology between DL and UL per carrier for				
data/control channel at a given time in NR CA, (NG)EN-DC/NE-DC and NR-DC.				
In case of NR CA and (NG)EN-DC/NE-DC with one NR PUCCH group and in case				
of NR CA with two NR PUCCH groups, it also indicates whether the UE supports				
different numerologies across NR carriers within the same NR PUCCH group up to				
two different numerologies within the same NR PUCCH group, wherein NR PUCCH				
is sent on the carrier with larger SCS for data and control channel at a given time. In case of (NG)EN-DC/NE-DC with two NR PUCCH groups, it indicates whether the				
UE supports different numerologies across NR carriers up to two different				
numerologies within an NR PUCCH group in FR1, wherein NR PUCCH is sent on				
the carrier with larger SCS, and same numerology across NR carriers within				
another NR PUCCH group in FR2 for data and control channel at a given time.				
In case of NR-DC, it indicates whether the UE supports different numerologies				
across NR carriers within the same NR PUCCH group in MCG (in FR1) up to two				
different numerologies within the same NR PUCCH group wherein NR PUCCH is				
sent on the carrier with larger SCS for data/control channel at a given time; and same numerology across NR carriers in SCG (in FR2).				
diffNumerologyWithinPUCCH-GroupLargerSCS-CarrierTypes-r16	ВС	No	N/A	N/A
Indicates whether UE supports different numerology across carriers up to 2 different				
numerologies within the same PUCCH group wherein PUCCH is sent on the carrier				
with larger SCS for data/control channel at a given time in NR CA for UE supporting				
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.				
NOTE: PUCCH is sent on a carrier with SCS not smaller than SCS of any DL carriers corresponding to the PUCCH group.				
1 3				

I'M	D0		N1/A	N1/A
diffNumerologyWithinPUCCH-GroupSmallerSCS	BC	No	N/A	N/A
Indicates whether UE supports different numerology across carriers within a				
PUCCH group and a same numerology between DL and UL per carrier for				
data/control channel at a given time in NR CA, (NG)EN-DC/NE-DC and NR-DC.				
In case of NR CA and (NG)EN-DC/NE-DC with one NR PUCCH group and in case				
of NR CA with two NR PUCCH groups, it also indicates whether the UE supports				
different numerologies across NR carriers within the same NR PUCCH group up to				
two different numerologies within the same NR PUCCH group, wherein NR PUCCH				
is sent on the carrier with smaller SCS for data and control channel at a given time.				
In case of (NG)EN-DC/NE-DC with two NR PUCCH groups, it indicates whether the				
UE supports different numerologies across NR carriers up to two different				
numerologies within an NR PUCCH group in FR1, wherein NR PUCCH is sent on				
the carrier with smaller SCS, and same numerology across NR carriers within				
another NR PUCCH group in FR2 for data and control channel at a given time.				
In case of NR-DC, it indicates whether the UE supports different numerologies				
across NR carriers within the same NR PUCCH group in MCG (in FR1) up to two				
different numerologies within the same NR PUCCH group wherein NR PUCCH is				
sent on the carrier with smaller SCS for data/control channel at a given time; and				
same numerology across NR carriers in SCG (in FR2).	50		N 1 / A	N 1/A
diffNumerologyWithinPUCCH-GroupSmallerSCS-CarrierTypes-r16	BC	No	N/A	N/A
Indicates whether UE supports different numerology across carriers up to 2 different				
numerologies within the same PUCCH group wherein PUCCH is sent on the carrier				
with smaller SCS for data/control channel at a given time in NR CA for UE				
supporting two PUCCH groups with 3 or more bands with at least two carrier types.				
UE indicating support of this feature shall indicate support of 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.				
disablingScalingFactorDeactSCell-r17	ВС	No	N/A	FR1
Indicates whether UE supports disabling scaling factor α for Cross-carrier				only
scheduling (CCS) from SCell configured with cross-carrier scheduling to				0,
PCell/PSCell (sSCell) to PCell/PSCell(Type A or Type B) when sSCell is				
deactivated (i.e. scaling factor α is not applied for PDCCH overbooking/BD/CCE				
limit computation when sSCell is deactivated).				
innit computation when social is deadtivated).				
UE indicating support of this feature shall indicate support of				
crossCarrierSchedulingSCell-SpCellTypeA-r17 or crossCarrierSchedulingSCell-				
SpCellTypeB-r17.	DO.	NI-	NI/A	ED4
disablingScalingFactorDormantSCell-r17	BC	No	N/A	FR1
Indicates whether UE supports disabling scaling factor α for Cross-carrier				only
scheduling (CCS) from SCell configured with cross-carrier scheduling to				
PCell/PSCell (sSCell) to PCell/PSCell(Type A or Type B) when sSCell is switched				
to dormant BWP (i.e. scaling factor α is not applied for PDCCH				
overbooking/BD/CCE limit computation when sSCell is switched to dormant BWP).				
UE indicating support of this feature shall indicate support of				
crossCarrierSchedulingSCell-SpCellTypeA-r17 or crossCarrierSchedulingSCell-				
SpCellTypeB-r17.				
dmrs-BundlingNonBackToBackTX-PerBC-r17	ВС	No	N/A	N/A
Indicates whether the UE supports DM-RS bundling for non-back-to-back				
transmission for consecutive slots for PUSCH and PUCCH only for corresponding				
supported back-to-back transmission as reported in <i>dmrs-BundlingPUSCH-</i>				
RepTypeAPerBC-r17, dmrs-BundlingPUSCH-RepTypeBPerBC-r17, dmrs-				
BundlingPUSCH-multiSlotPerBC-r17 or dmrs-BundlingPUCCH-RepPerBC-r17.				
UE indicating support of this feature shall also indicate support of at least one of				
dmrs-BundlingPUSCH-RepTypeAPerBC-r17, dmrs-BundlingPUSCH-				
RepTypeBPerBC-r17, dmrs-BundlingPUSCH-multiSlotPerBC-r17 or dmrs-				
BundlingPUCCH-RepPerBC-r17.				
Building Oooli-Neprelbo-117.				
NOTE: This capability is only applicable when UE is configured with single uplink				
1				
carrier within a frequency range.				

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

dmrs-BundlingPUSCH-multiSlotPerBC-r17	ВС	No	N/A	N/A
Indicates whether the UE supports DM-RS bundling for TB processing over multi-		110	14//	14//
slot (TBoMS) PUSCH over consecutive symbols.				
Siot (TDOING) TOOCITOVEL CONSECUTIVE SYMBOIS.				
UE indicating support of this feature shall also indicate support of				
maxDurationDMRS-Bundling-r17 and tb-ProcessingMultiSlotPUSCH-r17 in at least				
one of the bands in the band combination.				
This feature is applicable to following multiple carrier scenarios in addition to single				
carrier scenarios:				
 FR1+FR2 UL CA, FR1+FR2 DC, and EN-DC with NR on FR2. DMRS 				
bundling configuration is limited to one uplink NR carrier in total on all FRs at				
a time.				
- FR1 inter-band DL CA with a "single" uplink band configured, meaning no				
switching to transmit SRS on another carrier.				
- DL CA with "additional" UL carrier configured with SRS only (i.e. no				
PUCCH/PUSCH configured).				
- FR1 inter-band UL CA with DMRS bundling.				
- SUL with DMRS bundling.				
For the last three scenarios listed above, DMRS bundling can be applied with the				
following conditions:				
- Concurrent transmissions scheduled/configured over multiple carriers are				
not expected by UE.				
- Only configuration of a single TAG.				
Only applicable for the back-to-back case (i.e., zero gap between two				
transmissions within an actual TDW).				
- Only one band can be configured with DMRS bundling at a time.				
- Only one band can be configured with Divinco bandling at a time.				
NOTE 1: Under the above conditions, phase continuity and power consistency				
within any actual TDW on one carrier is not impacted by operations on a				
different carrier.				
NOTE 2: Under the above conditions, the events defined in clause 6.1.7 of TS				
38.214 [12] for the carrier with DMRS bundling are not triggered by any				
transmission within any actual TDW on the other carrier.				
NOTE 3: If the modulation scheme higher than QPSK is scheduled for				
transmission on any carrier configured with DMRS bundling, DMRS				
bundling is not applicable (i.e., the error case and up to UE				
implementation).				
NOTE 4: If a UE reports support of tb-ProcessingRepMultiSlotPUSCH-r17 and				
dmrs-BundlingPUSCH-multiSlot-r17 in a band in the band combination				
and dmrs-BundlingPUSCH-multiSlotPerBC-r17 is supported for the band				
combination, the UE supports DMRS bundling for the repetitions of				
TBoMS for the band.				

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

dmrs-BundlingPUSCH-RepTypeBPerBC-r17	BC	No	N/A	N/A
Indicates whether the UE supports DM-RS bundling for PUSCH repetition type B				
over consecutive symbols.				
UE indicating support of this feature shall also indicate support of				
maxDurationDMRS-Bundling-r17 in at least one of the bands in the band				
combination and pusch-RepetitionTypeB-r16.				
, , , , , , , , , , , , , , , , , , , ,				
This feature is applicable to following multiple carrier scenarios in addition to single				
carrier scenarios:				
- FR1+FR2 UL CA, FR1+FR2 DC, and EN-DC with NR on FR2. DMRS				
bundling configuration is limited to one uplink NR carrier in total on all FRs at				
a time.				
 FR1 inter-band DL CA with a "single" uplink band configured, meaning no switching to transmit SRS on another carrier. 				
- DL CA with "additional" UL carrier configured with SRS only (i.e. no				
PUCCH/PUSCH configured).				
- FR1 inter-band UL CA with DMRS bundling.				
- SUL with DMRS bundling.				
For the last three scenarios listed above, DMRS bundling can be applied with the				
following conditions:				
Concurrent transmissions scheduled/configured over multiple carriers are not expected by UE.				
not expected by UE Only configuration of a single TAG.				
- Only applicable for the back-to-back case (i.e., zero gap between two				
transmissions within an actual TDW).				
- Only one band can be configured with DMRS bundling at a time.				
NOTE 1: Under the above conditions, phase continuity and power consistency				
within any actual TDW on one carrier is not impacted by operations on a different carrier.				
NOTE 2: Under the above conditions, the events defined in clause 6.1.7 of TS				
38.214 [12] for the carrier with DMRS bundling are not triggered by any				
transmission within any actual TDW on the other carrier.				
NOTE 3: If the modulation scheme higher than QPSK is scheduled for				
transmission on any carrier configured with DMRS bundling, DMRS				
bundling is not applicable (i.e., the error case and up to UE				
implementation).			N1/A	N1/A
dmrs-BundlingRestartPerBC-r17 Indicates whether the UE supports restarting DM-RS bundling after the events	ВС	No	N/A	N/A
triggered by DCI or MAC CE that violate power consistency and phase continuity.				
anggerou by Borot Minto OL that violate portor contactority and phase contamany.				
UE indicating support of this feature shall also indicate support of				
maxDurationDMRS-Bundling-r17 in at least one of the bands in the band				
combination.				
NOTE: Evente which are triggered by DCI or MAC OF but do not require UE				
NOTE: Events which are triggered by DCI or MAC CE, but do not require UE capability to resume maintaining power consistency and/or phase				
continuity as specified in clause 6.1.7 of TS 38.214 [12] are excluded				
from this feature.				
dualPA-Architecture	ВС	No	N/A	N/A
For band combinations with single-band with UL CA, this field indicates the support				
of dual PA and dual LO frequencies for FR1, or dual LO frequencies for FR2. If				
absent in such band combinations, the UE supports single PA and single LO				
frequency for all the ULs for FR1, or single LO frequency for all the ULs for FR2. For				
other band combinations, this field is not applicable.				

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

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

Indicates whether the UE supports directional collision handling between reference and other cell(s) for half-duplex operation in TDD CA with same SCS. The UE can include this field for band combinations including only intra-band TDD CA or if simultaneousRxTxInterBandCA is not present for band combinations involving mix of intra-band TDD CA and inter-band TDD CA. If this field is included in ca-ParametersNR-forDC-v1610 for IAB-MT, it indicates IAB-MT supports directional collision handling between reference and other cells for half-duplex operation in TDD NR-DC with same SCS across MCG and SCG.	ВС	No	TDD only	N/A
higherPowerLimit-r17 Indicates whether UE supports increase in maximum output power above the power class indication for inter-band UL CA and NR-DC band combinations as defined in clause 6.2A of TS 38.101-1 [2].	ВС	No	N/A	FR1 only
interCA-NonAlignedFrame-r16 Indicates whether the UE supports inter-band carrier aggregation operation where, within the same cell group, the frame boundaries of the SpCell and the SCell(s) are not aligned, the slot boundaries are aligned and the lowest subcarrier spacing of the subcarrier spacings given in scs-SpecificCarrierList for SpCell is smaller than or equal to the lowest subcarrier spacing of the subcarrier spacings given in scs-SpecificCarrierList for each of the non-aligned SCells.	BC	No	N/A	N/A
interCA-NonAlignedFrame-B-r16 Indicates whether the UE supports inter-band carrier aggregation operation where, within the same cell group, the frame boundaries of the SpCell and the SCell(s) are not aligned, the slot boundaries are aligned and the lowest subcarrier spacing of the subcarrier spacings given in scs-SpecificCarrierList for SpCell is larger than the lowest subcarrier spacing of the subcarrier spacings given in scs-SpecificCarrierList for at least one of the non-aligned SCells. A UE indicating support of interCA-NonAlignedFrame-B-r16 shall also indicate support of interCA-NonAlignedFrame-r16.	ВС	No	N/A	N/A
 interFreqDAPS-r16 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: interFreqAsyncDAPS-r16 indicates whether the UE supports asynchronous DAPS handover. interFreqDiffSCS-DAPS-r16 indicates whether the UE supports different SCSs in source PCell and inter-frequency target PCell in DAPS handover. The UE only includes this field if different SCSs can be supported in both UL and DL. If absent, the UE does not support either UL or DL SCS being different in DAPS handover. interFreqMultiUL-TransmissionDAPS-r16 indicates whether the UE supports simultaneous UL transmission in source PCell and target PCell during a DAPS handover. The UE can include this field only if any of semiStaticPowerSharingDAPS-Mode1-r16, semiStaticPowerSharingDAPS-Mode2-r16 or dynamicPowersharingDAPS-r16 are included. Otherwise, the UE does not include this field. interFreqSemiStaticPowerSharingDAPS-Mode1-r16 indicates whether the UE supports semi-static UL power sharing mode 1 during DAPS handover between source and target cells of same FR. interFreqSemiStaticPowerSharingDAPS-Mode2-r16 indicates whether the UE supports semi-static UL power sharing mode 2 during DAPS handover between source and target cells of same FR. It is only applicable to DAPS Handover in synchronous scenarios. The UE only includes this field if semiStaticPowerSharingDAPS-Mode1-r16 is included. Otherwise, the UE does not include this field. interFreqDynamicPowersharingDAPS-Mode1-r16 is included. Otherwise, the UE does not include this field. interFreqUL-TransCancellationDAPS-r16 indi	BC	No	N/A	N/A

intraBandFreqSeparationUL-AggBW-GapBW-r16 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 are introduced and the values are defined in Table 5.3A.5-2 of TS 38.101-1 [2].	ВС	No	N/A	FR1 only
jointSearchSpaceSwitchAcrossCells-r16 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 searchSpaceSwitchWithDCI-r16 or searchSpaceSwitchWithoutDCI-r16.	BC	No	N/A	N/A
 maxCC-32-DL-HARQ-ProcessFR2-2-r17 Indicates the maximum number of component carriers that can be configured with 32 DL HARQ processes. Value n1 means 1 DL HARQ process, value n2 means 2 DL HARQ processes, and so on. UE supporting this feature shall indicate support of support32-DL-HARQ- 	ВС	No	NA	NA
ProcessPerSCS-r17. maxCC-32-UL-HARQ-ProcessFR2-2-r17 Indicates the maximum number of component carriers that can be configured with 32 UL HARQ processes. Value n1 means 1 UL HARQ process, value n2 means 2 UL HARQ processes, and so on. UE supporting this feature shall indicate support of support32-UL-HARQ-ProcessPerSCS-r17.	ВС	No	NA	NA
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 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	ВС	No	N/A	FR1 only
absent. maxUplinkDutyCycle-SULcombination-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 6.2C.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.	BC	No	N/A	FR1 only
 maxUpTo3Diff-NumerologiesConfigSinglePUCCH-grp-r16 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 (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. 	ВС	No	N/A	N/A

maxUpTo4Diff-NumerologiesConfigSinglePUCCH-grp-r16 Indicates the UE support of up to 4 different numerologies in the same PUCCH group where UE is not configured with two NR PUCCH groups by indicating one or multiple the NR carrier types {FR1 licensed TDD (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	BC	No	N/A	N/A
location, the SUL in the same cell as in the NUL can also be configured for PUCCH transmission.				
mode1-ForType1-CodebookGeneration-r17 Indicates whether the UE supports type1-Codebook-Generation-Mode configured as mode 1, for multiplexing HARQ-ACK for unicast and HARQ-ACK for multicast on PUCCH or PUSCH.	BC	No	N/A	N/A
A UE supporting this feature shall also indicate support of <i>mode2-TDM-CodebookForMux-UnicastMulticastHARQ-ACK-r17</i> .				
 mode2-TDM-CodebookForMux-UnicastMulticastHARQ-ACK-r17 Indicates whether the UE supports Mode 2 TDM-ed Type-1 and Type-2 HARQ-ACK codebook for multiplexing HARQ-ACK for unicast and HARQ-ACK for multicast, comprised of the following functional components: Support of Mode 2 TDM-ed Type-1 HARQ-ACK codebook for multiplexing HARQ-ACK for unicast and ACK/NACK-based HARQ-ACK for multicast on PUCCH or PUSCH; Support of Type-2 HARQ-ACK codebooks for multiplexing HARQ-ACK for unicast and HARQ-ACK for multicast on PUCCH or PUSCH with max number of G-RNTIs indicated in maxNumberG-RNTI-HARQ-ACK-Codebook-r17, which is not larger than max number of G-RNTIs indicated in maxNumberG-RNTI-r17 or G-CS-RNTIs indicated in maxNumberG-CS-RNTI-r17. A UE supporting this feature shall also indicate support of ack-NACK-FeedbackForMulticast-r17 or nack-OnlyFeedbackForMulticast-r17 or ack-NACK-FeedbackForSPS-Multicast-r17 or nack-OnlyFeedbackForSPS-Multicast-r17. NOTE 1: Mode 2 TDM-ed Type-1 HARQ-ACK codebook is generated based on the union TDRA tables from unicast and multicast and the union of k1 sets from unicast and multicast. NOTE 2: The Type-2 HARQ-ACK codebook is generated by concatenating the Type-2 sub-codebook for unicast and the Type-2 sub-codebook for multicast. 	BC	No	N/A	N/A
msgA-SUL-r16 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.	ВС	No	N/A	N/A
 mTRP-CSI-EnhancementPerBC-r17 Indicates support of CSI enhancements for multi-TRP including support of NZP CSI-RS resource pairs used as CMR (channel measurement resource) pairs for NCJT measurement hypothesis with N=1. This feature also includes following parameters: maxNumNZP-CSI-RS-r17 indicates the maximum number of NZP CSI-RS resources in one CSI-RS resource set: Ks,max cSI-Report-mode-r17 indicates the CSI report mode selection. Mode indicates mode 1 with X=0, mode2 indicates mode 2, both indicate the support of both mode 1 with X=0 and mode 2. A list of supported combinations, up to 16, across all CCs simultaneously, where each combination is	BC	No	N/A	N/A

multiPUCCH-ConfigForMulticast-r17 Indicates whether the UE supports PUCCH-ConfigurationList for multicast HARQ-ACK feedback, separate from that of unicast configurations.	ВС	No	N/A	N/A
A UE supporting this feature shall also indicate support of singlePUCCH-ConfigForMulticast-r17 and priorityIndicatorInDCI-Multicast-r17.				
mux-HARQ-ACK-UnicastMulticast-r17 Indicates whether the UE supports multiplexing HARQ-ACK for unicast and for multicast with the same priority and different HARQ-ACK codebook types in a PUCCH or in a PUSCH.	BC	No	N/A	N/A
A UE supporting this feature shall also indicate support of ack-NACK- FeedbackForMulticast-r17 or nack-OnlyFeedbackForMulticast-r17 or ack-NACK- FeedbackForSPS-Multicast-r17 or nack-OnlyFeedbackForSPS-Multicast-r17.				
 nack-OnlyFeedbackForMulticast-r17 Indicates whether the UE supports NACK-only based HARQ-ACK feedback for multicast RRC-based enabling/disabling with ACK/NACK transforming, comprised of the following functional components: Supports NACK-only based HARQ-ACK feedback and enabling/disabling NACK-only based HARQ-ACK feedback configured by RRC signalling for dynamic scheduling for multicast, including:	BC	No	N/A	N/A
A UE supporting this feature shall also indicate support of ack-NACK- FeedbackForMulticast-r17.				
 nack-OnlyFeedbackForSPS-Multicast-r17 Indicates whether the UE supports RRC-based enabling/disabling NACK-only based feedback for SPS group-common PDSCH for multicast, comprised of the following functional components: Support NACK-only based HARQ-ACK feedback, and support of enabling/disabling NACK-only based HARQ-ACK feedback configured by RRC signalling for SPS group-common PDSCH without PDCCH scheduling, including:	BC	No	N/A	N/A
FeedbackForSPS-Multicast-r17. nack-OnlyFeedbackSpecificResourceForMulticast-r17	BC	No	N/A	N/A
 Indicates whether the UE supports NACK-only based HARQ-ACK feedback for multicast corresponding to a specific sequence or a PUCCH transmission, comprised of the following functional components: Supports NACK-only based HARQ-ACK feedback for dynamic scheduling for multicast, including:				

 nack-OnlyFeedbackSpecificResourceForSPS-Multicast-r17 Indicates whether the UE supports NACK-only based HARQ-ACK feedback for multicast corresponding to a specific sequence or a PUCCH transmission for SPS group-common PDSCH for multicast, comprised of the following functional components: Supports NACK-only based HARQ-ACK feedback for SPS PDSCH for multicast, including: Up to 2TBs with NACK-only feedback transmitted in PUCCH by select one PUCCH resource Supports separate SPS-PUCCH-AN-List from unicast; 	ВС	No	N/A	N/A
 Single TB with NACK-only feedback transmitted in PUCCH; Up to 2TBs with NACK-only feedback transmitted in PUSCH by transforming into ACK/NACK bits. 				
UE supporting this feature shall also indicate support of nack- OnlyFeedbackForSPS-Multicast-r17.				
non-AlignedFrameBoundaries-r17 Indicates whether UE supports carrier aggregation with non-aligned frame boundaries for PCell/PSCell and SCell configured with cross-carrier scheduling to PCell/PSCell (sSCell) in inter-band CA. The capability indicates the band pairs of the {PCell/PSCell SCS in kHz, sSCell SCS in kHz} combination which supports non-aligned frame boundary PCell/PSCell and SCell. The band-pair is encoded as a bitmap with size L * $(L-1)/2$, and bit N (leftmost bit is indexed as bit 0) is set to "1" if the UE supports non-frame boundary for PCell/PSCell and SCell for the band pair (x, y) , where L is the number of band entries in the band combination, x and y are the indices of the band entry in the band combination (the first band entry is indexed as 0), $x < y$, and $N = x^*(2*L - x - 1)/2 + y - x - 1$.	BC	No	N/A	FR1 only
UE indicating support of this feature shall indicate support of crossCarrierSchedulingSCell-SpCellTypeA-r17 or crossCarrierSchedulingSCell-SpCellTypeB-r17.				
parallelTxMsgA-SRS-PUCCH-PUSCH-r16 Indicates whether the UE supports parallel transmission of MsgA and SRS/ PUCCH/ PUSCH across CCs in an inter-band CA band combination. A UE supporting this feature shall also indicate support of parallelTxPRACH-SRS-PUCCH-PUSCH.	BC	No	N/A	N/A
parallelTxMsgA-SRS-PUCCH-PUSCH-intraBand-r17 Indicates whether the UE supports parallel transmission of MsgA and SRS/ PUCCH/ PUSCH across CCs in an intra-band non-contiguous CA band combination. The UE indicating support of this field shall also indicate support of parallelTxMsgA-SRS-PUCCH-PUSCH-r16 and parallelTxPRACH-SRS-PUCCH- PUSCH-intraBand-r17.	BC	No	N/A	N/A
parallelTxSRS-PUCCH-PUSCH Indicates whether the UE supports parallel transmission of SRS and PUCCH/ PUSCH across CCs in an inter-band CA band combination.	ВС	No	N/A	N/A
parallelTxSRS-PUCCH-PUSCH-intraBand-r17 Indicates whether the UE supports parallel transmission of SRS and PUCCH/ PUSCH across CCs in an intra-band non-contiguous CA band combination.	ВС	No	N/A	N/A
parallelTxPRACH-SRS-PUCCH-PUSCH Indicates whether the UE supports parallel transmission of PRACH and SRS/PUCCH/PUSCH across CCs in an inter-band CA band combination.	ВС	No	N/A	N/A
parallelTxPRACH-SRS-PUCCH-PUSCH-intraBand-r17 Indicates whether the UE supports parallel transmission of PRACH and SRS/PUCCH/PUSCH across CCs in an intra-band non-contiguous CA band combination.	ВС	No	N/A	N/A
parallelTxPUCCH-PUSCH-r17 Indicates whether the UE supports simultaneous PUCCH and PUSCH transmissions of different priority on different cells for inter-band CA.	ВС	No	N/A	N/A
parallelTxPUCCH-PUSCH-SamePriority-r17 Indicates whether the UE supports simultaneous PUCCH and PUSCH transmissions of same priority on different cells in different bands for inter-band CA as specified in clause 9 of TS 38.213 [11].	ВС	No	N/A	N/A

pdcch-BlindDetectionCA-Mixed-r16, pdcch-BlindDetectionCA-Mixed-v16a0 This field indicates mixed operation of two variants of the number of blind detections in case of CA. UE indicating support of this feature shall also indicate support of pdcch-MonitoringMixed-r16. UE indicating support of pdcch-BlindDetectionCA-Mixed-v16a0 shall also indicate support of pdcch-MonitoringMixed-r16. Only one between pdcch-BlindDetectionCA-Mixed-r16 and pdcch-BlindDetectionCA-Mixed-NonAlignedSpan-r16 can be reported by UE.	ВС	No	N/A	N/A
pdcch-BlindDetectionCA-Mixed-NonAlignedSpan-r16, pdcch-BlindDetectionCA-Mixed-NonAlignedSpan-v16a0 This field indicates mixed operation of two variants of the number of blind detections in case of CA when the UE supports aligned span and non-aligned span. In the case of non-aligned span, when the configured number of CCs with Rel-16 PDCCH monitoring is larger than the UE reported value, PDCCH monitoring occasion(s) should be configured only on same symbol(s) every slot. UE indicating support of this feature shall also indicate support of pdcch-MonitoringMixed-r16. 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. UE indicating support of pdcch-BlindDetectionCA-Mixed-NonAlignedSpan-v16a0 shall also indicate support of pdcch-BlindDetectionCA-Mixed-NonAlignedSpan-r16. Only one between pdcch-BlindDetectionCA-Mixed-r16 and pdcch-BlindDetectionCA-Mixed-NonAlignedSpan-r16.	BC	No	N/A	N/A
pdcch-BlindDetectionMCG-UE-r16, pdcch-BlindDetectionSCG-UE-r16 This field indicates the number of blind detections supported for MCG and SCG, respectively as specified in clause 10 in TS 38.213 [11] for the NR-DC. UE shall report the fields for MCG and for SCG together if supported. If a UE supports pdcch-MonitoringCA-r16 or pdcch-MonitoringCA-NonAlighedSpan-r16, then the capability defined by pdcch-MonitoringCA-r16 or pdcch-MonitoringCA-NonAlighedSpan-r16 is applied to the feature as defined in clause 10 in TS 38.213 [11].	BC	No	N/A	N/A
pdcch-BlindDetectionMCG-SCG-List-r17 Indicates the supported combinations of the capability on the number of CCs for monitoring a maximum number of BDs and non-overlapped CCEs for MCG and for SCG (i.e. pdcch-BlindDetectionMCG-UE-r17 and pdcch-BlindDetectionSCG-UE-r17) when configured for NR-DC operation with Rel-17 PDCCH monitoring capability on all the serving cells. UE indicating support of this feature shall also indicate support of dl-FR2-2-SCS-480kHz-r17 or dl-FR2-2-SCS-960kHz-r17. NOTE: If the UE reports pdcch-MonitoringCA-r17, - Candidate values for pdcch-BlindDetectionMCG-UE-r17 is 1 to pdcch-MonitoringCA-r17-1 - Candidate values for pdcch-BlindDetectionSCG-UE-r17 is 1 pdcch-MonitoringCA-r17-1 - pdcch-BlindDetectionMCG-UE-r17 + pdcch-BlindDetectionSCG-UE-r17 >= pdcch-MonitoringCA-r17 Otherwise, the value of pdcch-BlindDetectionMCG-UE-r17 or of pdcchBlindDetectionSCG-UE-r17 is {1, 2, 3}	BC	No	N/A	N/A
pdcch-BlindDetectionMCG-UE-Mixed-r16, pdcch-BlindDetectionSCG-UE-Mixed-r16, pdcch-BlindDetectionMCG-UE-Mixed-v16a0, pdcch-BlindDetectionSCG-UE-Mixed-v16a0 This field indicates mixed operation of two variants of the number of blind detections supported for MCG and SCG, respectively. UE shall report the fields for MCG and for SCG together if supported. UE indicating support of pdcch-BlindDetectionMCG-UE-Mixed-v16a0 and pdcch-BlindDetectionSCG-UE-Mixed-v16a0 shall also indicate support of pdcch-BlindDetectionMCG-UE-Mixed-r16 and pdcch-BlindDetectionSCG-UE-Mixed-r16. If a UE supports pdcch-BlindDetectionCA-Mixed or pdcch-BlindDetectionCA-Mixed-NonAlignedSpan, then the capability defined by pdcch-BlindDetectionCA-Mixed or pdcch-BlindDetectionCA-Mixed-NonAlignedSpan is applied to the combination of pdcch-BlindDetectionMCG-UE-Mixed and pdcch-BlindDetectionSCG-UE-Mixed correspondingly as defined in clause 10 in TS 38.213 [11].	BC	No	N/A	N/A

pdcch-BlindDetectionMixedList1-r17 Indicates the supported combinations of the number of carriers for CCE/BD scaling for MCG and for SCG when configured for NR-DC operation and/or with DL CA with	ВС	No	N/A	N/A
mix of Rel. 15 and Rel. 17 PDCCH monitoring capabilities on different carriers.				
UE indicating support of this feature shall also indicate support of <i>dl-FR2-2-SCS-480kHz-r17</i> or <i>dl-FR2-2-SCS-960kHz-r17</i> .				
NOTE 1: For DL CA combinations, the range of pdcch-BlindDetectionCA1-r17 (for Rel-15) + pdcch-BlindDetectionCA2-r17 (for Rel-17) is {4,,16}.				
NOTE 2: For NR-DC operation: If the UE reports pdcch-BlindDetectionCA1-r17 (for Rel-15), - Candidate values for pdcch-BlindDetectionMCG-UE1 (for Rel-15) are 0 to pdcch-BlindDetectionCA1-r17 (for Rel-15) - Candidate values for pdcch-BlindDetectionSCG-UE1 (for Rel-15) are				
0 to pdcch-BlindDetectionCA1-r17 (for Rel-15) + pdcch-BlindDetectionMCG-UE1 (for Rel-15) + pdcch-BlindDetectionSCG-UE1 (for Rel-15) >= pdcch-BlindDetectionCA1-r17 (for Rel-15),				
Otherwise, - Candidate values for <i>pdcch-BlindDetectionMCG-UE1</i> (for Rel-15) are {0, 1, 2, 3}				
- Candidate values for <i>pdcch-BlindDetectionSCG-UE1</i> (for Rel-15) are {0, 1, 2, 3}				
If the UE reports pdcch-BlindDetectionCA2-r17 (for Rel-17), - Candidate values for pdcch-BlindDetectionMCG-UE2 (for Rel-17) are 0 to pdcch-BlindDetectionCA2-r17 (for Rel-17) - Candidate values for pdcch-BlindDetectionSCG-UE2 (for Rel-17) are 0 to pdcch-BlindDetectionCA2-r17 (for Rel-17)				
 pdcch-BlindDetectionMCG-UE2 (for Rel-17) + pdcch- BlindDetectionSCG-UE2 (for Rel-17) >= pdcch-BlindDetectionCA2- r17 (for Rel-17), 				
Otherwise, - Candidate values for <i>pdcch-BlindDetectionMCG-UE</i> 2 (for Rel-17) are				
{0, 1, 2, 3} - Candidate values for <i>pdcch-BlindDetectionSCG-UE2</i> (for Rel-17) are {0, 1, 2, 3}				

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

pdcch-BlindDetectionMixedList3-r17 Indicates the supported combinations of the number of carriers for CCE/BD scaling for MCG and for SCG when configured for NR-DC operation and/or with DL CA with mix of Rel. 15, Rel. 16 and Rel. 17 PDCCH monitoring capabilities on different carriers.	BC	No	N/A	N/A
uE indicating support of this feature shall also indicate support of <i>dl-FR2-2-SCS-480kHz-r17</i> or <i>dl-FR2-2-SCS-960kHz-r17</i>				
NOTE 1: For DL CA combinations, the range of pdcch-BlindDetectionCA1-r17 (for Rel-15) plus pdcch-BlindDetectionCA2-r17 (for Rel-16) + pdcch-BlindDetectionCA3-r17 (for Rel-17) is {3,,16}.				
NOTE 2: For NR-DC operation: If the UE reports pdcch-BlindDetectionCA1-r17 (for Rel-15), - Candidate values for pdcch-BlindDetectionMCG-UE1 (for Rel-15) are 0 to pdcch-BlindDetectionCA1-r17 (for Rel-15) - Candidate values for pdcch-BlindDetectionSCG-UE1 (for Rel-15) are 0 to pdcch-BlindDetectionCA1-r17 (for Rel-15) - pdcch-BlindDetectionMCG-UE1 (for Rel-15) + pdcch-				
BlindDetectionSCG-UE1 (for Rel-15) >= pdcch-BlindDetectionCA1- r17 (for Rel-15), Otherwise, - Candidate values for pdcch-BlindDetectionMCG-UE1 (for Rel-15) are				
 {0, 1} Candidate values for pdcch-BlindDetectionSCG-UE1 (for Rel-15) are {0, 1} 				
If the UE reports pdcch-BlindDetectionCA2-r17 (for Rel-16), - Candidate values for pdcch-BlindDetectionMCG-UE2 (for Rel-16) are 0 to pdcch-BlindDetectionCA2-r17 (for Rel-16) - Candidate values for pdcch-BlindDetectionSCG-UE2 (for Rel-16) are 0 to pdcch-BlindDetectionCA2-r17 (for Rel-16) - pdcch-BlindDetectionMCG-UE2 (for Rel-16) + pdcch- BlindDetectionSCG-UE2 (for Rel-16) >= pdcch-BlindDetectionCA2- r17 (for Rel-16),				
Otherwise, - Candidate values for pdcch-BlindDetectionMCG-UE2 (for Rel-16) are {0, 1} - Candidate values for pdcch-BlindDetectionSCG-UE2 (for Rel-16) are {0, 1}				
If the UE reports pdcch-BlindDetectionCA3-r17 (for Rel-17), - Candidate values for pdcch-BlindDetectionMCG-UE3 (for Rel-17) are 0 to pdcch-BlindDetectionCA3-r17 (for Rel-17) - Candidate values for pdcch-BlindDetectionSCG-UE2 (for Rel-17) are 0 to pdcch-BlindDetectionCA3-r17 (for Rel-17) - pdcch-BlindDetectionMCG-UE3 (for Rel-17) + pdcch- BlindDetectionSCG-UE3 (for Rel-17) >= pdcch-BlindDetectionCA3- r17 (for Rel-17),				
Otherwise, - Candidate values for pdcch-BlindDetectionMCG-UE3 (for Rel-17) are {0, 1} - Candidate values for pdcch-BlindDetectionSCG-UE3 (for Rel-17) are				
[0, 1] pdcch-MonitoringCA-r16 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. UE indicating support of this feature shall also indicate support of pdcch-Monitoring-r16. Only one between pdcch-MonitoringCA-	BC	No	N/A	N/A
r16 and pdcch-MonitoringCA-NonAlignedSpan-r16 can be reported by UE. pdcch-MonitoringCA-r17 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-17 PDCCH monitoring capability on all the serving cells.	ВС	No	N/A	N/A
UE indicating support of this feature shall also indicate support of <i>dl-FR2-2-SCS-480kHz-r17</i> or <i>dl-FR2-2-SCS-960kHz-r17</i> .				

pdcch-MonitoringCA-NonAlignedSpan-r16 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. Only one between pdcch-MonitoringCA-r16 and pdcch-MonitoringCA-NonAlignedSpan-r16 can be reported by UE.	ВС	No	N/A	N/A
prioSCellPRACH-OverSP-PeriodicSRS-Support-r17 Indicates whether the UE supports RRC configuration prioSCellPRACH-OverSP-PeriodicSRS as specified in TS 38.331 [9].	ВС	No	N/A	N/A
 ptp-Retx-Multicast-r17 Indicates whether the UE supports PTP retransmission for multicast on the same cell as multicast initial transmission. A UE supporting this feature shall also indicate support of ack-NACK-FeedbackForMulticast-r17. 	BC	No	N/A	N/A
ptp-Retx-SPS-Multicast-r17 Indicates whether the UE supports PTP retransmission associated with CS-RNTI for SPS multicast on the cell same as multicast initial transmission. A UE supporting this feature shall also indicate support of ack-NACK-FeedbackForSPS-Multicast-r17.	ВС	No	N/A	N/A
pucch-ConfigForSPS-Multicast-r17 Indicates whether the UE supports SPS-PUCCH-AN-List for multicast HARQ-ACK feedback of all multicast SPS configuration(s), separate from that of SPS unicast configurations. A UE supporting this feature shall also indicate support of ack-NACK-FeedbackForSPS-Multicast-r17.	ВС	No	N/A	N/A
scellDormancyWithinActiveTime-r16 Indicates whether the UE supports SCell dormancy indication received on SPCell with DCI format 0_1/1_1 sent within the active time as defined in clause 10.3 of TS 38.213 [11]. If the UE indicates the support of this, the UE supports one dormant BWP and at least one non-dormant BWP per carrier. To support more than one non-dormant BWP in a carrier, the UE indicates support of upto4 in bwp-SameNumerology or upto4 in bwp-DiffNumerology. One dormant BWP and one non-dormant BWP are UE specific BWPs even for UEs not supporting bwp-SameNumerology.	ВС	No	N/A	N/A
scellDormancyOutsideActiveTime-r16 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 drx-Adaptation-r16 and shall also support one dormant BWP and at least one non-dormant BWP per carrier. To support more than one non-dormant BWP in a carrier, the UE indicates support of upto4 in bwp-SameNumerology or upto4 in bwp-DiffNumerology. One dormant BWP and one non-dormant BWP are UE specific BWPs even for UEs not supporting bwp-SameNumerology.	BC	No	N/A	N/A

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

simul-SRS-Trans-BC-r16 Indicates the number of SRS resources for positioning on a symbol for a given band combination. The UE can include this field only if the UE supports srs-PosResources-r16. Otherwise, the UE does not include this field;	ВС	No	N/A	N/A
NOTE 1: For single-band band combinations, it defines the capability for intraband CA, and for band combinations with at least two bands, it defines the capability for inter-band carrier aggregation.				
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	ВС	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="" cb="" for="" ncb="" on<="" srs="" switching="" td=""><td></td><td></td><td></td><td></td></y)>				
different CCs in overlapped symbol(s) for inter-band UL CA.				
- supportSRS-xTyR-xEqualToY-r16 indicates support transmission of SRS for				
xTyR (x=y) based antenna switching and SRS for CB/NCB/BM on different				
CCs in overlapped symbol(s) for inter-band UL CA.				
- supportSRS-AntennaSwitching-r16 Indicates whether the UE support				
simultaneous transmission of SRS for antenna switching on different CCs in				
overlapped symbol(s) for inter-band UL CA.				
overlapped symbol(s) for inter-band of GA.				
NOTE: For simultaneously antenna switching and antenna switching SRS in				
inter-band CAs with bands whose UL are switched together according to				
the reported supportSRS-AntennaSwitching-r16, the UE expects the				
same configuration of xTyR across the different CCs and the SRS				
resources overlapped in time domain from UE perspective are from the				
same UE antenna ports.				
simultaneousRxTxInterBandCA	BC	CY	N/A	N/A
Indicates whether the UE supports simultaneous transmission and reception in	20	•	,, .	,, .
TDD-TDD and TDD-FDD inter-band NR CA. If this field is included in ca-				
ParametersNR-ForDC, 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].				
This capability does not apply to the following components within TDD-TDD and				
TDD-FDD inter-band NR-CA or NR-DC combinations:				
- Intra-band NR-CA or NR-DC component				
- Inter-band NR-CA or NR-DC component where the frequency range of one TDD				
band is a subset of the frequency range of the other NR TDD band (as specified in				
TS 38.101-1 [2]).				
10 00.101 1 [2]).				

simultaneousRxTxInterBandCAPerBandPair Indicates whether the UE supports simultaneous transmission and reception in TDD-TDD and TDD-FDD inter-band NR CA for each band pair in the band	ВС	CY	N/A	N/A
combination. Encoded as a bitmap with size L * $(L-1)/2$, and bit N (leftmost bit is indexed as bit 0) is set to "1" if the UE supports simultaneous transmission and reception for band pair (x, y) , where L is the number of band entries in the band combination, x and y are the indices of the band entry in the band combination (the first band entry is				
indexed as 0), $x < y$, and $N = x^*(2^*L - x - 1)/2 + y - x - 1$. If this field is included in <i>ca-ParametersNR-ForDC</i> , each bit of this field indicates				
whether the UE supports simultaneous transmission and reception between each band pair, within a cell group and across MCG and SCG in TDD-TDD and TDD-FDD inter-band NR-DC.				
The UE does not include this field if the UE supports simultaneous transmission and reception for all applicable band pairs in the band combination (in which case simultaneousRxTxInterBandCA is included) or does not support for any band pair in the band combination. It is mandatory for certain band pairs as specified in TS				
38.101-1 [2], TS 38.101-2 [3] and TS 38.101-3 [4]. The UE shall consistently set the bits which correspond to the same band pair.				
simultaneousRxTxSUL Indicates whether the UE supports simultaneous reception and transmission for a NR band combination including SUL. Mandatory/Optional support depends on band	ВС	CY	N/A	N/A
combination and captured in TS 38.101-1 [2].	DO	0)/	NI/A	NI/A
simultaneousRxTxSULPerBandPair 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 simultaneousRxTxInterBandCAPerBandPair.	BC	CY	N/A	N/A
The UE does not include this field if the UE supports simultaneous transmission and reception for all applicable band pairs in the band combination (in which case simultaneousRxTxSUL is included) or does not support for any band pair in the band combination. It is mandatory for certain band pairs as specified in TS 38.101-1				
[2]. The UE shall consistently set the bits which correspond to the same band pair.	DO	NI-	NI/A	NI/A
simultaneousSRS-AssocCSI-RS-AIICC Indicates support of CSI-RS processing framework for SRS and the number of SRS resources that the UE can process simultaneously across all CCs, and across MCG and SCG in case of NR-DC, including periodic, aperiodic and semi-persistent SRS. This parameter may further limit simultaneousSRS-AssocCSI-RS-PerCC in MIMO-ParametersPerBand and Phy-ParametersFRX-Diff for each band in a given band	BC	No	N/A	N/A
combination.	DC	NIa	NI/A	NI/A
singlePUCCH-ConfigForMulticast-r17 Indicates whether the UE supports a PUCCH-Config for multicast HARQ-ACK feedback, separate from that of unicast configurations.	BC	No	N/A	N/A
A UE supporting this feature shall also indicate support of ack-NACK-FeedbackForMulticast-r17 or nack-OnlyFeedbackForMulticast-r17.				
NOTE: With ack-NACK-FeedbackForMulticast-r17 or nack- OnlyFeedbackForMulticast-r17 as prerequisite, this feature includes the case of ACK/NACK for multicast or NACK-only mode1 for multicast.				
stayOnTargetCC-SRS-CarrierSwitch-r17	ВС	No	N/A	N/A
Indicates whether the UE supports staying on the target CC when remaining SRS resource set(s) for SRS carrier switching exists. UE indicating support of this feature shall indicate support of <i>srs-CarrierSwitch</i> .				
NOTE 1: When UE supports this capability, if the time period between the SRS resource sets is smaller than the total required RF switching time to the source CC and back to the target CC and a higher priority UL transmission and/or DL reception is not scheduled on the source CC in the time period between the two SRS resources sets, the UE stays in				
the target CC in the period between the SRS resource sets; otherwise, the UE switches back to the source CC after transmitting each SRS resource set.				
NOTE 2: If the UE does not indicate this capability, the UE switches back to source CC between the SRS resource sets.				

 supportedCSI-RS-ResourceListAlt-r16 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 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 supportedCSI-RS-ResourceListAlt reported in MIMO-ParametersPerBand. 	BC	No	N/A	N/A
SupportedNumberTAG 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.	ВС	CY	N/A	N/A
twoPUCCH-Grp-ConfigurationsList-r16 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: - pucch-GroupMapping-r16 indicates the PUCCH group(s) that a carrier type can be mapped to. - pucch-TX-r16 indicates the PUCCH group(s) that a carrier type can be configured for PUCCH transmission	ВС	No	N/A	N/A
NOTE 1: For a band combination with SUL, the SUL band is counted as one of the bands. NOTE 2: For a band combination with SDL, the SDL band is counted as one of the bands. SDL is indicated as 'FR1-NonSharedFDD' carrier type. Per UE capabilities that are TDD only are not applicable to SDL. NOTE 3: When the carrier type of NUL is indicated for PUCCH 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 diffNumerologyAcrossPUCCH-Group-CarrierTypes-r16, the UE can only be configured with the same SCS across NR PUCCH groups.				
uplinkTxDC-TwoCarrierReport-r16 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 intraband uplink CA with two uplink carriers.	BC	No	N/A	N/A

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
cbgPDSCH-ProcessingType1-DifferentTB-PerSlot-r16 Defines whether the UE capable of processing time capability 1 supports CBG based reception with one or with up to two or with up to four or with up to seven unicast PDSCHs per slot per CC.	FS	No	N/A	N/A
cbgPDSCH-ProcessingType2-DifferentTB-PerSlot-r16 Defines whether the UE capable of processing time capability 2 supports CBG based reception with one or with up to two or with up to four or with up to seven unicast PDSCHs per slot per CC.	FS	No	N/A	N/A
crossCarrierSchedulingProcessing-DiffSCS-r16 Indicates the UE cross carrier scheduling processing capability for DL carrier aggregation processing up to X unicast DCI scheduling for DL per scheduled CC. X is based on pair of (scheduling CC SCS, scheduled CC SCS) where a pair of (15,120), (15,60), (30,120) kHz SCS can have X = {1,2,4} while a pair of (15,30), (30,60), (60,120) kHz SCS can have X = {2}, and X applies per slot of scheduling CC.	FS	No	N/A	N/A
csi-RS-MeasSCellWithoutSSB 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
dI-MCS-TableAlt-DynamicIndication Indicates whether the UE supports dynamic indication of MCS table for PDSCH.	FS	No	N/A	N/A
 dynamicMulticastPCell-r17 Indicates whether the UE supports dynamic scheduling for multicast for PCell comprised of the following functional components: Supports group-common PDCCH/PDSCH for multicast with CRC scrambled by G-RNTI for PCell; Supports CFR configuration for multicast; Supports CORESET and common search space configuration for multicast; Supports DCI format 4_1 with CRC scrambled with G-RNTI for multicast; Supports inter-slot TDM between group-common PDSCH for multicast and other PDSCHs in different slots; Supports {2, 4, 8} times semi-static slot-level repetition for group-common PDSCH for multicast; Supports long DRX cycle for MBS multicast reception as specified in TS 38.321 [8]. NOTE: One G-RNTI per UE is supported for multicast reception. 	FS	No	N/A	N/A
NOTE: One G-RNTI per UE is supported for multicast reception. 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 FeatureSetDownlinkPerCC-Id. 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 FeatureSetDownlinkPerCC-Id 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
intraBandFreqSeparationDL, intraBandFreqSeparationDL-v1620 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 intraBandFreqSeparationDL-v1620 it shall set intraBandFreqSeparationDL (without suffix) to the nearest smaller value.	FS	CY	N/A	FR2 only

IntraBandFreqSeparationDL-Only-r16 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 intraBandFreqSeparationDL. The frequency range extension is either above or below the frequency range indicated by intraBandFreqSeparationDL 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 intraBandFreqSeparationDL and intraBandFreqSeparationDL-Only shall not exceed 2400 MHz. If the UE sets this field, the sum of intraBandFreqSeparationDL and intraBandFreqSeparationDL-Only shall be larger than 1400 MHz.	FS	No	N/A	FR2 only
A UE supporting this feature shall also support intraBandFreqSeparationDL.				
 intraFreqDAPS-r16 Indicates whether UE supports intra-frequency DAPS handover, e.g. support of simultaneous DL reception of PDCCH and PDSCH from source and target cell. A UE indicating this capability shall also support intra-frequency synchronous DAPS handover, single UL transmission and cancelling UL transmission to the source cell for intra-frequency DAPS handover. The capability signalling comprises of the following parameters: 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. 	FS	No	N/A	N/A
mTRP-PDCCH-Repetition-r17	FS	No	N/A	N/A
Indicates the support of intra-slot PDCCH repetition based on two linked SS sets associated with corresponding CORESETs. This feature also includes following parameters: - numBD-twoPDCCH-r17 indicates the number of BDs for the two PDCCH candidates. - maxNumOverlaps-r17 indicates the maximum number of overlaps when one of the linked PDCCH candidates uses the same set of CCEs as an individual (unlinked) PDCCH candidate per scheduled component carrier per slot. NOTE 1: UE supports PDCCH repetition for the following (basic) PDCCH monitoring capability: For type 1 CSS with dedicated RRC configuration, type 3 CSS, and UE-SS, the monitoring occasion is within the first 3 OFDM symbols of a slot. NOTE 2: For maxNumOverlaps-r17, each unique pair of overlaps is counted as one. NOTE 3: This feature does not include supporting two QCL-TypeD in time-domain overlapping CORESETs in FR2.				
 overlapping CORESETS in FR2. mTRP-PDCCH-Case2-1SpanGap-r17 Indicates the support of PDCCH repetition for PDCCH monitoring of any occasions with span gap as defined in pdcch-MonitoringAnyOccasionsWithSpanGap for each SCS with the following parameters: supportedMode-r17 indicates supported mode of PDCCH repetition. limitX-PerCC-r17: limit (X) per CC. limitX-AcrossCC-r17: limit (X) per across all CCs. The limit (X) is the total number of linked candidates of which the first candidate is received and the second one has not been received at any given span, where "received" and "not been received" is with respect to the end of the corresponding span of PDCCH candidate. It is indicated as a total count assuming count 1 for AL=1; 2 for AL=2; 4 for AL=4 or 8 or 16. The UE indicates limitX-PerCC-r17 and limitX-AcrossCC-r17 if supportedMode-r17 is set to inter-span or both. A candidate value "nolimit" does not imply BD limit can be exceeded. The UE indicating support of this feature shall also indicate support of pdcch- 	FS	No	N/A	N/A
MonitoringAnyOccasionsWithSpanGap and mTRP-PDCCH-Repetition-r17.				

 mTRP-PDCCH-legacyMonitoring-r17 Indicates the support of PDCCH repetition with Rel-16 PDCCH monitoring capability as defined in pdcch-Monitoring-r16 for 15kHz and 30kHz SCS with the following parameters: supportedMode-r17 indicates the supported mode of PDCCH repetition. limitX-PerCC-r17 indicates the limit (X) per CC. limitX-AcrossCC-r17 indicates the limit (X) per across all CCs. The limit (X) is the total number of linked candidates of which the first candidate is received and the second one has not been received at any given span, where "received" and "not been received" is with respect to the end of the corresponding span of PDCCH candidate. It is indicated as a total count assuming count 1 for AL=1; 2 for AL=2; 4 for AL=4 or 8 or 16. The UE indicates limitX-PerCC-r17 and limitX-AcrossCC-r17 if supportedMode-r17 is set to inter-span or both. A candidate value "nolimit" does not imply BD limit can be exceeded. The UE indicating support of this feature shall also indicate support of pdcch-Monitoring-r16 and mTRP-PDCCH-Repetition-r17.	FS	No	N/A	N/A
mTRP-PDCCH-multiDCI-multiTRP-r17 Indicates the support of simultaneous configuration of PDCCH repetition and multi-DCI based multi-TRP. Two linked PDCCH candidates are not expected to be associated with different CORESETPoolIndex values The UE indicating support of this feature shall also indicate support of multiDCI-MultiTRP-r16 and mTRP-PDCCH-Repetition-r17.	FS	No	N/A	N/A
oneFL-DMRS-ThreeAdditionalDMRS-DL Defines whether the UE supports DM-RS pattern for DL transmission with 1 symbol front-loaded DM-RS with three additional DM-RS symbols.	FS	No	N/A	N/A
oneFL-DMRS-TwoAdditionalDMRS-DL Defines support of DM-RS pattern for DL transmission with 1 symbol front-loaded DM-RS with 2 additional DM-RS symbols and more than 1 antenna ports.	FS	Yes	N/A	N/A
pdcch-Monitoring-r16 Indicates whether the UE supports PDCCH search space monitoring occasions in any symbol of the slot with minimum time separation between two consecutive transmissions of PDCCH with span up to two OFDM symbols for two OFDM symbols or span up to three OFDM symbols for four and seven OFDM symbols. The different value can be reported for PDSCH processing type 1 and PDSCH processing type 2, respectively. For each sub-carrier spacing, the leading / leftmost bit (bit 0) corresponds to the supported value set (X,Y) of (7,3). The next bit (bit 1) corresponds to the supported value set (X,Y) of (4,3). The rightmost bit (bit 2) corresponds to the supported value set (X,Y) of (2,2).	FS	No	N/A	N/A
pdcch-MonitoringAnyOccasions Defines the supported PDCCH search space monitoring occasions. withoutDCI-gap indicates whether the UE supports PDCCH search space monitoring occasions in any symbol of the slot for Type 1-PDCCH common search space configured by dedicated RRC signalling, for a Type 3-PDCCH common search space, or for a UE-specific search space with the capability of supporting at least 44, 36, 22, and 20 blind decodes in a slot for 15 kHz, 30 kHz, 60kHz, and 120 kHz subcarrier spacing values respectively. withDCI-gap indicates whether the UE supports PDCCH search space monitoring occasions in any symbol of the slot with minimum time separation of two OFDM symbols for 15 kHz, four OFDM symbols for 30 kHz, seven OFDM symbols for 60 kHz with NCP, and 140FDM symbols for 120kHz between two consecutive transmissions of PDCCH scrambled with C-RNTI, MCS-C-RNTI, or CS-RNTI for Type 1-PDCCH common search space configured by dedicated RRC signalling, for a Type 3-PDCCH common search space, or for a UE-specific search space, with the capability of supporting at least 44, 36, 22, and 20 blind decodes in a slot for 15 kHz, 30 kHz, 60kHz, and 120 kHz subcarrier spacing values respectively.	FS	No	N/A	N/A
pdcch-MonitoringAnyOccasionsWithSpanGap Indicates whether the UE supports PDCCH search space monitoring occasions in any symbol of the slot with minimum time separation between two consecutive transmissions of PDCCH with span up to two OFDM symbols for two OFDM symbols or span up to three OFDM symbols for four and seven OFDM symbols. Value set1 indicates the supported value set (X,Y) is (7,3), value set2 indicates the supported value set (X,Y) is (4,3) and (7,3) and value set 3 indicates the supported value set (X,Y) is (2,2), (4,3) and (7,3).	FS	No	N/A	N/A

			N1/A	N1/A
pdcch-MonitoringMixed-r16 Indicates support of Rel-15 monitoring capability and pdcch-Monitoring-r16 on	FS	No	N/A	N/A
different serving cells.				
pdsch-ProcessingType1-DifferentTB-PerSlot	FS	No	N/A	N/A
Defines whether the UE capable of processing time capability 1 supports reception			,	
of up to two, four or seven unicast PDSCHs for several transport blocks with				
PDSCH scrambled using C-RNTI, TC-RNTI, MCS-C-RNTI or CS-RNTI in one				
serving cell within the same slot per CC that are multiplexed in time domain only.				
NOTE: PDSCH(s) for Msg.4 is included.				
pdsch-ProcessingType2	FS	No	N/A	FR1
Indicates whether the UE supports PDSCH processing capability 2. The UE				only
supports it only if all serving cells are self-scheduled and if all serving cells in one				
band on which the network configured processingType2 use the same subcarrier				
spacing. This capability signalling comprises the following parameters for each sub-				
carrier spacing supported by the UE.				
- fallback indicates whether the UE supports PDSCH processing capability 2				
when the number of configured carriers is larger than <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;				
supports only supusmity 1, in the same inforcing value to repertua,				
 differentTB-PerSlot indicates whether the UE supports processing type 2 for 				
1, 2, 4 and/or 7 unicast PDSCHs for different transport blocks per slot per				
CC; and if so, it indicates up to which number of CA serving cells the UE				
supports that number of unicast PDSCHs for different TBs. The UE shall				
include at least one of <i>numberOfCarriers</i> for 1, 2, 4 or 7 transport blocks per				
slot in this field if <i>pdsch-ProcessingType2</i> is indicated.				
pdsch-ProcessingType2-Limited	FS	No	N/A	FR1
Indicates whether the UE supports PDSCH processing capability 2 with scheduling				only
limitation for SCS 30kHz. This capability signalling comprises the following				-
parameter.				
- differentTB-PerSlot-SCS-30kHz indicates the number of different TBs per				
slot.				
The UE supports this limited processing capability 2 only if:				
1) One carrier is configured in the band, independent of the number of carriers				
configured in the other bands;				
2) The maximum bandwidth of PDSCH is 136 PRBs;				
3) N1 based on Table 5.3-2 of TS 38.214 [12] for SCS 30 kHz.				
pdsch-SeparationWithGap	FS	No	N/A	N/A
Indicates whether the UE supports separation of two unicast PDSCHs with a gap,				
applicable to Sub-carrier spacings of 30 kHz and 60 kHz only. For any two				
consecutive slots n and n+1, if there are more than 1 unicast PDSCH in either slot,				
the minimum time separation between starting time of any two unicast PDSCHs				
within the duration of these slots is 4 OFDM symbols for 30kHz and 7 OFDM				
symbols for 60kHz. prs-AsSpatialRelationRS-For-SRS-r17	FS	No	N/A	FR2
Indicates whether the UE supports PRS as spatial relation RS for SRS.	୮۵	INO	IN/A	only
A UE supporting this feature shall also indicate support of <i>rtt-BasedPDC-PRS-r17</i> .				Jilly
rtt-BasedPDC-CSI-RS-ForTracking-r17	FS	No	N/A	N/A
Indicates whether the UE supports RTT-based propagation delay compensation for		10	13//1	'*/'
time synchronization of the Uu interface based on CSI-RS for tracking and SRS.				
A UE supporting this feature shall also indicate support of csi-RS-ForTracking and				
supportedSRS-Resources.				
• •				

 rtt-BasedPDC-PRS-r17 Indicates whether the UE supports RTT-based Propagation delay compensation for time synchronization of the Uu interface based on DL PRS and SRS. The capability signalling comprises the following parameters: maxNumberPRS-Resource-r17 indicates the maximum number of DL PRS Resources in DL PRS Resource Set for PDC, with value n16, n32, and n64 only applicable to FR2 bands. 	FS	No	N/A	N/A
 maxNumberPRS-ResourceProcessedPerSlot-r17 indicates the maximum number of DL PRS resources that UE can process in a slot. 				
A UE supporting this feature shall also indicate support of <i>supportedSRS-Resources</i> .				
Indicates the scaling factor to be applied to the serving cell in the max data rate calculation when <i>mcs-Table-r17</i> and <i>mcs-TableDCI-1-2-r17</i> are not configured for the serving cell as defined in 4.1.2. Value f0p4 indicates the scaling factor 0.4, f0p75 indicates 0.75, and so on. If absent, the scaling factor 1 is applied to the band in the max data rate calculation.	FS	No	N/A	N/A
scalingFactor-1024QAM-FR1-r17 Indicates the scaling factor to be applied to the serving cell in the max data rate calculation when mcs-Table-r17 or mcs-TableDCI-1-2-r17 is configured for the serving cell as defined in 4.1.2 when support of 1024-QAM for PDSCH is signalled for the band. Value f0p4 indicates the scaling factor 0.4, f0p75 indicates 0.75, and so on. If absent, the scaling factor 1 is applied to the band in the max data rate calculation. UE indicating support of this feature shall also indicate support of pdsch-1024QAM-FR1-r17 or pdsch-1024QAM-2MIMO-FR1-r17 to the band.	FS	No	N/A	FR1 only
scellWithoutSSB Defines whether the UE supports configuration of SCell that does not transmit SS/PBCH block. This is conditionally mandatory with capability signalling for intraband CA but not supported for inter-band CA.	FS	CY	N/A	N/A
searchSpaceSharingCA-DL Defines whether the UE supports DL PDCCH search space sharing for carrier aggregation operation.	FS	No	N/A	N/A
sfn-SchemeA-r17 Indicates whether the UE supports SFN scheme A for PDCCH scheduling SFN Scheme A PDSCH.	FS	No	N/A	N/A
sfn-SchemeA-DynamicSwitching-r17 Indicates whether the UE supports dynamic switching between single-TRP and PDSCH SFN scheme A by TCI state field in DCI formats 1_1 and 1_2. The UE supporting this feature shall indicate sfn-SchemeA-r17 or sfn-SchemeA-PDSCH-only-r17.	FS	No	N/A	N/A
sfn-SchemeA-PDCCH-only-r17 Indicates whether the UE supports SFN scheme A for PDCCH scheduling single TRP for PDSCH.	FS	No	N/A	N/A
sfn-SchemeA-PDSCH-only-r17 Indicates whether the UE supports SFN scheme A for PDSCH scheduled by single TRP PDCCH.	FS	No	N/A	N/A
sfn-SchemeB-r17 Indicates whether the UE supports SFN scheme B for PDCCH scheduling SFN Scheme B PDSCH.	FS	No	N/A	N/A
sfn-SchemeB-DynamicSwitching-r17 Indicates whether the UE supports dynamic switching between single-TRP and PDSCH SFN scheme B by TCI state field in DCI formats 1_1 and 1_2. The UE supporting this feature shall indicate sfn-schemeB-r17 or sfn-schemeB-PDSCH-only-r17.	FS	No	N/A	N/A
sfn-SchemeB-PDSCH-only-r17 Indicates whether the UE supports SFN scheme B for PDSCH scheduled by single TRP PDCCH.	FS	No	N/A	N/A
singleDCI-SDM-scheme-r16 Indicates whether the UE supports single DCI based spatial division multiplexing scheme.	FS	No	N/A	N/A

FS	No	N/A	N/A
FS	FD	N/A	N/A
FS	Yes	N/A	FR2
			only
FS	No	N/A	N/A
		,, \	. 47.1
FQ	Vec	NI/A	FR2
13	169	13/71	only
FS	No	N/A	N/A
	FS	FS FD FS Yes FS Yes	FS FD N/A FS Yes N/A FS Yes N/A

4.2.7.6 FeatureSetDownlinkPerCC parameters

Definitions for parameters	Per	M	FDD- TDD DIFF	FR1- FR2 DIFF
broadcastSCell-r17 Indicates whether the UE supports MBS reception via broadcast in RRC_CONNECTED, on one frequency indicated in an MBSInterestIndication 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				
channelBW-90mhz 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
dci-BroadcastWith16Repetitions-r17 Indicates whether the UE supports up to 16 times dynamic slot-level repetition for broadcast MTCH.	FSPC	No	No	No
Indicates whether the UE supports overlapping PDSCH reception that one unicast PDSCH and one group-common PDSCH for broadcast in RRC CONNECTED in a slot are partially or fully overlapping in time domain and non-overlapping in frequency domain.	FSPC	No	N/A	N/A
A UE supporting this feature shall also support broadcast reception as specified in clause 5.10.				
fdm-MulticastUnicast-r17 Indicates whether the UE supports overlapping PDSCH reception that one dynamically scheduled unicast PDSCH and one dynamically scheduled groupcommon PDSCH for multicast in RRC CONNECTED in a slot are partially or fully overlapping in time domain and non-overlapping in frequency domain. A UE supporting this feature shall also indicate support of dynamicMulticastPCell-r17, or at least one of {ack-NACK-FeedbackForSPS-Multicast-r17, nack-OnlyFeedbackForSPS-Multicast-r17}.	FSPC	No	N/A	N/A
NOTE: The UE supporting this feature is not required to support FDMed SPS.				
intraSlotTDM-UnicastGroupCommonPDSCH-r17 Indicates whether the UE supports Intra-slot TDM-ed unicast PDSCH and group-common PDSCH. The value indicates that for any two consecutive slots n and n+1, if there are more than 1 broadcast/multicast/unicast PDSCH in either slot, whether to require the minimum time separation (4 OFDM symbols for 30kHz and 7 OFDM symbols for 60kHz) between starting time of any two broadcast/multicast/unicast PDSCHs within the duration of these slots.	FSPC	No	N/A	N/A
 This feature includes the following functional components: Supports TDM between one unicast PDSCH and one group-common PDSCH in a slot; Support TDM between M (M>1) TDMed unicast PDSCHs and one group-common PDSCH in a slot per CC; Support TDM among N (N>1) group-common PDSCHs in a slot per CC; Support TDM between K (K>1) TDMed unicast PDSCHs and L (L>1) TDMed group-common PDSCHs in a slot per CC; 				
 The UE maximum number of TDMed PDSCH receptions capability in a slot per CC is kept based on <i>pdsch-ProcessingType1-DifferentTB-PerSlot</i>; Up to one broadcast PDSCH is supported in a slot. A UE supporting this feature shall support broadcast reception as specified in				
clause 5.10 and/or indicate support of <i>dynamicMulticastPCell-r17</i> , and shall indicate support of <i>pdsch-ProcessingType1-DifferentTB-PerSlot</i> .				
NOTE1: Group-common PDSCH(s) are counted as unicast PDSCH(s). NOTE2: The max number of (M+1), N, (K+L) are determined based on the numbers reported by pdsch-ProcessingType1-DifferentTB-PerSlot.				

 supportedCRS-InterfMitigation-r17 Indicates whether the UE supports CRS interference mitigation (CRS-IM) in both DSS and non-DSS scenarios with overlapping spectrum for LTE and NR, which is defined in TS 38.101-4 [18]. The capability signalling contains the following: crs-IM-DSS-15kHzSCS-r17 indicates whether the UE supports neighboring LTE cell CRS-IM in DSS scenario with NR 15 kHz SCS. UE can indicate support of this capability on the CC(s) in a band only if the UE indicates support of rateMatchingLTE-CRS on that band. crs-IM-nonDSS-15kHzSCS-r17 indicates whether the UE supports neighboring LTE cell CRS-IM in non-DSS and 15 kHz NR SCS scenario, without the assistance of network signalling on LTE channel bandwidth. crs-IM-nonDSS-NWA-15kHzSCS-r17 indicates whether the UE supports neighboring LTE cell CRS-IM in non-DSS and 15 kHz NR SCS scenario, with the assistance of network signalling on LTE channel bandwidth. crs-IM-nonDSS-30kHzSCS-r17 indicates whether the UE supports neighboring LTE cell CRS-IM in non-DSS and 30 kHz NR SCS scenario, without the assistance of network signalling on LTE channel bandwidth. crs-IM-nonDSS-NWA-30kHzSCS-r17 indicates whether the UE supports neighboring LTE cell CRS-IM in non-DSS and 30 kHz NR SCS scenario, with the assistance of network signalling on LTE channel bandwidth. crs-IM-nonDSS-NWA-30kHzSCS-r17 indicates whether the UE supports neighboring LTE cell CRS-IM in non-DSS and 30 kHz NR SCS scenario, with the assistance of network signalling on LTE channel bandwidth. For the UE supporting the capability of crs-IM-nonDSS-15kHzSCS-r17, the UE can perform CRS-IM without the assistant configuration information of neighbour LTE cells when RateMatchPatternLTE-CRS is configured for the serving cell, and if MeasObjectEUTRA is configured, the configured measurement gaps overlap with neighbour LTE cell PBCH position and Ite-NeighCellsCRS-Assumptions-r17 is not configured.<!--</td--><td>FSPC</td><td>No</td><td>No</td><td>FR1 only</td>	FSPC	No	No	FR1 only
dynamicMulticastSCell-r17 Indicates whether the UE supports to receive group-common PDCCH/PDSCH with CRC scrambled by G-RNTI for SCell on one frequency, when an SCell is configured and activated on that frequency, as specified in TS 38.331 [9]. A UE supporting this feature shall also indicate support of dynamicMulticastPCell-r17. NOTE: UE is not expected to be configured simultaneously with more than one	FSPC	No	N/A	N/A
component carrier for multicast reception.	5000		N1/A	N 1/0
 maxModulationOrderForMulticastDataRateCalculation-r17 Defines the maximum modulation order used for maximum data rate calculation for multicast PDSCH. For FR1, up to 1024QAM is supported as maximum modulation order used for maximum data rate calculation for multicast PDSCH, with candidate values {qam256, qam1024}. For FR2, up to 256QAM is supported as maximum modulation order used for maximum data rate calculation for multicast PDSCH, with candidate values {qam64, qam256}. A UE supporting this feature shall also indicate support of dynamicMulticastPCell-r17. 	FSPC	No	N/A	N/A

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 signalling to support at least 4 MIMO layers in the bands where 4Rx is specified as mandatory for the given UE and at least 2 MIMO layers in FR2. If absent, the UE does not support MIMO on this carrier. For the bands where pdsch-1024QAM-2MIMO-FR1-r17 is indicated, MIMO layers for 1024 QAM is the smaller value between 2 and maxNumberMIMO-LayersPDSCH.	FSPC	CY	N/A	N/A
maxNumberMIMO-LayersMulticastPDSCH-r17 Defines the maximum number of spatial multiplexing layer(s) supported by the UE for multicast PDSCH. If not reported, UE supports 1 MIMO layer only for multicast PDSCH.	FSPC	No	N/A	N/A
A UE supporting this feature shall also indicate support of <i>dynamicMulticastPCell-r17</i> .				
NOTE: If the UE supports up to 8 layers, the UE supports second TB (TB2).	FODO	NI-	N1/A	N1/A
 multiDCI-MultiTRP-r16 Indicates whether the UE supports multi-DCI based multi-TRP PDSCH/PUSCH operation and support of fully/partially overlapping PDSCHs in time and non-overlapping in frequency. This capability applies only to BWPs where two values of coresetPoolIndex are configured. The capability signalling contains the following: maxNumberCORESET-r16 indicates maximum number of CORESETs configured per BWP per cell in addition to CORESET 0 for multi-DCI based multi-TRP PDSCH/PUSCH operation. maxNumberCORESETPerPoolIndex-r16 indicates maximum number of CORESETs configured per coresetPoolIndex per BWP per cell in addition to CORESET 0 for multi-DCI based multi-TRP PDSCH/PUSCH operation. maxNumberUnicastPDSCH-PerPool-r16 indicates maximum number of unicast PDSCHs per coresetPoolIndex per slot. 	FSPC	No	N/A	N/A
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 CORESET#0, and supports maximal N1 CORESETs if there is no CORESET#0. NOTE 4: If UE reports value N2 for <i>maxNumberCORESETPerPoolIndex-r16</i> , that means UE supports up to min (N2+1, 3) CORESETs in total (including CORESET#0) for a TRP if there is CORESET#0, and supports maximal N2 CORESETs for another TRP if there is no CORESET#0. NOTE 5: For the multi-DCI based multi-TRP PUSCH operation, the maximum				
number of unicast PUSCHs that UE can support per slot is based on pusch-ProcessingType1-DifferentTB-PerSlot, and it is counted across				
both coresetPoolIndex of TRPs.				
sps-MulticastSCell-r17 Indicates whether the UE supports one SPS group-common PDSCH configuration for multicast for SCell, comprised of the following functional components:	FSPC	No	N/A	N/A
 Supports one SPS group-common PDSCH configuration for multicast for SCell; Supports {2, 4, 8} times semi-static slot-level repetition for SPS group-common PDSCH for SCell; Supports group-common PDCCH/PDSCH with CRC scrambled by G-CS-RNTI(s) for multicast; Supports DCI format 4_1 with CRC scrambled with G-CS-RNTI for multicast; Supports ACK/NACK-based HARQ-ACK feedback for SPS release associated with G-CS-RNTI. A UE supporting this feature shall also indicate support of sps-Multicast-r17 and dynamicMulticastSCell-r17.				

sps-MulticastSCellMultiConfig-r17	FSPC	No	N/A	N/A
Indicates whether the UE supports up to 8 SPS group-common PDSCH				
configurations per CFR for multicast for SCell. The value indicates the maximum				
number of activated SPS group-common PDSCH configurations per CFR for				
multicast for SCell.				
The total number of SPS configurations for both multicast and unicast is no larger				
than 8 in a BWP of a serving cell. The total number of SPS configurations for both				
multicast and unicast in a cell group is no larger than 32.				
A UE supporting this feature shall also indicate support of sps-MulticastSCell-r17.				
supportedBandwidthDL, supportedBandwidthDL-v1710	FSPC	CY	N/A	N/A
Indicates maximum DL channel bandwidth supported for a given SCS that UE				
supports within a single CC (and in case of DAPS handover for the source or target				
cell), which is defined in Table 5.3.5-1 in TS 38.101-1 [2] for FR1 and Table 5.3.5-1				
in TS 38.101-2 [3] for FR2.				
For FR1, all the bandwidths listed in TS38.101-1 Table 5.3.5-1 for each band shall				
be mandatory with a single CC unless indicated optional. For FR2, the set of				
mandatory CBW is 50, 100, 200 MHz. When this field is included in a band				
combination with a single band entry and a single CC entry (i.e. non-CA band				
combination), the UE shall indicate the maximum channel bandwidth for the band				
according to TS 38.101-1 [2] and TS 38.101-2 [3]. For FR2,				
supportedBandwidthDL-v1710 is included if the maximum DL channel bandwidth				
supported by the UE within a single CC is greater than 400MHz. When the				
supportedBandwidthDL and the supportedBandwidthDL-v1710 are reported				
together for a CC, the network which is able to decode the <i>supportedBandwidthDL</i> -				
v1710 ignores the supportedBandwidthDL.				
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-90mhz, the supportedBandwidthCombinationSet and the				
supportedBandwidthCombinationSetIntraENDC. To determine whether				
the UE supports a channel bandwidth of 400 MHz, the network validates				
this capability, the supportedBandwidthCombinationSet, and the				
supportedBandwidthCombinationSetIntraENDC. For serving cell(s) with				
other channel bandwidths the network validates the <i>channelBWs-DL</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]),				
supportedBandwidthDL/supportedBandwidthDL-v1710 and				
supportedMinBandwidthDL. supportedMinBandwidthDL-r17	FSPC	CY	N/A	N/A
Indicates minimum DL channel bandwidth supported for a given SCS that UE	FSPC	CY	IN/A	IN/A
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).				
comigates for a origin do (no. non or caso).		L	l	

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-1024QAM-FR1-r17 or pdsch-1024QAM-2MIMO-FR1-r17 when pdsch-1024QAM-FR1-r17 or pdsch-1024QAM-2MIMO-FR1-r17 is signalled for the band, otherwise the network uses the modulation order signalled in pdsch-256QAM-FR1. The network uses the modulation order 64QAM if pdsch-256QAM-FR1 is not signalled for the band for RedCap UE. - for FR2, the network uses the modulation order signalled per band i.e. pdsch-256QAM-FR2 if signalled. If not signalled in a given band, the network shall use the modulation order 64QAM. In all the cases, it shall be ensured that the data rate does not exceed the max data rate (DataRate) and max data rate per CC (DataRateCC) according to TS 38.214 [12].	FSPC	No	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 supports simultaneous reception with same or different numerologies in CA. Support of simultaneous reception with same numerology for intra-band NR CA including both contiguous and non-contiguous is mandatory with capability in both FR1 and FR2. Support of simultaneous reception with two different numerologies between FR1 band(s) and FR2 band(s) in DL is mandatory with capability if UE supports inter-band NR CA including both FR1 band(s) and FR2 band(s). Optional for other cases. Support of simultaneous reception of with different numerologies in CA for other cases is optional.	FSPC	CY	N/A	N/A
supportFDM-SchemeB-r16 Indicates whether UE supports single DCI based FDMSchemeB.	FSPC	No	N/A	N/A

4.2.7.7 FeatureSetUplink parameters

Definitions for parameters	Per	М	FDD- TDD DIFF	FR1- FR2 DIFF
scalingFactor Indicates the scaling factor to be applied to the band in the max data rate calculation as defined in 4.1.2. Value f0p4 indicates the scaling factor 0.4, f0p75 indicates 0.75, and so on. If absent, the scaling factor 1 is applied to the band in the max data rate calculation.	FS	No	N/A	N/A
cbgPUSCH-ProcessingType1-DifferentTB-PerSlot-r16 Defines whether the UE capable of processing time capability 1 supports CBG based transmission with one or with up to two or with up to four or with up to seven unicast PUSCHs per slot per CC.	FS	No	N/A	N/A
cbgPUSCH-ProcessingType2-DifferentTB-PerSlot-r16 Defines whether the UE capable of processing time capability 2 supports CBG based transmission with one or with up to two or with up to four or with up to seven unicast PUSCHs per slot per CC.	FS	No	N/A	N/A
crossCarrierSchedulingProcessing-DiffSCS-r16 Indicates the UE cross carrier scheduling processing capability for UL carrier aggregation processing up to X unicast DCI scheduling for UL per scheduled CC. X is based on pair of (scheduling CC SCS, scheduled CC SCS) where a pair of (15,120), (15,60), (30,120) kHz SCS can have X = {1,2,4} while a pair of (15,30), (30,60), (60,120) kHz SCS can have X = {2}, and X applies per slot of scheduling CC.	FS	No	N/A	N/A
dynamicSwitchSUL Indicates whether the UE supports supplemental uplink with dynamic switch (DCI based selection of PUSCH carrier). The UE supports this among a carrier on a band X and a band Y if it sets this capability parameter for both band X and band Y.	FS	No	N/A	N/A
extendedDC-LocationReport-r17 Indicates whether the UE supports extended DC location reporting (based on indicated default DC location) for at least 2 UL CCs in one band. A UE that supports this feature also supports extended DC location reporting for 1 UL CC in one band.	FS	No	N/A	N/A
featureSetListPerUplinkCC Indicates which features the UE supports on the individual UL carriers of the feature set (and hence of a band entry that refer to the feature set) by FeatureSetUplinkPerCC-Id. 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 FeatureSetUplinkPerCC-Id in this list. A fallback per CC feature set resulting from the reported feature set per UL CC is not signalled but the UE shall support it.	FS	N/A	N/A	N/A
 interSubslotFreqHopping-PUCCH-r17 Indicates whether the UE supports inter-subslot frequency hopping for PUCCH repetitions comprised of the following functional components: Inter-subslot frequency hopping for PUCCH repetition operation of PUCCH Formats 0, 1, 2, 3 and 4 for 7OS slot-based PUCCH configurations; Inter-subslot frequency hopping for PUCCH repetition operation of PUCCH Format 0 and Format 2 for 2OS slot-based PUCCH configurations. The UE indicating support of this feature shall also indicate the support of pucch- 	FS	No	N/A	N/A
Repetition-F0-1-2-3-4-RRC-Config-r17. intraBandFreqSeparationUL, intraBandFreqSeparationUL-v1620 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 intraBandFreqSeparationUL-v1620 it shall set intraBandFreqSeparationUL (without suffix) to the nearest smaller value.	FS	СҮ	N/A	FR2 only
intraFreqDAPS-UL-r16 Indicates whether UE supports enhanced uplink capabilities for intra-frequency DAPS handover. The UE only includes this capability signalling if intraFreqDAPS-r16 is included in the FeatureSetDownlink for the same FeatureSet. The capability signalling comprises of the following parameter:	FS	No	N/A	N/A
 intraFreqTwoTAGs-DAPS-r16 indicates whether the UE supports different timing advance groups in source PCell and intra-frequency target PCell. It is mandatory with capability signalling. 				

mTRP-PUCCH-IntraSlot-r17				
Indicates whether the UE supports PUCCH repetition scheme 3 (intra-slot repetition) with sequential mapping for repetitions larger than 2 and cyclic mapping for 2 repetitions by indicating the supported PUCCH formats for this scheme. The UE indicating this feature shall also support up to two PUCCH power control parameter sets/spatial relation info per PUCCH resource. Power control parameter sets feature is applicable to FR1 only (without spatial	FS	No	N/A	N/A
relation info) and spatial relation info is applicable to FR2 only.				
mTRP-PUSCH-TypeA-CB-r17 Indicates the support of multi-TRP PUSCH repetition based on codebook with PUSCH repetition type A. The value indicates the supported number of SRS resources in one SRS resource set.	FS	No	N/A	N/A
This feature includes the following features: - sequential mapping for repetitions larger than 2 cyclic mapping for 2 repetitions two SRS resource sets with usage set to 'codebook'.				
The UE indicating support of this feature shall also indicate the support of <i>mimo-CB PUSCH</i> . If the value of supported number of SRS resources is 4 then the UE shall also indicate support of <i>ul-FullPwrMode2-MaxSRS-ResInSet</i> set to n4.				
mTRP-PUSCH-RepetitionTypeA-r17 Indicates whether the UE supports multi-TRP PUSCH repetition for non-codebook based PUSCH repetition type A with sequential mapping for repetitions larger than 2 and cyclic mapping for 2 repetitions by indicating the supported number of SRS resources in one SRS resource set. The UE indicating this feature shall also support two SRS resource sets with usage set to 'nonCodebook'. The UE indicating this feature shall indicate support of maxNumberMIMO-LayersNonCB-PUSCH and mimo-NonCB-PUSCH.	FS	No	N/A	N/A
multiPUCCH-r16 Indicates whether the UE supports more than one PUCCH for HARQ-ACK transmission within a slot. This field includes the following parameters: - sub-SlotConfig-NCP-r16 indicates the sub-slot configuration for NCP;	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.				
mux-SR-HARQ-ACK-r16 Indicates whether the UE supports SR/HARQ-ACK multiplexing once per subslot using a PUCCH (or HARQ-ACK piggybacked on a PUSCH) when SR/HARQ-ACK are supposed to be sent with different starting symbols in a subslot.	FS	No	N/A	N/A
offsetSRS-CB-PUSCH-Ant-Switch-fr1-r16 Indicates whether UE requires minimum of 19 symbols offset between aperiodic SRS triggering and transmission for SRS for codebook based PUSCH and antenna switching.	FS	No	N/A	FR1 only
UE indicating support of this shall indicate support of <i>supportedSRS-Resources</i> . offsetSRS-CB-PUSCH-PDCCH-MonitorSingleOcc-fr1-r16	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.				only
		ļ	N1/A	ED4
UE indicating support of this shall indicate support of supportedSRS-Resources.	FS	No	N/A	FR1 only
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 configured by dedicated RRC signalling, for a Type 3-PDCCH common search space, or for a UE-specific search space with the capability of supporting at least 44, 36, 22, and 20 blind decodes in a slot for 15 kHz, 30 kHz, 60kHz, and 120 kHz subcarrier spacing values respectively.				

offsetSRS-CB-PUSCH-PDCCH-MonitorAnyOccWithGap-fr1-r16 Indicates whether UE requires minimum of 19 symbols offset between aperiodic SRS triggering and transmission for SRS for codebook based PUSCH and antenna switching for the case of PDCCH search space monitoring occasions in any symbol of the slot with minimum time separation of two OFDM symbols for 15 kHz, four OFDM symbols for 30 kHz, seven OFDM symbols for 60 kHz with NCP, and 14OFDM symbols for 120kHz between two consecutive transmissions of PDCCH scrambled with C-RNTI, MCS-C-RNTI, or CS-RNTI for Type 1-PDCCH common search space configured by dedicated RRC signalling, for a Type 3-PDCCH common search space, or for a UE-specific search space, with the capability of supporting at least 44, 36, 22, and 20 blind decodes in a slot for 15 kHz, 30 kHz, 60kHz, and 120 kHz subcarrier spacing values respectively.	FS	No	N/A	FR1 only
UE indicating support of this shall indicate support of pdcch- MonitoringAnyOccasions with value withDCl-Gap and supportedSRS-Resources.				
offsetSRS-CB-PUSCH-PDCCH-MonitorAnyOccWithSpanGap-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 with minimum time separation between two consecutive transmissions of PDCCH with span up to two OFDM symbols for two OFDM symbols or span up to three OFDM symbols for four and seven OFDM symbols. Value set1 indicates the supported value set (X,Y) is (7,3), value set2 indicates the supported value set (X,Y) is (4,3) and (7,3) and value set 3 indicates the supported value set (X,Y) is (2,2), (4,3) and (7,3). UE indicating support of this shall indicate support of supportedSRS-Resources.	. 0	140	1477	only
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.			<u></u>	
 partialCancellationPUCCH-PUSCH-PRACH-TX-r16 Indicates whether UE supports the partial cancellation of the configured PUCCH or PUSCH or PRACH transmission in set of symbols of a slot due to: Detection of a DCI format 2_0 with a slot format value other than 255 that indicates a slot format with a subset of symbols from the set of symbols as downlink or flexible; DCI format 2_0 being configured but not detected, when either a subset of symbols from the set of symbols are indicated as flexible by tdd-UL-DL-ConfigurationCommon, and tdd-UL-DL-ConfigurationDedicated if provided, or tdd-UL-DL-ConfigurationCommon and tdd-UL-DL-ConfigurationDedicated are not provided to the UE; Detection of a DCI format 1_0, DCI format 1_1, DCI format 1_2 or DCI format 0_1 and DCI format 0_2 indicating to the UE to receive CSI-RS or PDSCH in a subset of symbols from the set of symbols. 	FS	No	N/A	N/A

phy-PrioritizationHighPriorityDG-LowPriorityCG-r17	FS	No	N/A	N/A
Indicates whether the UE supports PHY prioritization of overlapping high-priority				
DG-PUSCH and low-priority CG-PUSCH comprised of the following functional				
components:				
- PHY prioritization of overlapping high-priority dynamic grant PUSCH and				
low-priority configured grant PUSCH on a BWP of a serving cell;				
- Configuration of PHY priority level for CG PUSCH, and dynamic indication of				
priority level for dynamic PUSCH with a single DCI format.				
The capability signalling comprises the following parameters:				
- pusch-PreparationLowPriority-r17 indicates additional number of symbols				
(d1) needed beyond the PUSCH preparation time for cancelling a low priority				
UL transmission;				
- additionalCancellationTime-r17 indicates additional number of symbols (d3)				
needed on top of Rel-16 cancellation time (which results N2+d1+d3 in total				
cancellation time);				
- maxNumberCarriers-r17 indicates maximum number of supported carriers				
on the band across a set of contiguous carriers for the reported FS of that				
band.				
The value sym0 denotes 0 symbol, sym1 denotes one symbol, and so on.				
phy-PrioritizationLowPriorityDG-HighPriorityCG-r17	FS	No	N/A	N/A
Indicates whether the UE supports PHY prioritization of overlapping low-priority DG-				
PUSCH and high-priority CG-PUSCH comprised of the following functional				
components:				
- PHY prioritization for the case where low-priority DG-PUSCH collides with				
high-priority CG-PUSCH;				
 Configuration of PHY priority level for CG PUSCH, and dynamic indication of priority level for dynamic PUSCH with a single DCI format. 				
phonty level for dynamic POSOH with a single DCI format.				
The value indicates maximum number of supported carriers on the band across a				
set of contiguous carriers for the reported FS of that band.				
pucch-Repetition-F0-1-2-3-4-DynamicIndication-r17	FS	No	N/A	N/A
Indicates whether the UE supports repetitions for PUCCH format 0, 1, 2, 3 and 4				
over multiple PUCCH subslots based on dynamic repetition indication.				
The UE indicating support of this feature shall also indicate the support of pucch-				
Repetition-F0-1-2-3-4-RRC-Config-r17.				
NOTE: Dynamic DIJCCH repetition factor indication is only supported for UADO				
NOTE: Dynamic PUCCH repetition factor indication is only supported for HARQ-ACK.				
pucch-Repetition-F0-1-2-3-4-RRC-Config-r17	FS	No	N/A	N/A
Indicates whether the UE supports repetitions for PUCCH format 0, 1, 2, 3 and 4	. 0		,, .	',''
over multiple PUCCH subslots with RRC configured repetition factor K = 2, 4, 8.				
A UE supporting this feature shall also indicate support of <i>pucch-Repetition-F1-3-4</i>				
and multiPUCCH-r16.				
NOTE TO A COLUMN TO THE COLUMN				
NOTE: The support of this feature doesn't imply an increase of the maximum				
number of PUCCHs per slot that supported by the UE.		.	N1/A	N1/A
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.				

			11/1	ED 4
 pusch-ProcessingType2 Indicates whether the UE supports PUSCH processing capability 2. The UE supports it only if all serving cells are self-scheduled and if all serving cells in one band on which the network configured processingType2 use the same subcarrier spacing. This capability signalling comprises the following parameters for each subcarrier spacing supported by the UE. fallback indicates whether the UE supports PUSCH processing capability 2 when the number of configured carriers is larger than numberOfCarriers for a reported value of differentTB-PerSlot. If fallback = 'sc', UE supports capability 2 processing time on lowest cell index among the configured carriers in the band where the value is reported, if fallback = 'cap1-only', UE supports only capability 1, in the band where the value is reported; 	FS	No	N/A	FR1 only
 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. 				
pusch-RepetitionTypeB-r16, pusch-RepetitionTypeB-v16d0 Indicates whether the UE supports PUSCH repetition type B, as specified in 6.1.2 of TS 38.214 [12]. The maxNumberPUSCH-Tx-r16 in pusch-RepetitionTypeB-r16 indicates the supported maximum number of PUSCH transmissions within a slot for all TB(s) for processing capability 1 if pusch-ProcessingType2 is not included, or for both processing capability 1 and processing capability 2 if pusch-ProcessingType2 is included. The maxNumberPUSCH-Tx-Cap1-r16 and maxNumberPUSCH-Tx-Cap2-r16 in pusch-RepetitionTypeB-v16d0 are for processing capability 1 and processing capability 2 separately, which are only included when different values are supported for the processing capabilities. The maxNumberPUSCH-Tx-r16 will be ignored by the network if the pusch-RepetitionTypeB-v16d0 is included.	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 aggregation operation.	FS	No	N/A	N/A
semiStaticHARQ-ACK-CodebookSub-SlotPUCCH-r17 Indicates whether the UE supports Semi-static (Type 1) HARQ-ACK codebook for sub-slot based PUCCH configuration. A UE supporting this feature shall also indicate support of semiStaticHARQ-ACK-Codebook and multiPUCCH-r16.	FS	No	N/A	N/A
simultaneous TxSUL-NonSUL Indicates whether the UE supports simultaneous transmission of SRS on an SUL/non-SUL carrier and PUSCH/PUCCH/SRS on the other UL carrier in the same cell. The UE supports simultaneous transmission on an SUL band X and a Non-SUL band Y if it sets this capability parameter for both band X and band Y.	FS	No	N/A	N/A
srs-AntennaSwitching2SP-1Periodic-r17 Indicates whether the UE supports maximum 2 SP SRS resource sets and maximum 1 periodic SRS resource set for antenna switching. The UE indicating support of this shall indicate support of supportedSRS-Resources.	FS	No	N/A	N/A
NOTE: - Applies for all supported xTyR where y<=8 - For xTyR where y>4, if UE does not support this feature, UE supports maximum one SRS resource set for periodic SRS and maximum one SRS resource set for semi-persistent SRS - For xTyR where y<=4, if UE does not support this feature, UE follows Rel-15 on the number of resource sets for periodic and semi-persistent SRS The two SP-SRS resource sets are not activated at the same time.				

srs-ExtensionAperiodicSRS-r17	FS	No	N/A	N/A
Indicates whether the UE supports 4 aperiodic SRS resource sets for 1T4R and 2				
aperiodic resource sets for 1T2R/2T4R.				
The UE indicating support of this shall indicate support of srs-TxSwitch and				
supportedSRS-Resources.				
srs-OneAP-SRS-r17	FS	No	N/A	N/A
Indicates the support of 1 aperiodic SRS resource sets for 1T4R.				
The UE indicating support of this feature shall also indicate the support of <i>srs</i> -				
StartAnyOFDM-Symbol-r16 and srs-TxSwitch.			21/2	.
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;				
Somi porolotom, and aponous one,				
- 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	13	INO	IN/A	111/7
only if the UE supports <i>srs-PosResources-r16</i> . Otherwise, the UE does not include				
this field. The capability signalling comprises the following parameters:				
- maxNumberAP-SRS-PosResourcesPerBWP-r16 indicates the max number				
of aperiodic SRS resources for positioning supported by UE per BWP;				
of apolicate cite recourses for positioning supported by the per bitti				
- 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;				
N				
- maxNumberSP-SRS-PosResourcesPerBWP-PerSlot-r16 indicates the max				
number of semi-persistent SRS resources for positioning supported by UE				
per BWP per slot				

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

twoHARQ-ACK-Codebook-type2-r16 Indicates whether the UE supports two subslot based HARQ-ACK codebooks simultaneously constructed for supporting HARQ-ACK codebooks with different priorities at a UE. The capability signalling comprises the following parameters: - sub-SlotConfig-NCP-r16 indicates the maximum number of actual PUCCH transmissions for HARQ-ACK within a slot for NCP with 2-symbol*7 sub-slot configuration;	FS	No	N/A	N/A
 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}.				
Indicates whether two PUCCH group in CA with a same numerology across CCs for data and control channel [at a given time] is supported by the UE. For NR CA, two PUCCH group is supported with the same numerology across NR carriers for data and control channel at a given time. For (NG)EN-DC/NE-DC, two PUCCH group is supported with the same numerology across NR carriers for data and control channel at a given time, wherein an NR PUCCH group is configured in FR1 and another NR PUCCH group is configured in FR2. The UE supports two PUCCH groups with PUCCH on a band X and a band Y if it sets this capability parameter for both band X and band Y.	FS	No	N/A	N/A
twoPUCCH-Type1-r16 Indicates whether the UE supports two PUCCH of format 0 or 2 in the same subslot for a single 7*2-symbol subslot based HARQ-ACK codebook.	FS	No	N/A	N/A
twoPUCCH-Type2-r16 Indicates whether the UE supports two PUCCH of format 0 or 2 in consecutive symbols in the same subslot for a single 2*7-symbol subslot based HARQ-ACK codebook.	FS	No	N/A	N/A
twoPUCCH-Type3-r16 Indicates whether the UE supports one PUCCH format 0 or 2 and one PUCCH format 1, 3 or 4 in the same subslot for a single 2*7-symbol HARQ-ACK codebook.	FS	No	N/A	N/A
twoPUCCH-Type4-r16 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.	FS	No	N/A	N/A
twoPUCCH-Type5-r16 Indicates whether the UE supports two PUCCH of format 0 or 2 for two HARQ-ACK codebooks with one 7*2-symbol subslot based HARQ-ACK codebook and one slot based HARQ-ACK codebook.	FS	No	N/A	N/A
twoPUCCH-Type6-r16 Indicates whether the UE supports two PUCCH of format 0 or 2 in consecutive symbols in the same subslot for two HARQ-ACK codebooks with one 2*7-symbol subslot based HARQ-ACK codebook and one slot based HARQ-ACK codebook.	FS	No	N/A	N/A
twoPUCCH-Type7-r16 Indicates whether the UE supports two PUCCH of format 0 or 2 in consecutive symbols in the same subslot for two subslot based HARQ-ACK codebooks.	FS	No	N/A	N/A
twoPUCCH-Type8-r16 Indicates whether the UE supports one PUCCH format 0 or 2 and one PUCCH format 1, 3 or 4 in the same subslot for two HARQ-ACK codebooks with one 2*7-symbol subslot based HARQ-ACK codebook and one slot based HARQ-ACK codebook.	FS	No	N/A	N/A
twoPUCCH-Type9-r16 Indicates whether the UE supports one PUCCH format 0 or 2 and one PUCCH format 1, 3 or 4 in the same subslot for two subslot based HARQ-ACK codebooks.	FS	No	N/A	N/A
twoPUCCH-Type10-r16 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.	FS	No	N/A	N/A
twoPUCCH-Type11-r16 Indicates whether the UE supports two PUCCH transmissions in the same subslot for two subslot based HARQ-ACK codebooks which are not covered by twoPUCCH-Type7-r16 and twoPUCCH-Type9-r16.	FS	No	N/A	N/A

tx-Support-UL-GapFR2-r17 Indicates whether the UE supports UL transmission in FR2 bands within an FR2 UL gap when the FR2 UL gap is activated in inter-band UL CA. The UE which indicates support for tx-Support-UL-GapFR2-r17 shall also indicate support for ul-GapFR2-r17 in an FR2 band.	FS	No	No	FR2 only
ue-PowerClassPerBandPerBC-r17 Indicates the UE power class per band per band combination.	FS	No	N/A	FR1 only
NOTE: Void.				
Ul-CancellationCrossCarrier-r16 Indicates whether the UE supports UL cancellation scheme for cross-carrier 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	FS	No	N/A	N/A
repetition individually in case of PUSCH repetitions;				
- UL cancellation for SRS symbols that overlap with the cancelled symbols. <i>ul-CancellationSelfCarrier-r16</i>	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;	FS	NO	IV/A	N/A
- UL cancellation for SRS symbols that overlap with the cancelled symbols.				
ul-FullPwrMode-r16 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.	FS	No	N/A	N/A
ul-FullPwrMode1-r16 Indicates the UE support of UL full power transmission mode of fullpowerMode1. If	FS	No	N/A	N/A
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 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 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:	FS	No	N/A	N/A
 value p1-2 means that each SRS resource can be configured with 1 port or 2 ports value p1-4 means that each SRS resource can be configured with 1 port or 4 				
ports - value <i>p1-2-4</i> 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-MaxSRS-ResInSet</i> .				
NOTE: The values p1-2, p1-4 or p1-2-4 can be used if ul-FullPwrMode2- MaxSRS-ResInSet is reported as n2 or n4.				

ul-FullPwrMode2-TPMIGroup-r16 FS No N/A N/A Indicates the UE supported TPMI group(s) which delivers full power. The capability signalling comprises the following values: twoPorts-r16 indicates a 2-bit bitmap, where the leading / leftmost bit (bit 0) corresponds to {TPMI index = 0}. The next bit (bit 1) corresponds to {TPMI index = 1} and the TPMI index is as specified in Table 6.3.1.5-1 of TS 38.211 [6] fourPortsNonCoherent-r16 indicates the TPMI groups {G0-3} fourPortsPartialCoherent-r16 indicates the TPMI groups {G0-6} UE indicates support of this feature shall also indicate support of ul-FullPwrMode2-MaxSRS-ResInSet. Definition of G0~G6 can be found in the table below: ID TPMI groups 0 $\frac{1}{2}$ G0 0 Lo. 0 (1) 1 G1 0 0 0 0 1 0 0 0 1 1 G2 0 0 1 0 1 0 0 0 G3 0 1 0 0 l٥ 1 0 0 G4 0 1 0 0 1 0 1 1 G5 0 0 0 0 1 1 1 0 G6 NOTE 1: When a full coherent UE operates in mode 2, it reports TPMIs the same as a partial-coherent UE. For 4 port partial-coherent or full-coherent UE, UE can report: 2-port {2-NOTE 2: bit bitmap} and one of 4-port non-coherent {G0~G3} and one of 4-port partial-coherent (G0~G6) For 4 port non-coherent UE, UE can report: 2-port {2-bit bitmap} and one of 4-port non-coherent (G0~G3) For 2 port UE, UE can report: 2-port {2-bit bitmap} NOTE 3: A UE that supports this feature must report at least one of the values.

 ul-IntraUE-Mux-r16 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: pusch-PreparationLowPriority-r16 indicates the additional number of symbols needed beyond the PUSCH preparation time for cancelling a low priority UL transmission; pusch-PreparationHighPriority-r16 indicates the additional number of the preparation time needed for the high priority UL transmission that cancels a low priority UL transmission. 	FS	No	N/A	N/A
The value sym0 denotes 0 symbol, sym1 denotes one symbol, and so on.				
ul-MCS-TableAlt-DynamicIndication	FS	No	N/A	N/A
Indicates whether the UE supports dynamic indication of MCS table using MCS-C-RNTI for PUSCH.				
zeroSlotOffsetAperiodicSRS	FS	No	N/A	N/A
Indicates whether the UE supports 0 slot offset between aperiodic SRS triggering and transmission, for SRS for CB PUSCH and antenna switching on FR1.				

4.2.7.8 FeatureSetUplinkPerCC parameters

Definitions for parameters	Per	M	FDD- TDD DIFF	FR1- FR2 DIFF
channelBW-90mhz	FSPC	CY	N/A	FR1
Indicates whether the UE supports the channel bandwidth of 90 MHz.				only
For FR1, the UE shall indicate support according to TS 38.101-1 [2], Table 5.3.5-1.				
maxNumberMIMO-LayersNonCB-PUSCH	FSPC	No	N/A	N/A
Defines supported maximum number of MIMO layers at the UE for PUSCH				
transmission using non-codebook precoding.				
A UE supporting non-codebook based PUSCH transmission shall indicate support				
of maxNumberMIMO-LayersNonCB-PUSCH and mimo-NonCB-PUSCH together.	FSPC	Nia	NI/A	NI/A
mimo-CB-PUSCH Indicates whether the UE supports codebook based PUSCH MIMO Transmission. If	FSPC	No	N/A	N/A
supported, it includes 2 parameters as follows:				
- maxNumberMIMO-LayersCB-PUSCH defines supported maximum number				
of MIMO layers at the UE for PUSCH transmission with codebook precoding.				
- maxNumberSRS-ResourcePerSet defines the maximum number of SRS				
resources per SRS resource set configured for codebook based				
transmission to the UE.				
A UE indicating support of this feature shall also indicate support of pusch-				
TransCoherence.				
mimo-NonCB-PUSCH	FSPC	No	N/A	N/A
Indicates whether the UE supports non-codebook based PUSCH MIMO				
Transmission. If supported, it includes 2 parameters as follows:				
- maxNumberSimultaneousSRS-ResourceTx defines the maximum number of				
simultaneous transmitted SRS resources at one symbol for non-codebook				
 based transmission to the UE. maxNumberSRS-ResourcePerSet defines the maximum number of SRS 				
resources per SRS resource set configured for non-codebook based				
transmission to the UE.				
mTRP-PUSCH-RepetitionTypeB-r17	FSPC	No	N/A	N/A
Indicates whether the UE supports multi-TRP PUSCH repetition for non-codebook	1 01 0	110	14//	14//
based PUSCH repetition type B with sequential mapping for repetitions larger than				
2 and cyclic mapping for 2 repetitions by indicating the supported number of SRS				
resources in one SRS resource set. The UE shall also support two SRS resource				
sets with usage set to 'nonCodebook'. The UE indicating support of this feature				
shall also indicate support of maxNumberMIMO-LayersNonCB-PUSCH, mimo-				
NonCB-PUSCH and pusch-RepetitionTypeB-r16.				
mTRP-PUSCH-TypeB-CB-r17	FSPC	No	N/A	N/A
Indicates the support of multi-TRP PUSCH repetition based on codebook with				
PUSCH repetition type B. The value indicates the number of SRS resources in one SRS resource set.				
This feature includes the following features:				
- sequential mapping for repetitions larger than 2.				
- cyclic mapping for 2 repetitions.				
- two SRS resource sets with usage set to 'codebook'.				
The LIE indicating appared of this feature about the indicate the appared () (OD				
The UE indicating support of this feature shall also indicate the support of <i>mimo-CB-PUSCH</i> and pusch Populition Type R r16				
PUSCH and pusch-RepetitionTypeB-r16.				

supportedBandwidthUL, supportedBandwidthUL-v1710 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.	FSPC	CY	N/A	N/A
For FR1, all the bandwidths listed in TS38.101-1 Table 5.3.5-1 for each band shall be mandatory with a single CC unless indicated optional. For FR2, the set of mandatory CBW is 50, 100, 200 MHz. When this field is included in a band combination with a single band entry and a single CC entry (i.e. non-CA band combination), the UE shall indicate the maximum channel bandwidth for the band according to TS 38.101-1 [2] and TS 38.101-2 [3]. For FR2,				
supportedBandwidthUL-v1710 is included if the maximum UL channel bandwidth supported by the UE within a single CC is greater than 400MHz. When the supportedBandwidthUL and the supportedBandwidthUL-v1710 are reported together for a CC, the network which is able to decode the supportedBandwidthUL-v1710 ignores the supportedBandwidthUL.				
The UE may report a <i>supportedBandwidthUL</i> wider than the <i>channelBWs-UL</i> ; this <i>supportedBandwidthUL</i> may not be included in the Table 5.3.5-1 of TS 38.101-1[2]/TS 38.101-2[3] for the case that the UE is unable to report the actual supported bandwidth according to the Table 5.3.5-1 of TS 38.101-1[2]/TS 38.101-2[3]. For each band, RedCap UEs shall indicate its maximum channel bandwidth, which is the maximum of those channel bandwidths that are less than or equal to 20 MHz for FR1 and less than or equal to 100 Mhz for FR2, taking restrictions in TS 38.101-1 [2] and TS 38.101-2 [3] into consideration.				
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. To determine whether the UE supports a channel bandwidth of 400 MHz, the network validates this capability, 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/supportedBandwidthUL-v1710 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 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. pusch-256QAM if signalled. If not signalled in a given band, the network	FSPC	No	N/A	N/A
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].				

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

4.2.7.9 *MRDC-Parameters*

Definitions for parameters	Per	М	FDD- TDD DIFF	FR1- FR2 DIFF
asyncIntraBandENDC Indicates whether the UE supports asynchronous FDD-FDD intra-band (NG)EN-DC with MRTD and MTTD as specified in clause 7.5 and 7.6 of TS 38.133 [5]. If asynchronous FDD-FDD intra-band (NG)EN-DC is not supported, the UE supports only synchronous FDD-FDD intra-band (NG)EN-DC.	ВС	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.				
condPSCellAdditionENDC-r17 Indicates whether the UE supports conditional PSCell addition in EN-DC. The UE supporting this feature shall also support 2 trigger events for same execution condition in conditional PSCell addition in EN-DC.	BC	No	N/A	N/A
dualPA-Architecture 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.	ВС	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.				
dynamicPowerSharingENDC 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 supported.	ВС	Yes	N/A	FR1 only
dynamicPowerSharingNEDC Indicates whether the UE supports dynamic NE-DC power sharing between NR FR1 carriers and the LTE carriers. If the UE supports this capability, the UE supports the dynamic power sharing behavior as specified in clause 7 of TS 38.213 [11].	ВС	Yes	N/A	FR1 only
higherPowerLimitMRDC-r17 Indicates whether UE supports increase in maximum output power above the power class indication for inter-band UL (NG)EN-DC band combinations as defined in clause 6.2B of TS 38.101-3 [4].	ВС	No	N/A	FR1 only

intraBandENDC-Support Indicates whether the UE supports intra-band (NG)EN-DC with only non-contiguous spectrum, or with both contiguous and non-contiguous spectrum for the (NG)EN-DC combination as specified in TS 38.101-3 [4].	ВС	No	N/A	N/A
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. If intrabandENDC-Support-UL is absent and the band combination supports intra-				
band (NG)EN-DC only in DL, this field indicates the DL capability. If intrabandENDC-Support-UL is absent and the band combination supports intra- band (NG)EN-DC in DL and UL, this field indicates the common capability for both				
DL and UL. If <i>intrabandENDC-Support-UL</i> is included, <i>intraBandENDC-Support</i> indicates the DL capability.				
intrabandENDC-Support-UL	ВС	No	N/A	N/A
Indicates whether the UE supports intra-band (NG)EN-DC in UL with only non-contiguous spectrum, or with both contiguous and non-contiguous spectrum for the intra-band (NG)EN-DC combination as specified in TS 38.101-3 [4]. The UE includes this field only if the UE supports different UL and DL capabilities for the				
intra-band (NG)EN-DC band combination. When 'both' is indicated in <i>intrabandENDC-Support</i> and in <i>intraBandENDC-Support-UL</i> , the UE supports the following three cases of intra-band (NG)EN-DC:				
contiguous DL/contiguous UL, non-contiguous DL/non-contiguous UL, contiguous DL/non-contiguous UL.				
interBandContiguousMRDC	ВС	CY	N/A	N/A
Indicates for an inter-band (NG)EN-DC/NE-DC combination, where the frequency range of the E-UTRA band is a subset of the frequency range of the NR band (as specified in Table 5.5B.4.1-1 of TS 38.101-3 [4]), that the UE supports intra-band contiguous (NG)EN-DC/NE-DC requirements (see TS 38.101-3 [4]). If the field is absent for such an inter-band (NG)EN-DC/NE-DC combination, the UE supports				
intra-band non-contiguous (NG)EN-DC/NE-DC requirements.				
interBandMRDC-WithOverlapDL-Bands-r16 Indicates whether the UE supports FDD-FDD or TDD-TDD inter-band (NG)EN-DC/NE-DC operation with overlapping or partially overlapping DL bands with an (NG)EN-DC MTTD/MRTD according to clause 7.5.2/7.6.2 in TS 38.133 [5] and NE-DC MTTD/MRTD according to clause 7.5.5/7.6.5 in TS 38.133 [5] and inter-band RF requirements. If the capability is not reported, the UE supports FDD-FDD or TDD-TDD inter-band operation with overlapping or partially overlapping DL bands with (NG)EN-DC/NE-DC MTTD/MRTD according to clause 7.5.3/7.6.3 in TS 38.133 [5] and intra-band RF requirements.	BC	No	N/A	FR1 only
maxUplinkDutyCycle-interBandENDC-FDD-TDD-PC2-r16	ВС	No	N/A	FR1
Indicates the maximum percentage of symbols during a certain evaluation period that can be scheduled for NR uplink transmission and EUTRA FDD uplink transmission so as to ensure compliance with applicable electromagnetic energy absorption requirements provided by regulatory bodies. This field is only applicable for inter-band FDD+TDD EN-DC power class 2 UE as specified in TS 38.101-3 [4]. This capability signalling comprises of maxUplinkDutyCycle-FDD-TDD-EN-DC1 and maxUplinkDutyCycle-FDD-TDD-EN-DC2 which indicate the maxUplinkDutyCycle capability of NR band corresponding to different LTE reference configurations as described in TS 38.101-3 [4], clause 6.2B.1.3. Value n30 corresponds to 30%, value n40 corresponds to 40% and so on.				only
maxUplinkDutyCycle-interBandENDC-TDD-PC2-r16	BC	No	TDD	FR1
Indicates the maximum percentage of symbols during a certain evaluation period that can be scheduled for NR uplink transmission under different EUTRA TDD uplink-downlink configurations so as to ensure compliance with applicable electromagnetic energy absorption requirements provided by regulatory bodies. This field is only applicable for inter-band TDD+TDD EN-DC power class 2 UE as specified in TS 38.101-3 [4]. If the field is absent, 30% shall be applied to all EUTRA TDD uplink-downlink configurations. If eutra-TDD-Configx is absent, 30% shall be applied to the corresponding EUTRA TDD uplink-downlink configuration. Value n20 corresponds to 20%, value n40 corresponds to 40% and so on.			only	only
scg-ActivationDeactivationENDC-r17	ВС	No	N/A	N/A
Indicates whether the UE supports activation (with or without RACH) and deactivation on SCG in EN-DC, upon SCG addition and upon reconfiguration of the SCG, as specified in TS 38.331 [9]. A UE supporting this feature shall indicate support of EN-DC as specified in TS 36.331 [17]. For the UE supporting this feature, it is mandatory to report <i>maxNumberCSI-RS-BFD</i> and <i>maxNumberSSB-BFD</i> for all NR bands of this band combination where the UE supports SpCell.				

scg-ActivationDeactivationResumeENDC-r17 Indicates whether the UE supports activation (with or without RACH) and	ВС	No	N/A	N/A
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 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.				
simultaneousRxTxInterBandENDC Indicates whether the UE supports simultaneous transmission and reception in TDD-TDD and TDD-FDD inter-band (NG)EN-DC/NE-DC. It is mandatory for certain TDD-FDD and TDD-TDD band combinations defined in TS 38.101-3 [4].	BC	CY	N/A	N/A
This capability does not apply to the following components within TDD-TDD and TDD-FDD inter-band (NG)EN-DC/NE-DC combination: - Intra-band (NG)EN-DC/NE-DC component - Inter-band (NG)EN-DC/NE-DC component where the frequency range of the E-UTRA band is a subset of the frequency range of the NR band (as specified in Table 5.5B.4.1-1 of TS 38.101-3 [4]).				
simultaneousRxTxInterBandENDCPerBandPair	ВС	CY	N/A	N/A
Indicates whether the UE supports simultaneous transmission and reception in TDD-TDD and TDD-FDD inter-band (NG)EN-DC/NE-DC 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 applicable 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. It is mandatory for certain band pairs as specified in TS 38.101-3 [4]. The UE shall consistently set the bits which correspond to the same band pair. Each bit of the capability only applies to TDD-TDD and TDD-FDD Inter-band (NG)EN-DC/NE-DC band pairs, except for the band pairs where the frequency range of the E-UTRA band is a subset of the frequency range of the NR band (as specified in Table 5.5B.4.1-1 of TS 38.101-3 [4]).	ВС	Cf	IN/A	IVA
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.	ВС	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
spCellPlacement Indicates whether the UE supports a SpCell on FR1-FDD, FR1-TDD and/or FR2-TDD depending on which additional SCells of other frequency range(s) / duplex mode(s) are configured. It is applicable to SCG of (NG)EN-DC and MCG of NE-DC, 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
tdm-Pattern Indicates whether the UE supports the tdm-PatternConfig for single UL-transmission 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

tdm-restrictionDualTX-FDD-endc-r16 Indicates whether the UE supports TDM restriction to LTE FDD PCell in (NG)EN-DC for dual UL transmission operation when tdm-PatternConfig2-R16 is configured, as specified in TS 36.331 [17]. UE indicates support this feature shall also indicate support of tdm-Pattern.	BC	No	N/A	FR1 only
tdm-restrictionFDD-endc-r16 Indicates whether the UE supports TDM restriction to LTE FDD PCell for single UL-transmission associated functionality when tdm-PatternConfig2-R16 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.	BC	No	N/A	FR1 only
tdm-restrictionTDD-endc-r16 Indicates whether the UE supports TDM restriction to LTE TDD PCell for single UL-transmission associated functionality when tdm-PatternConfig2-R16 is configured, as specified in TS 36.331 [17]. This is applicable for synchronous TDD-TDD (NG)EN-DC.	BC	No	N/A	FR1 only
ul-SharingEUTRA-NR Indicates whether the UE supports (NG)EN-DC/NE-DC with EUTRA-NR coexistence in UL sharing via TDM only, FDM only, or both TDM and FDM from UE perspective as specified in TS 38.101-3 [4].	BC	No	N/A	FR1 only
ul-SwitchingTimeEUTRA-NR Indicates support of switching type between LTE UL and NR UL for (NG)EN-DC/NE-DC with LTE-NR coexistence in UL sharing from UE perspective as defined in clause 6.3B of TS 38.101-3 [4]. It is mandatory to report switching time type 1 or type 2 if UE reports ul-SharingEUTRA-NR is tdm or both.	BC	CY	N/A	FR1 only
ul-TimingAlignmentEUTRA-NR 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:	BC	No	N/A	N/A
 Intra-band contiguous (NG)EN-DC combination without additional inter-band NR and LTE CA component; Intra-band contiguous (NG)EN-DC combination supporting both UL and DL intra-band (NG)EN-DC parts with additional inter-band NR/LTE CA component; Inter-band (NG)EN-DC combination, where the frequency range of the E-UTRA band is a subset of the frequency range of the NR band (as specified in Table 5.5B.4.1-1 of TS 38.101-3 [4]). 				
If this capability is included in an "Intra-band contiguous (NG)EN-DC combination supporting both UL and DL intra-band (NG)EN-DC parts with additional inter-band NR/LTE CA component", this capability applies to the intra-band (NG)EN-DC BC part.				

4.2.7.10 Phy-Parameters

Definitions for parameters	Per	M	FDD- TDD DIFF	FR1- FR2 DIFF
absoluteTPC-Command	UE	No	No	Yes
Indicates whether the UE supports absolute TPC command mode. aggregationFactorSPS-DL-r16	UE	No	No	Yes
Indicates whether the UE supports configurable PDSCH aggregation factor ({1, 2, 4, 8}) per DL SPS configuration. The UE can include this feature only if the UE indicates support of <i>downlinkSPS</i> .	OL	140	140	163
almostContiguousCP-OFDM-UL 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
bwp-SwitchingDelay Defines whether the UE supports DCI and timer based active BWP switching delay type1 or type2 specified in clause 8.6.2 of TS 38.133 [5]. It is mandatory to report type 1 or type 2 when bwp-SameNumerology or bwp-DiffNumerology is supported on at least one band. This capability is not applicable to IAB-MT.	UE	CY	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	СУ	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 scellDormancyWithinActiveTime-r16 or scellDormancyOutsideActiveTime-r16. 	UE	No	No	No
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
cbg-TransIndication-UL Indicates whether the UE supports both in-order and out-of-order CBG-based (re)transmission for UL using CBG transmission information (CBGTI) as specified in TS 38.214 [12].	UE	No	No	No
 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)): if the initial PUSCH transmission was not cancelled due to gNB scheduling/indication/configuration; and 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
cg-TimeDomainAllocationExtension-r17 Indicates whether UE supports the timeDomainAllocation-v1710 configured in rrc-ConfiguredUplinkGrant to indicate 16 or more entries in PUSCH TDRA table. This field is only applicable if the UE supports both pusch-RepetitionTypeB-r16 and either configuredUL-GrantType1 or configuredUL-GrantType1-v1650.	UE	No	No	No

cli-RSSI-FDM-DL-r16 Indicates whether serving cell DL signal/channel (e.g. PDSCH/PDCCH) and CLI-RSSI FDMed reception is supported as specified in TS 38.215 [13].	UE	No	TDD only	Yes
cli-SRS-RSRP-FDM-DL-r16 Indicates whether serving cell DL signal/channel (e.g. PDSCH/PDCCH) and SRS-RSRP FDMed reception is supported as specified in TS 38.215 [13].	UE	No	TDD only	Yes
codebookVariantsList-r16 Indicates the list of SupportedCSI-RS-Resource applicable to the codebook types 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, configuredUL-GrantType1-r16 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, configuredUL-GrantType2-r16 applies.	UE	No	No	No
cqi-4-BitsSubbandTN-NonSharedSpectrumChAccess-r17 Indicates whether the UE supports subband CQI reporting with 4 bits per subband for TN and non-shared spectrum channel access.	UE	No	No	No
cqi-TableAlt Indicates whether UE supports the CQI table with target BLER of 10^-5.	UE	No	No	Yes
cri-RI-CQI-WithoutNon-PMI-PortInd-r16 Indicates whether UE supports CSI-ReportConfig with the reportQuantity set to 'cri-RI-CQI and the non-PMI-PortIndication is not configured. UE indicating support of this feature shall also indicate support of csi-	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 non-SharedSpectrumChAccess-r16 or sharedSpectrumChAccess-r16 shall be reported, at least.	UE	No	No	No
csi-ReportFramework See csi-ReportFramework in 4.2.7.2. For a band combination comprised of FR1 and FR2 bands, this parameter, if present, limits the corresponding parameter in MIMO-ParametersPerBand.	UE	Yes	No	N/A
csi-ReportFrameworkExt-r16 See csi-ReportFramework in 4.2.7.2. For a band combination comprised of FR1 and FR2 bands, this parameter, if present, limits the corresponding parameter in MIMO-ParametersPerBand.	UE	No	No	N/A
csi-ReportWithoutCQI Indicates whether UE supports CSI reporting with report quantity set to 'CRI/RI/i1' as defined in clause 5.2.1.4 of TS 38.214 [12].	UE	No	No	Yes
csi-ReportWithoutPMI 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
csi-RS-CFRA-ForHO 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, csi-RS-CFRA-ForHO-r16 applies.	UE	No	No	No
csi-RS-IM-ReceptionForFeedback See csi-RS-IM-ReceptionForFeedback in 4.2.7.2. For a band combination comprised of FR1 and FR2 bands, this parameter, if present, limits the corresponding parameter in MIMO-ParametersPerBand.	UE	Yes	No	N/A
csi-RS-ProcFrameworkForSRS See csi-RS-ProcFrameworkForSRS in 4.2.7.2. For a band combination comprised of FR1 and FR2 bands, this parameter, if present, limits the corresponding parameter in MIMO-ParametersPerBand.	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

dci-DL-PriorityIndicator-r16	UE	No	No	No
Indicates whether the UE supports the priority indicator field configured in DCI				
formats 1_1 and 1_2 in a BWP when configured to monitor both DCI formats 1_1				
and 1_2 in the BWP.				
dci-Format1-2And0-2-r16	UE	No	No	No
Indicates whether the UE supports monitoring DCI format 1_2 for DL scheduling				
and monitoring DCI format 0_2 for UL scheduling.				
dci-UL-PriorityIndicator-r16	UE	No	No	No
Indicates whether the UE supports the priority indicator field configured in DCI				
formats 0_1 and 0_2 in a BWP when configured to monitor both DCI formats 0_1				
and 0_2 in the BWP. A UE supporting this feature shall also support <i>ul-IntraUE</i> -				
Mux-r16 and dci-Format1-2And0-2-r16.				
defaultSpatialRelationPathlossRS-r16	UE	No	No	FR2
Indicates the UE support of default spatial relation and pathloss reference RS for				only
dedicated PUCCH/SRS and PUSCH. The UE indicating support of this also				
indicates the capabilities of supported SRS resources and maximum supported				
spatial relations for the supported FR2 bands using supportedSRS-Resources and				
maxNumberConfiguredSpatialRelations.				
dl-64QAM-MCS-TableAlt	UE	No	No	Yes
Indicates whether the UE supports the alternative 64QAM MCS table for PDSCH.				
dl-SchedulingOffset-PDSCH-TypeA	UE	Yes	Yes	Yes
Indicates whether the UE supports DL scheduling slot offset (K0) greater than 0 for				
PDSCH mapping type A.				
dl-SchedulingOffset-PDSCH-TypeB	UE	Yes	Yes	Yes
Indicates whether the UE supports DL scheduling slot offset (K0) greater than 0 for				
PDSCH mapping type B.				
downlinkSPS	UE	No	No	No
Indicates whether the UE supports PDSCH reception based on semi-persistent	0_	'''	110	110
scheduling. One SPS configuration is supported per cell group. This applies only to				
non-shared spectrum channel access. For shared spectrum channel access,				
downlinkSPS-r16 applies.				
dynamicBetaOffsetInd-HARQ-ACK-CSI	UE	No	No	No
Indicates whether the UE supports indicating beta-offset (UCI repetition factor onto	OL	140	140	110
PUSCH) for HARQ-ACK and/or CSI via DCI among the RRC configured beta-				
offsets.				
dynamicHARQ-ACK-Codebook	UE	Yes	No	No
Indicates whether the UE supports HARQ-ACK codebook dynamically constructed			110	110
by DCI(s). This field shall be set to supported.				
dynamicHARQ-ACK-CodeB-CBG-Retx-DL	UE	No	No	No
Indicates whether the UE supports HARQ-ACK codebook size for CBG-based		''	110	110
(re)transmission based on the DAI-based solution as specified in TS 38.213 [11].				
dynamicPRB-BundlingDL	UE	No	No	No
Indicates whether UE supports DCI-based indication of the PRG size for PDSCH	0_	'''	110	110
reception.				
dynamicSFI	UE	No	Yes	Yes
Indicates whether the UE supports monitoring for DCI format 2_0 and determination	OL.	140	163	163
of slot formats via DCI format 2_0. This applies only to non-shared spectrum				
channel access. For shared spectrum channel access, <i>dynamicSFI-r16</i> applies.				
dynamicSwitchRA-Type0-1-PDSCH	UE	No	No	No
Indicates whether the UE supports dynamic switching between resource allocation	OL	140	110	110
Types 0 and 1 for PDSCH as specified in TS 38.212 [10].				
dynamicSwitchRA-Type0-1-PUSCH	UE	No	No	No
Indicates whether the UE supports dynamic switching between resource allocation	UE	INU	INU	INU
Types 0 and 1 for PUSCH as specified in TS 38.212 [10].	UE	No	No	Yes
enhancedPowerControl-r16 For DC PUSCH, one bit (congretally from SPI) in LII, grant is used to indicate the PO	UE	No	No	168
For DG-PUSCH, one bit (separately from SRI) in UL grant is used to indicate the P0				
value if SRI is present in the UL grant, and 1 or 2 bits is used to indicate the P0				
value if SRI is not present in the UL grant.	115	Nic	NIa	NIc
extendedCG-Periodicities-r16	UE	No	No	No
Indicates that the UE supports extended periodicities for CG Type 1 (if the UE				
indicates configuredUL-GrantType1 or configuredUL-GrantType1-v1650 capability)				
or CG Type 2 (if the UE indicates configuredUL-GrantType2 or configuredUL-				
GrantType2-v1650 capability) as specified by periodicityExt-r16 field of IE				
ConfiguredGrantConfig in TS 38.331 [9].		ı		
extendedSPS-Periodicities-r16	UE	No	No	No
Indicates that the UE supports extended periodicities for downlink SPS as specified by <i>periodicityExt-r16</i> field of IE <i>SPS-Config</i> in TS 38.331 [9].	UE	No	No	No

fdd-PCellUL-TX-AllUL-Subframe-r16	UE	No	FDD	FR1
Indicates whether the UE configured with tdm-patternConfig-r16 can be semi-			only	only
statically configured with LTE UL transmissions in all UL subframes not limited to				,
the reference tdm-pattern (only for type 1 UE) in case of LTE FDD PCell. UE				
indicating support can configure its LTE FDD PCell with this feature on the band				
combination which indicates support of either tdm-restrictionFDD-endc-r16				
or tdm-restrictionDualTX-FDD-endc-r16.				
harqACK-CB-SpatialBundlingPUCCH-Group-r16	UE	No	No	No
Indicates whether the UE supports HARQ-ACK codebook type and HARQ-ACK	OL	110	140	110
spatial bundling configuration per PUCCH group as specified in TS 38.213 [11]. If				
the UE indicates support of this, it also supports two NR PUCCH groups with same				
numerology by setting twoPUCCH-Group to supported.				
harqACK-separateMultiDCI-MultiTRP-r16	UE	No	No	No
Indicates whether the UE support of separate HARQ-ACK. The capability signalling				
of this feature includes the following:				
A A A BURGU AS II A A BURGU				
- maxNumberLongPUCCHs-r16 indicates maximum number of long PUCCHs				
within a slot for separate HARQ-Ack				
The UE that indicates support of this feature shall support <i>multiDCI-MultiTRP-r16</i> .				
harqACK-jointMultiDCI-MultiTRP-r16	UE	No	No	No
Indicates whether the UE support of joint HARQ-ACK. The UE that indicates				
support of this feature shall support multiDCI-MultiTRP-r16.				
pucch-F0-2WithoutFH	UE	Yes	No	Yes
Indicates whether the UE supports transmission of a PUCCH format 0 or 2 without				
frequency hopping. When included, the UE does not support PUCCH formats 0 and				
2 without frequency hopping. When not included, the UE supports the PUCCH				
formats 0 and 2 without frequency hopping.				
pucch-F1-3-4WithoutFH	UE	Yes	No	Yes
Indicates whether the UE supports transmission of a PUCCH format 1, 3 or 4	OL	103	140	103
without frequency hopping. When included, the UE does not support PUCCH				
formats 1, 3 and 4 without frequency hopping. When not included, the UE supports				
the PUCCH formats 1, 3 and 4 without frequency hopping.	UE	Vaa	NIa	NIa
interleaving VRB-ToPRB-PDSCH	UE	Yes	No	No
Indicates whether the UE supports receiving PDSCH with interleaved VRB-to-PRB				
mapping as specified in TS 38.211 [6].				
interSlotFreqHopping-PUSCH	UE	No	No	No
Indicates whether the UE supports inter-slot frequency hopping for PUSCH				
transmissions.				
intraSlotFreqHopping-PUSCH	UE	Yes	No	Yes
Indicates whether the UE supports intra-slot frequency hopping for PUSCH				
transmission, except for PUSCH scheduled by PDCCH in the Type1-PDCCH				
common search space before RRC connection establishment.				
maxLayersMIMO-Adaptation-r16	UE	No	No	Yes
Indicates whether the UE supports the network configuration of maxMIMO-Layers				
per DL BWP. If the UE supports this feature, the UE needs to report				
maxLayersMIMO-Indication.				
maxLayersMIMO-Indication	UE	Yes	No	No
Indicates whether the UE supports the network configuration of <i>maxMIMO-Layers</i>				
as specified in TS 38.331 [9].				
maxNumberPathlossRS-update-r16	UE	No	No	No
Indicates the maximum number of configured pathloss reference RSs for	J_	'10	140	110
PUSCH/PUCCH/SRS by RRC that the UE can support for MAC-CE based pathloss				
reference RS update.				
maxNumberSearchSpaces	UE	No	No	No
	UE	INO	INO	INO
Indicates whether the UE supports up to 10 search spaces in an SCell per BWP.	LIF	No	Na	Nia
maxNumberSRS-PosPathLossEstimateAllServingCells-r16	UE	No	No	No
Indicates the maximum number of pathloss estimates that the UE can				
simultaneously maintain for all the SRS resource sets for positioning across all cells				
in addition to the up to four pathloss estimates that the UE maintains per serving				
cell for the PUSCH/PUCCH/SRS transmissions. The UE shall include this field if the				
UE supports any of olpc-SRS-PosBasedOnPRS-Serving-r16, olpc-SRS-				
PosBasedOnSSB-Neigh-r16 and olpc-SRS-PosBasedOnPRS-Neigh-r16.				
Otherwise, the UE does not include this field;				

maxNumberSRS-PosSpatialRelationsAllServingCells-r16 Indicates the maximum number of maintained spatial relations for all the SRS resource sets for positioning across all serving cells in addition to the spatial relations maintained spatial relations per serving cell for the PUSCH/PUCCH/SRS transmissions. It is only applied for FR2. The UE can include this field only if the UE supports any of spatialRelation-SRS-PosBasedOnSSB-Serving-r16,	E	No	No	FR2 only
spatialRelation-SRS-PosBasedOnCSI-RS-Serving-r16, spatialRelation-SRS-PosBasedOnPRS-Serving-r16, spatialRelation-SRS-PosBasedOnSSB-Neigh-r16 or spatialRelation-SRS-PosBasedOnPRS-Neigh-r16. Otherwise, the UE does not include this field;				
maxTotalResourcesForAcrossFreqRanges-r16 Indicates the maximum total number of SSB/CSI-RS/CSI-IM resources for beam management, pathloss measurement, BFD, RLM and new beam identification across frequency ranges (both FR1 and FR2) that the UE supports. The capability signalling includes the following: - 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, L1-SINR measurement, pathloss measurement, BFD, RLM and new beam identification. gNB takes into conjunction of this feature and the features maxTotalResourcesForOneFreqRange-r16, beamManagementSSB-CSI-RS, maxNumberCSI-RS-BFD, maxNumberSSB-BFD and maxNumberCSI-RS-SSB-CBD when configuring SSB/CSI-RS/CSI-IM resources for beam management, pathloss measurement, BFD, RLM and new beam identification across frequency ranges. The signalled values apply to the shortest slot duration defined in any FR(s) that are supported by the UE. NOTE 1: The "configured to measure" RS is counted within the duration of a reference slot in which the corresponding reference signals are transmitted. NOTE 2: Regarding the "configured to measure" RS counting • (basic usage 1): If one resource is used for one or multiple of BFD/RLM, it is counted as one. • (basic usage 2): If one resource is used for one or multiple o	E	No	No	No

T / 10		N.		\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
maxTotalResourcesForOneFreqRange-r16 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, L1-SINR measurement, pathloss measurement, BFD, RLM and new beam identification. 				
gNB takes into conjunction of this feature and the features beamManagementSSB-CSI-RS, maxNumberCSI-RS-BFD, maxNumberSSB-BFD and maxNumberCSI-RS-SSB-CBD when configuring SSB/CSI-RS/CSI-IM resources for beam management, pathloss measurement, BFD, RLM and new beam identification across one frequency range.				
NOTE 1: The reference slot duration is the shortest slot duration defined for the reported FR supported by the UE.				
NOTE 2: For RS configured for new beam identification, they are always counted regardless of beam failure event. NOTE 3: The maxNumberResWithinSlotAcrossCC-AcrossFR-r16 only counts those in active BWP but the maxNumberResAcrossCC-AcrossFR-r16				
counts all configured including both active and inactive BWP. NOTE 4: The "configured to measure" RS is counted within the duration of a reference slot in which the corresponding reference signals are				
transmitted. NOTE 5: Regarding the "configured to measure" RS counting - (basic usage 1): If one resource is used for one or multiple of BFD/RLM, it is counted as one. - (basic usage 2): If one resource is used for one or multiple of New Beam Identification/PL-RS/L1-RSRP, add 1. - L1-RSRP measurement includes cases associated with reports with reportQuantity set to 'ssb-Index-RSRP, 'cri-RSRP' or with reportQuantity set to 'none' and CSI-RS-ResourceSet with trs-Info				
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 Indicates whether the UE supports monitoring both DCI format 0_1/1_1 and DCI format 0_2/1_2 in the same search space. If the UE supports this feature, the UE needs to report dci-Format1-2And0-2-r16.	UE	No	No	No
mTRP-PDCCH-singleSpan-r17 Indicates the support of PDCCH repetition for PDCCH monitoring with a single span of three contiguous OFDM symbols that is within the first four OFDM symbols in a slot. It is applicable to 15kHz SCS only.	UE	No	No	FR1 only
The UE indicating support of this feature shall also indicate support of pdcch- MonitoringSingleSpanFirst4Sym-r16 and mTRP-PDCCH-Repetition-r17.				
multiPDSCH-PerSlotType1-CB-Support-r17 Indicates whether the UE supports RRC configuration multiPDSCH-PerSlotType1-CB-r17 as specified in TS 38.331 [9].	UE	No	No	No
multipleCORESET Indicates whether the UE supports configuration of up to two PDCCH CORESETs per BWP in addition to the CORESET with CORESET-ID 0 in the BWP. If this is not supported, the UE supports one PDCCH CORESET per BWP in addition to the CORESET with CORESET-ID 0 in the BWP. It is mandatory with capability signalling for FR2 and optional for FR1.	UE	CY	No	Yes

multipleCORESET-RedCap-r17 Indicates whether the RedCap UE supports configuration of up to three PDCCH CORESETs in the RedCap specific initial DL BWP when it does not contain CD-SSB and CORESET#0. If this is not supported, the field description of multipleCORESET applies to the RedCap-specific initial BWP. The RedCap UE reporting this capability shall also report multipleCORESET.	UE	No	No	No
mux-HARQ-ACK-PUSCH-DiffSymbol Indicates whether the UE supports HARQ-ACK piggyback on a PUSCH with/without aperiodic CSI once per slot when the starting OFDM symbol of the PUSCH is different from the starting OFDM symbols of the PUCCH resource that HARQ-ACK would have been transmitted on. This applies only to non-shared spectrum channel access. For shared spectrum channel access, mux-HARQ-ACK-PUSCH-DiffSymbol-r16 applies.	UE	Yes	No	Yes
mux-HARQ-ACK-withoutPUCCH-onPUSCH-r16 Indicates that the UE is implemented according to the definition in TS 38.213 [11] for multiplexing HARQ-ACK in a PUSCH in a PUCCH slot when the UE has no HARQ-ACK for any DL activity to transmit, but it receives UL grant(s) with UL-TDAI field indicating HARQ-ACK multiplexing on a PUSCH, and it transmits multiple PUSCHs in the PUCCH slot.	UE	No	No	No
mux-MultipleGroupCtrlCH-Overlap 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
mux-SR-HARQ-ACK-CSI-PUCCH-MultiPerSlot Indicates whether the UE supports multiplexing SR, HARQ-ACK and CSI on a PUCCH or piggybacking on a PUSCH more than once per slot when SR, HARQ- ACK and CSI are supposed to be sent with the same or different starting symbol in a slot. This applies only to non-shared spectrum channel access. For shared spectrum channel access, mux-SR-HARQ-ACK-CSI-PUCCH-MultiPerSlot-r16 applies.	UE	No	No	Yes
mux-SR-HARQ-ACK-CSI-PUCCH-OncePerSlot 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. diffSymbol indicates the UE supports multiplexing SR, HARQ-ACK and CSI on a PUCCH or piggybacking on a PUSCH once per slot, when SR, HARQ-ACK and CSI are supposed to be sent with the different starting symbols in a slot. The UE is mandated to support the multiplexing and piggybacking features indicated by sameSymbol while the UE is optional to support the multiplexing and piggybacking features indicated by diffSymbol. If the UE indicates sameSymbol in this field and does not support mux-HARQ-ACK-PUSCH-DiffSymbol, the UE supports HARQ-ACK/CSI piggyback on PUSCH once per slot, when the starting OFDM symbol of the PUSCH is the same as the starting OFDM symbols of the PUCCH resource(s) that would have been transmitted on. If the UE indicates sameSymbol in this field and supports mux-HARQ-ACK-PUSCH-DiffSymbol, the UE supports HARQ-ACK/CSI piggyback on PUSCH once per slot for which case the starting OFDM symbol of the PUSCH is the different from the starting OFDM symbols of the PUCCH resource(s) that would have been transmitted on. This applies only to non-shared spectrum channel access. For shared spectrum channel access, mux-SR-HARQ-ACK-CSI-PUCCH-OncePerSlot-r16 applies.	UE	FD	No	Yes
mux-SR-HARQ-ACK-PUCCH Indicates whether the UE supports multiplexing SR and HARQ-ACK on a PUCCH or piggybacking on a PUSCH once per slot, when SR and HARQ-ACK are supposed to be sent with the different starting symbols in a slot. This applies only to non-shared spectrum channel access. For shared spectrum channel access, mux-SR-HARQ-ACK-PUCCH-r16 applies.	UE	No	No	Yes
newBeamIdentifications2PortCSI-RS-r16 Indicates whether the UE supports 2 port CSI-RS for new beam identification with the same resource counting as in maxTotalResourcesForOneFreqRange-r16 and maxTotalResourcesForAcrossFreqRanges-r16.	UE	No	No	No
nzp-CSI-RS-IntefMgmt Indicates whether the UE supports interference measurements using NZP CSI-RS.	UE	No	No	No
oneFL-DMRS-ThreeAdditionalDMRS-UL Defines whether the UE supports DM-RS pattern for UL transmission with 1 symbol front-loaded DM-RS with three additional DM-RS symbols.	UE	No	No	Yes
oneFL-DMRS-TwoAdditionalDMRS-UL Defines support of DM-RS pattern for UL transmission with 1 symbol front-loaded DM-RS with 2 additional DM-RS symbols and more than 1 antenna ports.	UE	Yes	No	Yes

onePortsPTRS	UE	CY	No	Yes
Defines whether UE supports PT-RS with 1 antenna port in DL reception and/or UL				
transmission. It is mandatory with UE capability signalling for FR2 and optional for				
FR1. The left most in the bitmap corresponds to DL reception and the right most bit				
in the bitmap corresponds to UL transmission.	LIF	No	No	Voo
onePUCCH-LongAndShortFormat Indicates whether the UE supports transmission of one long PUCCH format and	UE	No	No	Yes
one short PUCCH format in TDM in the same slot.				
pathlossEstimation2PortCSI-RS-r16	UE	No	No	No
Indicates whether the UE supports 2 port CSI-RS for pathloss estimation with the				
same resource counting as in maxTotalResourcesForOneFreqRange-r16 and				
maxTotalResourcesForAcrossFreqRanges-r16.				
pCell-FR2	UE	Yes	No	FR2
Indicates whether the UE supports PCell operation on FR2.				only
pdcch-MonitoringSingleOccasion	UE	No	No	FR1
Indicates whether the UE supports receiving PDCCH in a search space configured				only
to be monitored within a single span of any three contiguous OFDM symbols in a				
slot with the capability of supporting at least 44 blind decodes in a slot for 15 kHz				
subcarrier spacing. pdcch-BlindDetectionCA	UE	No	No	No
Indicates PDCCH blind decoding capabilities supported by the UE for CA with more	OE.	INO	INO	INO
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 <i>pdcch-BlindDetectionCA</i> , and if X is the				
maximum number of CCs supported by the UE across all NR-DC band				
combinations then there is at least one parameter pair (X1, X2) such that X1 + X2 = X and the UE supports at least one NR-DC band combination with X1 CCs in MCG				
and X2 CCs in SCG and for which X1 <= pdcch-BlindDetectionMCG-UE and X2 <=				
pdcch-BlindDetectionSCG-UE.				
pdcch-BlindDetectionSCG-UE	UE	No	No	Yes
Indicates PDCCH blind decoding capabilities supported for SCG when in NR-DC.				
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	0_	''	140	''
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.				
5. my				
NOTE: For pdcch-MonitoringAnyOccasionsWithSpanGap, the supported set				
(set1, set2 or set 3) for cross-carrier scheduling with the different SCSs in		1		
(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				
(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.				
(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. pdcch-MonitoringSingleSpanFirst4Sym-r16	UE	No	No	
(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. pdcch-MonitoringSingleSpanFirst4Sym-r16 Indicates whether the UE supports receiving PDCCH in a search space configured	UE	No	No	
(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. pdcch-MonitoringSingleSpanFirst4Sym-r16	UE	No	No	FR1 only

pdsch-256QAM-FR1 Indicates whether the UE supports 256QAM modulation scheme for PDSCH for	UE	CY	No	FR1 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 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	Yes	No	No
<pre>pdsch-MappingTypeB Indicates whether the UE supports receiving PDSCH using PDSCH mapping type B.</pre>	UE	Yes	No	No
pdsch-RepetitionMultiSlots Indicates whether the UE supports receiving PDSCH scheduled by DCI format 1_1 when configured with pdsch-AggregationFactor > 1, as defined in 5.1.2.1 of TS 38.214 [12]. This applies only to non-shared spectrum channel access. For shared spectrum channel access, pdsch-RepetitionMultiSlots-r16 applies.	UE	No	No	No
pdsch-RE-MappingFR1-PerSymbol/pdsch-RE-MappingFR1-PerSlot Indicates the maximum number of supported PDSCH Resource Element (RE) mapping patterns for FR1, each described as a resource (including NZP/ZP CSI-RS, CRS, CORESET and SSB) or bitmap. The number of patterns coinciding in a symbol in a CC and in a slot in a CC are limited by the respective capability parameters. Value n10 means 10 RE mapping patterns and n16 means 16 RE mapping patterns, and so on. The UE shall set the fields pdsch-RE-MappingFR1-PerSymbol and pdsch-RE-MappingFR1-PerSlot to at least n10 and n16, respectively. In the exceptional case that the UE does not include the fields, the network may anyway assume that the UE supports the required minimum values.	UE	Yes	No	FR1 only
pdsch-RE-MappingFR2-PerSymbol/pdsch-RE-MappingFR2-PerSlot Indicates the maximum number of supported PDSCH Resource Element (RE) mapping patterns for FR2, each described as a resource (including NZP/ZP CSI- RS, CORESET and SSB) or bitmap. The number of patterns coinciding in a symbol in a CC and in a slot in a CC are limited by the respective capability parameters. Value n6 means 6 RE mapping patterns and n16 means 16 RE mapping patterns, and so on. The UE shall set the fields pdsch-RE-MappingFR2-PerSymbol and pdsch-RE-MappingFR2-PerSlot to at least n6 and n16, respectively. In the exceptional case that the UE does not include the fields, the network may anyway assume that the UE supports the required minimum values.	UE	Yes	No	FR2 only
precoderGranularityCORESET Indicates whether the UE supports receiving PDCCH in CORESETs configured with CORESET-precoder-granularity equal to the size of the CORESET in the frequency domain as specified in TS 38.211 [6].	UE	No	No	No
pre-EmptIndication-DL 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.	UE	No	No	No
pucch-F2-WithFH 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.	UE	Yes	No	Yes
pucch-F3-WithFH 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.	UE	Yes	No	Yes
pucch-F3-4-HalfPi-BPSK Indicates whether the UE supports pi/2-BPSK for PUCCH format 3/4 as defined in 6.3.2.6 of TS 38.211 [6]. It is mandatory with capability signalling for FR1 and FR2. This capability is not applicable to IAB-MT.	UE	Yes	No	Yes
pucch-F4-WithFH Indicates whether the UE supports transmission of a PUCCH format 4 (4~14 OFDM symbols in total) with frequency hopping in a slot.	UE	Yes	No	Yes

pusch-Repetition-CG-SDT-r17	UE	No	No	No
Indicates whether the UE supports PUSCH repetitions for CG-SDT, as defined in				
TS 38.214 [12]. A UE supporting this feature shall also indicate the support of				
type1-PUSCH-RepetitionMultiSlots or pusch-RepetitionTypeB-r16. When UE				
indicates type1-PUSCH-RepetitionMultiSlots and pusch-Repetition-CG-SDT-r17,				
the UE supports PUSCH repetition for type A. When UE indicates pusch-				
RepetitionTypeB-r16 and pusch-Repetition-CG-SDT-r17, UE supports PUSCH				
repetition for type B. A UE can include this feature only if the UE indicates the				
•				
support of <i>cg-SDT-r17</i> .				
pusch-RepetitionMultiSlots	UE	Yes	No	No
Indicates whether the UE supports transmitting PUSCH scheduled by DCI format				
0_1 when configured with pusch-AggregationFactor > 1, as defined in clause				
6.1.2.1 of TS 38.214 [12]. This applies only to non-shared spectrum channel				
access. For shared spectrum channel access, pusch-RepetitionMultiSlots-r16				
applies.				
pucch-Repetition-F1-3-4	UE	Yes	No	No
Indicates whether the UE supports transmission of a PUCCH format 1 or 3 or 4 over				
multiple slots with the repetition factor 2, 4 or 8. This applies only to non-shared				
spectrum channel access. For shared spectrum channel access, pucch-Repetition-				
F1-3-4-r16 applies.				
pusch-HalfPi-BPSK	UE	Yes	No	Yes
	OL	169	140	163
Indicates whether the UE supports pi/2-BPSK modulation scheme for PUSCH as				
defined in 6.3.1.2 of TS 38.211 [6]. It is mandatory with capability signalling for FR1				
and FR2. This capability is not applicable to IAB-MT.				
pusch-LBRM	UE	No	No	Yes
	OL	140	110	163
Indicates whether the UE supports limited buffer rate matching in UL as specified in				
TS 38.212 [10].				
pusch-RepetitionTypeA-r16	UE	No	No	No
Indicates whether the UE supports the dynamic indication of the number of				
repetitions for PUSCH transmission as specified in TS 38.214 [12], clause 6.1.2.1.				
Support of this field is reported for shared spectrum channel access and non-shared				
spectrum channel access, respectively. UE indicating support of this feature shall				
support at least one of type2-PUSCH-RepetitionMultiSlots and pusch-				
RepetitionMultiSlots for shared spectrum and non-shared spectrum respectively.				
		.		
ra-Type0-PUSCH	UE	No	No	No
Indicates whether the UE supports resource allocation Type 0 for PUSCH as				
specified in TS 38.214 [12].				
rateMatchingCtrlResrcSetDynamic	UE	Yes	No	No
	OL	163	INO	INO
Indicates whether the UE supports dynamic rate matching for DL control resource				
set.				
rateMatchingResrcSetDynamic	UE	No	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 bitmaps (see patternType in RateMatchPattern in TS				
38.331[9]) based on dynamic indication in the scheduling DCI as specified in TS				
38.214 [12].				
rateMatchingResrcSetSemi-Static	UE	Yes	No	No
	UL	162	INU	INU
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 bitmaps and controlResourceSet (see patternType in				
RateMatchPattern in TS 38.331[9]) following the semi-static configuration as				
specified in TS 38.214 [12].				
scs-60kHz	UE	No	No	FR1
Indicates whether the UE supports 60kHz subcarrier spacing for data channel in				only
FR1 as defined in clause 4.2-1 of TS 38.211 [6].				'
	115	NIC	Na	Yes
semiOpenLoopCSI	UE	No	No	res
Indicates whether UE supports CSI reporting with report quantity set to				
CRI/RI/i1/CQI ' as defined in clause 5.2.1.4 of TS 38.214 [12].				
semiStaticHARQ-ACK-Codebook	UE	Yes	No	No
		1 63	140	110
Indicates whether the UE supports HARQ-ACK codebook constructed by semi-				
static configuration.				
simultaneousTCI-ActMultipleCC-r16	UE	No	No	Yes
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 tci-StatePDSCH.				

simultaneousSpatialRelationMultipleCC-r16 Indicates the UE support of simultaneous spatial relation across multiple CCs for aperiodic and semi-persistent SRS. The UE indicating support of this also indicates the capabilities of maximum and active supported spatial relations for the supported FR2 bands using maxNumberConfiguredSpatialRelations and maxNumberActiveSpatialRelations.	UE	No	No	FR2 only
slotBasedDynamicPUCCH-Rep-r17 Indicates whether the UE supports both slot based dynamic PUCCH repetition and slot based dynamic repetition indication for PUCCH formats 0/1/2/3/4. UE indicating support of this feature shall also indicate support of pucch-Repetition-	UE	No	No	No
F1-3-4 or pucch-Repetition-F0-2-r17. spatialBundlingHARQ-ACK Indicates whether the UE supports spatial bundling of HARQ-ACK bits carried on PUCCH or PUSCH per PUCCH group. With spatial bundling, two HARQ-ACK bits for a DL MIMO data is bundled into a single bit by logical "AND" operation.	UE	Yes	No	No
spatialRelationUpdateAP-SRS-r16 Indicates the UE support of spatial relation update for AP-SRS using MAC CE. The UE indicating support of this also indicates the capabilities of supported SRS resources and maximum supported spatial relations for the supported FR2 bands using supportedSRS-Resources and maxNumberConfiguredSpatialRelations.	UE	No	No	FR2 only
spCellPlacement Indicates whether the UE supports a SpCell on FR1-FDD, FR1-TDD and/or FR2-TDD depending on which additional SCells of other frequency range(s) / duplex mode(s) are configured. It is applicable to NR SA and NR-DC (both MCG and SCG), where UL is configured on more than one of FR1-FDD, FR1-TDD and FR2-TDD in a cell group. If not included, the UE supports SpCell on any serving cell with UL in supported band combinations.	UE	No	No	No
 sps-HARQ-ACK-Deferral-r17 Indicates whether the UE supports SPS HARQ-ACK deferral in case of TDD collision comprised of the following functional components: Identify HARQ-ACK bits of active SPS configurations for deferral in the initial PUCCH slot; Determination of the target PUCCH slot for SPS HARQ-ACK deferral; Multiplexing and transmission of deferred SPS HARQ-ACK information in the target PUCCH slot; Handling of the collision for the same HARQ process due to deferred SPS HARQ-ACK. Support of this feature is reported for licensed and unlicensed bands, respectively. When this field is reported, either of non-SharedSpectrumChAccess-r17 or sharedSpectrumChAccess-r17 shall be reported, at least. A UE supporting this feature shall also indicate support of downlinkSPS. 	UE	No	TDD only	No
sp-CSI-IM Indicates whether the UE supports semi-persistent CSI-IM. sp-CSI-ReportPUCCH	UE UE	No	No	Yes
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.		No	No	No
sp-CSI-ReportPUSCH Indicates whether UE supports semi-persistent CSI reporting using PUSCH. This applies only to non-shared spectrum channel access. For shared spectrum channel access, sp-CSI-ReportPUSCH-r16 applies.	UE	No	No	No
sp-CSI-RS Indicates whether the UE supports semi-persistent CSI-RS.	UE	Yes	No	Yes
sps-ReleaseDCI-1-1-r16 Indicates whether the UE supports SPS release by DCI format 1_1. If the UE supports this feature, the UE needs to report downlinkSPS.	UE	No	No	No
sps-ReleaseDCI-1-2-r16 Indicates whether the UE supports SPS release by DCI format 1_2. If the UE supports this feature, the UE needs to report downlinkSPS and dci-Format1-2And0-2-r16.	UE	No	No	No
srs-AdditionalRepetition-r17 Indicates support of the value "n3" for repetitionFactor-r17.	UE	No	No	No
The UE indicating support of this feature shall also indicate support of <i>srs-increasedRepetition-r17</i> .				

srs-PeriodicityAndOffsetExt-r16 Indicates whether the UE supports the periodicity of semi-persistent and periodic SRS with 128, 256, 512, and 20480 slots.	UE	No	No	No
supportedActivatedPRS-ProcessingWindow-r17 Indicates the number of supported activated PRS processing windows across all active DL BWPs. The UE can include this field only if the UE supports one of prs-ProcessingWindowType1A-r17, prs-ProcessingWindowType1B-r17 or prs-ProcessingWindowType2-r17. Otherwise, the UE does not include this field.	UE	No	No	No
supportedDMRS-TypeDL Defines supported DM-RS configuration types at the UE for DL reception. Type 1 is mandatory with capability signalling. 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.	UE	No	No	No
For multi-DCI multi-TRP operation, if this feature is reported, UE does not support retransmission scheduled by PDCCH received in a different <i>CORESETPoolIndex</i> compared to the <i>CORESETPoolIndex</i> of the initial transmission, i.e., the UE is not expected to receive, for the same HARQ process ID, DCI from a different <i>CORESETPoolIndex</i> that schedules the retransmission, i.e., NDI not flipped. This applies to both PDSCH and PUSCH retransmissions.				
UE indicating support of this feature shall indicate support of <i>multiDCI-MultiTRP-r16</i> .				
ta-BasedPDC-TN-NonSharedSpectrumChAccess-r17 Indicates whether the UE supports propagation delay compensation based on Rel- 15 TA procedure for TN and non-shared spectrum channel access.	UE	No	No	No
targetSMTC-SCG-r16 Indicates the support of configuration of SMTC of target SCG cell with field targetCellSMTC-SCG.	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
tdd-PCellUL-TX-AllUL-Subframe-r16 Indicates whether the UE configured with tdm-patternConfig-r16 can be semi-statically configured with LTE UL transmissions in all UL subframes not limited to the reference tdm-pattern (only for type 1 UE) in case of TDD PCell. UE indicating support can configure LTE TDD PCell with this feature on the band combination which indicates support of tdm-restrictionTDD-endc-r16.	UE	No	TDD only	FR1 only
tpc-PUCCH-RNTI Indicates whether the UE supports group DCI message based on TPC-PUCCH-RNTI for TPC commands for PUCCH.	UE	No	No	Yes
tpc-PUSCH-RNTI Indicates whether the UE supports group DCI message based on TPC-PUSCH-RNTI for TPC commands for PUSCH.	UE	No	No	Yes
tpc-SRS-RNTI Indicates whether the UE supports group DCI message based on TPC-SRS-RNTI for TPC commands for SRS.	UE	No	No	Yes
twoDifferentTPC-Loop-PUCCH Indicates whether the UE supports two different TPC loops for PUCCH closed loop power control.	UE	Yes	Yes	Yes
twoDifferentTPC-Loop-PUSCH	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	UE	Yes	No	Yes
symbols. The left most in the bitmap corresponds to DL reception and the right most bit in the bitmap corresponds to UL transmission.				
twoFL-DMRS-TwoAdditionalDMRS-UL Defines whether the UE supports DM-RS pattern for UL transmission with 2 symbols front-loaded DM-RS with one additional 2 symbols DM-RS.	UE	Yes	No	Yes
twoPUCCH-AnyOthersInSlot Indicates whether the UE supports transmission of two PUCCH formats in TDM in the same slot, which are not covered by twoPUCCH-F0-2-ConsecSymbols and	UE	No	No	Yes
onePUCCH-LongAndShortFormat. twoPUCCH-F0-2-ConsecSymbols Indicates whether the UE supports transmission of two PUCCHs of format 0 or 2 in	UE	No	Yes	Yes
consecutive symbols in a slot. twoStepRACH-r16 Indicates 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. 				
twoTCI-Act-servingCellInCC-List-r16 Indicates whether the UE supports receiving the Enhanced TCI States Activation/Deactivation for UE-specific PDSCH MAC CE (as specified in TS 38.321 [8] clause 6.1.3.24) indicating a serving cell configured as part of simultaneousTCI-UpdateList1 or simultaneousTCI-UpdateList2 as specified in TS 38.331 [9]. If the UE indicates support of simultaneousTCI-ActMultipleCC-r16 for a FR and support of at least one of singleDCI-SDM-scheme-r16, supportFDM-SchemeA-r16, supportFDM-SchemeB-r16, supportTDM-SchemeA-r16 or supportInter-slotTDM-r16 for at least one band or component carrier of this FR, the UE shall indicate support twoTCI-Act-servingCellInCC-List-r16 for this FR.	UE	CY	No	Yes
type1-HARQ-ACK-Codebook-r16 Indicates whether the UE supports Type 1 HARQ-ACK codebook for TDRA using the starting symbol of the PDCCH monitoring occasion in which the DL assignment is detected as the reference of the SLIV. If the UE supports this feature, the UE needs to report dci-Format1-2And0-2-r16. Support for FR1/FR2 is differentiated	UE	No	No	Yes
from the viewpoint of the scheduled carrier. type1-PUSCH-RepetitionMultiSlots 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	No	No	No
type2-CG-ReleaseDCI-0-1-r16 Indicates whether the UE supports type 2 configured grant release by DCI format 0_1. If the UE supports this feature, the UE needs to report configuredUL-GrantType2 or configuredUL-GrantType2-v1650.	UE	No	No	No

type2-CG-ReleaseDCI-0-2-r16	UE	No	No	No
Indicates whether the UE supports type 2 configured grant release by DCI format				
0_2. If the UE supports this feature, the UE needs to report <i>configuredUL</i> -				
GrantType2 or configuredUL-GrantType2-v1650 and dci-Format1-2And0-2-r16.				
type2-HARQ-ACK-Codebook-r16	UE	No	No	No
Indicates whether the UE supports Type 2 HARQ-ACK codebook when HARQ-ACK				
feedback in a codebook corresponds to more than one unicast DL DCI for same				
scheduled cell in a monitoring occasion of a scheduling cell using the PDSCH				
starting time in addition to the existing monitoring occasion and Cell index to order				
the HARQ-ACK feedback.				
type2-PUSCH-RepetitionMultiSlots	UE	No	No	No
Indicates whether the UE supports Type 2 PUSCH transmissions with configured				
grant as specified in TS 38.214 [12] with UL-TWG-repK value equal to 2, 4, or 8				
with a single repetition of the transport block within each slot, and redundancy				
version pattern as indicated by UL-TWG-RV-rep. A UE supporting this feature shall				
also support Type 2 PUSCH transmissions with configured grant as specified in TS				
38.214 [12] with UL-TWG-repK value of one. This applies only to non-shared				
spectrum channel access. For shared spectrum channel access, type2-PUSCH-				
RepetitionMultiSlots-r16 applies.				
type2-SP-CSI-Feedback-LongPUCCH	UE	No	No	No
Indicates whether UE supports Type II CSI semi-persistent CSI reporting over				
PUCCH Formats 3 and 4 as defined in clause 5.2.4 of TS 38.214 [12].				
uci-CodeBlockSegmentation	UE	Yes	No	Yes
Indicates whether the UE supports segmenting UCI into multiple code blocks				
depending on the payload size.				
ul-64QAM-MCS-TableAlt	UE	No	No	Yes
Indicates whether the UE supports the alternative 64QAM MCS table for PUSCH				
with and without transform precoding respectively.				
ul-SchedulingOffset	UE	Yes	Yes	Yes
Indicates whether the UE supports UL scheduling slot offset (K2) greater than 12.				
unifiedJointTCI-commonUpdate-r17	UE	No	No	No
Indicates the maximum number of configured CC lists per cell group for common				
multi-CC TCI state ID update and activation.				
The UE indicating support of this feature shall also indicate support of				
unifiedJointTCI-commonMultiCC-r17 or unifiedSeparateTCI-commonMultiCC-r17.				

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
downlinkSetNR Indicates the features that the UE supports on the DL carriers corresponding to one NR band entry in a band combination by FeatureSetDownlinkId. The FeatureSetDownlinkId = 0 means that the UE does not support a DL carrier in this band of a band combination. A fallback per band feature set resulting from the reported DL feature set that has fallback per CC feature set is not signalled but the UE shall support it.	Band	N/A	N/A	N/A
extendedBand-n77-r16 This field is only applicable for UEs that indicate support for band n77. If present, the UE supports the restriction to 3450 - 3550 MHz and 3700 - 3980 MHz ranges of band n77 in the USA as specified in Note 12 of Table 5.2-1 in TS 38.101-1 [2]. If absent, the UE supports only restriction to the 3700 - 3980 MHz range of band n77 in the USA. A UE that indicates this field shall also support NS value 55 as specified in TS 38.101-1 [2]. A UE supporting NS value 55 shall indicate this field.	UE	No	No	No
extendedBand-n77-2-r17 This field is only applicable for UEs that indicate support for band n77. If present, the UE supports the restriction to 3450 - 3650 MHz and 3650 - 3980 ranges of band n77 in Canada as specified in Note 12 of Table 5.2-1 in TS 38.101-1 [2]. If absent, the UE supports only restriction to the 3450 - 3650 MHz range of band n77 in Canada. A UE that indicates this field shall also support NS value 57 as specified in TS 38.101-1 [2]. A UE supporting NS value 57 shall indicate this field.	UE	No	No	No
featureSetCombinations Pools of feature sets that the UE supports on the NR or MR-DC band combinations.	UE	N/A	No	No
featureSets Pools of downlink and uplink features sets as well as a pool of FeatureSetCombination elements. A FeatureSetCombination refers to the IDs of the feature set(s) that the UE supports in that FeatureSetCombination. The BandCombination entries in the BandCombinationList then indicate the ID of the FeatureSetCombination that the UE supports for that band combination.	UE	N/A	No	No
naics-Capability-List Indicates that UE in MR-DC supports NAICS as defined in TS 36.331 [17].	UE	No	No	No
receivedFilters Contains all filters requested with UE-CapabilityRequestFilterNR from version 15.6.0 onwards.	UE	No	No	No
supportedBandCombinationList Defines the supported NR and/or MR-DC band combinations by the UE. For each band combination the UE identifies the associated feature set combination by featureSetCombinations index referring to featureSetCombination. A fallback band combination resulting from the reported CA and MR-DC band combination is not signalled but the UE shall support it. For intra-band non-contiguous CA band combinations, the UE only includes one band combination, and exclude the others for which the presence of uplink CA bandwidth class in the band combination entry is different. One band combination entry can also indicate support of any other possible permutations in the presence of uplink CA bandwidth class where a paired downlink CA bandwidth class is the same or where the number of UL CCs is smaller than the one of paired DL CCs expressed by the CA bandwidth class, as specified in TS 36.306 [15]. For these band combinations not included in the capability, the supported feature set is the same as the ones for the band combination included in the UE capability.	UE	Yes	No	No
supportedBandCombinationListNEDC-Only Defines the supported NE-DC only type of band combinations by the UE.	UE	No	No	No

supportedBandCombinationList-UplinkTxSwitch-r16	UE	No	No	No
Defines the NR inter-band UL CA, SUL and/or EN-DC band combinations where UE				
supports dynamic UL Tx switching. UE only includes this field if requested by the				
network. All fallback band combinations resulting from the reported band				
combination, which include at least one band pair supporting dynamic UL Tx				
switching as indicated in <i>ULTxSwitchingBandPair</i> , shall be supported by the UE.				
supportedBandListNR	UE	Yes	No	No
Includes the supported NR bands as defined in TS 38.101-1 [2], TS 38.101-2 [3],				
and TS 38.101-5 [34].				
uplinkSetEUTRA	Band	N/A	N/A	N/A
Indicates the features that the UE supports on the UL carriers corresponding to one				
EUTRA band entry in a band combination by FeatureSetEUTRA-Uplinkld. The				
FeatureSetUplinkId = 0 means that the UE does not support a UL carrier in this				
band of a band combination.				
uplinkSetNR	Band	N/A	N/A	N/A
Indicates the features that the UE supports on the UL carriers corresponding to one				
NR band entry in a band combination by FeatureSetUplinkId. The				
FeatureSetUplinkId = 0 means that the UE does not support a UL carrier in this				
band of a band combination. A fallback per band feature set resulting from the				
reported UL feature set that has fallback per CC feature set is not signalled but the				
UE shall support it.				

4.2.7.12 NRDC-Parameters

Definitions for parameters	Per	М	FDD- TDD 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. If the band combination includes both FR1 and FR2 bands, a UE indicating this capability shall support asynchronous NR-DC configuration where all serving cells of the MCG are in FR1 and all serving cells of the SCG are in FR2.	ВС	No	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.	ВС	No	No	No
intraFR-NR-DC-PwrSharingMode1-r16 Indicates whether the UE supports intra-FR NR-DC with semi-static power sharing mode1 between MCG and SCG cells of same frequency range as defined in TS 38.213 [11]. If this field is absent, the UE does not support intra-FR NR-DC. In case MCG and SCG have cells in different frequency ranges, this field indicates the support of power sharing only between MCG and SCG cells with UL in FR1.	ВС	No	No	FR1 only
intraFR-NR-DC-PwrSharingMode2-r16 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 intraFR-NR-DC-PwrSharingMode1-r16. In case MCG and SCG have cells in different frequency ranges, this field indicates the support of power sharing only between MCG and SCG cells with UL in FR1.	ВС	No	No	FR1 only
intraFR-NR-DC-DynamicPwrSharing-r16 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 intraFR-NR-DC-PwrSharingMode1-r16. In case MCG and SCG have cells in different frequency ranges, this field indicates the support of power sharing only between MCG and SCG cells with UL in FR1.	BC	No	No	FR1 only
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 maxNumberCSI-RS-BFD and maxNumberSSB-BFD 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 RRCReconfiguration included in an RRCResume message, as specified in TS 38.331 [9]. A UE supporting this feature shall indicate support of NR-DC and of resumeWithSCG-Config-r16 as specified in TS 38.331 [9]. For the UE supporting this feature, it is mandatory to report maxNumberCSI-RS-BFD and maxNumberSSB-BFD for all NR bands of this band combination where the UE supports SpCell.	BC	No	No	No
sfn-SyncNRDC 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	ВС	No	No	No
Indicates which NR-DC cell groupings the UE supports for the given NR-DC band				
combination, i.e., mapping of serving cells to MCG and SCG, and the operation				
mode (synchronous or asynchronous), as requested by the network via				
requestedCellGrouping-r16.				
The bitmap reported in this field refers to the cell grouping IDs that the network				
requested in requestedCellGrouping-r16. The first (leftmost) bit corresponds to ID#0				
(i.e. the first element in requestedCellGrouping-r16), the second bit corresponds to				
ID#1 (i.e. the second element in <i>requestedCellGrouping-r16</i>) and so on.				
NOTE: Irrespective of the indicated 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> .				

4.2.7.13 CarrierAggregationVariant

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

4.2.7.14 *Phy-ParametersSharedSpectrumChAccess*

Definitions for parameters	Per	М	FDD- TDD DIFF	FR1- FR2 DIFF
configuredUL-GrantType1-r16 Indicates whether the UE supports Type 1 PUSCH transmissions with configured grant as specified in TS 38.214 [12] with UL-TWG-repK value of one in shared spectrum channel access.	UE	No	No	No
configuredUL-GrantType2-r16 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
downlinkSPS-r16 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
dynamicSFI-r16 Indicates whether the UE supports monitoring for DCI format 2_0 and determination of slot formats via DCI format 2_0 in shared spectrum channel access.	UE	No	No	No
mux-HARQ-ACK-PUSCH-DiffSymbol-r16 Indicates whether the UE supports HARQ-ACK piggyback on a PUSCH with/without aperiodic CSI once per slot when the starting OFDM symbol of the PUSCH is different from the starting OFDM symbols of the PUCCH resource that HARQ-ACK would have been transmitted on in shared spectrum channel access. This feature is mandatory if UE supports any of the deployment scenarios A.2, B, C,	UE	CY	No	No
D and E in Annex B.3 of TS 38.300 [28]. mux-SR-HARQ-ACK-CSI-PUCCH-MultiPerSlot-r16 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
mux-SR-HARQ-ACK-CSI-PUCCH-OncePerSlot-r16 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. diffSymbol 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 <code>sameSymbol</code> in this field and does not support <code>mux-HARQ-ACK-PUSCH-DiffSymbol-r16</code> , the UE supports <code>HARQ-ACK/CSI</code> piggyback on <code>PUSCH</code> once per slot, when the starting <code>OFDM</code> symbol of the <code>PUSCH</code> is the same as the starting <code>OFDM</code> symbols of the <code>PUCCH</code> resource(s) that would have been transmitted on. If the UE indicates <code>sameSymbol</code> in this field and supports <code>mux-HARQ-ACK-PUSCH-DiffSymbol-r16</code> , the UE supports <code>HARQ-ACK/CSI</code> piggyback on <code>PUSCH</code> once per slot for which case the starting <code>OFDM</code> symbol of the <code>PUSCH</code> is the different from the starting <code>OFDM</code> symbols of the <code>PUCCH</code> 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].				
mux-SR-HARQ-ACK-PUCCH-r16 Indicates whether the UE supports multiplexing SR and HARQ-ACK on a PUCCH or piggybacking on a PUSCH once per slot, when SR and HARQ-ACK are supposed to be sent with the different starting symbols in a slot in shared spectrum channel access.	UE	No	No	No
pdsch-RepetitionMultiSlots-r16 Indicates whether the UE supports receiving PDSCH scheduled by DCI format 1_1 when configured with pdsch-AggregationFactor > 1, as defined in 5.1.2.1 of TS 38.214 [12] in shared spectrum channel access.	UE	No	No	No
pre-EmptIndication-DL-r16 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 <i>pusch-AggregationFactor</i> > 1, as defined in clause				
6.1.2.1 of TS 38.214 [12] in shared spectrum channel access. This feature is				
mandatory if UE supports any of the deployment scenarios A.2, B, C, D and E in				
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.				
comigation grant at appearing in the delet i [12] mini de i tito repit valdo di dilo.				

4.2.8 Void

4.2.9 *MeasAndMobParameters*

Definitions for parameters	Per	M	FDD- TDD DIFF	FR1- FR2 DIFF
cli-RSSI-Meas-r16 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 maxNumberCLI-RSSI-r16. If this parameter is indicated for FR1 and FR2 differently, each indication corresponds to the frequency range of measurement resources to be measured.	UE	No	TDD only	Yes
cli-SRS-RSRP-Meas-r16 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 maxNumberCLI-SRS-RSRP-r16 and maxNumberPerSlotCLI-SRS-RSRP-r16. If this parameter is indicated for FR1 and FR2 differently, each indication corresponds to the frequency range of measurement resources to be measured.	UE	No	TDD only	Yes
 concurrentMeasGap-r17 Indicates whether the UE supports the concurrent measurements gaps as specified in TS 38.133 [5]. The capability signalling comprises the following parameters: concurrentPerUE-OnlyMeasGap-r17 indicates whether the UE supports more than 1 per-UE measurement gap configurations (i.e. gap combination configuration id = 2 as specified in TS38.133 [5]), or concurrentPerUE-PerFRCombMeasGap-r17 indicates whether the UE supports all concurrent gap combination configurations as specified in TS 38.133 [5] including support of more than 1 per-UE measurement gap configurations. For UE capable of Rel-15 per-FR gap	UE	No	No	No
concurrentMeasGapEUTRA-r17 Indicates whether the UE support the configurations of E-UTRAN measurement objectives associated with more than 1 concurrent measurement gaps as specified in TS 38.133 [5]. The UE indicating support of this feature shall also indicate support of concurrentMeasGap-r17.	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 condHandover-r16 is set for both FDD and TDD. The UE that indicates support of this feature shall also indicate support of handoverFDD-TDD.	UE	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 condHandover-r16 is set for both FR1 and FR2. The UE that indicates support of this feature shall also indicate support of handoverFR1-FR2.	UE	No	No	No
condHandoverWithSCG-NRDC-r17 Indicates whether the UE supports conditional handover with NR SCG configuration for NR-DC. The UE indicating support of this feature shall also indicate the support of condHandover-r16 and support of at least one NR-DC band combination.	UE	No	No	No
csi-RS-RLM Indicates whether the UE can perform radio link monitoring procedure based on measurement of CSI-RS as specified in TS 38.213 [11] and TS 38.133 [5]. This parameter needs FR1 and FR2 differentiation. If the UE supports this feature, the UE needs to report maxNumberResource-CSI-RS-RLM. This applies only to non-shared spectrum channel access. For shared spectrum channel access, csi-RS-RLM-r16 applies.	UE	Yes	No	Yes

Definitions for parameters	Per	M	FDD- TDD DIFF	FR1- FR2 DIFF
csi-RSRP-AndRSRQ-MeasWithSSB 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 maxNumberCSI-RS-RRM-RS-SINR. This applies only to non-shared spectrum channel access. For shared spectrum channel access, csi-RS-RLM-r16 applies.	UE	No	No	Yes
csi-RSRP-AndRSRQ-MeasWithoutSSB Indicates whether the UE can perform CSI-RSRP and CSI-RSRQ measurement as specified in TS 38.215 [13], where CSI-RS resource is configured for a cell that transmits SS/PBCH block and without an associated SS/PBCH block. If this parameter is indicated for FR1 and FR2 differently, each indication corresponds to the frequency range of measured target cell. If the UE supports this feature, the UE needs to report maxNumberCSI-RS-RRM-RS-SINR. This applies only to non-shared spectrum channel access. For shared spectrum channel access, csi-RSRP-AndRSRQ-MeasWithoutSSB-r16 applies.	UE	No	No	Yes
csi-SINR-Meas 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 maxNumberCSI-RS-RRM-RS-SINR. This applies only to non-shared spectrum channel access. For shared spectrum channel access, csi-SINR-Meas-r16 applies.	UE	No	No	Yes
deriveSSB-IndexFromCellInterNon-NCSG-r17 Indicates whether the UE supports configuration of deriveSSB-IndexFromCellInter-r17 in MeasObjectNR. This field applies to NR SA, MN configured measurements when NR-DC or NE-DC is configured, and SN configured measurements when NR-DC or (NG)EN-DC is configured. UE supporting this feature is required to meet the measurement requirements in TS 38.133 [5]. This field applies only to non-NCSG capable UEs (i.e. UEs not supporting ncsg-MeasGapNR-Patterns-r17).	UE	No	No	No
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 onduration 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 NEDC is configured.	UE	No	No	No

Definitions for parameters	Per	M	FDD- TDD DIFF	FR1- FR2 DIFF
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
eutra-NeedForGapNCSG-Reporting-r17 Indicates whether the UE supports reporting of the NCSG and measurement gap requirement information for E-UTRA target bands in the UE response to a network configuration RRC message as specified in TS 38.331 [9].	UE	No	No	No
eventA-MeasAndReport Indicates whether the UE supports NR measurements and events A triggered reporting as specified in TS 38.331 [9]. This field only applies to SN configured measurement when (NG)EN-DC is configured. For NR SA, MN and SN configured measurement when NR-DC is configured, and MN configured measurement when NE-DC is configured, this feature is mandatory supported.	UE	Yes	Yes	No
eventB-MeasAndReport Indicates whether the UE supports EUTRA measurement and event B triggered reporting as specified in TS 38.331 [9]. It is mandated if the UE supports EUTRA.	UE	CY	No	No
eventD1-MeasReportTrigger-r17 Indicates whether the UE supports location-based triggered measurement reporting (i.e., event D1) as specified in TS 38.331 [9]. It is mandated if the UE supports locationBasedCondHandover-r17 in any NTN band.	UE	CY	No	No
gNB-ID-LengthReporting-r17 Indicates whether the UE supports acquisition and reporting of gNB ID length from a neighbouring intra-frequency or inter-frequency NR cell by reading the SI of the neighbouring cell and reporting the acquired gNB ID length to the network as specified in TS 38.331 [9] when (NG)EN-DC and NE-DC are not configured or, when consistent DRX is configured in NR-DC. The consistent DRX configuration implies that MN and SN have the same DRX cycle and on-duration configured by MN completely contains on-duration configured by SN. It is mandated if UE supports NR CGI reporting (NG)EN-DC and NE-DC are not configured or, when consistent DRX is configured in NR-DC.	UE	СҮ	No	No
gNB-ID-LengthReporting-ENDC-r17 Indicates whether the UE supports acquisition and reporting of gNB ID length from a neighbouring intra-frequency or inter-frequency NR cell by reading the SI of the neighbouring cell and reporting the acquired gNB ID length to the network as specified in TS 38.331 [9] when the (NG)EN-DC is configured. It is mandated if UE supports NR CGI reporting when (NG)EN-DC is configured.	UE	CY	No	No
gNB-ID-LengthReporting-NEDC-r17 Indicates whether the UE supports acquisition and reporting of gNB ID length from a neighbouring intra-frequency or inter-frequency NR cell by reading the SI of the neighbouring cell and reporting the acquired gNB ID length to the network as specified in TS 38.331 [9] when the NE-DC is configured. It is mandated if UE supports NR CGI reporting when NE-DC is configured.	UE	CY	No	No
gNB-ID-LengthReporting-NRDC-r17 Indicates whether the UE supports acquisition and reporting of gNB ID length from a neighbouring intra-frequency or inter-frequency NR cell by reading the SI of the neighbouring cell and reporting the acquired gNB ID length to the network as specified in TS 38.331 [9] when the NR-DC is configured wherein MN and SN have different DRX cycles, or on-duration configured by MN does not contain on-duration configured by SN if the DRX cycles are the same. It is mandated if UE supports NR CGI reporting when NR-DC is configured.	UE	СҮ	No	No
gNB-ID-LengthReporting-NPN-r17 Indicates whether the UE supports acquisition of NPN-relevant gNB ID length from a neighbouring intra-frequency or inter-frequency NR NPN cell by reading the SI of the neighbouring cell and reporting the acquired gNB ID length to the network as specified in TS 38.331 [9]. It is mandated if UE supports NPN CGI reporting.	UE	CY	No	No
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)

Definitions for parameters	Per	M	FDD- TDD DIFF	FR1- FR2 DIFF
Indicates whether the UE supports HO between FDD and TDD. It is mandated if the UE supports both FDD and TDD. This field only applies to NR SA/NR-DC/NE-DC (e.g. PCell handover). For PSCell change when (NG)EN-DC/NR-DC is configured, this feature is mandatory supported. UEs supporting this shall indicate support of handoverInterF for both FDD and TDD.	UE	Yes	No	No
handoverFR1-FR2 Indicates whether the UE supports HO between FR1 and FR2. Support is mandatory for the UE supporting both FR1 and FR2. This field only applies to NR SA/NR-DC/NE-DC (e.g. PCell handover). For PSCell change when (NG)EN-DC/NR-DC is configured, this feature is mandatory supported. UEs supporting this shall indicate support of handoverInterF for both FR1 and FR2.	UE	Yes	No	No
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
handoverInterF, handoverInterF-r17 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)
idleInactiveNR-MeasReport-r16, idleInactiveNR-MeasReport-r17 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)
idleInactiveNR-MeasBeamReport-r16 Indicates whether the UE supports beam level measurements in RRC_IDLE/RRC_INACTIVE and reporting of the corresponding beam measurement results upon network request as specified in TS 38.331 [9]. A UE supports this feature shall also support idleInactiveNR-MeasReport-r16. If this parameter is indicated for FR1 and FR2 differently, each indication corresponds to the frequency range of measured target cell.	UE	No	No	Yes
idleInactiveEUTRA-MeasReport-r16 Indicates whether the UE supports configuration of E-UTRA measurements in RRC_IDLE/RRC_INACTIVE and reporting of the corresponding results upon network request as specified in TS 38.331 [9].	UE	No	No	No
idleInactive-ValidityArea-r16 Indicates whether the UE supports configuration of a validity area for NR measurements in RRC_IDLE/RRC_INACTIVE as specified in TS 38.331 [9].	UE	No	No	No
increasedNumberofCSIRSPerMO-r16 Indicates support of up to 192 CSI-RS resource for L3 mobility configuration per measurement object configured with associatedSSB.	UE	No	No	Yes
independentGapConfig 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

Definitions for parameters	Per	М	FDD- TDD DIFF	FR1- FR2 DIFF
independentGapConfig-maxCC-r17 This field indicates whether the UE supports two independent measurement gap configurations for FR1 and FR2 as specified in clause 9.1.2 of TS 38.133 [5] while the number of configured serving cells is less than or equal to the indicated number.	UE	No	No	No
 The capability signaling includes the following parameters: fr1-Only-r17 indicates the maximum number of configured serving cells when only NR FR1 serving cells are configured fr2-Only-r17 indicates the maximum number of configured serving cells when only NR FR2 serving cells are configured fr1-AndFR2-r17 indicates the maximum number of configured serving cells when both NR FR1 and NR FR2 serving cells are configured 				
The absence of the <i>fr1-Only-r17</i> or <i>fr2-Only-r17</i> field indicates that per-FR gap is not supported when only FR1 or FR2 serving cells are configured. Absence of the <i>fr1-AndFR2</i> field indicates that per-FR-gap is not supported when both FR1 and FR2 serving cells are configured. Value "1" for <i>fr1-Only-r17</i> or <i>fr2-Only-r17</i> indicates support of the per-FR gap when only PCell is configured (no additional CC). Value "2" for <i>fr1-Only-r17</i> or <i>fr2-Only-r17</i> indicates support of the per-FR gap when PCell and 1 additional CC are configured, and so on. Value "1" or "2" for <i>fr1-AndFR2-r17</i> indicates the support of per-FR gap when PCell and "1" additional CC are configured.				
UE indicating support of this feature in <i>UE-NR-Capability</i> shall not indicate support				
of independentGapConfig in UE-NR-Capability. independentGapConfigPRS-r17 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
intraAndInterF-MeasAndReport 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
interFrequencyMeas-NoGap-r16 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
interSatMeas-r17 Indicates whether the UE supports inter-satellite measurement as specified in TS 38.331 [9]. It is mandatory if the UE supports nonTerrestrialNetwork-r17.	UE	CY	No	No
maxNumberCLI-RSSI-r16 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.	UE	CY	TDD only	No
NOTE 1: A slot is based on minimum SCS among active BWPs across all CCs configured for SRS-RSRP measurement. NOTE 2: A SRS resource occasion that overlaps with the slot is counted as one measurement resource in the slot.				

Definitions for parameters	Per	М	FDD- TDD DIFF	FR1- FR2 DIFF
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
NOTE: A slot is based on minimum SCS among all measurement frequencies configured for RRM and RS-SINR measurement.				
maxNumberPerSlotCLI-SRS-RSRP-r16 Defines the maximum number of SRS-RSRP measurement resources per slot for SRS-RSRP measurement. If the UE supports cli-SRS-RSRP-Meas-r16, the UE shall report this capability.	UE	CY	TDD only	No
maxNumberResource-CSI-RS-RLM Defines the maximum number of CSI-RS resources within a slot per spCell for CSI-RS based RLM. If UE supports any of csi-RS-RLM and ssb-AndCSI-RS-RLM, UE shall report this capability.	UE	CY	No	Yes
ncsg-MeasGapNR-Patterns-r17 Indicates whether the UE supports NR-only NCSG patterns. The left most bit in the bitmap corresponds to NCSG pattern #0 and the right most bit in the bitmap corresponds to NCSG pattern #23. A bit in the bitmap is set to 1 if the corresponding pattern is supported by the UE. NCSG patterns #0 to #23 are as specified in TS38.133 [5].	UE	No	No	No
NCSG patterns #2 and #3 are mandatory (i.e. the corresponding bits in the bitmap is set to 1) if the UE includes this field. NCSG patterns #17 and #18 are mandatory (i.e. the corresponding bits in the bitmap is set to 1) if UE includes this field and supports a FR2 band. UEs supporting this shall indicate support of <i>nr-NeedForGapNCSG-Reporting-r17</i> .				
ncsg-MeasGapPatterns-r17 Indicates whether the UE supports NCSG patterns. The left most bit in the bitmap corresponds to NCSG pattern #0 and the right most bit in the bitmap corresponds to NCSG pattern #23. A bit in the bitmap is set to 1 if the corresponding pattern is supported by the UE. NCSG patterns #0 to #23 are as specified in TS38.133 [5]. NCSG patterns #0 and #1 are mandatory (i.e. the corresponding bits in the bitmap is set to 1) if the UE includes this field. NCSG patterns #13 and #14 are mandatory (i.e. the corresponding bits in the bitmap is set to 1) if UE supports ncsg-	UE	No	No	No
MeasGapPerFR-r17 or if the UE is NCSG capable and supports FR2 band in standalone mode. UEs supporting this shall indicate support of nr-NeedForGapNCSG-Reporting-r17 or eutra-NeedForGapNCSG-Reporting-r17.	UE	No	No	No
ncsg-MeasGapPerFR-r17 Indicates whether the UE supports per-FR NCSG. UEs supporting this shall indicate support of nr-NeedForGapNCSG-Reporting-r17.	UE	No	No	NO
ncsg-SymbolLevelScheduleRestrictionInter-r17 Indicates whether the UE supports performing measurement with NCSG based on flag deriveSSB-IndexFromCell-inter and meeting the following requirements that the scheduling restriction in FR2 serving cell during NCSG ML is on SSB symbol level. UEs supporting this shall indicate support of nr-NeedForGapNCSG-Reporting-r17.	UE	No	No	FR2 only
nr-AutonomousGaps-r16 Defines whether the UE supports, upon configuration of useAutonomousGaps by the network, acquisition of relevant information from a neighbouring NR cell by reading the SI of the neighbouring cell using autonomous gap and reporting the acquired information to the network as specified in TS 38.331 [9] when 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
nr-Autonomous Gaps-ENDC-r16 Defines whether the UE supports, upon configuration of useAutonomous Gaps 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)ENDC 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	М	FDD- TDD DIFF	FR1- FR2 DIFF
nr-AutonomousGaps-NEDC-r16 Defines whether the UE supports, upon configuration of useAutonomousGaps by the network, acquisition of relevant information from a neighbouring NR cell by reading the SI of the neighbouring cell using autonomous gap and reporting the acquired information to the network as specified in TS 38.331 [9] when NE-DC is configured. If this parameter is indicated for FR1 and FR2 differently, each indication corresponds to the frequency range of measured target cell.	UE	No	No	Yes
nr-AutonomousGaps-NRDC-r16 Defines whether the UE supports, upon configuration of useAutonomousGaps by the network, acquisition of relevant information from a neighbouring NR cell by reading the SI of the neighbouring cell using autonomous gap and reporting the acquired information to the network as specified in TS 38.331 [9] when 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
nr-CGI-Reporting 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	CY	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	CY	No	No
nr-CGI-Reporting-NEDC 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
nr-CGI-Reporting-NPN-r16 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
nr-CGI-Reporting-NRDC 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 onduration configured by SN if the DRX cycles are the same.	UE	Yes	No	No
nr-NeedForGapNCSG-Reporting-r17 Indicates whether the UE supports reporting of the NCSG and measurement gap requirement information for SSB based measurement in the UE response to a network configuration RRC message as specified in TS 38.331 [9].	UE	No	No	No
nr-NeedForGap-Reporting-r16 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
parallelMeasurementGap-r17 Indicates whether the UE supports 2 parallel measurement gaps for NTN SSB based RRM measurements. If a UE does not include this field but includes nonTerrestrialNetwork-r17, the UE supports 1 measurement gap for NTN SSB based RRM measurements. If this parameter is indicated, a UE shall also support that two parallel measurement gaps with the same gap type can be associated to one frequency layer. A UE supporting this feature shall also indicate the support of nonTerrestrialNetwork-r17.	UE	No	FDD only	FR1 only

Definitions for parameters	Per	М	FDD- TDD DIFF	FR1- FR2 DIFF
parallelSMTC-r17 Indicates whether the UE supports NTN SSB based RRM measurements on target cells belonging to 4 SMTC-s on a single frequency carrier. If a UE does not include this field but includes nonTerrestrialNetwork-r17, the UE supports NTN SSB based RRM measurements on target cells belonging to 2 SMTC-s on a single frequency carrier.	UE	No	FDD only	FR1 only
periodicEUTRA-MeasAndReport Indicates whether the UE supports periodic EUTRA measurement and reporting. It is mandated if the UE supports EUTRA.	UE	CY	No	No
pcellT312-r16 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
preconfiguredNW-ControlledMeasGap-r17 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
serviceLinkPropDelayDiffReporting-r17 Indicates whether the UE supports the reporting of service link propagation delay difference between serving cell and neighbour cell(s). A UE supporting this feature shall also indicate the support of nonTerrestrialNetwork-r17.	UE	No	No	No
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
simultaneousRxDataSSB-DiffNumerology-Inter-r16 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 interFrequencyMeas-NoGap-r16. If this parameter is indicated for FR1 and FR2 differently, each indication corresponds to the frequency range where the SSB and PDCCH/PDSCH are received.	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
sftd-MeasPSCell-NEDC Indicates whether the UE supports SFTD measurement between the NR PCell and a configured E-UTRA PSCell in NE-DC.	UE	No	Yes	No
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
sftd-MeasNR-Neigh-DRX 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

Definitions for parameters	Per	М	FDD- TDD DIFF	FR1- FR2 DIFF
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 maxNumberResource-CSI-RS-RLM. This applies only to non-shared spectrum channel access. For shared spectrum channel access, ssb-AndCSI-RS-RLM-r16 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
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 independentGapConfig and supports a band in FR2.	UE	СҮ	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 NR-DL-PRS-ProcessingCapability-r16 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
condHandoverWithSCG-ENDC-r17 Indicates whether the UE supports conditional handover with NR SCG configuration for EN-DC. The UE indicating support of this feature shall also indicate the support of cho-r16 as specified in TS 36.306 [15] and at least one EN-DC band combination.	UE	No	No	No
condHandoverWithSCG-NEDC-r17 Indicates whether the UE supports conditional handover with E-UTRA SCG configuration for NE-DC. The UE indicating support of this feature shall also indicate the support of condHandover-r16 and at least one NE-DC band combination.	UE	No	No	No
condPSCellChangeFDD-TDD-r16 Indicates whether the UE supports conditional PSCell change between FDD and TDD cells. The parameter can only be set if condPSCellChange-r16 is set for both FDD and TDD.	UE	No	No	No
condPSCellChangeFR1-FR2-r16 Indicates whether the UE supports conditional PSCell change between FR1 and FR2. The parameter can only be set if condPSCellChange-r16 is set for both FR1 and FR2.	UE	No	No	No
independentGapConfig-maxCC-r17 This field indicates whether the UE supports two independent measurement gap configurations for FR1 and FR2 as specified in clause 9.1.2 of TS 38.133 [5] while the number of configured serving cells is less than or equal to the indicated number.	UE	No	No	No
 The capability signaling includes the following parameters: fr1-Only-r17 indicates the maximum number of configured serving cells when E-UTRA and NR FR1 serving cells are configured fr2-Only-r17 is not applicable when the field independentGapConfigmaxCC-r17 is included in UE-MRDC-Capability. fr1-AndFR2-r17 indicates the maximum number of configured serving cells when E-UTRA and NR FR2 serving cells are configured or when E-UTRA, NR FR1 and NR FR2 serving cells are configured. 				
The absence of the <i>fr1-Only-r17</i> field indicates that per-FR gap is not supported when E-UTRA and NR FR1 serving cells are configured. Absence of the <i>fr1-AndFR2</i> field indicates that per-FR-gap is not supported when E-UTRA and NR FR2 serving cells are configured or when E-UTRA, NR FR1 and NR FR2 serving cells are configured. Value "1" or "2" for <i>fr1-Only-r17</i> or <i>fr1-AndFR2-r17</i> indicates the support of per-FR gap when PCell and "1" additional CC are configured.				
UE indicating support of this feature in <i>UE-MRDC-Capability</i> shall not indicate support of <i>independentGapConfig</i> in <i>UE-MRDC-Capability</i> .				
 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-FR1TDD-ENDC-r17 and sn-InitiatedCondPSCellChange-FR2TDD-ENDC-r17 is supported. 	UE	No	No	No
inter-SN-condPSCellChangeFDD-TDD-NRDC-r17 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 mn-InitiatedCondPSCellChangeNRDC-r17 is set for FDD band(s) and TDD band(s), or sn-InitiatedCondPSCellChangeNRDC-r17 is set for FDD band(s) and TDD band(s).	UE	No	No	No

inter-SN-condPSCellChangeFR1-FR2-ENDC-r17	UE	No	No	No
Indicates whether the UE supports inter SN conditional PSCell change between				
FR1 and FR2 cells in EN-DC.				
The parameter can only be set:				
- if mn-InitiatedCondPSCellChange-FR2TDD-ENDC-r17 is supported and at				
least one of mn-InitiatedCondPSCellChange-FR1TDD-ENDC-r17 and mn-				
InitiatedCondPSCellChange-FR1FDD-ENDC-r17 is supported; or				
- if sn-InitiatedCondPSCellChange-FR2TDD-ENDC-r17 is supported and at				
least one of sn-InitiatedCondPSCellChange-FR1TDD-ENDC-r17 and sn-InitiatedCondPSCellChange-FR1FDD-ENDC-r17 is supported.				
inter-SN-condPSCellChangeFR1-FR2-NRDC-r17	UE	No	No	No
Indicates whether the UE supports inter SN conditional PSCell change between	OL	INO	INU	110
FR1 and FR2 cells. The parameter can only be set if <i>mn</i> -				
InitiatedCondPSCellChangeNRDC-r17 is set for FR1 band(s) and FR2 band(s), or				
sn-InitiatedCondPSCellChangeNRDC-r17 is set for FR1 band(s) and FR2 band(s).				
mn-InitiatedCondPSCellChange-FR1FDD-ENDC-r17	UE	No	No	No
Indicates whether the UE supports MN initiated conditional PSCell change within	0	110	110	140
all supported FR1-FDD bands in EN-DC, which is configured by E-UTRA				
conditionalReconfiguration field using MN configured measurement as triggering				
condition. The UE supporting this feature shall also support 2 trigger events for				
same execution condition in MN initiated conditional PSCell change in EN-DC.				
mn-InitiatedCondPSCellChange-FR1TDD-ENDC-r17	UE	No	No	No
ndicates whether the UE supports MN initiated conditional PSCell change within	"-			
all supported FR1-TDD bands in EN-DC, which is configured by E-UTRA				
conditionalReconfiguration field using MN configured measurement as triggering				
condition. The UE supporting this feature shall also support 2 trigger events for				
same execution condition in MN initiated conditional PSCell change in EN-DC.				
mn-InitiatedCondPSCellChange-FR2TDD-ENDC-r17	UE	No	No	No
Indicates whether the UE supports MN initiated conditional PSCell change within				
all supported FR2-TDD bands in EN-DC, which is configured by E-UTRA				
conditionalReconfiguration field using MN configured measurement as triggering				
condition. The UE supporting this feature shall also support 2 trigger events for				
same execution condition in MN initiated conditional PSCell change in EN-DC.				
pscellT312-r16	UE	No	No	No
Indicates whether the UE supports T312 based fast failure recovery for PSCell.				
sn-InitiatedCondPSCellChange-FR1FDD-ENDC-r17				NI-
SII-IIIII dee Condr Scenchange-i Kii DD-LNDC-i II	UE	No	No	No
Indicates whether the UE supports SN initiated inter-SN conditional PSCell change	UE	No	No	INO
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	UE	No	No	INO
Indicates whether the UE supports SN initiated inter-SN conditional PSCell change within all supported FR1-FDD bands in EN-DC, which is configured by E-UTRA conditionalReconfiguration field using SN configured measurement as triggering	UE	No	No	INO
Indicates whether the UE supports SN initiated inter-SN conditional PSCell change within all supported FR1-FDD bands in EN-DC, which is configured by E-UTRA conditionalReconfiguration field using SN configured measurement as triggering condition. The UE supporting this feature shall also support 2 trigger events for	UE	No	No	NO
Indicates whether the UE supports SN initiated inter-SN conditional PSCell change within all supported FR1-FDD bands in EN-DC, which is configured by E-UTRA conditionalReconfiguration field using SN configured measurement as triggering condition. The UE supporting this feature shall also support 2 trigger events for same execution condition in SN initiated inter-SN conditional PSCell change in	UE	No	No	NO
Indicates whether the UE supports SN initiated inter-SN conditional PSCell change within all supported FR1-FDD bands in EN-DC, which is configured by E-UTRA conditionalReconfiguration field using SN configured measurement as triggering condition. The UE supporting this feature shall also support 2 trigger events for same execution condition in SN initiated inter-SN conditional PSCell change in EN-DC.		No	No	NO
Indicates whether the UE supports SN initiated inter-SN conditional PSCell change within all supported FR1-FDD bands in EN-DC, which is configured by E-UTRA conditionalReconfiguration field using SN configured measurement as triggering condition. The UE supporting this feature shall also support 2 trigger events for same execution condition in SN initiated inter-SN conditional PSCell change in EN-DC. sn-InitiatedCondPSCellChange-FR1TDD-ENDC-r17	UE	No No	No	No
Indicates whether the UE supports SN initiated inter-SN conditional PSCell change within all supported FR1-FDD bands in EN-DC, which is configured by E-UTRA conditionalReconfiguration field using SN configured measurement as triggering condition. The UE supporting this feature shall also support 2 trigger events for same execution condition in SN initiated inter-SN conditional PSCell change in EN-DC. Sn-InitiatedCondPSCellChange-FR1TDD-ENDC-r17 Indicates whether the UE supports SN initiated inter-SN conditional PSCell change				
Indicates whether the UE supports SN initiated inter-SN conditional PSCell change within all supported FR1-FDD bands in EN-DC, which is configured by E-UTRA conditionalReconfiguration field using SN configured measurement as triggering condition. The UE supporting this feature shall also support 2 trigger events for same execution condition in SN initiated inter-SN conditional PSCell change in EN-DC. sn-InitiatedCondPSCellChange-FR1TDD-ENDC-r17 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				
Indicates whether the UE supports SN initiated inter-SN conditional PSCell change within all supported FR1-FDD bands in EN-DC, which is configured by E-UTRA conditionalReconfiguration field using SN configured measurement as triggering condition. The UE supporting this feature shall also support 2 trigger events for same execution condition in SN initiated inter-SN conditional PSCell change in EN-DC. Sn-InitiatedCondPSCellChange-FR1TDD-ENDC-r17 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				
Indicates whether the UE supports SN initiated inter-SN conditional PSCell change within all supported FR1-FDD bands in EN-DC, which is configured by E-UTRA conditionalReconfiguration field using SN configured measurement as triggering condition. The UE supporting this feature shall also support 2 trigger events for same execution condition in SN initiated inter-SN conditional PSCell change in EN-DC. Sn-InitiatedCondPSCellChange-FR1TDD-ENDC-r17 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				
Indicates whether the UE supports SN initiated inter-SN conditional PSCell change within all supported FR1-FDD bands in EN-DC, which is configured by E-UTRA conditionalReconfiguration field using SN configured measurement as triggering condition. The UE supporting this feature shall also support 2 trigger events for same execution condition in SN initiated inter-SN conditional PSCell change in EN-DC. sn-InitiatedCondPSCellChange-FR1TDD-ENDC-r17 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				
Indicates whether the UE supports SN initiated inter-SN conditional PSCell change within all supported FR1-FDD bands in EN-DC, which is configured by E-UTRA conditionalReconfiguration field using SN configured measurement as triggering condition. The UE supporting this feature shall also support 2 trigger events for same execution condition in SN initiated inter-SN conditional PSCell change in EN-DC. Sn-InitiatedCondPSCellChange-FR1TDD-ENDC-r17 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
Indicates whether the UE supports SN initiated inter-SN conditional PSCell change within all supported FR1-FDD bands in EN-DC, which is configured by E-UTRA conditionalReconfiguration field using SN configured measurement as triggering condition. The UE supporting this feature shall also support 2 trigger events for same execution condition in SN initiated inter-SN conditional PSCell change in EN-DC. sn-InitiatedCondPSCellChange-FR1TDD-ENDC-r17 Indicates whether the UE supports SN initiated inter-SN conditional PSCell change within all supported FR1-TDD bands in EN-DC, which is configured by E-UTRA conditionalReconfiguration field using SN configured measurement as triggering condition. The UE supporting this feature shall also support 2 trigger events for same execution condition in SN initiated inter-SN conditional PSCell change in EN-DC. sn-InitiatedCondPSCellChange-FR2TDD-ENDC-r17				
Indicates whether the UE supports SN initiated inter-SN conditional PSCell change within all supported FR1-FDD bands in EN-DC, which is configured by E-UTRA conditionalReconfiguration field using SN configured measurement as triggering condition. The UE supporting this feature shall also support 2 trigger events for same execution condition in SN initiated inter-SN conditional PSCell change in EN-DC. 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. Indicates whether the UE supports SN initiated inter-SN conditional PSCell change in EN-DC.	UE	No	No	No
Indicates whether the UE supports SN initiated inter-SN conditional PSCell change within all supported FR1-FDD bands in EN-DC, which is configured by E-UTRA conditionalReconfiguration field using SN configured measurement as triggering condition. The UE supporting this feature shall also support 2 trigger events for same execution condition in SN initiated inter-SN conditional PSCell change in EN-DC. 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. 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 within all supported FR2-TDD bands in EN-DC, which is configured by E-UTRA	UE	No	No	No
Indicates whether the UE supports SN initiated inter-SN conditional PSCell change within all supported FR1-FDD bands in EN-DC, which is configured by E-UTRA conditionalReconfiguration field using SN configured measurement as triggering condition. The UE supporting this feature shall also support 2 trigger events for same execution condition in SN initiated inter-SN conditional PSCell change in EN-DC. Sn-InitiatedCondPSCellChange-FR1TDD-ENDC-r17 Indicates whether the UE supports SN initiated inter-SN conditional PSCell change within all supported FR1-TDD bands in EN-DC, which is configured by E-UTRA conditionalReconfiguration field using SN configured measurement as triggering condition. The UE supporting this feature shall also support 2 trigger events for same execution condition in SN initiated inter-SN conditional PSCell change in EN-DC. Sn-InitiatedCondPSCellChange-FR2TDD-ENDC-r17 Indicates whether the UE supports SN initiated inter-SN conditional PSCell change within all supported FR2-TDD bands in EN-DC, which is configured by E-UTRA conditionalReconfiguration field using SN configured measurement as triggering	UE	No	No	No
Indicates whether the UE supports SN initiated inter-SN conditional PSCell change within all supported FR1-FDD bands in EN-DC, which is configured by E-UTRA conditionalReconfiguration field using SN configured measurement as triggering condition. The UE supporting this feature shall also support 2 trigger events for same execution condition in SN initiated inter-SN conditional PSCell change in EN-DC. sn-InitiatedCondPSCellChange-FR1TDD-ENDC-r17 Indicates whether the UE supports SN initiated inter-SN conditional PSCell change within all supported FR1-TDD bands in EN-DC, which is configured by E-UTRA conditionalReconfiguration field using SN configured measurement as triggering condition. The UE supporting this feature shall also support 2 trigger events for same execution condition in SN initiated inter-SN conditional PSCell change in EN-DC. sn-InitiatedCondPSCellChange-FR2TDD-ENDC-r17 Indicates whether the UE supports SN initiated inter-SN conditional PSCell change within all supported FR2-TDD bands in EN-DC, which is configured by E-UTRA conditionalReconfiguration field using SN configured measurement as triggering condition. The UE supporting this feature shall also support 2 trigger events for same execution condition in SN initiated inter-SN conditional PSCell change in	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].			
modifiedMPR-BehaviorEUTRA	UE	No	No
modifiedMPR-Behavior in 4.3.5.10, TS 36.306 [15].			
multiNS-Pmax-EUTRA	UE	No	No
multiNS-Pmax defined in 4.3.5.16, TS 36.306 [15].			
ne-DC	UE	No	No
Indicates whether the UE supports NE-DC as specified in TS 37.340 [7].			
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	UE	No	No	No
NR and IMS voice over E-UTRA via EPC. voiceOverEUTRA-5GC Indicates whether the UE supports IMS voice over E-UTRA via 5GC. It is mandated to the UE if the UE is capable of IMS voice over E-UTRA via 5GC. Otherwise, the UE does not include this field. If this field is included and the UE is capable of E-UTRA	UE	No	No	No
with EPC, the UE shall support IMS voice over E-UTRA via EPC. 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	1), component 2), component 3) 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	
	0.40	Dania DUCCUI	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	Support 1 symbol FL DMRS without additional symbol(s)	
	2-10	(uplink) for scheduling	2) Support 1 symbol FL DMRS and 1 additional DMRS	
		type A	symbols	
		typo / t	3) Support 1 symbol FL DMRS and 2 additional DMRS	
			symbols	
	2-16a	Basic uplink DMRS	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	
	2.50	Pagio TDC	component-7	
	2-50	Basic TRS	Support of TRS (mandatory) All the periodicity are supported.	
	2.52	Basic SRS	All the periodicity are supported. Support 1 port SRS transmission	
	2-52	Dasic ord	2) Support periodic/aperiodic SRS transmission	
	l		2) Support periodic/aperiodic SKS transmission	

	T -	T =	I	,
3. DL	3-1	Basic DL control	1) One configured CORESET per BWP per cell in addition	
control		channel	to CORESETO	
channel			- CORESET resource allocation of 6RB bit-map and	
and			duration of 1 – 3 OFDM symbols for FR1	
procedure			- For type 1 CSS without dedicated RRC configuration and	
			for type 0, 0A, and 2 CSSs, CORESET resource allocation	
			of 6RB bit-map and duration 1-3 OFDM symbols for FR2	
			- For type 1 CSS with dedicated RRC configuration and for	
			type 3 CSS, UE specific SS, CORESET resource allocation	
			of 6RB bit-map and duration 1-2 OFDM symbols for FR2	
			- REG-bundle sizes of 2/3 RBs or 6 RBs	
			- 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	
4 111	4.4	D : 111 / 1	FDD A CERM A L	
4. UL	4-1	Basic UL control	1) PUCCH format 0 over 1 OFDM symbols once per slot	
control		channel	2) PUCCH format 0 over 2 OFDM symbols once per slot	
channel			with frequency hopping as "enabled"	
and			3) PUCCH format 1 over 4 – 14 OFDM symbols once per	
procedure			slot with intra-slot frequency hopping as "enabled"	
			5) One SR configuration per PUCCH group	
			6) HARQ-ACK transmission once per slot with its	
			resource/timing determined by using the DCI	
			7)	
			SR/HARQ multiplexing once per slot using a PUCCH when	
			SR/HARQ-ACK are supposed to be sent by overlapping	
			PUCCH resources with the same starting symbols in a slot	
			8) HARQ-ACK piggyback on PUSCH with/without aperiodic	
			CSI once per slot when the starting OFDM symbol of the	
			PUSCH is the same as the starting OFDM symbols of the	
			PUCCH resource that HARQ-ACK would have been	
			transmitted on	
			Semi-static beta-offset configuration for HARQ-ACK	
			10) Single group of overlapping PUCCH/PUCCH and	
			overlapping PUCCH/PUSCH s per slot per PUCCH cell	
			group for control multiplexing	
	4-10	Dynamic HARQ-ACK	Dynamic HARQ-ACK codebook	
		codebook	,	
L	1		1	1

5.	5-1	Basic	Frequency-domain resource allocation	
Scheduling		scheduling/HARQ	- RA Type 0 only and Type 1 only for PDSCH without	
/HARQ		operation	interleaving	
operation		op o. ao	- RA Type 1 for PUSCH without interleaving	
operation				
			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	
1				
1			4) Nominal UE processing time for N1 and N2 (Capability	
			#1)	
			5) HARQ process operation with configurable number of	
1			DL HARQ processes of up to 16	
1			6) Cell specific RRC configured UL/DL assignment for TDD	
1				
			7) Dynamic UL/DL determination based on L1 scheduling	
			DCI with/without cell specific RRC configured UL/DL	
			assignment	
			9) In TDD support at most one switch point per slot for	
			actual DL/UL transmission(s)	
			10) DL scheduling slot offset K0=0	
			12) UL scheduling slot offset K2<=12	
			For type 1 CSS without dedicated RRC configuration and	
			for type 0, 0A, and 2 CSS, interleaving for VRB-to-PRB	
			mapping for PDSCH	
6. CA/DC,	6-1	Basic BWP operation	1) 1 UE-specific RRC configured DL BWP per carrier	
	0-1			
BWP, SUL		with restriction	2) 1 UE-specific RRC configured UL BWP per carrier	
			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	7-1	Channel coding	1) LDPC encoding and associated functions for data on DL	
coding			and UL	
			2) Polar encoding and associated functions for PBCH, DCI,	
			and UCI	
1				
0 111 == 6	0.6	 	3) Coding for very small blocks	
8. UL TPC	8-3	Basic power control	Accumulated power control mode for closed loop	
		operation	2) 1 TPC command loop for PUSCH, PUCCH respectively	
			3) One or multiple DL RS configured for pathloss	
			estimation	
1			4) One or multiple p0-alpha values configured for open loop	
			PC	
1			5) PUSCH power control	
1			6) PUCCH power control	
			7) PRACH power control	
1			8) SRS power control	
1				
			9) PHR	

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

Features	Index	Feature group	Components	Additional information
0. General	N/A	IAB procedures	1) Routing using BAP protocol, as specified in TS 38.340 [23] 2) Bearer mapping using BAP protocol, as specified in TS 38.340 [23] 3) IAB-node IP address signalling over RRC, as specified in TS 38.331 [9]	
1. PDCP	1-0	Basic PDCP procedures	1) (de)Ciphering on SRB 2) Integrity protection on SRB 3) Timer based SDU discard 4) Re-ordering and in-order delivery 6) Duplicate discarding 7) 18bits SN	
2. RLC	2-0	Basic RLC procedures	1) RLC TM 2) RLC AM with 18bits SN 3) SDU discard	
	2-4	NR RLC SN size for SRB	NR RLC SN size for SRB	
3. MAC	3-0	Basic MAC procedures	1) RA procedure on PCell 2) IAB-MT initiated RA procedure (including for beam recovery purpose) 3) NW initiated RA procedure (i.e. based on PDCCH) 4) Support of ssb-Threshold and association between preamble/PRACH occasion and SSB 5) Preamble grouping 6) UL single TA maintenance 7) HARQ operation for DL and UL 8) LCH prioritization 9) Prioritized bit rate 10) Multiplexing 11) SR with single SR configuration 12) BSR 13) PHR 14) 8bits and 16bits L field	
9. RRC	9-1	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 4.2.15.1-3: RF/RRM mandatory features for IAB-MT

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

4.2.15.2 General Parameters

Definitions for parameters	Per	М	FDD- TDD DIFF	FR1- FR2 DIFF
bh-RLF-DetectionRecovery-Indication-r17	IAB-	No	No	No
Indicates whether the IAB-MT supports BH RLF detection indication and BH RLF recovery indication handling as specified in TS 38.340 [23]	MT			
bh-RLF-Indication-r16	IAB-	No	No	No
Indicates whether the IAB-MT supports BH RLF indication handling as specified in TS 38.331 [9] and in TS 38.340 [23]	MT			
directSN-AdditionFirstRRC-IAB-r16	IAB-	No	No	No
Indicates whether the IAB-MT supports direct SN addition in the first RRC connection reconfiguration after RRC connection establishment.	MT			

4.2.15.3 SDAP Parameters

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

4.2.15.4 PDCP Parameters

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

4.2.15.5 BAP Parameters

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

4.2.15.6 MAC Parameters

Definitions for parameters	Per	M	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	MT			
in TS 38.321 [8]. A UE supporting this feature shall also support Extended Buffer				
Status Report formats and Extended Pre-emptive BSR formats (if preEmptiveBSR-				
r16 is supported).				
Icid-ExtensionIAB-r16	IAB-	No	No	No
Indicates whether the IAB-MT supports extended Logical Channel ID space using	MT			
two-octet eLCID, as specified in TS 38.321 [8].				
preEmptiveBSR-r16	IAB-	No	No	No
Indicates whether the IAB-MT supports Pre-emptive BSR as specified in TS 38.321	MT			
[8].				

4.2.15.7 Physical layer parameters

4.2.15.7.1 BandNR parameters

Definitions for parameters	Per	М	FDD- TDD DIFF	FR1- FR2 DIFF
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 fdd-Add-UE-NR-Capabilities or tdd-Add-UE-NR-Capabilities. It indicates the support for intra-frequency HO in the corresponding frequency range if this capability is included in fr1-Add-UE-NR-Capabilities or fr2-Add-UE-NR-Capabilities. 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
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 tci-StatePDSCH.	Band	No	N/A	N/A
rasterShift7dot5-IAB-r16 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	M	FDD- TDD DIFF	FR1- FR2 DIFF
case6-TimingAlignmentReception-IAB-r17 Indicates whether the IAB-MT supports case 6 timing alignment reception and signalling to the parent-node that case 6 timing mode is required for simultaneous transmission 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
dft-S-OFDM-WaveformUL-IAB-r16 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-Al-RNTI-Support-IAB-r16 Indicates the support of monitoring DCI Format 2_5 scrambled by Al-RNTI for indication of soft resource availability to an IAB node as specified in TS 38.212 [10].	IAB -MT	No	No	No
directionalCollisionDC-IAB-r17 Indicates the support for directional collision handling between MCG and SCG cell(s) of the dual parent nodes for simultaneous operation in inter-donor and/or intra-donor DC operation.	IAB -MT	No	No	No
dl-tx-PowerAdjustment-IAB-r17 Indicates the support of desired DL Tx power adjustment reporting and DL Tx power adjustment reception.	IAB -MT	No	No	No
desired-ul-tx-PowerAdjustment-r17 Indicates the support of Desired IAB-MT PSD range reporting.	IAB -MT	No	No	No
fdm-SoftResourceAvailability-DynamicIndication-r17 Indicates the support of monitoring DCI Format 2_5 scrambled by AI-RNTI for indication of FDM soft resource availability to an IAB-node.	IAB -MT	No	No	No
guardSymbolReportReception-IAB-r16 Indicates the support of DesiredGuardSymbols reception as specified in TS 38.213 [11].	IAB -MT	No	No	No
 guardSymbolReportReception-IAB-r17 Indicates the support of extended DesiredGuardSymbols reporting and ProvidedGuardSymbols reception to new switching scenarios case#6 and case#7 as specified in TS38.213 [11]. UE indicating support of this feature shall also indicate support of one or more of case6-TimingAlignmentReception-IAB-r17 and case7-TimingAlignmentReception-IAB-r17. NOTE: If an IAB node does not support a certain timing mode (Case 6, Case 7), the reported/provided values shall be ignored. 	IAB -MT	No	No	No
pdsch-MappingTypeA Indicates whether the IAB-MT supports receiving PDSCH using PDSCH mapping type	IAB -MT	No	No	No
A with less than seven symbols. 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.	IAB -MT	No	No	No
recommended-IAB-MT-BeamTransmission-r17 Indicates the support of recommended IAB-MT beam transmission for DL and UL beam.	IAB -MT	No	No	No
separateSMTC-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
separateRACH-IAB-Support-r16 Indicates the support of separate RACH configurations including new IAB-specific offset and scaling factors.	IAB -MT	No	No	No
t-DeltaReceptionSupport-IAB-r16 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
ul-flexibleDL-SlotFormatSemiStatic-IAB-r16 Indicates the support of semi-static configuration/indication of UL-Flexible-DL slot formats for IAB-MT resources.	IAB -MT	No	No	No

ul-flexibleDL-SlotFormatDynamics-IAB-r16	IAB	No	No	No	
Indicates the support of dynamic indication of UL-Flexible-DL slot formats for IAB-MT	-MT				
resources.					
updated-T-DeltaRangeReception-r17	IAB	No	No	No	
Indicates the support of updated T_Delta range reception.	-MT				
UE indicating support of this feature shall also support case6-					
TimingAlignmentReception-IAB-r17.					

4.2.15.8 MeasAndMobParameters Parameters

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

4.2.15.9 MR-DC Parameters

Definitions for parameters	Per	M	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	M	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 [33] and TS 37.340 [7].	MT			
simultaneousRxTx-IAB-MultipleParents-r17	ВС	No	No	No
Indicates the support of simultaneous transmission and reception of an IAB-node from multiple parent nodes.				

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	M	FDD- TDD DIFF	FR1- FR2 DIFF
accessStratumReleaseSidelink-r16	UE	Yes	No	No
Indicates the access stratum release for NR sidelink communication the UE supports as specified in TS 38.331 [9].				
relayUE-Operation-L2-r17	UE	No	No	No
Indicates whether NR L2 sidelink relay UE operation is supported by the UE.				
remoteUE-Operation-L2-r17	UE	No	No	No
Indicates whether NR L2 sidelink remote UE operation is supported by the UE.				
remoteUE-PathSwitchToldleInactiveRelay-r17	UE	No	No	No
Indicates whether L2 sidelink remote UE supports direct to indirect path switch with target relay in RRC_IDLE or RRC_INACTIVE state.				

4.2.16.1.2 Sidelink PDCP Parameters

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

4.2.16.1.3 Sidelink RLC Parameters

Definitions for parameters	Per	M	FDD- TDD DIFF	FR1- FR2 DIFF
am-WithLongSN-Sidelink-r16 Indicates whether the UE supports AM DRB with 18 bit length of RLC sequence	UE	No	No	No
number for sidelink. um-WithLongSN-Sidelink-r16	UE	No	No	No
Indicates whether the UE supports UM DRB with 12 bit length of RLC sequence number for sidelink.		110	110	140

4.2.16.1.4 Sidelink MAC Parameters

Definitions for parameters	Per	M	FDD- TDD DIFF	FR1- FR2 DIFF
drx-OnSidelink-r17	UE	No	No	No
Indicates whether UE supports sidelink DRX for unicast, groupcast and broadcast.				
Icp-RestrictionSidelink-r16	UE	No	No	No
Indicates whether UE supports the selection of logical channels for each SL grant based on RRC configured restriction.				
logicalChannelSR-DelayTimerSidelink-r16	UE	No	Yes	No
Indicates whether the UE supports the logicalChannelSR-DelayTimer as specified in TS 38.321 [8] for sidelink logical channel(s).				
multipleSR-ConfigurationsSidelink-r16	UE	No	Yes	No
Indicates whether the UE supports 8 SR configurations per PUCCH cell group as specified in TS 38.321 [8] for sidelink.				
multipleConfiguredGrantsSidelink-r16	UE	No	No	No
Indicates whether UE supports 8 sidelink configured grant configurations (including both Type 1 and Type 2) in a resource pool. If absent, for each resource pool, the UE only supports one sidelink configured grant configuration.				

4.2.16.1.5 Other PHY parameters

Definitions for parameters	Per	М	FDD- TDD DIFF	FR1- FR2 DIFF
p0-OLPC-Sidelink-r17 Indicates whether the UE supports the use of P0 parameters (i.e. dl-P0-PSSCH-PSCCH-r17, sl-P0-PSSCH-PSCCH-r17, dl-P0-PSBCH-r17, dl-P0-PSFCH-r17) for sidelink open loop power control.	UE	No	No	No
supportedBandCombinationListSidelinkEUTRA-NR-r16 Defines the supported NR sidelink communication and/or V2X sidelink communication band combinations by the UE. A fallback band combination resulting from the reported sidelink band combination shall be supported by the UE. The UE does not include this field if the UE capability is requested by E-UTRAN (see TS 36.331 [17]) and the network request includes the field eutra-nr-only.	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. If a band is included in supportedBandCombinationListSL-NonRelayDiscovery-r17 or supportedBandCombinationListSL-RelayDiscovery-r17, the band supports non-relay/relay NR sidelink discovery.	UE	No	No	No

4.2.16.1.6 BandSidelink Parameters

Definitions for parameters	Per	M	FDD- TDD	FR1- FR2
sl-Reception-r16 Indicates whether receiving NR sidelink communication is supported. If supported, this parameter indicates the support of the capabilities and includes the parameters as follows:	Band	CY	N/A	N/A
- UE can receive NR PSCCH/PSSCH.				
 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 N _{RB} 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 TS 38.101-1 [2], Table 5.2E.1-1. Otherwise, it is mandatory. For a band indicated with only the PC5 interface in 38.101-1 [2], Table 5.2E.1-1, UE supports reception using 30 kHz subcarrier spacing with normal CP in 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 TS 38.101-1 [2], Table 5.3.2-1 for FR1 and TS 38.101-2 [3], Table 5.3.21 for FR2. NOTE 2: Configuration by NR Uu is not required to be supported in a band indicated with only the PC5 interface in TS 38.101-1 [2] Table 5.2E.1-1.				
Support of this feature is mandatory if UE supports NR sidelink. If a band is included in <i>supportedBandCombinationListSL-NonRelayDiscovery-r17</i> or <i>supportedBandCombinationListSL-RelayDiscovery-r17</i> , it indicates whether receiving non-relay/relay NR sidelink discovery is supported.				

sl-TransmissionMode1-r16	Band	CY	N/A	N/A
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:	Ballu	Ci	IN/A	IN/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 TS 38.101-1 [2], Table 5.2E.1-1, UE supports transmission using at least 30 kHz subcarrier spacing with normal CP in FR1, at least 120 kHz subcarrier spacing with normal CP in FR2. Otherwise, the reported subcarrier spacing with normal CP and the corresponding bandwidth that the UE supports shall be the same as reported for UL via channelBWs-UL.				
 extendedCP-TxSidelink, which indicates whether the UE supports 60 kHz subcarrier spacing with extended CP length for NR sidelink communication transmission using mode 1. For a band indicated with only the PC5 interface in TS 38.101-1 [2], Table 5.2E.1-1, the reported subcarrier spacing with normal CP and the corresponding bandwidth that the UE supports shall be the same as reported for UL via channelBWs-UL. 				
 UE supports 14-symbol SL slot with all DMRS patterns corresponding to the number of PSSCH symbols = {12, 9} for slots with and without PSFCH. If UE signals support of extended CP, support 12-symbol SL slot with all DMRS patterns corresponding to the number of PSSCH symbols = {10,7} for slots with and without PSFCH. 				
 UE supports downlink pathloss based open loop power control for NR sidelink mode 1 scheduled by NR Uu if the band is not indicated with only the PC5 interface in TS 38.101-1 [2], Table 5.2E.1-1. Otherwise, it is not supported. 				
 harq-ReportOnPUCCH, which indicates whether UE supports reporting sidelink HARQ-ACK to gNB via PUCCH and PUSCH when it is operating in NR sidelink mode 1, for NR sidelink mode 1 scheduled by NR Uu, if the band is indicated with only the PC5 interface in TS 38.101-1 [2], Table 5.2E.1-1. Otherwise, it is mandatory. 				
NOTE: Random selection in the exceptional pool is supported.				
Support of this feature is mandatory if UE supports NR sidelink in licensed spectrum where gNB is operating on or managing that spectrum. If a band is included in <i>supportedBandCombinationListSL-NonRelayDiscovery-r17</i> or <i>supportedBandCombinationListSL-RelayDiscovery-r17</i> , it indicates whether receiving non-relay/relay NR sidelink discovery is supported.				

sl-TransmissionMode2-r16	Band	CY	N/A	N/A
Indicates whether transmitting NR sidelink mode 2 is supported. If supported, this				
follows:				
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 harq-TXProcessModeTwoSidelink, which indicates the number of sidelink HARQ processes across all links that the UE supports for NR PSSCH transmission using mode 2. Value n8 corresponds to 8, n16 corresponds to 16 UE can transmit PSSCH according to the normal 64QAM MCS table UE supports PT-RS transmission in FR2 UE can perform mode 2 sensing and resource allocation operations scs-CP-PatternTxSidelinkModeTwo, which indicates UE can transmit using the subcarrier spacing and CP length it reports in si-Reception-r16. This capability is not required to be signalled in a band indicated with only the PC5 interface in TS 38.101-1 [2], Table 5.2E.1-1. Otherwise, it is mandatory. For a band indicated with only the PC5 interface in TS 38.101-1 [2], Table 5.2E.1-1, UE supports transmission using 30 kHz subcarrier spacing with normal CP in 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 dI-openLoopPC-Sidelink, which indicates whether UE supports DL pathloss based open loop power control when mode 2 is configured by NR Uu, if the band is indicated with only the PC5 interface in TS38.101-1 [2], Table 5.2E.1-1. Otherwise, it is mandatory. This field is only applicable if the UE supports sl-Reception-r16.				
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 TS 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 sl-Reception-r16.				
 UE can transmit S-SSB in NR sidelink if it supports sl-TransmissionMode1- r16 or sl-TransmissionMode2-r16. 				
 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 TS 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 sl-SyncPriority set to gnbEnb for NR Uu, if the band is indicated with only the PC5 interface in TS38.101-1 [2], Table 5.2E.1-1. Otherwise, it is mandatory. 				
 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 sl-SyncPriority set to GNSS and sl-NbAsSync set to true for NR Uu, if the band is indicated with only the PC5 interface in TS 38.101-1 [2], Table 5.2E.1-1. Otherwise, it is mandatory. 				
This field is only applicable if the UE supports at least one of sl-Reception-r16, sl-TransmissionMode1-r16 and sl-TransmissionMode2-r16.				
NOTE: Configuration by NR Uu is not required to be supported in a band indicated with only the PC5 interface in TS 38.101-1 [2] Table 5.2E.1-1.				
Support of this feature is mandatory if UE supports NR sidelink.				
congestionControlSidelink-r16 Indicates whether UE supports sidelink congestion control for NR sidelink. If supported, this parameter indicates the support of the capabilities and includes the parameters as follows:	Band	CY	N/A	N/A
 cbr-ReportSidelink, which indicates whether UE can report CBR measurement to gNB when operating in Mode 1 and mode 2, if the band is indicated with only the PC5 interface in TS 38.101-1 [2], Table 5.2E.1-1. Otherwise, it is mandatory. 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 sl-Reception-r16 and at least one of sl-TransmissionMode1-r16 and sl-TransmissionMode2-r16. 				
Support of this feature is mandatory if UE supports NR sidelink.				
sI-Tx-256QAM-r16	Band	No	N/A	FR1
Indicates UE can transmit PSSCH according to the 256QAM MCS table. This field is only applicable if the UE supports at least one of sl- TransmissionMode1-r16 and sl-TransmissionMode2-r16.				only
sI-Rx-256QAM-r16	Band	No	N/A	FR1
Indicates UE can receive PSSCH according to the 256QAM MCS table. This field is only applicable if the UE supports sl-Reception-r16.				only

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 sl-Reception-r16 and sl-TransmissionMode2-r16.				
NOTE: Configuration by NR Uu is not required to be supported in a band indicated with only the PC5 interface in TS 38.101-1 [2] Table 5.2E.1-1.				
Support of this feature is mandatory if UE supports NR sidelink.				
IowSE-64QAM-MCS-TableSidelink-r16 Indicates UE can transmit and receive PSSCH according to the low-spectral efficiency 64QAM MCS table. This field is only applicable if the UE supports at least one of sl-Reception-r16, sl-	Band	No	N/A	N/A
TransmissionMode1-r16 and sl-TransmissionMode2-r16.	Donal	CV	NI/A	NI/A
csi-ReportSidelink-r16 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 sl-Reception-r16, sl-TransmissionMode1-r16 and sl-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 sl-Reception-r16, sl-TransmissionMode1-r16 and sl-TransmissionMode2-r16.				
rankTwoReception-r16 Indicates whether UE supports rank 2 PSSCH reception. This field is only applicable if the UE supports sI-Reception-r16.	Band	No	N/A	N/A
fewerSymbolSlotSidelink-r16	Band	No	N/A	N/A
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 sl-Reception-r16, sl-TransmissionMode1-r16 and sl-TransmissionMode2-r16.				

sl-openLoopPC-RSRP-ReportSidelink-r16 Indicates whether UE supports sidelink pathloss based open loop power control and	Band	CY	N/A	N/A
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				
sl-TransmissionMode1-r16 and sl-TransmissionMode2-r16.				
Support of this feature is mandatory if UE supports NR sidelink.				
sl-TransmissionMode2-RandomResourceSelection-r17	Band	No	N/A	N/A
Indicates transmitting NR sidelink mode 2 with random resource selection is				
supported. If supported, this parameter indicates the support of the capabilities and				
includes the parameters as follows:				
- UE can transmit PSCCH/PSSCH using NR sidelink mode 2 with random				
resource selection configured by NR Uu or preconfiguration.				
- harq-TxProcessModeTwoSidelink-r17, which indicates the number of				
sidelink HARQ processes across all links that the UE supports for NR				
PSSCH transmission using mode 2. Value n8 corresponds to 8, n16				
corresponds to 16. - UE can transmit PSSCH according to the normal 64QAM MCS table.				
- UE supports PT-RS transmission in FR2.				
- scs-CP-PatternTxSidelinkModeTwo-r17, which indicates the subcarrier				
spacing with normal CP and the corresponding bandwidth that the UE				
supports for NR sidelink communication transmission using NR sidelink				
mode 2 with random resource selection. Value scs-15kHz corresponds to				
15kHz, scs-30kHz corresponds to 30kHz, and so on. For FR1, the bits in				
scs-XXkHz starting from the leading / leftmost bit indicate 5, 10, 15, 20, 25,				
30, 40, 50, 60, 70, 80, 90 and 100MHz. For FR2, the bits in scs-XXkHz				
starting from the leading / leftmost bit indicate 50, 100 and 200MHz.UE can				
transmit using the subcarrier spacing and CP length it reports in sl- Reception-r16. This capability is not required to be signalled in a band				
indicated with only the PC5 interface in TS 38.101-1 [2], Table 5.2E.1-1.				
Otherwise, it is mandatory. For a band indicated with only the PC5 interface				
in TS 38.101-1 [2], Table 5.2E.1-1, UE supports transmission using 30 kHz				
subcarrier spacing with normal CP in FR1, 120 kHz subcarrier spacing with				
normal CP in FR2.				
- extendedCP-Mode2Random-r17, which indicates whether the UE supports				
60 kHz subcarrier spacing with extended CP length for NR sidelink				
communication transmission using mode 2 with random resource selection.				
 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.				
- dl-openLoopPC-Sidelink-r17, 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 TS 38.101-1 [2],				
Table 5.2E.1-1. Otherwise, it is mandatory.				
LIE curporting this feature shall curport receiving ND sidelink of C CCD or indicate				
UE supporting this feature shall support receiving NR sidelink of S-SSB or indicate support of sync-Sidelink-r16 or sync-Sidelink-v1710.				
If a band is included in supportedBandCombinationListSL-NonRelayDiscovery-r17				
or supportedBandCombinationListSL-RelayDiscovery-r17, it indicates whether				
transmitting NR sidelink mode 2 with random resource selection is supported for				
non-relay/relay NR sidelink discovery.				
NOTE 4. Confirmation by ND Hydroget				
NOTE 1: Configuration by NR Uu is not required to be supported in a band				
indicated with only the PC5 interface in TS 38.101-1 [2] Table 5.2E.1-1. NOTE 2: If UE reports more than one features of <i>sl-TransmissionMode2-r16</i> , <i>sl-</i>				
TransmissionMode2-PartialSensing-r17 and sl-TransmissionMode2-				
RandomResourceSelection-r17, the reported value of harq-				
TxProcessModeTwoSidelink in each feature is the total number of SL				
processes and the same among those features.				
NOTE 3 Random selection in the exceptional pool is supported.				

sync-Sidelink-v1710	Band	No	N/A	N/A
Indicates whether UE supports synchronization sources for NR sidelink. If				
supported, this parameter indicates the support of the capabilities and includes the parameters as follows:				
- sync-GNSS-r17, which indicates UE supports GNSS as the synchronization				
reference according to the synchronization procedure with sl-SyncPriority set				
to GNSS and sl-NbAsSync set to false. This capability is only required to be				
supported in a band indicated with only the PC5 interface in TS 38.101-1 [2],				
Table 5.2E.1-1				
 gNB-Sync-r17, which indicates whether UE can transmit NR sidelink based 				
on the synchronization to an gNB for NR Uu, if the band is indicated with				
only the PC5 interface in TS 38.101-1 [2], Table 5.2E.1-1, it is not required to				
be supported. Otherwise, it is mandatory gNB-GNSS-UE-SyncWithPriorityOnGNB-ENB-r17, which indicates whether				
UE additionally supports gNB, GNSS as the synchronization reference				
according to the synchronization procedure with sl-SyncPriority set to				
gnbEnb for NR Uu, if the band is indicated with only the PC5 interface in TS				
38.101-1 [2], Table 5.2E.1-1, it is not required to be supported. Otherwise, it				
is mandatory.				
- gNB-GNSS-UE-SyncWithPriorityOnGNSS-r17, which indicates whether UE				
additionally supports gNB, GNSS as the synchronization reference				
according to the synchronization procedure with sl-SyncPriority set to GNSS				
and sl-NbAsSync set to true for NR Uu, if the band is indicated with only the				
PC5 interface in TS 38.101-1 [2], Table 5.2E.1-1, it is not required to be supported. Otherwise, it is mandatory.				
- UE can transmit S-SSB in NR sidelink if it supports <i>sl-TransmissionMode1-</i>				
r16 or sl-TransmissionMode2-r16 or sl-TransmissionMode2-PartialSensing-				
r17 or sl-TransmissionMode2-RandomResourceSelection-r17.				
- UE supports synchronization to a reference UE if it supports sI-Reception-				
r16.				
NOTE: Configuration by NR Uu is not required to be supported in a band				
indicated with only the PC5 interface in TS 38.101-1 [2] Table 5.2E.1-1.	D 1		N1/A	N1/A
enb-Sync-Sidelink-v1710	Band	No	N/A	N/A
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:				
- UE can transmit NR sidelink based on the synchronization to an eNB.				
- If UE supports sync-GNSS-r17, UE additionally supports eNB, GNSS as the				
synchronization reference according to the synchronization procedure with				
sl-SyncPriority set to gnbEnb.				
- If UE supports sync-GNSS-r17, UE additionally supports eNB, GNSS 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 sync-Sidelink-v1710.				
This field is only applicable if the OL supports sync-sidelink-vitito.				
NOTE: Configuration by NR Uu is not required to be supported in a band				
indicated with only the PC5 interface in TS 38.101-1 [2] Table 5.2E.1-1.				
rx-IUC-Scheme1-PreferredMode2Sidelink-r17	Band	No	N/A	N/A
Indicates whether UE supports reception of preferred resource set for NR sidelink				
for mode 2. If supported, this parameter indicates the support of the capabilities as				
follows:				
 UE can receive inter-UE coordination information of preferred resource set and use the received information in its own resource (re-)selection in NR 				
sidelink mode 2.				
- UE can transmit an explicit request for inter-UE coordination information of				
preferred resource set only.				
·				
UE supporting this feature shall support receiving NR sidelink of S-SSB or indicate support of sync-Sidelink-r16 or sync-Sidelink-v1710.				
NOTE: Configuration by NR Uu is not required to be supported in a band				
indicated with only the PC5 interface in TS 38.101-1 [2] Table 5.2E.1-1.				

rx-IUC-Scheme1-NonPreferredMode2Sidelink-r17 Indicates whether UE supports reception of non-preferred resource set for NR sidelink for mode 2. If supported, this parameter indicates the support of the	Band	No	N/A	N/A
capabilities as follows: - UE can receive inter-UE coordination information of non-preferred resource set and use the received information in its own resource (re-)selection in NR sidelink mode 2.				
UE can transmit an explicit request for inter-UE coordination information of non-preferred resource set only.				
UE supporting this feature shall support receiving NR sidelink of S-SSB or indicate support of sync-Sidelink-r16 or sync-Sidelink-v1710.				
NOTE: Configuration by NR Uu is not required to be supported in a band indicated with only the PC5 interface in TS 38.101-1 [2] Table 5.2E.1-1. rx-IUC-Scheme2-Mode2Sidelink-r17	Band	No	N/A	N/A
Indicates whether UE supports reception of inter-UE coordination scheme 2 for NR sidelink for mode 2. If supported, this parameter indicates the support of the capabilities and includes the parameters as follows: - UE can receive inter-UE coordination information of presence of expected/potential resource conflict and use the received information in its own resource re-selection in NR sidelink mode 2. - UE indicates the number of PSFCH(s) resources that the UE can receive in a slot. Value n5 corresponds to 5, n15 corresponds to 15, and so on.	Ballu	NO	IVA	IWA
UE supporting this feature shall support receiving NR sidelink of S-SSB or indicate support of sync-Sidelink-r16 or sync-Sidelink-v1710.				
NOTE 1: If UE reports more than one capability of <i>psfch-FormatZeroSidelink-r16</i> , <i>rx-sidelinkPSFCH-r17</i> and <i>rx-IUC-Scheme1-PreferredMode2Sidelink-r17</i> , the reported value of the number of PSFCH(s) resources in each capability is the total number and the same among those capabilities. 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.				
rx-IUC-Scheme1-SCI-r17	Band	No	N/A	N/A
Indicates whether UE can receive Scheme 1 inter-UE coordination transmission over 2nd SCI that is used in addition to the MAC-CE carrying the same inter-UE coordination information in the same transmission.	Dand	NO	IV/A	IWA
UE indicating support of this feature shall indicate support of at least one of <i>rx-IUC-Scheme1-Preferred-Mode2Sidelink-r17</i> and <i>rx-IUC-Scheme1-NonPreferred-Mode2Sidelink-r17</i> .				
NOTE: Configuration by NR Uu is not required to be supported in a band indicated with only the PC5 interface in TS 38.101-1 [2] Table 5.2E.1-1.				
rx-IUC-Scheme1-SCI-ExplicitReq-r17 Indicates whether UE can receive an explicit request for inter-UE coordination information of both preferred resource set and non-preferred resource set over 2nd SCI that is used in addition to the MAC-CE carrying the explicit request in the same transmission. UE indicating support of this feature shall indicate support of tx-IUC-Scheme1-Mode2Sidelink-r17.	Band	No	N/A	N/A
NOTE: Configuration by NR Uu is not required to be supported in a band indicated with only the PC5 interface in TS 38.101-1 [2] Table 5.2E.1-1.				
scheme2-ConflictDeterminationRSRP-r17 Indicates whether UE can determine a conflict for overlapping resource reservation between UE-B and another UE based on RSRP difference of the two reservations.	Band	No	N/A	N/A
UE indicating support of this feature shall indicate support of <i>tx-IUC-Scheme2-Mode2Sidelink-r17</i> .				
NOTE: Configuration by NR Uu is not required to be supported in a band indicated with only the PC5 interface in TS 38.101-1 [2] Table 5.2E.1-1.				
ue-PowerClassSidelink-r16 This parameter indicates the supported power class for this band used for sidelink. If the field is absent, the UE supports the default power class in TS 38.101-1 [2], Table 6.2E.1.2-2.	Band	No	N/A	N/A

4.2.16.1.7 BandCombinationListSidelinkEUTRA-NR Parameters

Definitions for parameters	Per	M	FDD- TDD DIFF	FR1- FR2 DIFF
tx-Sidelink-r16 Indicates whether the UE supports sidelink transmission on the band. For NR sidelink, this field is only applicable if the UE supports at least one of sl-TransmissionMode1-r16 and sl-TransmissionMode2-r16 on the band.	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 sl-Reception-r16 on the band.	Band	No	N/A	N/A
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 sl-TransmissionMode1-r16 in a band indicated with only the PC5 interface in Table 5.2E.1-1 of TS 38.101-1 [2], the UE shall indicate that sl-CrossCarrierScheduling-r16 is supported for a band combination with that band. For NR sidelink, this field is only applicable if the UE supports sl-TransmissionMode1-r16 on the band.	Band	No	N/A	N/A

sI-TransmissionMode2-PartialSensing-r17 Indicates transmitting NR sidelink mode 2 with partial sensing is supported. If	FS	No	N/A	N/A
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 with partial				
sensing configured by NR Uu or preconfiguration.				
 harq-TxProcessModeTwoSidelink-r17, which indicates the number of 				
sidelink HARQ processes across all links that the UE supports for NR				
PSSCH transmission using mode 2. Value n8 corresponds to 8, n16				
corresponds to 16.				
- UE can transmit PSSCH according to the normal 64QAM MCS table.				
- UE supports PT-RS transmission in FR2.				
- UE can perform periodic-based partial sensing and resource allocation				
operation.				
- UE can perform contiguous partial sensing and resource allocation				
operation.				
- scs-CP-PatternTxSidelinkModeTwo-r17, the subcarrier spacing with normal				
CP and the corresponding bandwidth that the UE supports for NR sidelink				
communication transmission using NR sidelink mode 2 with partial sensing.				
Value scs-15kHz corresponds to 15kHz, scs-30kHz corresponds to 30kHz,				
and so on. For FR1, the bits in scs-XXkHz starting from the leading / leftmost				
bit indicate 5, 10, 15, 20, 25, 30, 40, 50, 60, 70, 80, 90 and 100MHz. For				
FR2, the bits in scs-XXkHz starting from the leading / leftmost bit indicate 50,				
100 and 200MHz. This capability is not required to be signalled in a band				
indicated with only the PC5 interface in TS 38.101-1 [2], Table 5.2E.1-1.				
Otherwise, it is mandatory. For a band indicated with only the PC5 interface				
in TS 38.101-1 [2], Table 5.2E.1-1, UE supports transmission using 30 kHz				
subcarrier spacing with normal CP in FR1, 120 kHz subcarrier spacing with				
normal CP in FR2.				
- extendedCP-Mode2PartialSensing-r17, which indicates whether the UE				
supports 60 kHz subcarrier spacing with extended CP length for NR sidelink				
communication transmission using mode 2 with partial sensing.				
- UE supports 14-symbol SL slot with all DMRS patterns corresponding to the				
number of PSSCH symbols = {12, 9} for slots with and without PSFCH. If UE				
signals support of extended CP, support 12-symbol SL slot with all DMRS				
patterns corresponding to the number of PSSCH symbols = {10,7} for slots				
with and without PSFCH.				
- <i>dl-openLoopPC-Sidelink-r17</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 TS 38.101-1 [2],				
Table 5.2E.1-1. Otherwise, it is mandatory.				
,				
UE supporting this feature shall support receiving NR sidelink of S-SSB or indicate				
support of sync-Sidelink-r16 or sync-Sidelink-v1710.				
If a band combination is included in supportedBandCombinationListSL-				
NonRelayDiscovery-r17 or supportedBandCombinationListSL-RelayDiscovery-r17,				
it indicates whether transmitting NR sidelink mode 2 with partial sensing is				
supported for non-relay/relay NR sidelink discovery.				
NOTE 1: Configuration by NR Uu is not required to be supported in a band				
indicated with only the PC5 interface in TS 38.101-1 [2] Table 5.2E.1-1.				
NOTE 2: If UE reports more than one feature of sl-TransmissionMode2-r16, sl-				
TransmissionMode2-PartialSensing-r17 and sl-TransmissionMode2-				
RandomResourceSelection-r17, the reported value of harq-				
TxProcessModeTwoSidelink in each FG is the total number of SL				
processes and the same among those FGs.				
NOTE 3: Random selection in the exceptional pool is supported.				

rx-sidelinkPSFCH-r17 Indicates whether UE can receive PSFCH with HARQ-ACK information in NR sidelink and also the maximum number of PSFCH(s) resources N in a slot. If UE reports more than one of psfch-FormatZeroSidelink-r16, rx-sidelinkPSFCH-r17and rx-IUC-Scheme2-Mode2Sidelink-r17, the reported value N is the total number and the same among psfch-FormatZeroSidelink-r16, rx-sidelinkPSFCH-r17 and rx-IUC-Scheme2-Mode2Sidelink-r17. UE supporting this feature shall support receiving NR sidelink of S-SSB and at least one of sl-TransmissionMode1-r16 or sl-TransmissionMode2-r16 or sl-TransmissionMode2-RandomResourceSelection-r17 or sl-TransmissionMode2-PartialSensing-r17.	FS	No	N/A	N/A
NOTE: Configuration by NR Uu is not required to be supported in a band indicated with only the PC5 interface in TS 38.101-1 [2] Table 5.2E.1-1.				
 tx-IUC-Scheme1-Mode2Sidelink-r17 Indicates whether UE supports transmission of inter-UE coordination scheme 1 for NR sidelink for mode 2. If supported, this parameter indicates the support of the capabilities as follows: UE can transmit inter-UE coordination information of preferred resource set/non-preferred resource set in NR sidelink mode 2. UE can receive an explicit request for inter-UE coordination information of both preferred resource set and non-preferred resource set. UE supporting this feature shall support receiving NR sidelink of S-SSB or indicate support of sync-Sidelink-r16 or sync-Sidelink-v1710. 	FS	No	N/A	N/A
NOTE: Configuration by NR Uu is not required to be supported in a band indicated with only the PC5 interface in TS 38.101-1 [2] Table 5.2E.1-1.				
tx-IUC-Scheme2-Mode2Sidelink-r17 Indicates whether UE supports transmission of inter-UE coordination scheme 2 for NR sidelink for mode 2. If supported, this parameter indicates the support of the capabilities and includes the parameters as follows: - UE can transmit inter-UE coordination information of presence of expected/potential resource conflict in NR sidelink mode 2. - UE can transmit up to M PSFCH(s) resources in a slot where M takes the values of {4, 8, 16}	FS	No	N/A	N/A
If UE reports both <i>psfch-FormatZeroSidelink-r16</i> and <i>tx-IUC-Scheme2-Mode2Sidelink-r17</i> , the reported value M is the total number and the same in both <i>psfch-FormatZeroSidelink-r16</i> and <i>tx-IUC-Scheme2-Mode2Sidelink-r17</i> .				
UE supporting this feature shall indicate support of <i>rx-IUC-Scheme2-Mode2Sidelink-r17</i> and indicate support at least one among <i>sync-Sidelink-r16</i> , <i>sync-Sidelink-v1710</i> and receiving NR sidelink of S-SSB.				
NOTE: Configuration by NR Uu is not required to be supported in a band indicated with only the PC5 interface in TS 38.101-1 [2] Table 5.2E.1-1.				

4.2.16.2 Sidelink Parameters in E-UTRA

Descriptions for parameters	Per	М	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	M	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. This field is only applicable if the UE supports V2X sidelink communication. 	Band	No	N/A
gnb-ScheduledMode4SidelinkEUTRA-r16 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.	Band	No	N/A

4.2.17 SON parameters

Definitions for parameters		M	FDD- TDD	FR1- FR2
			DIFF	DIFF
onDemandSI-Report-r17	UE	No	No	No
Indicates whether the UE supports delivery of on-Demand SI information upon request from the network as specified in TS 38.331 [9].				
pscell-MHI-Report-r17	UE	No	No	No
Indicates whether the UE supports the storage of PSCell mobility history information and the reporting in <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 RA report upon request from the				
network.				
rlfReportCHO-r17	UE	No	No	No
Indicates whether the UE supports RLF-Report for conditional handover.				
rlfReportDAPS-r17	UE	No	No	No
Indicates whether the UE supports RLF-Report for DAPS handover.				
success-HO-Report-r17	UE	No	No	No
Indicates whether the UE supports the storage and delivery of Successful Handover				
Report upon request from the network as specified in TS 38.331 [9].				
twoStepRACH-Report-r17	UE	No	No	No
Indicates whether the UE supports the storage and delivery of 2-step RACH related				
information upon request from the network as specified in TS 38.331 [9].				

4.2.18 UE-based performance measurement parameters

Definitions for parameters	Per	М	FDD- TDD DIFF	FR1- FR2 DIFF
barometerMeasReport-r16 Indicates whether the UE supports uncompensated barometeric pressure measurement reporting upon request from the network.	UE	No	No	No
earlyMeasLog-r17 Indicates whether the UE supports the storage of Early Measurement Logging in logged measurements and the reporting upon request from the network as specified in TS 38.331 [9].	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
gnss-Location-r16 Indicates whether the UE is equipped with a GNSS or A-GNSS receiver that may be used to provide detailed location information along with SON, MDT, and NTN related measurements in RRC_CONNECTED, RRC_IDLE and RRC_INACTIVE state. A UE shall set this field to supported if it indicates the support of nonTerrestrialNetwork-r17.	UE	CY	No	No
immMeasBT-r16 Indicates whether the UE supports Bluetooth measurements in RRC_CONNECTED state.	UE	No	No	No
immMeasWLAN-r16 Indicates whether the UE supports WLAN measurements in RRC_CONNECTED state.	UE	No	No	No
Indicates whether the UE supports Bluetooth measurements in RRC_IDLE and RRC_INACTIVE state.	UE	No	No	No
Indicates whether the UE supports logged measurements in RRC_IDLE and RRC_INACTIVE state. A UE that supports logged measurements shall support both periodical logging and event-triggered logging. The minimum memory size of MDT logged measurements is 64KB.	UE	No	No	No
Indicates whether the UE supports WLAN measurements in RRC_IDLE and RRC_INACTIVE state.	UE	No	No	No
multipleCEF-Report-r17 Indicates whether the UE supports the storage and delivery of multiple CEF reports upon request from the network as specified in TS 38.331 [9].	UE	No	No	No
orientationMeasReport-r16 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 measurements configured in NR.	UE	No	No	No
speedMeasReport-r16 Indicates whether the UE supports speed information reporting upon request from the network.	UE	No	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
demodulationEnhancement-r16 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
intraNR-MeasurementEnhancement-r16 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 measurementEnhancement-r16 and interRAT-MeasurementEnhancement-r16. Otherwise, the UE does not include this field.	UE	No	No	FR1 only
interRAT-MeasurementEnhancement-r16 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 measurementEnhancement-r16 and intraNR-MeasurementEnhancement-r16. Otherwise, the UE does not include this field.	UE	No	No	FR1 only
measurementEnhancement-r16 Indicates whether the UE supports the enhanced intra-NR and inter-RAT E-UTRAN RRM requirements for MN configured measurement enhancement when MR-DC is not configured, and the enhanced intra-NR RRM requirements for SN configured measurement enhancement when (NG)EN-DC is configured, to support high speed up to 500 km/h as specified in TS 38.133 [5].	UE	No	No	FR1 only
measurementEnhancementCA-r17 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 indicating support of this feature shall indicate support of measurementEnhancement-r16 or intraNR-MeasurementEnhancement-r16.	UE	No	No	FR1 only
measurementEnhancementInterFreq-r17 Indicates whether the UE supports the enhanced RRM requirements for interfrequency measurements in connected mode to support high speed up to 500 km/h as specified in TS 38.133 [5]. UE indicating support of this feature shall indicate support of measurementEnhancement-r16 or intraNR-MeasurementEnhancement-r16.	UE	No	No	FR1 only

4.2.20 Application layer measurement parameters

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

4.2.21 RedCap Parameters

4.2.21.1 Definition of RedCap UE

RedCap UE is the UE with reduced capability:

- The maximum bandwidth is 20 MHz for FR1, and is 100 MHz for FR2. UE features and corresponding capabilities related to UE bandwidths wider than 20 MHz in FR1 or wider than 100 MHz in FR2 are not supported by RedCap UEs;
- The maximum mandatory supported DRB number is 8;
- The mandatory supported PDCP SN length is 12 bits while 18 bits being optional;
- The mandatory supported RLC AM SN length is 12 bits while 18 bits being optional;
- For FR1, 1 DL MIMO layer if 1 Rx branch is supported, and 2 DL MIMO layers if 2 Rx branches are supported; for FR2, either 1 or 2 DL MIMO layers can be supported, while 2 Rx branches are always supported. For FR1 and FR2, UE features and corresponding capabilities related to more than 2 UE Rx branches or more than 2 DL MIMO layers, as well as UE features and capabilities related to more than 1 UE Tx branch or more than 1 UL MIMO layer are not supported by RedCap UEs;
- CA, MR-DC, DAPS, CPAC and IAB (i.e., the RedCap UE is not expected to act as IAB node) related UE features and corresponding capabilities are not supported by RedCap UEs. All other feature groups or components of the feature groups as captured in TR 38.822 [24] as well as capabilities specified in this specification remain applicable for RedCap UEs same as non-RedCap UEs, unless indicated otherwise.

4.2.21.2 General parameters

Definitions for parameters	Per	M	FDD- TDD DIFF
ncd-SSB-ForRedCapInitialBWP-SDT-r17 Indicates that the UE supports using RedCap-specific initial DL BWP associated with NCD-SSB for SDT. If absent, the UE only supports SDT in an initial DL BWP that includes the CD-SSB. UE supporting this feature shall indicate support of supportOfRedCap-r17 and ra-SDT-r17 and/or cg-SDT-r17.	UE	No	No
supportOf16DRB-RedCap-r17 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 (if UE indicated support of twoStepRACH-r16) and Msg3 for random access; Separate initial UL BWP for RedCap UEs; It includes the configuration(s) needed for RedCap UE to perform random access Enabling/disabling of frequency hopping for common PUCCH resources Separate initial DL BWP for RedCap UEs; It includes CSS/CORESET for random access For separate initial DL BWP used for paging, CD-SSB is included For separate initial DL BWP only used for RACH, SSB may or may not be included For separate initial DL BWP used in connected mode as BWP#0 configuration option 1, CD-SSB is included 1 UE-specific RRC configured DL BWP per carrier; 1 UE-specific RRC configured DL BWP with CD-SSB or NCD-SSB; NCD-SSB based measurements in RRC-configured DL BWP. A RedCap UE shall set the field to supported. 	UE	CY	No

4.2.21.3 PDCP parameters

Definitions for parameters	Per	M	FDD- TDD DIFF	
IongSN-RedCap-r17	UE	No	No	1
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	M	FDD- TDD DIFF
am-WithLongSN-RedCap-r17	UE	No	No
Indicates whether the RedCap UE supports AM DRB with 18 bit length of RLC sequence number. This capability is only applicable for RedCap UEs.			

4.2.21.5 MeasAndMobParameters

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

4.2.21.6 Physical layer parameters

4.2.21.6.1 BandNR parameters

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

5 Optional features without UE radio access capability parameters

5.1 PWS features

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].

Definitions for feature

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.

FU-Aleri

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

5.2 UE receiver features

Definitions for feature

SU-MIMO Interference Mitigation advanced receiver

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

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

5.3 RRC connection

Definitions for feature

RRC connection release with deprioritisation

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

RRC connection establishment failure with temporary offset

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

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

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

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

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

5.4 Other features

Definitions for feature

eCall over IMS

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

Access Category 1 selection assistance information enhancement

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

Random access prioritization for MPS and MCS

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

HSDN cell reselection

It is optional for UE to support HSDN cell reselection priority handling in RRC_IDLE/RRC_INACTIVE as specified in TS 38.304 [21] and TS 38.331 [9].

TRS occasions for idle mode and RRC INACTIVE UEs

It is optional for UE to support reading TRS configuration from SIB and receiving L1 indication for TRS availability.

NOTE: Receiving L1 indication via DCI format 2_7 is supported only if the UE supports receiving DCI format 2_7.

Minimization of service interruption

It is optional for UE to support minimization of service interruption including reporting to NAS of disaster roaming information for available PLMNs and Access Barring check for Access Identity 3, as specified in TS 38.331 [9].

Random access prioritisation for Slicing

It is optional for UE to support slice-based prioritisation for random access as specified in TS 38.321 [8].

Random access partitioning for Slicing

It is optional for UE to support slice-based RACH partitioning as specified in TS 38.321 [8].

Relaxed cell reselection on GEO

It is optional for UE to support the relaxed cell reselection on GEO.

Support of polarization signalling in NR NTN

It is optional for UE to support the polarization signalling in NR NTN comprised of the following functional components:

- Support polarization indication reception in SIB indicating DL and/or UL polarization information using respective polarization type parameters to indicate: RHCP or LHCP or linear;
- Support polarization signalling for target serving cell in handover command message;
- Support polarization signalling for non-serving cell in RRM measurement configuration.

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-r*16 with *csi-RS-PortsSidelink* = p2.

Receiving NR sidelink of S-SSB

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

5.6 RRM measurement features

Definitions for feature

High speed inter-frequency IDLE/INACTIVE measurements

It is optional for UE to support high speed inter-frequency measurements in RRC_IDLE/RRC_INACTIVE as specified in TS 38.133 [5].

Location-based measurement initiation

It is optional for the UE in RRC_IDLE/RRC_INACTIVE to support location based RRM measurements of neighbour cells in NTN quasi-Earth fixed system as specified in TS 38.304 [21].

Relaxed measurement

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

Rel-17 relaxed measurement for RRC_IDLE/RRC_INACTIVE

It is optional for RedCap UE to support Rel-17 relaxed RRM measurements of neighbour cells in RRC_IDLE/RRC_INACTIVE as specified in TS 38.304 [21].

Enhanced RRM requirements for measurements in IDLE and INACTIVE modes

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

Time-based measurement initiation

It is optional for the UE in RRC_IDLE/RRC_INACTIVE to support time based RRM measurements of neighbour cells in NTN quasi-Earth fixed system as specified in TS 38.304 [21].

5.7 MDT and SON features

Definitions for feature

Mobility history information storage

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

Cross RAT RLF Report

It is optional for UE to support the delivery of EUTRA RLF report to an NR node upon request from the network.

Radio Link Failure Report for inter-RAT MRO EUTRA

It is optional for UE to support:

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

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 *spCelIID-r17* 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].

5.10 MBS features

Definitions for feature

Broadcast reception

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

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

5.11 Idle/inactive measurement for voice fallback features

Definitions for feature

Idle/Inactive measurement for voice fallback

It is optional for UE to support the idle/inactive measurement for EPS fallback in RRC_IDLE/RRC_INACTIVE as specified in TS 38.331 [9].

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].
AS layer memory size for QoE paused measurement reports	It is mandatory to support the minimum AS layer memory size of 64KB for QoE paused measurement reports for UEs which support qoe-Streaming-MeasReport-r17, qoe-MTSI-MeasReport-r17 or qoe-VR-MeasReport-r17.
Downlink SDAP header	Either NAS reflective QoS or as-Reflective QoS is supported.
Extended values for drx-HARQ-RTT-TimerDL/UL	It is mandatory for UEs which support FR2-2 bands with SCS 480kHz and/or 960kHz.
IMS emergency call	It is mandatory to support IMS emergency call over PLMN for UEs which are IMS voice capable in NR. It is mandatory to support IMS emergency call over SNPN for
	UEs that are SNPN capable and IMS voice capable over SNPNs.
Logged measurements suspension due to IDC interference	It is mandatory to support Logged measurements suspension due to IDC interference for UEs which are supporting logged measurements in RRC_IDLE and RRC_INACTIVE upon request from the network and in-device coexistence indication as specified in TS 38.331 [9].
MAC subheaders with one-octet eLCID field	It is mandatory to support MAC subheaders with one-octet eLCID field for UEs/IAB-MTs supporting MAC CEs using extended LCID values as specified in TS 38.321 [8].
Paging cause in RAN paging message	It is mandatory for a UE to support paging cause in RAN paging if UE supports paging cause in CN paging.
Skipping UL configured grant if no data to transmit, as specified in release-15 version of TS 38.321 [8].	Either configuredUL-GrantType1 or configuredUL- GrantType1-v1650 or configuredUL-GrantType2 or configuredUL-GrantType2-v1650 is supported.
TA reporting during initial access	It is mandatory to support TA reporting during initial access for UEs supporting <i>uplink-TA-Reporting-r17</i> as specified in TS 38.321 [8].

7 Void

8 UE Capability Constraints

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

Parameter	Description	Value			
#DRBs	The number of DRBs that a UE shall support.	8 per UE, for RedCap UEs. 16 per UE, otherwise. NOTE 1 NOTE 3 NOTE 4			
#minCellperMeasObj ectNR	The minimum number of neighbour cells (excluding exclude-list cells) that a UE shall be able to store associated with a MeasObjectNR.	32 NOTE 2			
#minExcludedCellRa ngesperMeasObject NR	The minimum number of exclude-list cell PCI ranges that a UE shall be able to store associated with a MeasObjectNR.	8			
#minExcludedCellpe rMeasObjectEUTRA	The minimum number of exclude-list cells that a UE shall be able to store associated with a MeasObjectEUTRA.	32			
#minCellperMeasObj ectEUTRA	The minimum number of neighbour cells that a UE shall be able to store associated with a MeasObjectEUTRA.	32 NOTE 2			
#minCellTotal	The minimum number of neighbour cells (excluding exclude-list cells) that UE shall be able to store in total from all measurement objects configured.	256 with counting CSI-RS and SSB as 2.			
#maxDeprioritisation Freq	The UE shall be able to store a depriotisation request for up to 8 frequencies (applicable when receiving another frequency specific deprioritisation request via <i>RRCRelease</i> before T325 expiry).	8			
#minCellperMeasObj ectUTRA-FDD	The minimum number of neighbour cells that a UE shall be able to store associated with a MeasObjectUTRA-FDD.	32			
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
- each multicast MRB associated with two RLC entities is counted as two RBs.

Annex A (normative): Differentiation of capabilities

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

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

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

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

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

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 includi			
command and the cell applying the	command.		

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.

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

UE-NR-Capability	Classification			
absoluteTPC-Command (Note2)	Associated serving cells			
dl-SchedulingOffset-PDSCH-TypeA (Note2)	Associated serving cells			
dl-SchedulingOffset-PDSCH-TypeB (Note2)	Associated serving cells			
drx-Adaptation-r16	PCell			
dynamicSFI (Note2)	Associated serving cells			
handoverInterF	PCell			
handoverLTE-EPC	PCell			
handoverLTE-5GC	PCell			
tpc-PUCCH-RNTI (Note2)	Associated serving cells			
tpc-PUSCH-RNTI (Note2)	Associated serving cells			
tpc-SRS-RNTI (Note2)	Associated serving cells			
twoDifferentTPC-Loop-PUCCH (Note2)	Associated serving cells			
twoDifferentTPC-Loop-PUSCH (Note2)	Associated serving cells			
ul-SchedulingOffset (Note2)	Associated serving cells			
voiceOverNR (Note1)	Associated serving cells.			
NOTE 1: For a UE that does not support Ich-7				
associated serving cells includes all				
that supports Ich-ToSCellRestriction				
serving cells includes the serving ce	lls indicated by			

allowedServingCells for the LCH.

The associated serving cells including both the cell sending the command and the cell applying the command.

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 assort PUCCH cell(s) associated with this loschedulingRequestID).	

A.4: Sidelink capabilities applicable to Uu and PC5

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

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

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

Sidelink Parameter	UECapabilityInformation	UECapabilityInformationSidelink
accessStratumReleaseSi	-	X
delink		
outOfOrderDeliverySideli		X
nk am-WithLongSN-Sidelink	X	X
um-WithLongSN-Sidelink	X	X
Icp-RestrictionSidelink	X	^
logicalChannelSR-	X	
DelayTimerSidelink		
multipleSR-	X	
ConfigurationsSidelink		
multipleConfiguredGrants	X	
Sidelink		
supportedBandCombinati	X	
onListSidelinkEUTRA-NR supportedBandCombinati		X
onListSidelinkNR		^
gnb-	X	
ScheduledMode3Sidelink	X	
EUTRA		
gnb-	Х	
ScheduledMode4Sidelink		
EUTRA		
sl-Reception	X	X
sl-TransmissionMode1	X	
sl-TransmissionMode2	X	
sl-TransmissionMode2-	Х	
PartialSensing sl-TransmissionMode2-	X	
RandomResourceSelecti	^	
on		
sync-Sidelink	Х	
congestionControlSidelin	X	
k		
sl-Tx-256QAM	X	X
sl-Rx-256QAM	X	X
psfch-	X	
FormatZeroSidelink lowSE-64QAM-MCS-	X	X
TableSidelink	^	^
csi-ReportSidelink		X
enb-sync-Sidelink	X	^
rankTwoReception		X
fewerSymbolSlotSidelink	X	
sl-openLoopPC-RSRP-	X	X
ReportSidelink		
rx-IUC-Scheme1-	X	X
PreferredMode2Sidelink		
rx-IUC-Scheme1-	X	X
NonPreferredMode2Sidel ink		
rx-IUC-Scheme2-	X	X
Mode2Sidelink	^	^
rx-IUC-Scheme1-SCI	X	X
tx-Sidelink	X	
rx-Sidelink	X	
ue-PowerClassSidelink	X	
drx-OnSidelink	X	X
enhancedUuDRX-	X	
forSidelink		
relayUE-Operation-L2	X	
remoteUE-Operation-L2	X	
remoteUE- PathSwitchToldleInactive	X	
Relay		
rvoiay	l	

supportedBandCombinati	X	
onListSL-RelayDiscovery		
supportedBandCombinati	X	
onListSL-		
NonRelayDiscovery		
rx-IUC-Scheme1-SCI-	X	X
ExplicitReq		
scheme2-		X
ConflictDeterminationRS		
RP		
tx-IUC-Scheme2-	X	X
Mode2Sidelink		
tx-IUC-Scheme1-	X	X
Mode2Sidelink		
rx-sidelinkPSFCH	X	
p0-OLPC-Sidelink	X	

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;

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

Triggered serving cell
Triggered serving cell
Triggered serving cell
Triggering&Triggered serving cells
Triggering&Triggered serving cells
Triggered serving cell
Triggered serving cell
Triggering&Triggered serving cells
Triggered serving cell
Triggering&Triggered serving cells
Triggering&Triggered serving cells
eNumerology, the supported number of BWPs
•

- NOTE 1: For *bwp-DiffNumerology* and *bwp-SameNumerology*, the supported number of BWPs for each band is still based on the indicated number for this band regardless of whether it is a scheduling cell or scheduled cell.
- NOTE 2: For crossCarrierSchedulingProcessing-DiffSCS-r16, if reported value is different between the band of the scheduled/triggered/indicated cell and the band of the scheduling/triggering/indicating cell, the value reported for the scheduling/triggering/indicating cell is applied.
- NOTE 3: Applicable for cross carrier scheduling with the same SCS in the scheduling cell and the scheduled cell. If the reported value is different between the band of the scheduled/triggered/indicated cell and the band of the scheduling/triggering/indicating cell, the value reported for the scheduling/triggering/indicating cell is applied.

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.

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

S	Support for the feature			Setting of UE	capability fields		
		Common UE capability (with suffix '- XDD-Diff')	Common UE capability (with suffix '- FRX-diff')	fdd-Add-UE- NR/MRDC- Capabilities	tdd-Add-UE- NR/MRDC- Capabilities	fr1-Add-UE- NR/MRDC- Capabilities	fr2-Add-UE- NR/MRDC- Capabilities
Case 1	FR1 FDD: 'supported' FR1 TDD: 'supported' FR2 TDD: 'supported'	Included	Included	Not included	Not included	Not included	Not included
Case 2	FR1 FDD: 'not supported' FR1 TDD: 'not supported' FR2 TDD: 'not supported'	Not included	Not included	Not included	Not included	Not included	Not included
Case 3	FR1 FDD: 'not supported' FR1 TDD: 'supported' FR2 TDD: 'supported'	Not included	Included	Not included	Included	Not included	Not included
	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	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'	Included	Not included	Not included	Not included	Included	Not included
	FR2 TDD: 'not supported'	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	Meeting	TDoc	CR	Rev	Cat	Subject/Comment	New version
06/2017	RAN2#9 8	R2-1704810				First version	0.0.1
06/2017	RAN2#N R2	R2-1707386					0.0.2
08/2017	RAN2#9 9	R2-1708750					0.0.3
12/2017	RAN2#1 00	R2-1712587					0.0.4
12/2017	RAN2#1 00	R2-1714141					0.0.5
12/2017	RAN2#1 00	R2-1714271					0.1.0
12/2017		RP-172521				Submitted to RAN#78 for approval	1.0.0
12/2017	RP-78					Upgraded to Rel-15	15.0.0
03/2018	RP-79	RP-180440	0003	3	F	Updates on UE capabilities	15.1.0
06/2018		RP-181216	0009	2	В	Introduce ANR in NR	15.2.0
	RP-80	RP-181216	0012	1	F	Miscellaneous corrections	15.2.0
	RP-80	RP-181216	0013	-	В	Delay budget report and MAC CE adaptation for NR for TS 38.306	15.2.0
09/2018		RP-181940	8000	4	F	Correction on total layer2 buffer size	15.3.0
	RP-81	RP-181942	0024	1	F	Introduction of UE capability constraints	15.3.0
40/0010	RP-81	RP-181942	0030	-	F	38.306 corrections and cleanup	15.3.0
12/2018		RP-182651	0016	4	F	Clarification for Interruption-based and gap-based SFTD measurement	
	RP-82 RP-82	RP-182653 RP-182652	0033	2	F	Timer based BWP switching Additional UE capabilities for NR standalone	15.4.0
	RP-82	RP-182651	0035 0037	1	F F	Clarification to UE capability of independentGapConfig for inter-RAT	15.4.0 15.4.0
					-	NR measurement not yet configured with EN-DC	
	RP-82	RP-182661	0038	2	F	Update of L2 capability parameters	15.4.0
	RP-82	RP-182660	0047	2	F	Clarification on physical layer parameters of UE capability	15.4.0
	RP-82	RP-182666	0050	3	F	Introduce RRC buffer size in NR	15.4.0
	RP-82 RP-82	RP-182664 RP-182664	0051 0052	2	F F	Clarification of multipleConfiguredGrants CR to 38.306 for PDCP CA duplication for SRB	15.4.0 15.4.0
	RP-82	RP-182661	0054	1	F	UE capability handling for FDD/TDD and FR1/FR2	15.4.0
	RP-82	RP-182663	0057	1	F	Clarify for per CC UL/DL modulation order capabilities	15.4.0
	RP-82	RP-182664	0058	1	F	Inter-frequency handover capability	15.4.0
	RP-82	RP-182665	0060	3	F	UE capability on PA architecture	15.4.0
	RP-82	RP-182661	0062	1	F	CR on signaling contiguous and non-contiguous EN-DC capability	15.4.0
	RP-82	RP-182813	0063	6	F	Update of UE capabilities	15.4.0
	RP-82	RP-182662	0065	2	F	Introduction of SRS switching capability	15.4.0
	RP-82	RP-182667	0068	2	В	CR on introduction of UE overheating support in NR SA scenario	15.4.0
	RP-82	RP-182664	0071	-	F	Introduction of SRS switching capability	15.4.0
03/2019	RP-83	RP-190634	0073	1	F	Capability for aperiodic CSI-RS triggering with different numerology between PDCCH and CSI-RS	15.5.0
	RP-83	RP-190542	0074	1	F	Layer-1 capability update	15.5.0
	RP-83	RP-190545	0075	2	F	CR to 38.306 on introducing nr-CGI-Reporting-ENDC	15.5.0
	RP-83	RP-190545	0086	2	F	CR to clarify intra-NR handover capabilities	15.5.0
	RP-83	RP-190546	8800	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-84	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 lch-ToSCellRestriction	15.6.0
	RP-84	RP-191379	0110	2	F	Correction on description of additionalActiveSpatialRelationPUCCH	15.6.0
	RP-84	RP-191378	0111	1	F	Clarification on csi-RS-CFRA-ForHO	15.6.0
	RP-84	RP-191379	0114	2	F	CR on capability of maxUplinkDutyCycle for FR2	15.6.0
	RP-84	RP-191380	0115	2	F	38.306 miscellaneous corrections	15.6.0
	RP-84	RP-191378	0116	1	В	38.306 CR for late drop	15.6.0
	DD 04	RP-191381	0118	4	F	Clarification on supported modulation order capability	15.6.0
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	RP-84	RP-191374	0119	-	F	Correction to PDCP parameters	15.6.0
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	RP-84	RP-191380	0124	3	F	Clarification on pdsch-ProcessingType2	15.6.0
	RP-84	RP-191378	0125	1	F	Clarification on present of tci-StatePDSCH	15.6.0
	RP-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	2	F	Correction on the number of DRB in UE Capability Constraints	15.6.0
	RP-84	RP-191379	0132	1	F	CR to capture UE supported DL/UL bandwidths	15.6.0
	RP-84	RP-191376	0133	-	F	UE capability signalling for FD-MIMO processing capabilities for EN-DC	15.6.0
	RP-84	RP-191376	0134	-	F	Modified UE capability on different numerologies within the same 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-85	RP-192194	0156	3	F	UE Capabilities covering across all serving cells Clarification on UE capability on different numerologies within the	15.7.0
		RP-192190	0167		_	same PUCCH group	15.7.0
	RP-85 RP-85	RP-192193 RP-192346	0168 0169	-	F C	Correction on CA parameters in NR-DC Introduction of UE capability for NR-DC with SFN synchronization between PCell and PSCell	15.7.0 15.7.0
12/2019	RP-86	RP-192934	0185	1	F	Clarification on the restriction of maximum SRS resource sets	15.8.0
	RP-86	RP-192936	0186	3	F	configuration for uplink beam management. 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-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-87	RP-200334	0236	-	F	Correction on SRB capability in NR-DC	15.9.0
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	RP-87	RP-200334	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-200356	0145	1	F	CR on capability of maxUplinkDutyCycle for inter-band EN-DC PC2	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	C	Inclusion of 90MHz UE Bandwidth	16.0.0
	RP-87	RP-200358	0226	2	В	Introducing autonomous gap in CGI reporting	16.0.0
	RP-87	RP-200357	0229	-	В	UE capability for IDC	16.0.0
	RP-87	RP-200340	0230	-	В	Introduction of Cross Link Interference (CLI) handling and Remote Interference Management (RIM)	16.0.0
	RP-87	RP-200358	0233	1	С	Introduction of EPS voice fallback enhancement	16.0.0
	RP-87	RP-200350	0235		В	Introduction of SRVCC from 5G to 3G	16.0.0
	RP-87	RP-200358	0243	1	В	Introduction of DL RRC segmentation	16.0.0
	RP-87	RP-200358	0258	1	В	Introduction of downgraded configuration for SRS antenna switching	16.0.0
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07/2020		RP-201163	0288	2	Α	Correction to the serving cell number for ENDC power class	16.1.0
	RP-88	RP-201187	0289	3	Α	CR on introduction of BCS to asymmetric channel bandwidths (38.306)	16.1.0
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09/2020	RP-89	RP-201932	0370	2	В	Release-16 UE capabilities based on RAN1, RAN4 feature lists and RAN2 corrections	16.2.0
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	RP-89	RP-201932	0382	1	F	Correction on beamSwitchTiming values of 224 and 336	16.2.0
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	RP-89	RP-201962	0407	1	F	Miscellaneous corrections on UL Tx switching	16.2.0
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12/2020		RP-202790	0419	2	Α	CR to clarify UE capability in case of Cross-Carrier operation	16.3.0
12/2020	RP-90	RP-202778	0413	1	В	Release-16 UE capabilities based on RAN1, RAN4 feature lists and	16.3.0
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	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
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	RP-90	RP-202771	0472	4	F	Introduction of capability bit for multi-CC simultaneous TCI activation with multi-TRP	16.3.0
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	RP-91 RP-91 RP-91 RP-91 RP-91 RP-91 RP-91 RP-91	RP-210703 RP-210703 RP-210691 RP-210697 RP-210805 RP-210697 RP-210703 RP-210695	0503 0505 0506 0509 0512 0513 0516 0520	2 2 1 2 3 1 2 2	F A F B F A F	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	16.4.0 16.4.0 16.4.0 16.4.0 16.4.0 16.4.0 16.4.0 16.4.0
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	RP-91	RP-210701	0537	1	Α	Clarification on the supportedBandwidthCombinationSetIntraENDC capability	16.4.0
	RP-91	RP-210697	0538	-	В	Release-16 UE capabilities based on updated RAN1 and RAN4 feature lists	16.4.0
	RP-91	RP-210693	0539	-	В	Uplink Tx DC location reporting for two carrier uplink CA	16.4.0
06/2021	RP-92	RP-211487	0526	5	С	Redirection with MPS Indication [Redirect_MPS_I]	16.5.0
	RP-92	RP-211480	0541	4	F	Miscellaneous corrections to Rel-16 UE capabilities	16.5.0
	RP-92	RP-211475	0542	3	F	Correction on Capability of two PUCCH transmission	16.5.0
	RP-92	RP-211470	0543	3	F	Correction on V2X UE capability	16.5.0
	RP-92	RP-211483	0545	2	Α	CR on UE capability in case of Cross-Carrier operation	16.5.0
	RP-92	RP-211470	0547	2	F	Addition of total L2 buffer size and RLC RTT for NR SL	16.5.0
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History

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