ETSI TS 138 306 V18.7.0 (2025-10)



5G;

NR;

User Equipment (UE) radio access capabilities (3GPP TS 38.306 version 18.7.0 Release 18)



Reference RTS/TSGR-0238306vi70 Keywords 5G

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Foreword

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

1 Scope

[18]

[19]

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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Performance requirements".

procedures".

- 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". 3GPP TS 36.306: "Evolved Universal Terrestrial Radio Access (E-UTRA) User Equipment (UE) [15] radio access capabilities". [16] 3GPP TS 38.323: "NR; Packet Data Convergence Protocol (PDCP) specification". 3GPP TS 36.331: "Evolved Universal Terrestrial Radio Access (E-UTRA) Radio Resource [17] Control (RRC); Protocol Specification".

3GPP TS 38.101-4: "NR; User Equipment (UE) radio transmission and reception Part 4:

3GPP TS 36.213: "Evolved Universal Terrestrial Radio Access (E-UTRA); Physical layer

[20]	3GPP TS 25.306: "UE radio access capabilities".
[21]	3GPP TS 38.304: "User Equipment (UE) procedures in Idle mode and RRC Inactive state".
[22]	3GPP TS 37.355: "LTE Positioning Protocol (LPP)".
[23]	3GPP TS 38.340: "NR; Backhaul Adaptation Protocol (BAP) specification".
[24]	3GPP TR 38.822: "NR; User Equipment (UE) feature list".
[25]	3GPP TS 37.324: "E-UTRA and NR; Service Data Adaptation Protocol (SDAP) specification"
[26]	3GPP TS 38.314: "NR; Layer 2 Measurements".
[27]	3GPP TS 36.133: "Evolved Universal Terrestrial Radio Access (E-UTRA); Requirements for support of radio resource management".
[28]	3GPP TS 38.300: "NR; NR and NG-RAN Overall Description; Stage-2".
[29]	3GPP TS 26.247: "Transparent end-to-end Packet-switched Streaming Service (PSS); Progressive Download and Dynamic Adaptive Streaming over HTTP (3GP-DASH)".
[30]	3GPP TS 26.114: "IP Multimedia Subsystem (IMS); Multimedia Telephony; Media handling and interaction".
[31]	3GPP TS 26.118: "Virtual Reality (VR) profiles for streaming applications".
[32]	3GPP TS 37.213: "Physical layer procedures for shared spectrum channel access".
[33]	3GPP TS 38.401: "NG-RAN; Architecture description".
[34]	3GPP TS 38.101-5: "NR; User Equipment (UE) radio transmission and reception; Part 5: Satellite access Radio Frequency (RF) and performance requirements".
[35]	3GPP TS 38.104: "NR; Base Station (BS) radio transmission and reception".
[36]	3GPP TS 38.322: "NR; Radio Link Control (RLC) protocol specification".
[37]	3GPP TS 23.501: "System Architecture for the 5G System; Stage 2".

3 Definitions, symbols and abbreviations

3.1 Definitions

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

eRedCap UE: a UE with enhanced reduced capabilities as specified in clause 4.2.22.1.

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.

SON report(s): A SON report corresponds to one report from UE such as Random Access report, Radio Link Failure report, Connection Establishment Failure report, Mobility History Information report, Successful Handover report, and Successful PSCell change report.

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

3.2 Symbols

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

MaxDLDataRate: Maximum DL data rate

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

MaxULDataRate: Maximum UL data rate

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

3.3 Abbreviations

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

A-CSI Aperiodic-CSI ATG Air To Ground

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

DSR Delay Status Report

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

IDC In-Device Coexistence
MAC Medium Access Control
MHI Mobility History Information
MBS Multicast/Broadcast Service

MCG Master Cell Group MN Master Node

MO-SDT Mobile Originated Small Data Transmission

MRB MBS Radio Bearer

MR-DC Multi-Radio Dual Connectivity
MSD Maximum Sensitivity Degradation

MT-SDT Mobile Terminated Small Data Transmission

mTRP Multiple TRP

MUSIM Multi-Universal Subscriber Identity Module

NCJT Non-Coherent Joint Transmission
NCR Network Controlled Repeater
NCR-MT NCR Mobile Termination
NCSG Network Controlled Small Gap
NES Network Energy Savings

NGSO	Non-Geosynchronous Orbit
NTN	Non-Terrestrial Network

P-CSI Periodic CSI

PDCP Packet Data Convergence Protocol

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

SDAP Service Data Adaptation Protocol

SDL Supplementary Downlink

SN Secondary Node sTRP Serving TRP

SUL Supplementary Uplink
TN Terrestrial Network
TRP Transmit/Receive Point
UDC Uplink Data Compression

UL Uplink

VSAT Very Small Aperture Terminal WLAN Wireless Local Area Network

XR eXtended Reality

4 UE radio access capability parameters

4.1 Supported max data rate

4.1.1 General

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

4.1.2 Supported max data rate for DL/UL

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

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

wherein

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

For the j-th CC,

 $v_{Layers}^{(j)}$ is the maximum number of supported layers given by 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 and except for UEs supporting *supportOfERedCap-r18*, 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 $v_{Lavers}^{(j)} \cdot Q_m^{(j)} \cdot f^{(j)}$ 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 single carrier NR SA operation and for UEs supporting *supportOfERedCap-r18*, the UE shall support a data rate for the carrier that is the data rate computed using the above formula, with I = 1 CC and:

if the UE supports eRedCapNotReducedBB-BW-r18:

- component $v_{Layers}^{(j)} \cdot Q_m^{(j)} \cdot f^{(j)}$ is 0.75 if $v_{Layers}^{(j)} = 1$, or;
- component $v_{Layers}^{(j)} \cdot Q_m^{(j)} \cdot f^{(j)}$ is 0.8 if $v_{Layers}^{(j)} = 2$;

else

- component $v_{Layers}^{(j)} \cdot Q_m^{(j)} \cdot f^{(j)}$ is 3.2, and;;
 - $N_{PRB}^{BW(j),\mu}$ is 25 if $\mu = 0$ or, 12 if $\mu = 1$;

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 TS 36.213 [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/SDL if SUL/SDL band is supported by the UE. "FD" in the column indicates to refer the associated field description. "FR1 only" or "FR2 only" in the column indicates the associated feature is only supported in FR1 or FR2 and "TDD only" indicates the associated feature is only supported in TDD and not applicable to SUL/SDL 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/SDL) and TDD and if (some of) the UE capability fields have a different value for FDD (or SUL/SDL) and TDD:
 - 2> if for FDD (and, if the UE supports SUL/SDL, for SUL/SDL), the UE supports additional functionality compared to what is indicated by the previous fields of UE-NR/MRDC-Capability/SidelinkParameters:
 - 3> include field fdd-Add-UE-NR/MRDC/Sidelink-Capabilities and set it to include fields reflecting the additional functionality applicable for FDD;
 - 2> if for TDD, the UE supports additional functionality compared to what is indicated by the previous fields of UE-NR/MRDC-Capability/SidelinkParameters:
 - 3> include field tdd-Add-UE-NR/MRDC/Sidelink-Capabilities and set it to include fields reflecting the additional functionality applicable for TDD;
- 1> if UE supports both FR1 and FR2 and if (some of) the UE capability fields have a different value for FR1 and FR2:
 - 2> if for FR1, the UE supports additional functionality compared to what is indicated by the previous fields of UE-NR/MRDC-Capability:
 - 3> include field fr1-Add-UE-NR/MRDC-Capabilities and set it to include fields reflecting the additional functionality applicable for FR1;
 - 2> if for FR2, the UE supports additional functionality compared to what is indicated by the previous fields of UE-NR/MRDC-Capability:
 - 3> include field fr2-Add-UE-NR/MRDC-Capabilities and set it to include fields reflecting the additional functionality applicable for FR2;
- NOTE 1: The fields which indicate "shall be set to 1" or "shall be set to *supported*" in the following tables means these features are purely mandatory and are assumed they are the same as mandatory without capability signalling.
- NOTE 2: For the case where the UE is allowed to support different functionality between FDD and TDD and between FR1 and FR2 according to the specification, the UE capability indication is clarified in Annex B.
- NOTE 2a: In this release of the specification, if the UE is allowed to support different functionalities between FDD and TDD, and/or between FR1 and FR2, these functionalities are signalled per band with the text "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 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	UE	Yes	No	No
Indicates the access stratum release the UE supports as specified in TS 38.331 [9]. airToGroundNetwork-r18	UE	No	No	FR1
Indicates whether the UE supports air to ground network access. If the UE indicates this capability the UE shall support the following ATG essential features, e.g., acquiring ATG cell specific SIB22 and ATG cell specific P-Max.				only
crossCarrierSchedulingConfigurationRelease-r17	UE	No	No	No
Indicates whether the UE supports using crossCarrierSchedulingConfigRelease to release the configurations configured by crossCarrierSchedulingConfig.				
delayBudgetReporting Indicates whether the UE supports delay budget reporting as specified in TS 38.331 [9].	UE	No	No	No
dl-DedicatedMessageSegmentation-r16	UE	No	No	No
Indicates whether the UE supports reception of segmented DL RRC messages.				
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
hardSatelliteSwitchResyncNTN-r18 Indicates whether UE supports hard satellite switch with re-sync, as specified in TS 38.331 [9]. A UE supporting this feature shall also indicate the support of	UE	No	No	No
nonTerrestrialNetwork-r17. When UE supports this feature and does not support softSatelliteSwitchResyncNTN-r18, this UE is able to perform hard satellite switch with re-sync in a network supporting soft satellite switch with re-sync, as specified in TS 38.331 [9].				
inactiveState Indicates whether the UE supports RRC_INACTIVE as specified in TS 38.331 [9]. This capability is not applicable to NCR-MT.	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 reporting of affected NR carrier frequencies in IDC assistance information as specified in TS 38.331 [9].	UE	No	No	No
inDeviceCoexIndAutonomousDenial-r18 Indicates whether the UE supports IDC autonomous denial as specified in TS 38.331 [9]. A UE supporting this feature shall also support inDeviceCoexInd-r16.	UE	No	No	No
inDeviceCoexIndFDM-r18 Indicates whether the UE supports reporting of affected NR carrier frequency ranges in IDC assistance information as specified in TS 38.331 [9]. A UE supporting this feature shall also support inDeviceCoexInd-r16.	UE	No	No	No
inDeviceCoexIndTDM-r18 Indicates whether the UE supports reporting of IDC TDM assistance information as specified in TS 38.331 [9]. A UE supporting this feature shall also support inDeviceCoexInd-r16.	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
movMDD Add v47		No	No	DIFF)
maxMRB-Add-r17 Indicates the additional maximum number of MRBs that the UE supports for MBS multicast reception in RRC_CONNECTED as specified in TS 38.331 [9].	UE	No	No	No
For the UE indicating support of <i>multicastInactive-r18</i> , this capability is also applicable to multicast reception in RRC_INACTIVE, as specified in TS 38.331 [9].				
mcgRLF-RecoveryViaSCG-r16 Indicates whether the UE supports recovery from MCG RLF via split SRB1 (if supported) and via SRB3 (if supported) as specified in TS 38.331[9].	UE	No	No	No
minSchedulingOffsetPreference-r16 Indicates whether the UE supports providing its preference on the minimum scheduling offset for cross-slot scheduling of the cell group for power saving in RRC_CONNECTED, as specified in TS 38.331 [9].	UE	No	No	No
mpsPriorityIndication-r16 Indicates whether the UE supports mpsPriorityIndication on RRC release with redirect as defined in TS 38.331 [9].	UE	No	No	No
mt-SDT-r18 Indicates whether the UE supports initiating MT-SDT procedure via random access procedure with 4-step RA type and if UE supports twoStepRACH-r16, with 2-step RA type, in response to the reception of MT-SDT indication in paging message, as specified in TS 38.331 [9].	UE	No	No	No
mt-SDT-NTN-r18 Indicates whether the UE supports initiating MT-SDT procedure in NTN via random access procedure with 4-step RA type and if UE supports twoStepRACH-r16 for NTN, with 2-step RA type, in response to the reception of MT-SDT indication in paging message, as specified in TS 38.331 [9]. A UE supporting this feature shall also indicate the support of nonTerrestrialNetwork-r17.	UE	No	No	No
musim-CapabilityRestriction-r18 Indicates whether the UE supports providing MUSIM assistance information with temporary capability restriction and capability restriction indication (i.e., musim-CapRestrictionInd), as defined in TS 38.331 [9]. For a UE supporting nr-NeedForGap-Reporting-r16, this field also indicates UE supports providing musim-NeedForGapsInfoNR-r18 with temporary capability restriction 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
musim-GapPriorityPreference-r18 Indicates whether the UE supports providing MUSIM assistance information with periodic MUSIM gap priority preference and related periodic MUSIM gap priority configuration, and its preference of keeping all collided MUSIM gaps, as defined in TS 38.331 [9]. A UE supporting this feature shall support musim-GapPreference-r17.	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 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.	UE	No	No	No
ntn-CHO-OnlyLocationTimeTrigger-r18 Indicates whether the UE supports conditional handover with only a location-based or a time-based trigger event, i.e. condEventD1, condEventD2 or condEventT1, as specified in TS 38.331 [9]. A UE supporting this feature shall also indicate the support of at least one of locationBasedCondHandover-r17 or timeBasedCondHandover-r17 or locationBasedCondHandoverEMC-r18.	UE	No	No	No

Intr-ScenarioSupport-r17 Indicates whether the UE supports the NTN features in GSO scenario or NGSO scenario. If a UE does not include this field but includes nonTerrestrialNetwork-r17, the UE supports the NTN features for both GSO and NGSO scenarios, and also supports mobility between GSO and NGSO scenarios. Intr-VSAT-AntennaType-r18 Indicates whether a VSAT UE uses electronic or mechanical steering antenna. A UE supporting this feature shall also indicate the support of nonTerrestrialNetwork-r17. Intr-VSAT-MobilityType-r18 Indicates whether a VSAT UE is a mobile or fixed VSAT. A UE supporting this feature shall also indicate the support of nonTerrestrialNetwork-r17. Intr-VSAT-MobilityType-r18 Indicates whether a VSAT UE is a mobile or fixed VSAT. A UE supporting this feature shall also indicate the support of nonTerrestrialNetwork-r17. Intr-VSAT-MobilityType-r18 Indicates whether the UE supports the on-demand request procedure of SIB(s) or posSIB(s) while in RRC_CONNECTED, as specified in TS 38.331 [9]. UE No No Indicates whether the UE supports overheating assistance information. Indicates whether the UE supports receiving paging early indication in DCI format 2, 7 as specified in TS 38.304 [21] for a list of frequency band. The UE shall support UEID based subgrouping for a frequency band. The set of OFDM symbols within a slot where UE can monitor the PEI PDCCH in Type 2 CSS is the same as the requirement for paging PDCCH in Type 2 CSS for IDLE and INACTIVE mode UEs. Intralited Paging PDCCH in Type 2 CSS for IDLE and INACTIVE mode UEs. Intralited Paging PDCCH in Type 2 CSS for IDLE and INACTIVE mode UEs. Intralited Paging PDCCH in Type 2 CSS for IDLE and INACTIVE mode UEs. Intralited Paging PDCCH in Type 2 CSS for IDLE and INACTIVE mode UEs. Intralited Paging PDCCH in Type 2 CSS for IDLE and INACTIVE mode UEs. Intralited Paging PDCCH in Type 2 CSS is the same as the requirements for the eligible FR2 fallback band combinations as defined in Clause 4.2 of TS 38.101-2 [3] and TS 38.101-3 [4]. If not
supports mobility between GSO and NGSO scenarios. ntr-VSAT-AntennaType-r18 Indicates whether a VSAT UE uses electronic or mechanical steering antenna. A UE supporting this feature shall also indicate the support of nonTerrestrialNetwork-r17. ntr-VSAT-MobilityType-r18 Indicates whether a VSAT UE is a mobile or fixed VSAT. A UE supporting this feature shall also indicate the support of nonTerrestrialNetwork-r17. ntr-VSAT-MobilityType-r18 Indicates whether a VSAT UE is a mobile or fixed VSAT. A UE supporting this feature shall also indicate the support of nonTerrestrialNetwork-r17. onDemandSIB-Connected-r16 Indicates whether the UE supports the on-demand request procedure of SIB(s) or posSIB(s) while in RRC_CONNECTED, as specified in TS 38.331 [9]. overheatingInd Indicates whether the UE supports overheating assistance information. pei-SubgroupingSupportBandList-r17 Indicates whether the UE supports receiving paging early indication in DCI format 2_7 as specified in TS 38.304 [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 2 CSS is the same as the requirement for paging PDCCH in Type 2 CSS for IDLE and INACTIVE mode UEs. partialFR2-FallbackRX-Req 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-InsteadCG-SDT-r18 Indicates whether the UE supports the selection of RACH resources instead of configured grant type 1 resource when triggering
Intr-VSAT-AntennaType-r18 Indicates whether a VSAT UE uses electronic or mechanical steering antenna. A UE supporting this feature shall also indicate the support of nonTerrestrialNetwork-r17. Intr-VSAT-MobilityType-r18 Indicates whether a VSAT UE is a mobile or fixed VSAT. A UE supporting this feature shall also indicate the support of nonTerrestrialNetwork-r17. Intr-VSAT-MobilityType-r18 Indicates whether a VSAT UE is a mobile or fixed VSAT. A UE supporting this feature shall also indicate the support of nonTerrestrialNetwork-r17. Intr-VSAT-MobilityType-r18 Indicates whether a VSAT UE is a mobile or fixed VSAT. A UE supporting this feature shall also indicate the support of nonTerrestrialNetwork-r17. 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]. Indicates whether the UE supports overheating assistance information. Indicates whether the UE supports overheating assistance information. Indicates whether the UE supports receiving paging early indication in DCI format 2.7 as specified in TS 38.304 [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 2 CSS is the same as the requirement for paging PDCCH in Type 2 CSS for IDLE and INACTIVE mode UEs. IntraliafR2-FallbackRX-Req 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. Indicates whether the UE
Indicates whether a VSAT UE uses electronic or mechanical steering antenna. A UE supporting this feature shall also indicate the support of nonTerrestrialNetwork-r17. Intr-VSAT-MobilityType-r18 Indicates whether a VSAT UE is a mobile or fixed VSAT. A UE supporting this feature shall also indicate the support of nonTerrestrialNetwork-r17. Indicates whether a VSAT UE is a mobile or fixed VSAT. A UE supporting this feature shall also indicate the support of nonTerrestrialNetwork-r17. 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]. Indicates whether the UE supports overheating assistance information. Indicates whether the UE supports receiving paging early indication in DCI format 2_7 as specified in TS 38.304 [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. 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. Indicates whether the UE supports the selection of RACH resources instead of configured grant type 1 resource when triggering resume for MO-SDT or MT-SDT
supporting this feature shall also indicate the support of nonTerrestrialNetwork-r17. nth-VSAT-MobilityType-r18 Indicates whether a VSAT UE is a mobile or fixed VSAT. A UE supporting this feature shall also indicate the support of nonTerrestrialNetwork-r17. onDemandSIB-Connected-r16 Indicates whether the UE supports the on-demand request procedure of SIB(s) or posSIB(s) while in RRC_CONNECTED, as specified in TS 38.331 [9]. overheatingInd Indicates whether the UE supports overheating assistance information. pei-SubgroupingSupportBandList-r17 Indicates whether the UE supports receiving paging early indication in DCI format 2_7 as specified in TS 38.304 [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 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-InsteadCG-SDT-r18 Indicates whether the UE supports the selection of RACH resources instead of configured grant type 1 resource when triggering resume for MO-SDT or MT-SDT
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feature shall also indicate the support of nonTerrestrialNetwork-r17. onDemandSIB-Connected-r16 Indicates whether the UE supports the on-demand request procedure of SIB(s) or posSIB(s) while in RRC_CONNECTED, as specified in TS 38.331 [9]. overheatingInd Indicates whether the UE supports overheating assistance information. pei-SubgroupingSupportBandList-r17 Indicates whether the UE supports receiving paging early indication in DCI format 2_7 as specified in TS 38.304 [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 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-InsteadCG-SDT-r18 Indicates whether the UE supports the selection of RACH resources instead of configured grant type 1 resource when triggering resume for MO-SDT or MT-SDT
onDemandSiB-Connected-r16 Indicates whether the UE supports the on-demand request procedure of SIB(s) or posSIB(s) while in RRC_CONNECTED, as specified in TS 38.331 [9]. UE No No overheatingInd Indicates whether the UE supports overheating assistance information. UE No No pei-SubgroupingSupportBandList-r17 Indicates whether the UE supports receiving paging early indication in DCI format 2_7 as specified in TS 38.304 [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. UE No No partialFR2-FallbackRX-Req 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 38.101-3 [4]. If not indicated, the UE shall meet all the UE minimum receiver requirements for all the FR2 fallback combinations in TS 38.101-2 [3] and TS 38.101-3 [4]. The UE shall support configuration of any of the FR2 fallback band combinations regardless of the presence or the absence of this field. UE No No ra-InsteadCG-SDT-r18 Indicates whether the UE supports the selection of RACH resources instead of configured grant type 1 resource when triggering resume for MO-SDT or MT-SDT UE No
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ra-InsteadCG-SDT-r18 UE No No Indicates whether the UE supports the selection of RACH resources instead of configured grant type 1 resource when triggering resume for MO-SDT or MT-SDT
Indicates whether the UE supports the selection of RACH resources instead of configured grant type 1 resource when triggering resume for MO-SDT or MT-SDT
configured grant type 1 resource when triggering resume for MO-SDT or MT-SDT
and next configured grant type 1 resource is too far, as specified in TS 38.331 [9].
A UE supporting this feature shall also indicate the support of cg-SDT-r17, or mt-
CG-SDT-r18.
ra-SDT-r17 UE No No
Indicates whether the UE supports initiating MO-SDT procedure (i.e., 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
Indicates whether the UE supports initiating MO-SDT procedure (i.e., 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
Indicates whether the UE supports reception of redirectedCarrierInfo in an
RRCRelease message in response to an RRCResumeRequest or
RRCResumeRequest1 which is triggered by the NAS layer, as specified in TS
38.331 [9].
reducedCP-Latency UE No No
Indicates whether the UE supports reduced control plane latency as defined in TS
38.331 [9]
referenceTimeProvision-r16 UE No No
Indicates whether the UE supports provision of referenceTimeInfo in
LULINIORMATION LYANGIER MESSAGE AND IN SIRV AND REFERENCE TIME INFORMATION
DLInformationTransfer message and in SIB9 and reference time information
preference indication via assistance information, as specified in TS 38.331 [9].
preference indication via assistance information, as specified in TS 38.331 [9]. releasePreference-r16 UE No No
preference indication via assistance information, as specified in TS 38.331 [9].

requirementTypeIndication-r18 Indicates whether the UE supports network controlled indication of the MTTD/MRTD and RF requirements by nonCollocatedTypeMRDC-r18 for TDD-TDD inter-band ENDC with overlapping or partially overlapping bands as specified in TS 38.331 [9].	UE	No	No	FR1 only
This field is only applicable to the UE indicating interBandMRDC-WithOverlapDL-Bands-r16.				
resumeAfterSDT-Release-r18	UE	No	No	No
Indicates whether the UE supports immediate RRC connection resume procedure				
triggering after receiving RRCRelease message with a resumeIndication included				
during an ongoing SDT procedure, as specified in TS 38.331 [9].				
The UE indicating support of this feature shall also support any of <i>ra-SDT-r17</i> , <i>ra-SDT-NTN-r17</i> , <i>cg-SDT-r17</i> , <i>mt-SDT-r18</i> , <i>mt-SDT-NTN-r18</i> or <i>mt-CG-SDT-r18</i> .				
resumeWithStoredMCG-SCells-r16	UE	No	No	No
Indicates whether the UE supports not deleting the stored MCG SCell configuration	00	NO	INO	INO
when initiating the resume procedure.				
resumeWithStoredSCG-r16	UE	No	No	No
Indicates whether the UE supports not deleting the stored SCG configuration when				
initiating resume. The UE which indicates support for resumeWithStoredSCG-r16				
shall also indicate support for resumeWithSCG-Config-r16.				
resumeWithSCG-Config-r16	UE	No	No	No
Indicates whether the UE supports (re-)configuration of an SCG during the resume				
procedure.		 	N.I.	h.
sib19-Support-r18	UE	No	No	No
Indicates whether the UE in RRC_CONNECTED in a TN cell supports reception of SIB19 to acquire satellite assistance information for NTN access. A UE supporting				
this feature shall also indicate the support of <i>nonTerrestrialNetwork-r17</i> .				
sliceInfoforCellReselection-r17	UE	No	No	No
Indicates whether the UE supports slice-based cell reselection information in SIB	"-	'''		
and on RRC release for slice-based cell reselection in RRC _IDLE and RRC				
INACTIVE as defined in TS 38.304 [21].				
splitSRB-WithOneUL-Path	UE	No	No	No
Indicates whether the UE supports UL transmission via MCG path and DL reception				
via either MCG path or SCG path, as specified for the split SRB in TS 37.340 [7].				
The UE shall not set the FDD/TDD specific fields for this capability (i.e. it shall not include this field in <i>UE-MRDC-CapabilityAddXDD-Mode</i>).				
softSatelliteSwitchResyncNTN-r18	UE	No	No	No
Indicates whether UE supports soft satellite switch with re-sync, as specified in TS	OL	140	140	140
38.331 [9].				
A UE supporting this feature shall also indicate support of				
hardSatelliteSwitchResyncNTN-r18.				
splitDRB-withUL-Both-MCG-SCG	UE	Yes	No	No
Indicates whether the UE supports UL transmission via both MCG path and SCG				
path for the split DRB as specified in TS 37.340 [7]. The UE shall not set the				
FDD/TDD specific fields for this capability (i.e. it shall not include this field in <i>UE-MPDC Capability</i> (dd/YDD Mode)				
MRDC-CapabilityAddXDD-Mode). srb3	UE	Yes	No	No
Indicates whether the UE supports SRB3 which is a direct SRB between the SN and	JE	162	INU	INU
the UE as specified in TS 37.340 [7]. The UE shall not set the FDD/TDD specific				
fields for this capability (i.e. it shall not include this field in <i>UE-MRDC</i> -				
CapabilityAddXDD-Mode). This field is not applied to NE-DC.		<u> </u>		
srb-SDT-NTN-r17	UE	No	No	No
Indicates whether the UE supports the usage of signalling radio bearer SRB2 for				
MO-SDT (over RA-SDT or CG-SDT) or MT-SDT (over RA or CG-SDT) in NTN, as				
specified in TS 38.331 [9].				
A UE supporting this feature shall also indicate support of <i>ra-SDT-NTN-r17</i> , <i>cg-SDT-</i>				
r17, mt-SDT-NTN-r18 or mt-CG-SDT-r18 in NTN bands. A UE supporting this				
feature shall also indicate the support of <i>nonTerrestrialNetwork-r17</i> .				
srb-SDT-r17	UE	No	No	No
Indicates whether the UE supports the usage of signalling radio bearer SRB2 for	-		-	
MO-SDT (over RA-SDT or CG-SDT) or MT-SDT (over RA or CG-SDT), as specified				
in TS 38.331 [9].				
A UE supporting this feature shall also indicate support of <i>ra-SDT-r17 cg-SDT-r17</i> ,				
mt-SDT-r18 or mt-CG-SDT-r18.				

ul-GapFR2-Pattern-r17 Indicates FR2 UL gap pattern(s) supported by the UE for NR SA, for NR-DC without FR2-FR2 band combination, for NE-DC, and for (NG)EN-DC, if UE supports a band in FR2. The leading / leftmost bit (bit 0) corresponds to the FR2 UL gap pattern 0, the next bit corresponds to the FR2 UL gap pattern 1, as specified in TS 38.133 [5] and so on. The UE shall set at least one of the bits to 1 for FR2 UL gap pattern 1 and 3, if the UE indicates support for ul-GapFR2-r17 in an FR2 band.	UE	CY	No	FR2 only
ul-RRC-MaxCapaSegments-r17 Indicates whether the UE supports uplink RRC segmentation of UECapabilityInformation according to the network indication rrc-MaxCapaSegAllowed as specified in TS 38.331 [9].	UE	No	No	No
ul-RRC-Segmentation-r16 Indicates whether the UE supports uplink RRC segmentation of UECapabilityInformation according to the network indication rrc-SegAllowed as specified in TS 38.331 [9].	UE	No	No	No
ul-TrafficInfo-r18 Indicates whether UE supports sending UE assistance information with UL traffic information, including at least one of jitter range, burst arrival time, data burst periodicity and PDU Set and PSI identification, as specified in TS 38.331 [9].	UE	No	No	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 or NR-DC is supported, SRB3 as specified in TS 38.323 [16].	UE	No	No
psi-BasedDiscard-r18 Indicates whether the UEs supports PSI based discard (i.e. discardTimerForLowImportance-r18 configuration, as specified in TS 38.331 [9]). UE supporting psi-BasedDiscard-r18 shall also support the ability to identify PDU sets and PSI for UL XR traffic.	UE	No	No
shortSN Indicates whether the UE supports 12 bit length of PDCP sequence number.	UE	Yes	No

supportedROHC-Profiles	UE	No	No
Defines which ROHC profiles from the list below are supported by the UE:			
- 0x0000 ROHC No compression (RFC 5795)			
- 0x0001 ROHC RTP/UDP/IP (RFC 3095, RFC 4815)			
- 0x0002 ROHC UDP/IP (RFC 3095, RFC 4815)			
- 0x0003 ROHC ESP/IP (RFC 3095, RFC 4815) - 0x0004 ROHC IP (RFC 3843, RFC 4815)			
- 0x0004 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.	LIF	No	No
supportOfPDU-SetDiscard-r18 Indicates whether the UE supports PDU set based discard operation (i.e. pdu-	UE	No	No
SetDiscard-r18 configuration, as specified in TS 38.331 [9]).			
UE supporting this feature shall also support the ability to identify PDU sets for UL XR			
traffic.			
supportOfSN-GapReport-r18	UE	No	No
Indicates whether the UE supports PDCP SN gap reporting as specified in TS 38.323			
[16] and TS 38.331 [9].			
udc-r17	UE	No	No
Indicates whether the UE supports the uplink data compression operation as specified in			
TS 38.323 [16]. The capability signalling comprises of the following parameters:			
- standardDictionary-r17 indicates whether the UE supports UL data compression			
with SIP static dictionary as defined in TS 38.323 [16].			
- operatorDictionary-r17 indicates whether the UE supports UL data compression			
with operator defined dictionary. In this release, the UE can only support one			
operator defined dictionary. If the UE supports operator defined dictionary, the UE			
shall report <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.			
- 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].			
- 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.			
A LIE that appoints the unlink data company is a section of all appoints of the line of th			
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	J	INU	INU
UE.			
- 0x0006 ROHC TCP (RFC 6846)			
A UE that supports uplink-only ROHC profile(s) shall support ROHC profile 0x0000			
ROHC uncompressed (RFC 5795).			
The tree directification (the orthog).	L		

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
- 4.2.6.1 *MAC-Parameters*

Definitions for parameters	Per	M	FDD- TDD DIFF	FR1- FR2 DIFF
additionalBS-Table-r18 Indicates whether the UE supports using the refined buffer size table for BSR and, if delayStatusReport-r18 is supported, DSR, as specified in TS 38.321 [8] and TS 38.331 [9].	UE	No	No	No
autonomous Transmission-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 Ich-priorityBasedPrioritization-r16.	UE	No	No	No
cg-RetransmissionMonitoringDisabling-r18 Indicates whether the UE supports disabling drx-HARQ-RTT-TimerUL for PUSCH transmissions using configured grants corresponding to a ConfiguredGrantConfig as specified in TS 38.321 [8] and TS 38.331 [9]. A UE supporting this feature shall also indicate support of at least one of configuredUL-GrantType1, configuredUL-GrantType2, configuredUL-GrantType1-v1650, configuredUL-GrantType2-v1650, configuredUL-GrantType1-r16, configuredUL-GrantType2-r16.	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)
directSCellActivationWithTCl-r17 Indicates whether the UE supports direct NR SCell activation with activated TCl states configuration (i.e. tci-ActivatedConfig). A UE supporting this feature shall also indicate support of at least one of directMCG-SCellActivation-r16, directMCG-SCellActivation-r17, directMCG-SCellActivationResume-r16, directMCG-SCellActivationResume-r17, directSCG-SCellActivation-r16, directSCG-SCellActivation-r17, directSCG-SCellActivationResume-r16, and directSCG-SCellActivationResume-r17.	UE	No	No	No
delayStatusReport-r18 Indicates whether the UE supports the delay status report of the buffered data as specified in TS 38.321 [8], TS 38.331 [9], TS 38.323 [16] and TS 38.322 [36].	UE	No	No	No
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:	UE	No	No	Yes (Incl FR2-
 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 				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.				
In this version of the specification, this feature is not applicable in NTN.	ļ <u>.</u>			
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
extendedDRX-CycleInactive-r18 Indicates whether UE supports the extended DRX in RRC_INACTIVE with values above 1024 radio frames as specified in TS 38.331 [9] and TS 38.304 [21]. The UE may indicate support of this capability 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
harq-RTT-TimerDL-ForNTN-MulticastMBS-r17 Indicates whether the UE supports the NTN extension of the drx-HARQ-RTT- TimerDL-PTM and drx-HARQ-RTT-TimerDL for MBS Multicast DRX in RRC connected mode. A UE supporting this feature shall also indicate the support of nonTerrestrialNetwork- r17, dynamicMulticastPCell-r17, and at least one of the following features: - ack-NACK-FeedbackForMulticast-r17 - ack-NACK-FeedbackForMulticast-r17 - nack-OnlyFeedbackForMulticast-r17 - nack-OnlyFeedbackForSPS-Multicast-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	UE	No	No	No
jointPrioritizationCG-Retx-Timer-r17.				
jointPrioritizationCG-Retx-Timer-r17	UE	No	No	No
Indicates whether the UE supports simultaneous configuration of LCH based				
prioritization and cg-RetransmissionTimer-r16 as specified in TS 38.321 [8]. A UE				
supporting this feature shall also support <i>lch-priorityBasedPrioritization-r16</i> and <i>configuredGrantWithReTx-r16</i> .				
lastTransmissionUL-r17	UE	No	No	No
Indicates whether the UE supports starting the <i>drx-HARQ-RTT-TimerUL</i> after the end	0_	140	140	140
of the last transmission within a bundle as specified in TS 38.321 [8].				
Ich-PriorityBasedPrioritization-r16	UE	No	No	No
Indicates whether the UE supports prioritization between overlapping grants and				
between scheduling request and overlapping grants based on LCH priority as				
specified in TS 38.321 [8]. Ich-ToConfiguredGrantMapping-r16	UE	No	No	No
Indicates whether the UE supports restricting data transmission from a given LCH to a	UE	INO	INO	INO
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].				
Ich-ToGrantPriorityRestriction-r16	UE	No	No	No
Indicates whether the UE supports restricting data transmission from a given LCH to a				
configured (sub-) set of dynamic grant priority levels (see allowedPHY-PriorityIndex-				
r16 in LogicalChannelConfig in TS 38.331 [9]) as specified in TS 38.321 [8].	LIE	No	No	No
Ich-ToSCellRestriction Indicates whether the UE supports restricting data transmission from a given LCH to a	UE	No	No	No
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 Ich-ToSCellRestriction.				
Icp-Restriction	UE	No	No	No
Indicates whether UE supports the selection of logical channels for each UL grant				
based on RRC configured restriction using RRC parameters allowedSCS-List, maxPUSCH-Duration, and configuredGrantType1Allowed as specified in TS 38.321				
[8].				
logicalChannelSR-DelayTimer	UE	No	Yes	No
Indicates whether the UE supports the <i>logicalChannelSR-DelayTimer</i> as specified in				
TS 38.321 [8].				
longDRX-Cycle	UE	Yes	Yes	No
Indicates whether UE supports long DRX cycle as specified in TS 38.321 [8]. mg-ActivationCommPRS-Meas-r17	UE	No	No	No
Indicates whether UE supports preconfiguration of MGs in RRC signalling for PRS	UE	No	No	INO
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.				
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 TS 38.321 [8], to				
request the activation/deactivation of the preconfigured MG for PRS measurements. The UE can include this field only if the UE supports <i>mg-ActivationCommPRS-Meas-</i>				
r17.				
mTRP-PUSCH-PHR-Type1-Reporting-r17	UE	CY	No	No
Indicates whether UE supports reporting of Type 1 power headroom information only				
for the case where the Serving Cell is configured with multiple TRP PUSCH				
repetitions and the MAC entity this Serving Cell belongs to is configured with				
twoPHRMode as specified in TS 38.321[8]. This feature is mandatory if the UE supports mTRP-PUSCH-twoPHR-Reporting-r17				
for at least one frequency band.				
multipleConfiguredGrants	UE	No	Yes	No
Indicates whether UE supports more than one configured grant configurations		-		
(including both Type 1 and Type 2) in a cell group. For each cell, the UE supports at				
most one configured grant per BWP and the maximum number of configured grant				
configurations per cell group is 2. If absent, for each configured cell group, the UE				
only supports one configured grant configuration on one serving cell. multipleSR-Configurations	UE	No	Yes	No
Indicates whether the UE supports 8 SR configurations per PUCCH cell group as	00	INO	1 68	INO
specified in TS 38.321 [8].				
non-IntegerDRX-r18	UE	No	No	No
	0=	140	110	1 10
Indicates whether the UE supports non-integer DRX periodicity as specified in TS 38.331 [9] and TS 38.321 [8].	UE	140	140	

recommendedBitRate Indicates whether the UE supports the bit rate recommendation message from the	UE	No	No	No
gNB to the UE as specified in TS 38.321 [8].				
recommendedBitRateMultiplier-r16	UE	No	No	No
Indicates whether the UE supports the bit rate multiplier for recommended bit rate				
MAC CE as specified in TS 38.321 [8], clause 6.1.3.20. This field is only applicable if				
the UE supports recommendedBitRate.				
recommendedBitRateQuery	UE	No	No	No
Indicates whether the UE supports the bit rate recommendation query message from				
the UE to the gNB as specified in TS 38.321 [8]. This field is only applicable if the UE				
supports recommendedBitRate.				
secondaryDRX-Group-r16	UE	No	Yes	No
Indicates whether UE supports secondary DRX group as specified in TS 38.321 [8].				
shortDRX-Cycle	UE	Yes	Yes	No
Indicates whether UE supports short DRX cycle as specified in TS 38.321 [8].				
simultaneousSR-PUSCH-DiffPUCCH-groups-r17	UE	No	No	No
Indicates whether the UE supports simultaneous transmission of SR and PUSCH in				
different PUCCH groups as specified in TS 38.321 [8].				
singlePHR-P-r16	UE	No	No	No
Indicates whether UE supports the P bit in single PHR MAC CE as specified in TS				
38.321 [8].				
skipUplinkTxDynamic	UE	No	Yes	No
Indicates whether the UE supports skipping of UL transmission for an uplink grant				
indicated on PDCCH if no data is available for transmission as specified in TS 38.321				
[8].				
spCell-BFR-CBRA-r16	UE	No	No	No
Indicates whether the UE supports sending BFR MAC CE for SpCell BFR as specified	OL	110	110	140
in TS 38.321 [8].				
srs-ResourceId-Ext-r16	UE	No	No	No
Indicates whether the UE supports the extended 6-bit (Positioning) SRS resource ID	OL	110	110	110
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	OL.	110	INO	INO
there are no available UL-SCH resources. A UE supporting this feature shall also				
indicate the support of <i>nonTerrestrialNetwork-r17</i> .				
sr-TriggeredByTA-ReportATG-r18	UE	No	No	FR1
Indicates whether the UE supports triggering of SR when a TA report is triggered and	UE	INO	INO	
there are no available UL-SCH resources. A UE supporting this feature shall also				only
indicate the support of <i>uplinkTA-ReportingATG-r18</i> . survivalTime-r17	UE	No	No	No
	UE	No	No	No
Indicates whether the UE supports services with survival time requirement using				
configured grant resource and PDCP duplication, as specified in TS 38.321 [8]. A UE				
supporting this feature shall support pdcp-DuplicationMCG-orSCG-DRB or pdcp-				
Duplication Split DRB. A UE supporting this feature shall also support of at least one of				
configuredUL-GrantType1, configuredUL-GrantType2, 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 TS 38.321 [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.				
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.	I	I	I	I

4.2.6.2 *MAC-ParametersPerBand*

Definitions for parameters	Per	M	FDD- TDD DIFF	FR1 - FR2 DIF F
ptm-Retransmission-r18 Indicates whether the UE supports starting drx-HARQ-RTT-TimerDL-PTM, drx-RetransmissionTimerDL-PTM and (if UE supports harq-RTT-TimerDL-ForNTN-MulticastMBS-r17) HARQ-RTT-TimerDL-PTM-NTN during multicast reception in RRC_CONNECTED state as specified in TS 38.321 [8], when HARQ feedback is disabled for the UE. For TN, the UE shall set the capability value consistently for all FDD-FR1 bands, all TDD-FR1 bands and all TDD-FR2 bands. For NTN, UE shall set the capability value consistently for all FDD-FR1 NTN bands and all FDD-FR2 NTN bands respectively. A UE supporting this feature shall also indicate support of dynamicMulticastPCell-r17, and at least one of the following features: - ack-NACK-FeedbackForMulticast-r17 - ack-NACK-FeedbackForSPS-Multicast-r17	Band	No	N/A	N/A
- nack-OnlyFeedbackForMulticast-r17 - nack-OnlyFeedbackForSPS-Multicast-r17				
ptm-RetransmissionInactive-r18 Indicates whether the UE supports receiving PTM retransmission by starting the drx-HARQ-RTT-TimerDL-PTM and drx-RetransmissionTimerDL-PTM (the drx-HARQ-RTT-TimerDL-PTM-NTN) and drx-RetransmissionTimerDL-PTM in NTN) during multicast reception in RRC_INACTIVE as specified in TS 38.321 [8]. For TN, the UE shall set the capability value consistently for all FDD-FR1 bands, all TDD-FR1 bands and all TDD-FR2 bands. For NTN, UE shall set the capability value consistently for all FDD-FR1 NTN bands and all FDD-FR2 NTN bands respectively. A UE supporting this feature shall also indicate support of multicastInactive-r18.	Band	No	N/A	N/A

- 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 EUTRA 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 ca-BandwidthClassDL-NR-r17 in a BandParameter the				
network ignores the ca-BandwidthClassDL-NR therein, if signalled. ca-BandwidthClassUL-EUTRA Defines for UL, the class defined by the aggregated transmission bandwidth configuration and maximum number of component carriers supported by the UE, as	Band	No	N/A	N/A
specified in TS 36.101 [14]. When all FeatureSetEUTRA-UplinkId:s in the corresponding FeatureSetsPerBand are zero, this field is absent.				
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	ВС	No	N/A	N/A
Contains the NR band combination parameters for a given (NG)EN-DC/NE-DC and/or NR CA band combination.				
ca-ParametersNRDC Indicates whether the UE supports NR-DC for the band combination. It contains the NR band combination parameters applicable across MCG and SCG. If the band combination includes both FR1 and FR2 bands, a UE indicating support for NR-DC shall support synchronous NR-DC configuration where all serving cells of the MCG are in FR1 and all serving cells of the SCG are in FR2.	ВС	No	N/A	N/A
featureSetCombination Indicates the feature set that the UE supports on the NR and/or MR-DC band combination by FeatureSetCombinationId.	ВС	N/A	N/A	N/A
Indicates the feature set that the UE supports for DAPS handover on the NR band combination by FeatureSetCombinationId. A UE shall include this field if intrafrequency 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 intrafrequency DAPS handover between any CC pair within the same band entry. If the number of CCs within a band combination is more than one and if inter-frequency DAPS handover is supported, UE shall support inter-frequency DAPS handover between every CC pair in the same or different band entries in the band combination, except for the CC pair within a band entry with bandwidth class A. A feature set including intraFreqDAPS-r16 can only be referred to by featureSetCombinationDAPS-r16 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-	BC	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 or NCR-MT.	ВС	No	N/A	FR1 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	FR1 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
Indicates whether the UE supports SCell dormancy indication sent within the active time on PCell with DCl format 0_3/1_3. One dormant BWP and one non-dormant BWP is supported per carrier. More than one non-dormant BWP per carrier is supported only if upto4 in bwp-SameNumerology or upto4 in bwp-DiffNumerology is also supported. One dormant BWP and one non-dormant BWP are UE specific BWPs even for UEs not supporting upto2 in bwp-SameNumerology or upto4 in bwp-SameNumerology. A UE supporting this feature shall also indicate support of CA and at least one of multiCell-PDSCH-DCI-1-3-SameSCS-r18, multiCell-PDSCH-DCI-1-3-DiffSCS-r18, multiCell-PUSCH-DCI-0-3-SameSCS-r18 and multiCell-PUSCH-DCI-0-3-DiffSCS-r18.	BC	No	N/A	N/A
 srs-AntennaSwitching8T8R-r18 Indicates whether the UE supports SRS 8T8R for antenna switching. The capability comprises the following parameters: antennaSwitch8T8R-r18 indicates the supporting type of 8T8R for antenna switching. downGradeConfig-r18 indicates a combination of supported xTyRs of downgrade antenna switching configurations. It includes 11-bit bitmap, where starting from the leading / leftmost bit (bit 0), each bit corresponds to {1T1R, 1T2R, 1T4R, 1T6R, 1T8R, 2T2R, 2T4R, 2T6R, 2T8R, 4T4R, 4T8R}. entryNumberAffect-r18 indicates the lowest band entry number of the UL group (see entryNumberSwitch-r18) that impacts the DL of this band entry. entryNumberSwitch-r18 indicates the lowest band entry of the UL group, which is defined as band entries with UL (see NOTE 1) that impact each other's UL (i.e., SRS TX port switching on any of the cells in the group will impact UL on all the cells in the group). This parameter is absent if an UL group contains only one band entry. The UE supporting this feature shall indicate support of supportedSRS-Resources. For entryNumberAffect-r18 and entryNumberSwitch-r18, value 1 means first entry, value 2 means second entry and so on. The UE may include entryNumberAffect-r18/entryNumberSwitch-r18 for a band entry even if antennaSwitch8T8R-r18 is absent for that band entry. All DL and UL that switch together indicate the same entry number. The entry number is the band entry number in a band combination. The UE is restricted not to include fallback band combinations for the purpose of indicating different SRS antenna switching capabilities. NOTE 1: The band with UL includes a band associated with FeatureSetUplinkId set to 0 corresponding to the support of SRS-SwitchingTimeNR. NOTE 2: UE reports support of SRS with 8 Tx ports and Comb8 mapping — antenna switching via srs-combEight-r17. 	BC	No	N/A	N/A

 srs-AntennaSwitchingBeyond4RX-r17 Indicates whether the UE supports SRS Antenna switching for more than 4 Rx. The 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 lowest band entry number of the UL group (see entryNumberSwitchBeyond4Rx-r17) that impacts the DL of this band entry; entryNumberSwitchBeyond4Rx-r17 indicates the lowest band entry of the UL group, which is defined as band entries with UL (see NOTE 1) that impact each other's UL (i.e. SRS TX port switching on any of the cells in the group will impact UL on all the cells in the group). This parameter is absent if an UL group contains only one band entry. 	BC	No	N/A	N/A
The UE indicating support of this shall indicate support of srs-TxSwitch. For entryNumberAffectBeyond4Rx-r17 and entryNumberSwitchBeyond4Rx-r17, value 1 means first entry, value 2 means second entry and so on. The UE may include entryNumberAffectBeyond4Rx-r17/entryNumberSwitchBeyond4Rx-r17 for a band entry even if all of the bits in the supportedSRS-TxPortSwitchBeyond4Rx-r17 are set to 0 for that band entry. All DL and UL that switch together indicate the same entry number. The entry number is the band entry number in a band combination. The UE is				
restricted not to include fallback band combinations for the purpose of indicating different SRS antenna switching capabilities. NOTE 1: The band with UL includes a band associated with FeatureSetUplinkId set to 0 corresponding to the support of SRS-SwitchingTimeNR. NOTE 2: If reported for the same values of xTyR in supportedSRS-TxPortSwitchBeyond4Rx-r17 as reported with supportedSRS-TxPortSwitch/supportedSRS-TxPortSwitch-v1610, the reported values for entryNumberAffectBeyond4Rx-r17 and entryNumberSwitchBeyond4Rx-r17 are not valid.				
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.	ВС	No	N/A	N/A
NOTE: The UE shall include the same number of entries, and listed in the same order as in srs-SwitchingTimesListNR. For each inter-band "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. The UE shall set the BIT STRING to 0 for intra-band band pairs.				
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 (PUSCHless) 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

	T			.	11/4
srs-TxSwitch, srs-TxSwitch-v1610		BC	FD	N/A	N/A
Defines whether UE supports SRS for DL CS					
6.2.1.2 of TS 38.214 [12]. The capability sign	nalling comprises of the following				
parameters:					
- supportedSRS-TxPortSwitch indicate					
supported by the UE, which is manda					
indicated UE antenna switching capa					
	ntenna ports over total of 'y' antennas,				
	of UE receive antennas, where 2T4R				
is two pairs of antennas. supportedSi					
optional to report, indicates downgrad					
switching pattern. If the UE indicates					
configuration of SRS Tx port switchin					
	oort the values for this as below, based				
on what is reported in supportedSRS	-TxPortSwitch.				
supportedSRS-TxPortSwitch	supportedSRS-TxPortSwitch-				
	v1610				
t1r2	t1r1-t1r2				
t1r4	t1r1-t1r2-t1r4				
t2r4	t1r1-t1r2-t2r2-t2r4				
t2r2	t1r1-t2r2				
t4r4	t1r1-t2r2-t4r4				
t1r4-t2r4	t1r1-t1r2-t2r2-t1r4-t2r4				
 (see txSwitchWithAnotherBand) that txSwitchWithAnotherBand indicates t which is defined as band entries with other's UL (i.e. SRS TX port switching impact UL on all the cells in the group group contains only one band entry. For txSwitchImpactToRx and txSwitchWithA value 2 means second entry and so on. The 	the lowest band entry of the UL group, UL (see NOTE) that impact each gon any of the cells in the group will b). This parameter is absent if an UL notherBand, value 1 means first entry, UE may include txSwitchImpactToRx				
and txSwitchWithAnotherBand for a band en					
is set to 'notSupported' for that band entry. A	III DL and UL that switch together				
indicate the same entry number.	in a bound combination. The UE is				
The entry number is the band entry number restricted not to include fallback band combined.					
different SRS antenna switching capabilities.					
different ofto affering switching capabilities.					
NOTE: The band with UL includes a band	d associated with FeatureSetUplinkId				
set to 0 corresponding to the supp					
supportedAggBW-FR2-r17	January State of the State of t	ВС	No	N/A	FR2
Indicates the supported maximum aggregate	ed intra-band bandwidth for TDD DL				only
CCs and TDD UL CCs respectively in the FF					
is also applicable to fallback band combination	ons of FR2 CA except for a single CC				
(i.e. non-CA) case. It is only applicable to FR					
classes. UE indicating this shall report at lea	st one featureSetPerDownlinkCC and				
featureSetPerUplinkCC (if applicable) with 2	00 MHz, and the UE is expected to				
support any combination of 100/200MHz car					
class (and as per TS 38.101-2 [3]) as long as					
configured carriers by the network does not					

Defines the supported bandwidth combination set for a band combination as defined in TS 38.101-1 [2], TS 38.101-2 [3] and TS 38.101-3 [4]. For NR SA CA, NR-DC, inter-band (NG)EN-DC without intra-band (NG)EN-DC component, interband NE-DC without intra-band NE-DC component and intra-band (NG)EN-DC/NE-DC with additional inter-band NR CA component, the field defines the bandwidth combinations for the NR part of the band combination. For intra-band (NG)EN-DC/NE-DC without additional inter-band NR and LTE CA component, the field indicates the supported bandwidth combination set applicable to intra-band (NG)EN-DC/NE-DC band combination. This field is not applicable to source and target cells in intra-frequency DAPS handover. Field encoded as a bit map, where bit N is set to "1" if UE supports Bandwidth Combination Set N for this band combination as defined in the TS 38.101-1 [2], TS 38.101-2 [3] and TS 38.101-3 [4]. The leading / leftmost bit (bit 0) corresponds to the Bandwidth Combination Set 0, the next bit corresponds to the Bandwidth Combination Set 1 and so on. It is mandatory if - 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 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 combination set for the intra-band (NG)EN-DC component.			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 combination set for the intraband (NG)EN-DC component.	CY	N/A	N/A
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 combination set for the intraband (NG)EN-DC component.	CY	N/A	N/A
 For intra-band NE-DC with additional inter-band CA component(s) of LTE and/or NR, the field defines the bandwidth combination set for the intra-band NE-DC component. Field encoded as a bit map, where bit N is set to "1" if UE supports Bandwidth Combination Set N for this band combination as defined in the TS 38.101-3 [4]. The leading / leftmost bit (bit 0) corresponds to the Bandwidth Combination Set 0, the next bit corresponds to the Bandwidth Combination Set 1 and so on. For the inter-band (NG)EN-DC/NE-DC band combination with only one intra-band (NG)EN-DC/NE-DC component as defined in the TS 38.101-3 [4], table 5.3B.1.2-1 and table 5.3B.1.3-1: 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. For the inter-band (NG)EN-DC band combination with multiple intra-band (NG)EN-DC components as defined in clause 5.5B in the TS 38.101-3 [4]: This field is applicable only if the UE supports the same set of BCSs for all the intra-band (NG)EN-DC components. It is mandatory if an intra-band (NG)EN-DC component supports both UL and DL intra-band (NG)EN-DC parts and the UE supports the same set of BCSs for all the intra-band (NG)EN-DC components. It is optional if all the intra-band (NG)EN-DC components. If this field and the intra-band of the intra-band (NG)EN-DC components. If this field and the 			

supportedBandwidthCombinationSetIntraENDC-v1790	BC	CY	N/A	N/A
Indicates the supported bandwidth combination set for the corresponding intra-band				
(NG)EN-DC component within the inter-band (NG)EN-DC band combination with				
multiple intra-band (NG)EN-DC components as defined in clause 5.5B in the TS				
38.101-3 [4].				
Field encoded as a bit map, where bit N is set to "1" if UE supports Bandwidth				
Combination Set N for this band combination as defined in the TS 38.101-3 [4]. The				
leading / leftmost bit (bit 0) corresponds to the Bandwidth Combination Set 0, the				
next bit corresponds to the Bandwidth Combination Set 1 and so on.				
- It is mandatory if the intra-band (NG)EN-DC component supports both UL				
and DL intra-band (NG)EN-DC parts.				
- It is optional if the intra-band (NG)EN-DC component does not support UL in				
both the bands of the intra-band (NG)EN-DC UL part. If not included, the				
network assumes the UE supports BCS0 for the intra-band (NG)EN-DC				
component as defined in TS 38.101-3 [4], table 5.3B.1.2-1 and table				
5.3B.1.3-1 for the intra-band (NG)EN-DC component.				
supportedTxBandCombListPerBC-Sidelink-r16,	ВС	No	N/A	N/A
supported ix BandCombListPerBC-Sidelink-r16	1 30	110	13/7	IN/A
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.				
supportedBandCombListPerBC-SL-RelayDiscovery-r17,	BC	No	N/A	N/A
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.				
supportedBandCombListPerBC-SL-U2U-RelayDiscovery-r18	ВС	No	N/A	N/A
Indicates, for a particular Uu band combination, the PC5 U2U relay discovery band		140	13/7	1 1/ / /
combination(s) on which the UE supports simultaneous transmission/reception of				
PC5 data (U2U relay discovery) and Uu uplink/downlink respectively.				
The leading / leftmost bit (bit 0) corresponds to the first band combination included				
in supportedBandCombinationListSL-U2U-RelayDiscovery-r18, the next bit				
corresponds to the second band combination included in				
supportedBandCombinationListSL-U2U-RelayDiscovery-r18 and so on with value 1				
indicating simultaneous transmission/reception is supported.				
switchingPeriodRestriction-r18	BC	FD	N/A	FR1
Indicates whether the same value of switching period is applicable to the fallback				only
band combinations for a given band combination supporting UL Tx switching across				
up to 4 bands.	1			
When the field is included for a band combination, it represents the largest value,				
i.e. 210µs is supported for each band pair in all fallback band combinations.				
When the field is absent, it represents the same switching period reported for each				
band pair in this band combination is supported for the same band pair in all the				
fallback band combinations.				
			-	

 ULTxSwitchingBandPair-r16, ULTxSwitchingBandPair-v1700 Indicates UE supports dynamic UL 1Tx-2Tx switching in case of inter-band CA, SUL, and (NG)EN-DC, and UL 2Tx-2Tx switching in case of inter-band CA and SUL as defined in TS 38.14 [12], TS 38.101-1 [2] and TS 38.101-3 [4]. The capability signalling comprises of the following parameters: bandIndexUL-1-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 µs, n140us represents 140µs, 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 38.101-1 [2] and TS 38.101-3 [4]. uplinkTxSwitching-DL-Interruption-r16 indicates tha lDL interruption on the band will occur during UL Tx switching, as specified in TS 38.133 [5] and in TS 38.133 [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	BC	FD	N/A	FR1 only
uplinkTxSwitching-OptionSupport-r16 Indicates which option is supported for dynamic UL 1Tx-2Tx switching for inter-band 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 both 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. If this field is absent, the band pair reported in supportedBandPairListNR-r16 is not valid for dynamic UL 1Tx-2Tx switching for inter-band UL CA.	BC	CY	N/A	FR1 only
uplinkTxSwitching-OptionSupport2T2T-r17 Indicates which option is supported for dynamic UL 2Tx-2Tx switching for inter-band 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.	BC	CY	N/A	FR1 only
uplinkTxSwitching-PowerBoosting-r16 Indicates the support of 3dB boosting on the maximum output power for UE transmission under the operation state in which 2-port transmission can be supported on carrier2 in case of inter-band UL CA case where UE supports dynamic UL Tx switching. A UE shall only indicate this capability in case the UE supports power class 3 for inter-band UL CA for the band combination as defined in TS 38.101-1 [2].	ВС	No	N/A	FR1 only

Haliat-Ta-Oud-talian Additional Devia de Devall Hando	DO	NI-	NI/A	ED4
UplinkTxSwitchingAdditionalPeriodDualUL-r18	BC	No	N/A	FR1
Indicates the UL Tx switching period for switching between a band pair and another				only
band pair or another band, as specified in TS 38.101-1 [2], when Rel-18 UL Tx				
switching is configured by <i>uplinkTxSwitchingMoreBands-r18</i> .				
 bandPairIndex1-r18/bandPairIndex2-r18 xx refers to the xxth band pair entry 				
in the band pair list indicated by ULTxSwitchingBandPair-r18. The two band				
pairs consist of mutually exclusive bands.				
- bandIndex-r18 xx refers to the xxth band entry in this band combination,				
which indicates a different band from those indicated by bandPairIndex1-r18.				
- switchingAdditionalPeriodDualUL-r18 indicates the length of switching period				
for switching between one band pair indicated by bandPairIndex1-r18 and				
another band pair indicated by bandPairIndex2-r18 or another band				
indicated by bandIndex-r18. n35us represents 35 µs, n140us represents				
140µs, and so on, as specified in TS 38.101-1 [2].				
A UE supporting this feature shall also indicate the support of dualUL switching				
option for the band pair(s) indicated in bandPairIndex1-r18/bandPairIndex2-r18.				

ULTxSwitchingBandPair-r18, ULTxSwitchingBandPair-v1840	ВС	FD	N/A	FR1
Indicates UE supports Rel-18 dynamic UL Tx switching across up to 4 bands in			1,7,7	only
case of inter-band CA, SUL as defined in TS 38.214 [12] and TS 38.101-1 [2]. The				,
capability signalling comprises the following parameters:				
- bandIndexUL1-r18 and bandIndexUL2-r18 indicate the band pair on which UE				
supports dynamic UL Tx switching. bandIndexUL1/bandIndexUL2 xx refers to				
the xxth UL band entry in the band combination. UE shall indicate support of 2-				
layer UL MIMO in FeatureSet on both bands for 2Tx-2Tx switching, or indicate				
support of 2-layer UL MIMO on one band and 1-layer MIMO on the other band				
for 1Tx-2Tx switching, or indicate support of 1-layer UL MIMO on both bands				
for 1Tx-1Tx switching.				
- uplinkTxSwitchingOptionForBandPair-r18 indicates whether switchedUL or				
dualUL or both switching options is supported for a given band pair as specified				
in TS 38.214 [12].				
- <i>uplinkTxSwitchingPeriodForBandPair-r18</i> indicates the supported switching				
period.				
- switchingPeriodFor2T-r18 indicates the length of 2Tx-2Tx switching				
period. n35us represents 35 µs, n140us represents 140µs, and so on, as				
specified in TS 38.101-1 [2].				
 switchingPeriodFor1T-r18 indicates the length of 1Tx-2Tx switching 				
and/or 1Tx-1Tx switching period, as specified in TS 38.101-1 [2]. n35us				
represents 35 μs, n140us represents 140μs, and so on, as specified in				
TS 38.101-1 [2].				
- uplinkTxSwitching-DL-Interruption-r18 indicates that DL interruption on the				
band will occur during UL Tx switching, as specified in TS 38.133 [5]. 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]. 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				
- SwitchingPeriodUnaffectedBandDualUL-r18 indicates for a given band pair				
{band X and band Y}, whether/how the switching period is to be applied on				
band Z (as well as band X and Y), when a UL Tx switching is triggered from				
band pair {band X and band Z} to band pair {band Y and band Z}, as defined in				
TS 38.101-1 [2]. If absent for band Z, the UE is not required to transmit on any				
UL bands during the switching period reported for the band pair of band X and				
band Y, as defined in TS 38.101-1 [2].				
- bandIndexUnaffected-r18 xx indicates the band index of band Z and refers				
to the xxth UL band entry in the band combination.				
- maintainedUL-Trans-r18 indicates that the UE is capable of uplink				
transmission on band Z and is not required to transmit on band X and Y				
during the switching period reported for the band pair of band X and band				
Y, as specified in TS 38.101-1 [2].				
- periodOnULBands-r18 indicates the switching period to be applied on any				
UL bands as specified in TS 38.101-1 [2]. n35us represents 35 µs, n140us				
represents 140µs, and so on.				
- configured1T1T-OnTwoBands-r18 indicates the support of 2-band configuration				
of 1T-1T UL Tx switching using Rel-18 UL Tx switching configurations. This				
capability is applicable for a band pair where the UE reports no UL-MIMO on				
both bands and indicates support of switchedUL in				
uplinkTxSwitchingOptionForBandPair-r18.				

UplinkTxSwitchingBandParameters-v1700	ВС	No	N/A	FR1
Contains the UL Tx switching specific band parameters for a given band				only
combination.				
The capability signalling comprises of the following parameters:				
- bandIndex-r17 indicates a band on which UE supports dynamic UL Tx switching				
with another band in the band combination. bandIndex xx refers to the xxth				
band entry in the band combination.				
- 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,				
Miles OT of OT on the birth be a between the angle in a self-arms of boundaries				
- When 2Tx-2Tx switching between two bands is configured by				
uplinkTxSwitching-2T-Mode-r17, the per BC UE capability reported in				
uplinkTxSwitching-PUSCH-TransCoherence-r16 is applied, and if this field				
and <i>uplinkTxSwitching-PUSCH-TransCoherence-r16</i> are both absent, the				
UE capability reported in <i>pusch-TransCoherence</i> is applied when uplink Tx switching is triggered between last transmitted SRS and scheduled				
PUSCH transmission, as specified in TS 38.101-1 [2].				
- When R18 dynamic UL Tx switching is configured by				
uplinkTxSwitchingMoreBands-r18, 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].				
10 30.101 1 [2].				
NOTE: If UplinkTxSwitchingBandParameters-v1700 is absent for one or more				
bands of a band combination, the per BC UE capability reported in				
uplinkTxSwitching-PUSCH-TransCoherence-r16 is applied for				
corresponding band(s), and if uplinkTxSwitching-PUSCH-				
TransCoherence-r16 is also absent, the UE capability reported in pusch-				
TransCoherence is applied for corresponding band(s) when uplink Tx				
switching is triggered between last transmitted SRS and scheduled				
PUSCH transmission, as specified in TS 38.101-1 [2].				
uplinkTxSwitchingMinimumSeparationTime-r18	ВС	CY	N/A	FR1
Indicates the minimum separation time for two uplink switching on more than 2				only
bands within any two consecutive reference slots as specified in TS 38.214 [12].				
The field is mandatory when UE supports dynamic UL Tx switching across more				
than two bands.				
uplinkTxSwitching-PUSCH-TransCoherence-r16	BC	No	N/A	FR1
Indicates support of the uplink codebook subset when uplink 1Tx-2Tx switching is				only
triggered between last transmitted SRS and scheduled PUSCH transmission, as				
specified in TS 38.101-1 [2].				
UE indicating support of full coherent codebook subset shall also support non-				
coherent codebook subset.				
If the field is absent, the supported uplink codebook subset indicated by <i>pusch-</i>				
TransCoherence applies when the uplink switching is triggered between last				
transmitted SRS and scheduled transmission.				

4.2.7.2 BandNR parameters

Definitions for parameters	Per	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-FeedbackForMulticast-r17 and dynamicMulticastDCI-Format4-2-r17.	Band	No	N/A	N/A
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. 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
 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 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). 	Band	No	N/A	N/A
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
antennaArrayType-r18 Indicates whether the UE supports the RF and RRM requirements with antenna array as specified in TS 38.101-1 [2] clause 6.1J, 7.1J and TS 38.133 [5]. If the field is absent, the RF and RRM requirements with omni-directional antenna applies as specified in TS 38.101-1 [2] clause 6.1J, 7.1J and TS 38.133 [5]. The UE indicating support of this feature shall also indicate support of airToGroundNetwork-r18. This field is only applicable for bands as specified for ATG in clause 5.2J of TS 38.101-1 [2].	Band	CY	N/A	FR1 only
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	Band	No	FDD only	FR1 only
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.				
aperiodicCSI-RS-FastScellActivation-r17	Band	No	N/A	N/A
Indicates whether the UE supports aperiodic CSI-RS for tracking for fast SCell				
activation, i.e.,				
Aperiodic CSI-RS for tracking for fast SCell activation is triggered by				
enhanced SCell activation/deactivation MAC CE;				
Aperiodic CSI-RS for tracking for fast SCell activation is triggered within the				
BWP indicated by firstActiveDownlinkBWP-Id for the SCell.				
This field includes the following parameters:				
- maxNumberAperiodicCSI-RS-PerCC-r17 indicates the maximum number of				
aperiodic CSI-RS resource set configurations for tracking for fast SCell				
activation that can be configured to UE per CC in a reported band. Value n8				
corresponds to 8, n16 corresponds to 16, and so on.				
- 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.				
value no corresponds to 6, into corresponds to 16, and 50 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	Band	No	N/A	Yes
Indicates whether the UE supports DCI triggering aperiodic TRS associated with				
periodic TRS.				
asymmetricBandwidthCombinationSet	Band	No	N/A	N/A
Defines the supported asymmetric channel bandwidth combination for the band as				
defined in the TS 38.101-1 [2] / TS 38.101-5 [34]. 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] / TS 38.101-5 [34]. 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 defined for the band in the TS 38.101-1 [2]. If the field is absent, the UE supports				
asymmetric channel bandwidth combination set 0 if defined for the band in the TS				
38.101-1 [2]. bandNR	Band	Yes	N/A	N/A
Defines supported NR frequency band by NR frequency band number, as specified	Danu	169	IN/A	1 11/74
in TS 38.101-1 [2], TS 38.101-2 [3], and TS 38.101-5 [34].				
beamCorrespondenceCSI-RS-based-r16	Band	No	TDD	FR2
Indicates whether the UE support for beam correspondence based on CSI-RS has	Dana		only	only
the ability to select its uplink beam based on measurement of CSI-RS. If a UE			Jy	5y
supports beam correspondence based on CSI-RS, then the network can expect the				
UE to also fulfil Rel-15 beam correspondence requirements.				
The state of the s				
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.				

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.	Band	No	TDD only	FR2 only
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.				
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 Defines support of SS/PBCH and CSI-RS based RSRP measurements. The capability comprises signalling of - maxNumberSSB-CSI-RS-ResourceOneTx indicates maximum total number of configured one port NZP CSI-RS resources and SS/PBCH blocks that are supported by the UE to measure L1-RSRP as specified in TS 38.215 [13] within a slot and across all serving cells (see NOTE). On FR2, it is mandatory to report >=8; On FR1, it is mandatory with capability signalling to report >=8.	Band	Yes	N/A	FD
 maxNumberCSI-RS-Resource indicates maximum total number of configured NZP-CSI-RS resources that are supported by the UE to measure L1-RSRP as specified in TS 38.215 [13] across all serving cells (see NOTE). It is mandated to report at least n8 for FR1. 				
 maxNumberCSI-RS-ResourceTwoTx indicates maximum total number of two ports NZP CSI-RS resources that are supported by the UE to measure L1- RSRP as specified in TS 38.215 [13] within a slot and across all serving cells (see NOTE). 				
 supportedCSI-RS-Density indicates density of one RE per PRB for one port NZP CSI-RS resource for RSRP reporting, if supported. On FR2, it is mandatory to report either "three" or "oneAndThree"; On FR1, it is mandatory with capability signalling to report either "three" or "oneAndThree". 				
 maxNumberAperiodicCSI-RS-Resource indicates maximum number of configured aperiodic CSI-RS resources across all serving cells (see NOTE). For FR1 and FR2, the UE is mandated to report at least n4. 				
NOTE: If the UE sets a value other than $n0$ in an FR1 band, it shall set that same value in all FR1 bands. If the UE sets a value other than $n0$ in an FR2 band, it shall set that same value in all FR2 bands. The UE supports a total number of resources equal to the maximum of the FR1 and FR2 value, but no more than the FR1 value across all FR1 serving cells and no more than the FR2 value across all FR2 serving cells.				
beamReportTiming, beamReportTiming-v1710 Indicates the number of OFDM symbols between the end of the last symbol of SSB/CSI-RS and the start of the first symbol of the transmission channel containing beam report. The UE provides the capability for the band number for which the report is provided (where the measurement is performed). The UE includes this field for each supported sub-carrier spacing.	Band	Yes	N/A	N/A

beamSweepingFactorReduction-r18 Indicates whether the UE supports beam sweeping factor reduction for FR2	Band	No	TDD only	FR2-1 only
unknown SCell activation.				
The capability comprises signalling of				
- reduceForCellDetection indicates reducing beam sweeping factor for cell				
detection if UE has full set (N=8) of beam sweeping during AGC settling part during FR2-1 unknown SCell activation procedure.				
during 11(2-1 driknown Scell activation procedure.				
- reduceForSSB-L1-RSRP-Meas indicates reducing beam sweeping factor for				
SSB based L1-RSRP measurement if UE has full set (N=8) of beam				
sweeping during AGC settling part during FR2-1 unknown SCell activation				
procedure.				
UE is required to meet the shortened SCell activation delay requirement in TS				
38.133 [5] if the feature is supported.				
beamSwitchTiming, beamSwitchTiming-v1710	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				only
60kHz and 120kHz SCS, sym896 or sym1344 for 480kHz SCS and sym1792 or				
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 <i>enableBeamSwitchTiming-r16</i> 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 trs-info, the UE				
applies beam switch time of sym48 if beamSwitchTiming-r16 is reported and				
enableBeamSwitchTiming-r16 is configured. bfd-Relaxation-r17	Band	No	N/A	N/A
Indicates whether the UE supports BFD relaxation criteria and requirement as	Danu	INO	IN/A	IN/A
specified in TS 38.133 [5]. UE shall set the capability value consistently for all FDD-				
FR1 bands, all TDD-FR1 bands, all TDD-FR2-1 bands and all TDD-FR2-2 bands				
respectively.				
LIE indication assument of this facture about also indicate assument of mass Alson Col				
UE indicating support of this feature shall also indicate support of maxNumberCSI-RS-BFD, maxNumberSSB-BFD and maxNumberCSI-RS-SSB-CBD.				
bwp-DiffNumerology	Band	No	N/A	N/A
Indicates whether the UE supports BWP adaptation up to 4 BWPs with the different	Bana	''	'','	'','
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 that is capable of this				
feature but is not indicating supportOfRedCap-r17 nor supportOfERedCap-r18, 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 (e)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).				

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 that is capable of this feature but is not indicating supportOfRedCap-r17 nor supportOfERedCap-r18, 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 (e)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-PUSCH-UTO-UCI-Ind-r18 Indicates whether the UE supports multiplexing of the unused transmission occasions UCI (UTO-UCI) on a CG-PUSCH. The UE indicating support of this feature shall also indicate support of at least one of configuredUL-GrantType1, configuredUL-GrantType1-v1650, configuredUL-GrantType2, configuredUL-GrantType2-v1650.	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 and all FDD-FR2 NTN bands respectively. 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
cg-SDT-PeriodicityExt-r18 Indicates whether the UE supports to extend the range of CG-SDT periodicities for MO-SDT and/or MT-SDT, as specified in TS 38.331 [9]. A UE supporting this feature shall also indicate the support of ra-InsteadCG-SDT-r18. A UE supporting this feature shall also indicate the support of cg-SDT-r17 or mt-CG-SDT-r18.	Band	No	N/A	N/A
channelBW-DL-IAB-r16 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.	Band	No	N/A	N/A
channelBW-DL-NCR-r18 Indicates whether the NCR-MT supports channel bandwidth of 100 MHz for a given SCS in FR1 for DL or whether the NCR-MT supports channel bandwidth of 200 MHz for a given SCS in FR2 for DL.	Band	No	N/A	N/A
channelBW-UL-IAB-r16 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.	Band	No	N/A	N/A
channelBW-UL-NCR-r18 Indicates whether the NCR-MT supports channel bandwidth of 100 MHz for a given SCS in FR1 for UL or whether the NCR-MT supports channel bandwidth of 200 MHz for a given SCS in FR2 for UL.	Band	No	N/A	N/A

1 1011 01	D 1		N1/A	N1/A
channelBWs-DL	Band	Yes	N/A	N/A
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 c <i>hannelBW-DL-IAB-r16</i> . For NCR-MT, to determine whether the				
NCR-MT supports a channel bandwidth of 100 MHz, the network checks				
channelBW-DL-NCR-r18.				
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				
channelBWs-DL (without suffix) starting from the leading / leftmost bit indicate 50,				
100 and 200MHz. The third / rightmost bit (for 200MHz) shall be set to 1, except for				
NTN bands. For IAB-MT and NCR-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> . To determine whether the NCR-				
MT supports a channel bandwidth of 200 MHz, the network checks channelBW-DL-				
NCR-r18.				
For FR1, the leading/leftmost bit in <i>channelBWs-DL-v1590</i> indicates 70MHz, the				
second leftmost bit indicates 45MHz, the third leftmost bit indicates 35MHz, the				
fourth leftmost bit indicates 100MHz and all the remaining bits in <i>channelBWs-DL</i> -				
v1590 shall be set to 0. The fourth leftmost bit (for 100MHz) is not applicable for				
bands n41, n48, n77, n78, n79 and n90 as defined in TS 38.101-1 [2]. For each				
band, (e)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 and FR2, taking restrictions in TS 38.101-5 [34] into				
consideration.				
This feature is applicable only for FR1 and FR2-1 and FR2-NTN 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				
for the band combination with other bandwidth combination set than				
BCS5, the network may ignore this capability and validate instead the				
channelBW-90mhz, the supportedBandwidthCombinationSet, the				
supportedBandwidthCombinationSetIntraENDC, and				
supportedBandwidthCombinationSetIntraENDC-v1790. To determine				
whether the UE supports a channel bandwidth of 90 MHz for the band				
combination with BCS5, the network may ignore this capability and				
validate instead the <i>channelBW-90mhz</i> , the				
supportedBandwidthCombinationSet, the				
supportedBandwidthCombinationSetIntraENDC, supportedAggBW-FR1-				
r17, and supportedBandwidthCombinationSetIntraENDC-v1790. To				
determine whether the UE supports a channel bandwidth of 400 MHz,				
the network may ignore this capability and validate the				
supportedBandwidthCombinationSet, the				
supportedBandwidthCombinationSetIntraENDC, the				
supportedBandwidthDL, and				
supportedBandwidthCombinationSetIntraENDC-v1790. To determine				
whether the UE supports a channel bandwidth of 3MHz, the network may				
ignore this capability and validate instead the support3MHz-ChannelBW-				
Symmetric-r18, the supportedBandwidthCombinationSet, the				
asymmetricBandwidthCombinationSet (for a band supporting asymmetric				
channel bandwidth as defined in clause 5.3.6 of TS 38.101-1 [2]), the				
supportedBandwidthDL-v1840 and the supportedMinBandwidthDL-				
v1840.				
For serving cell(s) with other channel bandwidths:				
- If supportedAggBW-FR1-r17 is reported, the network validates the				
channelBWs-DL, the supportedBandwidthCombinationSet, the				
supportedBandwidthCombinationSetIntraENDC, the				
asymmetricBandwidthCombinationSet(for a band supporting				
adyninosiosanamasiosinsinationosi (ioi a sana supporting				

asymmetric channel bandwidth as defined in clause 5.3.6 of TS				
38.101-1 [2]), supportedBandwidthDL-v1780,				
supportedMinBandwidthDL-r17, supportedAggBW-FR1-r17, and				
supportedBandwidthCombinationSetIntraENDC-v1790.				
- Otherwise, 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,				
supportedMinBandwidthDL-r17, supportedAggBW-FR2-r17, and				
supportedBandwidthCombinationSetIntraENDC-v1790.				
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.	Dana	01	11/7	11/7
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> .				
of supporting the reactive orial also indicate support of arrive 2 000 725/1/2777.				
NOTE: To determine whether the UE supports a SCS 120kHz for a given band,				
the network validates the supportedSubCarrierSpacingDL.				
To determine the supported carrier bandwidths, the network validates the				
channelBWs-DL-SCS-120kHz-FR2-2-r17, the				
supportedBandwidthCombinationSet and the supportedBandwidthDL-				
v1710.				
channelBWs-DL-SCS-480kHz-FR2-2-r17	Band	CY	N/A	N/A
Indicates the UE supported channel bandwidths in DL for the SCS 480kHz.	Band	CY	N/A	N/A
Indicates the UE supported channel bandwidths in DL for the SCS 480kHz. The bits in <i>channelBWs-DL-SCS-480kHz-FR2-2</i> starting from the leading / leftmost	Band	CY	N/A	N/A
Indicates the UE supported channel bandwidths in DL for the SCS 480kHz. The bits in <i>channelBWs-DL-SCS-480kHz-FR2-2</i> starting from the leading / leftmost bit indicate 400, 800 and 1600MHz.	Band	CY	N/A	N/A
Indicates the UE supported channel bandwidths in DL for the SCS 480kHz. The bits in <i>channelBWs-DL-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.	Band	CY	N/A	N/A
Indicates the UE supported channel bandwidths in DL for the SCS 480kHz. The bits in <i>channelBWs-DL-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).	Band	CY	N/A	N/A
Indicates the UE supported channel bandwidths in DL for the SCS 480kHz. The bits in <i>channelBWs-DL-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.	Band	CY	N/A	N/A
Indicates the UE supported channel bandwidths in DL for the SCS 480kHz. The bits in <i>channelBWs-DL-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>dl-FR2-2-SCS-480kHz-r17</i> .	Band	CY	N/A	N/A
Indicates the UE supported channel bandwidths in DL for the SCS 480kHz. The bits in <i>channelBWs-DL-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>dl-FR2-2-SCS-480kHz-r17</i> . NOTE: To determine whether the UE supports a SCS 480kHz for a given band,	Band	CY	N/A	N/A
Indicates the UE supported channel bandwidths in DL for the SCS 480kHz. The bits in <i>channelBWs-DL-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>dl-FR2-2-SCS-480kHz-r17</i> . NOTE: To determine whether the UE supports a SCS 480kHz for a given band, the network validates the <i>supportedSubCarrierSpacingDL</i> .	Band	CY	N/A	N/A
Indicates the UE supported channel bandwidths in DL for the SCS 480kHz. The bits in <i>channelBWs-DL-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>dl-FR2-2-SCS-480kHz-r17</i> . 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	Band	CY	N/A	N/A
Indicates the UE supported channel bandwidths in DL for the SCS 480kHz. The bits in <i>channelBWs-DL-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>dl-FR2-2-SCS-480kHz-r17</i> . 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	Band	CY	N/A	N/A
Indicates the UE supported channel bandwidths in DL for the SCS 480kHz. The bits in <i>channelBWs-DL-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>dl-FR2-2-SCS-480kHz-r17</i> . 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> .				
Indicates the UE supported channel bandwidths in DL for the SCS 480kHz. The bits in <i>channelBWs-DL-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>dl-FR2-2-SCS-480kHz-r17</i> . 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	Band	CY	N/A	N/A
Indicates the UE supported channel bandwidths in DL for the SCS 480kHz. The bits in <i>channelBWs-DL-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>dl-FR2-2-SCS-480kHz-r17</i> . 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.				
Indicates the UE supported channel bandwidths in DL for the SCS 480kHz. The bits in <i>channelBWs-DL-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>dl-FR2-2-SCS-480kHz-r17</i> . 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> . <i>channelBWs-DL-SCS-960kHz-FR2-2-r17</i> Indicates the UE supported channel bandwidths in DL for the SCS 960kHz. The bits in <i>channelBWs-DL-SCS-960kHz-FR2-2</i> starting from the leading / leftmost				
Indicates the UE supported channel bandwidths in DL for the SCS 480kHz. The bits in <i>channelBWs-DL-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>dl-FR2-2-SCS-480kHz-r17</i> . 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 <i>channelBWs-DL-SCS-960kHz-FR2-2</i> starting from the leading / leftmost bit indicate 400, 800,1600 and 2000MHz.				
Indicates the UE supported channel bandwidths in DL for the SCS 480kHz. The bits in <i>channelBWs-DL-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>dl-FR2-2-SCS-480kHz-r17</i> . 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> . <i>channelBWs-DL-SCS-960kHz-FR2-2-r17</i> Indicates the UE supported channel bandwidths in DL for the SCS 960kHz. The bits in <i>channelBWs-DL-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.				
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. NOTE: To determine whether the UE supports a SCS 480kHz for a given band, the network validates the supportedSubCarrierSpacingDL. To determine the supported carrier bandwidths, the network validates the channelBWs-DL-SCS-480kHz-FR2-2-r17, the supportedBandwidthCombinationSet and supportedBandwidthDL-v1710. 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).				
Indicates the UE supported channel bandwidths in DL for the SCS 480kHz. The bits in <i>channelBWs-DL-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>dl-FR2-2-SCS-480kHz-r17</i> . 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> . <i>channelBWs-DL-SCS-960kHz-FR2-2-r17</i> Indicates the UE supported channel bandwidths in DL for the SCS 960kHz. The bits in <i>channelBWs-DL-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.				
Indicates the UE supported channel bandwidths in DL for the SCS 480kHz. The bits in <i>channelBWs-DL-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>dl-FR2-2-SCS-480kHz-r17</i> . 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 <i>channelBWs-DL-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>dl-FR2-2-SCS-960kHz-r17</i> .				
Indicates the UE supported channel bandwidths in DL for the SCS 480kHz. The bits in <i>channelBWs-DL-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>dl-FR2-2-SCS-480kHz-r17</i> . 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 <i>channelBWs-DL-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>dl-FR2-2-SCS-960kHz-r17</i> . NOTE: To determine whether the UE supports a SCS 960kHz for a given band,				
Indicates the UE supported channel bandwidths in DL for the SCS 480kHz. The bits in <i>channelBWs-DL-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>dl-FR2-2-SCS-480kHz-r17</i> . 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 <i>channelBWs-DL-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>dl-FR2-2-SCS-960kHz-r17</i> . NOTE: To determine whether the UE supports a SCS 960kHz for a given band, the network validates the <i>supportedSubCarrierSpacingDL</i> .				
Indicates the UE supported channel bandwidths in DL for the SCS 480kHz. The bits in <i>channelBWs-DL-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>dl-FR2-2-SCS-480kHz-r17</i> . 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 <i>channelBWs-DL-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>dl-FR2-2-SCS-960kHz-r17</i> . NOTE: To determine whether the UE supports a SCS 960kHz for a given band, the network validates the <i>supportedSubCarrierSpacingDL</i> . To determine the supported carrier bandwidths, the network validates the				
Indicates the UE supported channel bandwidths in DL for the SCS 480kHz. The bits in <i>channelBWs-DL-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>dl-FR2-2-SCS-480kHz-r17</i> . 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 <i>channelBWs-DL-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>dl-FR2-2-SCS-960kHz-r17</i> . NOTE: To determine whether the UE supports a SCS 960kHz for a given band, the network validates the <i>supportedSubCarrierSpacingDL</i> .				

channelBWs-UL	Band	Yes	N/A	N/A
Indicates for each subcarrier spacing the UE supported channel bandwidths. Absence of the <i>channelBWs-UL</i> (without suffix) for a band or absence of specific				
scs-XXkHz entry for a supported subcarrier spacing means that the UE supports the				
channel bandwidths among [5, 10, 15, 20, 25, 30, 40, 50, 60, 80, 100] and [50, 100,				
200] that were defined in clause 5.3.5 of TS 38.101-1 version 15.7.0 [2] and TS				
38.101-2 version 15.7.0 [3] for the given band or the specific SCS entry. For IAB-				
MT, to determine whether the IAB-MT supports a channel bandwidth of 100 MHz,				
the network checks <i>channelBW-UL-IAB-r16</i> . For NCR-MT, to determine whether the				
NCR-MT supports a channel bandwidth of 100 MHz, the network checks				
channelBW-UL-NCR-r18.				
For FR1, the bits in <i>channelBWs-UL</i> (without suffix) starting from the leading /				
leftmost bit indicate 5, 10, 15, 20, 25, 30, 40, 50, 60 and 80MHz. For FR2, the bits in				
channelBWs-UL (without suffix) starting from the leading / leftmost bit indicate 50, 100 and 200MHz. The third / rightmost bit (for 200MHz) shall be set to 1, except for				
NTN bands. For IAB-MT and NCR-MT, the third / rightmost bit (for 200MHz) is				
ignored. To determine whether the IAB-MT supports a channel bandwidth of 200				
MHz, the network checks <i>channelBW-UL-IAB-r16</i> . To determine whether the NCR-				
MT supports a channel bandwidth of 200 MHz, the network checks channelBW-UL-				
NCR-r18.				
For FR1, the leading/leftmost bit in <i>channelBWs-UL-v1590</i> indicates 70 MHz, the				
second leftmost bit indicates 45MHz, the third leftmost bit indicates 35MHz, the				
fourth leftmost bit indicates 100MHz and all the remaining bits in <i>channelBWs-UL-</i> v1590 shall be set to 0. The fourth leftmost bit (for 100MHz) is not applicable for				
bands n41, n48, n77, n78, n79 and n90 as defined in TS 38.101-1 [2]. For each				
band, (e)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 and FR2, taking restrictions in TS 38.101-5 [34] into				
consideration.				
This feeture is applicable only for ED4 and ED2.4 and ED2 NTN hand otherwise it				
This feature is applicable only for FR1 and FR2-1 and FR2-NTN band, otherwise it is absent.				
is absent.				
NOTE 1: To determine whether the UE supports a specific SCS for a given band,				
the network validates the supportedSubCarrierSpacingUL and the scs-				
60kHz.				
To determine whether the UE supports a channel bandwidth of 90 MHz				
for the band combination with other bandwidth combination set than				
BCS5, the network may ignore this capability and validate instead the channelBW-90mhz, the supportedBandwidthCombinationSet, the				
supportedBandwidthCombinationSetIntraENDC, and				
supportedBandwidthCombinationSetIntraENDC-v1790. To determine				
whether the UE supports a channel bandwidth of 90 MHz for the band				
combination with BCS5, the network may ignore this capability and				
validate instead the <i>channelBW-90mhz</i> , the				
supportedBandwidthCombinationSet, the				
supportedBandwidthCombinationSetIntraENDC, supportedAggBW-FR1- r17, and supportedBandwidthCombinationSetIntraENDC-v1790. To				
determine whether the UE supports a channel bandwidth of 400 MHz,				
the network may ignore this capability and validate the				
supportedBandwidthCombinationSet, the				
supportedBandwidthCombinationSetIntraENDC, the				
supportedBandwidthUL, and				
supportedBandwidthCombinationSetIntraENDC-v1790. To determine				
whether the UE supports a channel bandwidth of 3MHz, the network may				
ignore this capability and validate instead the support3MHz-ChannelBW-				
Symmetric-r18, support3MHz-ChannelBW-Asymmetric-r18, the supportedBandwidthCombinationSet, the				
asymmetricBandwidthCombinationSet (for a band supporting asymmetric				
channel bandwidth as defined in clause 5.3.6 of TS 38.101-1 [2]), the				
supportedBandwidthUL-v1840 and the supportedMinBandwidthUL-				
v1840.				
For serving cell(s) with other channel bandwidths:				
- If supportedAggBW-FR1-r17 is reported, the network validates the				
channelBWs-UL, the supportedBandwidthCombinationSet, the supportedBandwidthCombinationSetIntraENDC, the				
supporteubanuwiumoombinationsetintraembo, the				

asymmetricBandwidthCombinationSet (for a band supporting asymmetric channel bandwidth as defined in clause 5.3.6 of TS 38.101-1 [2]), supportedBandwidthUL-v1780, supportedMinBandwidthUL-r17, supportedAggBW-FR1-r17, and supportedBandwidthCombinationSetIntraENDC-v1790. Otherwise, the network validates the channelBWs-UL, the supportedBandwidthCombinationSet, the supportedBandwidthCombinationSet (for a band supporting asymmetricBandwidthCombinationSet (for a band supporting asymmetric channel bandwidth as defined in clause 5.3.6 of TS 38.101-1 [2]), supportedBandwidthUL-r17, supportedBandwidthUL-v1710, supportedMinBandwidthUL-r17, supportedAggBW-FR2-r17, and supportedBandwidthCombinationSetIntraENDC-v1790.				
NOTE 2: For SRS carrier switching to a PUSCH-less cell, to determine whether the UE supports a channel bandwidth 90MHz/400MHz for SRS configuration, the network validates the supported DL bandwidth, e.g. if the 90MHz is supported by the downlink, the network can configure SRS with 90MHz on the PUSCH-less carrier. SRS carrier switching on PUSCH-less SCells is not supported when channel bandwidth configured for DL is not supported in UL according to <i>channelBWs-UL</i> .				
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 Indicates the UE supported channel bandwidths in UL for the SCS 480kHz. The bits in channelBWs-UL-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 ul-FR2-2-SCS-480kHz-r17. 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.	Band	CY	N/A	N/A
channelBWs-UL-SCS-960kHz-FR2-2-r17 Indicates the UE supported channel bandwidths in UL for the SCS 960kHz. The bits in channelBWs-UL-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 ul-FR2-2-SCS-960kHz-r17. 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.	Band	CY	N/A	N/A

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				
- type twir-terypezes-hait-it/ indicates {type i waiti earler, retype ii es				
- 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 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.				
totalivamberrar ortar erbana is 4.				
The UE supporting this feature shall indicate the support of individual codebook				
types in the reported mixed codebook combination among <i>fetype2basic-r17</i> ,				
etype2R1-r16, codebookComboParametersAddition-r16, supportedCSI-RS-				
ResourceList, fetype2R1-r17, fetype2R2-r17.				

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}				
<u> </u>				
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 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.				
	ndicating support of this feature shall also indicate the support of mTRP- ancementPerBand-r17.				
Indicates	kComboParametersAddition-r16 the UE supports the mixed codebook combinations and the corresponding supported by the UE.	Band	No	N/A	N/A
for up to 4	d codebook types, UE reports support active CSI-RS resources and ports 4 mixed codebook combinations in any slot. The following is the possible debook combinations:				
- {T	ype 1 Single Panel, Type 2, Null} ype 1 Single Panel, Type 2 with port selection, Null} ype 1 Single Panel, eType 2 with R=1, Null} ype 1 Single Panel, eType 2 with R=2, Null} ype 1 Single Panel, eType 2 with R=1 and port selection, Null} ype 1 Single Panel, eType 2 with R=2 and port selection, Null} ype 1 Single Panel, Type 2, Type 2 with port selection} ype 1 Single Panel, Type 2, Type 2 with port selection} ype 1 Multi Panel, Type 2, Null} ype 1 Multi Panel, Type 2 with port selection, Null} ype 1 Multi Panel, eType 2 with R=1, Null} ype 1 Multi Panel, eType 2 with R=2, Null} ype 1 Multi Panel, eType 2 with R=1 with port selection, Null} ype 1 Multi Panel, eType 2 with R=2 with port selection, Null} ype 1 Multi Panel, Type 2, Type 2 with port selection} ers for each mixed codebook supported by the UE: ppportedCSI-RS-ResourceListAdd-r16 indicates the list of supported CSI- ersources in a band by referring to codebookVariantsList. The following trameters are included in codebookVariantsList.				
- Th	ortedCSI-RS-ResourceListAdd-r16 related to the additional codebooks: ne minimum of maxNumberTxPortsPerResource is 'p4'; ne minimum value of totalNumberTxPortsPerBand is 4.				
CSI-RS re those con consider capability A UE that	eports one or more mixed codebook combinations, then usage of active esources and ports for multiple codebooks in any slot is allowed only within an inbinations. For coexisting of mixed codebooks in any slot, gNB needs to the mixed codebook combination capability as well as per codebook of each codebook type in the mixed codebook combination. It indicates support of a codebook type in the mixed codebook combination cate support of the individual codebook type in the per band capability.				

CodebookComboParametersCJT-r18	Band	No	N/A	N/A
Indicates that the UE supports active CSI-RS resources and ports for mixed				
codebook types including Type-II-CJT in any slot.				
The UE reports supported active CSI-RS resources and ports for the following are				
the possible mixed codebook combinations {Codebook1, Codebook2, Codebook3}:				
 cjt-Type1SP-eType2R1-null indicates {Type SP, eType-II-CJT R=1, NULL} cjt-Type1SP-eType2R2-null indicates {Type SP, eType-II-CJT R=2, NULL} cjt-Type1SP-feType2R1M1-null indicates {Type SP, FeType-II-CJT PS R=1 M=1, NULL} cjt-Type1SP-feType2R1M2-null indicates {Type SP, FeType-II-CJT PS R=1 M=2, NULL} cjt-Type1SP-feType2R2M2-null indicates {Type SP, FeType-II-CJT PS R=2 M=2, NULL} cjt-Type1MP-eType2R1-null indicates {Type MP, eType-II-CJT R=1, NULL} cjt-Type1MP-eType2R2-null indicates {Type MP, eType-II-CJT R=2, NULL} cjt-Type1MP-feType2R1M1-null indicates {Type MP, FeType-II-CJT PS R=1 M=1, NULL} cjt-Type1MP-feType2R1M2-null indicates {Type MP, FeType-II-CJT PS 				
 cjt-Type i MP-te Type R M2-null indicates { Type I MP, Fe Type-II-CJT PS R=1 M=2, NULL} cjt-Type1MP-fe Type2R2M2-null indicates { Type I MP, Fe Type-II-CJT PS R=2 M=2, NULL} 				
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. The minimum of maxNumberTxPortsPerResource is 'p4'; - 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. The minimum value of totalNumberTxPortsPerBand is 4.				
A UE supporting this feature shall also indicate support of individual codebook types in the reported mixed codebook combination among <i>eType2CJT-r18</i> , <i>feType2CJT-r18</i> , Type I single panel codebook and Type I multi-panel codebook.				

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 (etype2R2-r16) 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.				

codebookParametersetype2CJT-r18 Band No N/A N/A Indicates the UE support of additional codebooks and the corresponding parameters supported by the UE of Enhanced Type II Codebook (eType-II) with refinement for multi-TRP CJT. The basic features of eType-II codebook with refinement for multi-TRP CJT are included in eType2CJT-r18. This capability signalling comprises the following supportedCSI-RS-ResourceList-r18 indicates the list of supported CSI-RS resources across all CCs in a band by referring to codebookVariantsList. The following parameters are included in codebookVariantsList. maxNumberTxPortsPerResource indicates the maximum number of Tx ports in one NZP CSI-RS resource associated with multi-TRP CJT; maxNumberResourcesPerBand indicates the maximum total number of NZP CSI-RS resource associated with multi-TRP CJT; totalNumberTxPortsPerBand indicates the total number of Tx ports of NZP CSI-RS resources associated with multi-TRP CJT. scalingfactor-r18 indicates the scaling factor X for CPU occupation counting for CJT etype-II codebook; maxNumberNZP-CSI-RS-MultiTRP-CJT-r18 indicates the maximum number of NZP CSI-RS resources in one NZP CSI-RS resource set associated with multi-TRP CJT. The UE indicating eType2CJT-r18 shall support N=N TRP only, N L=1 only, support mode 2 for eType-II codebook refinement for multi-TRP CJT, support PMI subband R=1, support parameter combinations with L=2,4, support rank 1,2, and support frequency basis selection mode 2, i.e., common frequency basis selection among different TRPs. The UE indicating support of eType2CJT-r18 shall also indicate support of csi-ReportFramework and simultaneousCSI-ReportsAllCC. NOTE 1: When NTRP=1 TRP is configured, OCPU =1. When NTRP>1 TRPS are configured. OCPU = ceil(X * NTRP). NOTE 2: A-CSI is supported, and whether UE supports SP-CSI on PUSCH is dependent on sp-CSI-ReportPUSCH. The UE optionally includes eType2CJT-FD-IO-r18 to indicate whether the UE supports mode 1 for CJT eType-II codebook with FD basis selection integer frequency offset. This capability signalling comprises the list of supported NZP CSI-RS resources across all CCs in a band by referring to codebookVariantsList. The UE indicating eType2CJT-FD-IO-r18 shall also support frequency basis selection mode 1, i.e., common frequency basis selection among different TRPs with FD basis selection integer frequency offset. The UE optionally indicates eType2CJT-FD-FO-r18 to indicate whether the UE supports frequency basis selection mode 1 with FD basis selection fractional frequency offset for eType-II based CJT codebook. The UE indicating eType2CJT-FD-FO-r18 shall also indicate support of eType2CJT-FD-IO-r18. The UE optionally indicates eType2CJT-R2-r18 to indicate whether the UE supports eType-II codebook refinement for multi-TRP CJT with PMI subbands R=2. This capability signalling comprises the list of supported NZP CSI-RS resources with R=2 across all CCs in a band by referring to codebookVariantsList across all CCs. The UE optionally indicates eType2CJT-PV-Beta-r18 to indicate whether the UE supports eType-II codebook refinement for multi-TRP CJT with parameter combination pv={1/2,1/2,1/2,1/2} and beta=1/2. The UE optionally indicates eType2CJT-2NN1N2-r18 to indicate whether the UE supports 2NN1N2 >32 for eType-II CJT codebook. The UE indicates the maximum number of ports across all TRPs for one CJT CSI measurement. The UE optionally indicates eType2CJT-Rank3Rank4-r18 to indicate whether the UE supports eType-II codebook refinement for multi-TRP CJT with rank 3,4. The UE optionally indicates eType2CJT-L6-r18 to indicate whether the UE supports eType-II codebook refinement for multi-TRP CJT with parameter combination with L=6. The UE supports this capability only for N_TRP=1.

The UE optionally indicates eType2CJT-NN-r18 to indicate whether the UE supports selection of N <= N_TRP CSI-RS resource by UE for multi-TRP CJT based on eType-II codebook.

The UE optionally indicates *eType2CJT-NL-SD-r18* to indicate whether the UE supports N_L>1 combinations of number of SD basis across CSI-RS resources for CJT eType-II codebook. The UE indicates the maximum number of lists for spatial basis selection, i.e., N_L, for multi-TRP CJT based on eType-II codebook.

The UE optionally indicates e*Type2CJT-Unequal-r18* to indicate whether the UE supports unequal number of spatial basis selection configuration across CSI-RS resources for multi-TRP CJT including eType-II codebook refinement.

For codebookVariantsList related to the eType-II:

- The minimum of maxNumberTxPortsPerResource is 'p4';
- The minimum of maxNumberResourcesPerBand is 2;
- The minimum value of totalNumberTxPortsPerBand is 4.

codebookParametersetype2DopplerCSI-r18 Band No N/A N/A Indicates the UE support of additional codebooks and the corresponding parameters supported by the UE of Enhanced Type II Codebook (eType-II) based on doppler CSI as specified in TS 38.214 [12]. The basic features of eType-II doppler codebook are included in eType2Dopplerr18. This capability signalling comprises the following parameters: supportedCSI-RS-ResourceList-r18 indicates the list of supported CSI-RS resources across all CCs 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. valueY-P-SP-CSI-RS-r18 indicates value of Y for CPU occupation (OCPU = Y* vectorLengthDD-r18), when P/SP-CSI-RS is configured for CMR; value Y-A-CSI-RS-r18 indicates value of Y for CPU occupation (OCPU = Y*K), when A-CSI-RS is configured for CMR; scalingfactor-r18 indicates scaling factor for active resource counting Kp. The UE indicating eType2Doppler-r18 shall support X=1 CQI based on the first/earliest slot of the CSI reporting window and the first/earliest predicted PMI (TDCQI='1-1'), support eType-II regular codebook refinement for predicted PMI with PMI subband R=1, support parameter combinations with L=2,4, support rank = 1,2, and support the size of DD-basis, vectorLengthDD-r18=1. The UE indicating support of eType2Doppler-r18 shall also indicate support of csi-ReportFramework and simultaneousCSI-ReportsAllCC. NOTE 1: When vectorLengthDD-r18=1, OCPU =4. NOTE 2: OCPU ≥ 4 when P/SP-CSI-RS is configured for CMR. NOTE 3: When K=12, OCPU =8. NOTE 4: A UE that supports CSI enhancement for Rel-16 based type-II doppler must support this feature. The UE optionally includes eType2DopplerN4-r18 to indicate whether the UE supports doppler measurement with vectorLengthDD-r18 >1 for eType-II doppler codebook. This capability signalling comprises the following parameters: supportedCSI-RS-ReportSettingList1-r18 indicates the list of supported combinations across all CCs in a band simultaneously by referring to SupportedCSI-RS-ReportSetting-r18. The following parameters are included in SupportedCSI-RS-ReportSetting-r18: maxN4-r18 indicates the max number of vectorLengthDD-r18: maxNumberTxPortsPerResource-r18 indicates the maximum number of Tx ports in a resource of a band: maxNumberResourcesPerBand-r18 indicates the maximum number of resources across all CCs in a band, simultaneously; totalNumberTxPortsPerBand-r18 indicates the total number of Tx ports across all CCs in a band, simultaneously. supportedCSI-RS-ReportSettingList2-r18 indicates the list of supported combinations for one CSI report setting by referring to SupportedCSI-RS-ReportSetting-r18. The following parameters are included in SupportedCSI-RS-ReportSetting-r18: maxN4-r18 indicates the max number of vectorLengthDD-r18; maxNumberTxPortsPerResource-r18 indicates the maximum number of Tx ports in a resource of a band; maxNumberResourcesPerBand-r18 indicates the maximum number of resources across all CCs in a band, simultaneously: totalNumberTxPortsPerBand-r18 indicates the total number of Tx ports across all CCs in a band, simultaneously. The UE indicating support of eType2DopplerN4-r18 shall also indicate support for the size of DD-basis, vectorLengthDD-r18 > 1, and value of unitDurationDD-r18=m for the DD unit size when A-CSI-RS is configured for CMR.

The UE optionally includes *ddUnitSize-A-CSI-RS-CMR-r18* to indicate whether the UE supports value of *unitDurationDD-r18*=1 for the DD unit duration when A-CSI-RS is configured for CMR.

A UE supporting this feature shall also indicate support of eType2DopplerN4-r18.

The UE optionally includes *maxNumberAperiodicCSI-RS-Resource-r18* to indicate the maximum number of aperiodic CSI-RS resources that can be configured in the same CSI report setting for eType-II doppler measurement.

The UE optionally includes *eType2DopplerR2-r18* to indicate whether the UE supports R=2 for eType-II doppler codebook. This capability signalling comprises the list of supported CSI-RS resources across all CCs in a band by referring to *codebookVariantsList*.

The UE optionally includes *eType2DopplerX1-r18* to indicate whether the UE supports X=1 based on first and last slot of W_{CSI}, for eType-II doppler codebook.

The UE optionally includes eType2DopplerX2-r18 to indicate whether the UE supports X=2 CQI based on 2 slots for eType-II doppler codebook.

The UE optionally includes eType2DopplerL-N4D1-r18 to indicate whether the UE supports I = (n - nCSI,ref) for CSI reference slot for eType-II doppler codebook. The UE optionally includes eType2DopplerL6-r18 to indicate whether the UE supports L=6 for eType-II doppler codebook.

The UE optionally includes *eType2DopplerR3R4-r18* to indicate whether the UE supports rank equals 3 and 4 for eType-II doppler codebook.

For codebookVariantsList-r16 related to the eType-II:

- The minimum of maxNumberTxPortsPerResource is 'p4';
- The minimum of maxNumberResourcesPerBand is 2, except for eType2DopplerR2-r18;
- 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 across all CCs in a band by				
referring to codebook Variants List. The following parameters are included in				
codebookVariantsList.				
- maxNumberTxPortsPerResource indicates the maximum number of Tx				
ports in a resource of a band				
- 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 across all CCs 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.				
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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 across all CCs 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.				
- 1-7/- 1- 1- 1- 1- 1- 1- 1- 1- 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.				

codebookParametersfetype2CJT-r18 Band No N/A N/A Indicates the UE support of additional codebooks and the corresponding parameters supported by the UE of Further Enhanced Type II Codebook (feType-II) with refinement for multi-TRP CJT. The basic features of feType-II codebook with refinement for multi-TRP CJT are included in feType2CJT-r18. This capability signalling comprises the following - supportedCSI-RS-ResourceList-r18 indicates the list of supported CSI-RS resources across all CCs in a band by referring to codebookVariantsList. The following parameters are included in codebookVariantsList. maxNumberTxPortsPerResource indicates the maximum number of Tx ports in one NZP CSI-RS resource associated with multi-TRP CJT; maxNumberResourcesPerBand indicates the maximum total number of NZP CSI-RS resource associated with multi-TRP CJT; totalNumberTxPortsPerBand indicates the total number of Tx ports of NZP CSI-RS resources associated with multi-TRP CJT. scalingfactor-r18 indicates the scaling factor X for CPU occupation counting for CJT fetype-II codebook. maxNumberNZP-CSI-RS-MultiTRP-CJT-r18 indicates the maximum number of NZP CSI-RS resources in one NZP CSI-RS resource set associated with multi-TRP CJT. The UE indicating feType2CJT-r18 shall support N=N TRP only, N L=1 only, support mode 2 for FeType-II port selection codebook refinement for multi-TRP CJT, support PMI subband R=1, support parameter combinations with M=1, support rank 1,2, and support frequency basis selection mode 2, i.e., common frequency basis selection among different TRPs. The UE indicating support of feType2CJT-r18 shall also indicate support of csi-ReportFramework and simultaneousCSI-ReportsAllCC. NOTE 1: When NTRP=1 TRP is configured, OCPU =1. When NTRP>1 TRPS are configured. OCPU = ceil(X * NTRP). NOTE 2: A-CSI is supported, and whether UE supports SP-CSI on PUSCH is dependent on sp-CSI-ReportPUSCH. NOTE 3: A UE that supports CSI enhancement for Rel 17 based type-II CJT must support this feature. The UE optionally includes feType2CJT-FD-IO-r18 to indicate whether the UE supports FeType-II port selection codebook refinement for multi-TRP CJT with PMI subband R=1. This capability signalling comprises the list of supported NZP CSI-RS resources across all CCs in a band by referring to codebookVariantsList. The UE indicating feTvpe2CJT-FD-IO-r18 shall also support frequency basis selection mode 1, i.e., common frequency basis selection among different TRPs with FD basis selection integer frequency offset. The UE optionally indicates feType2CJT-FD-FO-r18 to indicate whether the UE supports frequency basis selection mode 1 with FD basis selection fractional frequency offset for FeType-II port selection based CJT codebook. The UE indicating feType2CJT-FD-FO-r18 shall also indicate support of feType2CJT-FD-IO-The UE optionally indicates eType2CJT-M2R1-r18 to indicate whether the UE supports FeType-II port selection codebook refinement for multi-TRP CJT with M=2 and PMI subband R=1. This capability signalling comprises the list of supported NZP CSI-RS resources with R=2 across all CCs in a band by referring to codebookVariantsList. The UE indicating feType2CJT-M2R1-r18 shall also indicate support of feType2CJT-r18 or feType2CJT-FD-IO-r18. The UE optionally indicates feType2CJT-R2-r18 to indicate whether the UE supports FeType-II port selection codebook refinement for multi-TRP CJT with PMI subband R=2. This capability signalling comprises the list of supported NZP CSI-RS resources with R=2 across all CCs in a band by referring to codebook Variants List. The UE indicating feType2CJT-R2-r18 shall also indicate support of feType2CJTr18 or feType2CJT-FD-IO-r18. The UE optionally indicates feType2CJT-2NN1N2-r18 to indicate whether the UE supports 2NN1N2 >32 for FeType-II CJT codebook. The UE indicates the

maximum number of ports across all TRPs for one CJT CSI measurement.

The UE optionally indicates *feType2CJT-Rank3Rank4-r18* to indicate whether the UE supports FeType-II port selection codebook refinement for multi-TRP CJT with rank 3,4.

The UE optionally indicates feType2CJT-NN-r18 to indicate whether the UE supports selection of N <= N_TRP CSI-RS resource by UE for multi-TRP CJT based on FeType-II port selection codebook.

The UE optionally indicates *feType2CJT-NL-r18* to indicate whether the UE supports N_L>1 combinations of number of ports across CSI-RS resources for CJT Fetype-II codebook. The UE indicates the maximum number of lists for ports selection, i.e., NL, for multi-TRP CJT based on FeType-II port selection codebook.

The UE optionally indicates *feType2CJT-Unequal-r18* to indicate whether the UE supports unequal number of port selection configuration across CSI-RS resources for multi-TRP CJT including FeType-II port selection codebook refinement.

For codebookVariantsList related to the FeType-II:

- The minimum of maxNumberTxPortsPerResource is 'p4';
- The minimum of maxNumberResourcesPerBand is 2;
- The minimum value of totalNumberTxPortsPerBand is 4.

codebookParametersfetype2DopplerCSI-r18 Indicates the UE support of additional codebooks and the corresponding parameters supported by the UE of Further Enhanced Type II Codebook (FeType-II) based on doppler CSI as specified in TS 38.214 [12].	Band	No	N/A	N/A
The basic features of FeType-II doppler codebook are included in feType2Doppler- r18. This capability signalling comprises the following parameters: - supportedCSI-RS-ResourceList-r18 indicates the list of supported CSI-RS resources across all CCs 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. - valueY-A-CSI-RS-r18 indicates value of Y for CPU occupation (OCPU = Y*K), when A-CSI-RS is configured for CMR. - scalingfactor-r18 indicates scaling factor for active resource counting Kp.				
The UE indicating feType2Doppler-r18 shall support X=1 CQI based on the first/earliest slot of the CSI reporting window and the first/earliest predicted PMI, support FeType-II regular codebook refinement for predicted PMI with PMI subband R=1, support parameter combinations with M=1, support rank = 1,2, and support vectorLengthDD-r18 = 1. A UE indicating this feature shall also indicate the support of csi-ReportFramework.				
The UE indicating support of feType2Doppler-r18 shall also indicate support of eType2Doppler-r18, and csi-ReportFramework.				
NOTE 1: OCPU = 4 when P/SP-CSI-RS is configured for CMR. NOTE 2: When K=12, OCPU =8.				
The UE optionally includes <i>maxNumberAperiodicCSI-RS-Resource-r18</i> to indicate the maximum number of aperiodic CSI-RS resources that can be configured in the same CSI report setting for FeType-II doppler measurement.				
The UE optionally includes feType2DopplerM2R1-r18 to indicate whether the UE supports M=2 and R=1 for FeType-II doppler codebook. This capability signalling comprises the list of supported CSI-RS resources across all CCs in a band by referring to codebookVariantsList.				
The UE optionally includes feType2DopplerR2-r18 to indicate whether the UE supports R=2 for FeType-II doppler codebook. This capability signalling comprises the list of supported CSI-RS resources across all CCs in a band by referring to codebookVariantsList.				
The UE optionally includes feType2DopplerL-N4D1-r18 to indicate whether the UE supports I = (n – nCSI,ref) for CSI reference slot for FeType-II doppler codebook.				
The UE optionally includes feType2DopplerR3R4-r18 to indicate whether the UE supports rank equals 3 and 4 for FeType-II doppler codebook.				
For codebookVariantsList-r16 related to the feType-II: - The minimum of maxNumberTxPortsPerResource is 'p4'; - The minimum of maxNumberResourcesPerBand is 2, except for eType2DopplerR2-r18; - The minimum value of totalNumberTxPortsPerBand is 4.				

codebookParametersHARQ-ACK-PUSCH-r18 Indicates whether the UE supports Multiplexing HARQ-ACK codebook in a PUSCH for PDSCH scheduled after UL grant.	Band	No	N/A	N/A
This capability signalling comprises the following parameters: - multiplexingType1-r18 indicates whether the UE supports multiplexing Type-1 HARQ-ACK codebook on a repetition of a PUSCH transmission other than a first repetition, where ACK/NACK is generated for the HARQ-ACK codebook including HARQ-ACK information associated with PDSCH reception(s) scheduled after the UL grant scheduling the PUSCH transmission. A UE supporting this feature shall also indicate support of semiStaticHARQ-ACK-Codebook. - multiplexingType2-r18 indicates whether the UE supports multiplexing Type-2 HARQ-ACK codebook on a repetition of a PUSCH transmission other than a first repetition, where ACK/NACK is generated for the HARQ-ACK codebook including HARQ-ACK information associated with PDSCH reception(s) scheduled after the UL grant scheduling the PUSCH transmission. A UE supporting this feature shall also indicate support of dynamicHARQ-ACK-Codebook. - multiplexingType3-r18 indicates whether the UE supports multiplexing Type-3 HARQ-ACK codebook on a repetition of a PUSCH transmission other than a first repetition, where ACK/NACK is generated for the HARQ-ACK codebook including HARQ-ACK information associated with PDSCH reception(s) scheduled after the UL grant scheduling the PUSCH transmission. A UE supporting this feature shall also indicate support of oneShotHARQ-feedback-r16.				
A UE shall also indicate support of one of <i>pusch-RepetitionMultiSlots</i> and <i>pusch-RepetitionTypeB-r16</i> .				
UE does not expect to determine a different codebook size in a PUCCH slot from the codebook size determined based on HARQ-ACK information associated with PDSCH reception(s) scheduled before a UL grant that schedules a PUSCH in a slot overlapping with the PUCCH slot unless the UE indicates support of <i>diffCB-Size-PDSCH-r18</i> .				
UE does not expect to determine a different PUCCH time domain resource in a slot from the PUCCH time domain resource determined based on HARQ-ACK information associated with PDSCH reception(s) scheduled before a UL grant that schedules a PUSCH in that slot unless the UE indicates support of <i>pucch-DiffResource-PDSCH-r18</i> .				
The UE optionally includes <i>pucch-DiffResource-PDSCH-r18</i> to indicate whether the UE supports determining a different PUCCH resource in a slot from the PUCCH resource indicated by the last DCI format before a UL grant in the slot, to include HARQ-ACK information associated with PDSCH reception(s) scheduled after the UL grant scheduling a PUSCH transmission with repetitions and the HARQ-ACK information are multiplexed on a repetition of the PUSCH transmission other than a first repetition in the same slot. A UE supporting <i>pucch-DiffResource-PDSCH-r18</i> shall also indicate support of one of <i>multiplexingType1-r18</i> , <i>multiplexingType2-r18</i> and <i>multiplexingType3-r18</i> .				
The UE optionally includes diffCB-Size-PDSCH-r18 to indicate whether the UE supports determining different codebook size in a PUCCH slot from the size determined based on HARQ-ACK information associated with PDSCH reception(s) scheduled before a UL grant, to include HARQ-ACK information associated with PDSCH reception(s) scheduled after the UL grant scheduling a PUSCH transmission with repetitions and the HARQ-ACK information are multiplexed on a repetition of the PUSCH transmission other than a first repetition in the same slot. A UE supporting diffCB-Size-PDSCH-r18 shall also indicate support of one of multiplexingType1-r18, multiplexingType2-r18 and multiplexingType3-r18.				
commonTCI-MultiDCI-r18 Indicates whether the UE supports common multi-CC TCI state ID update and activation for multi-DCI based multi-TRP. The UE also indicates the maximum number of CC list(s).	Band	No	N/A	N/A
A UE supporting this feature shall also indicate support of tci-JointTCI-UpdateSingleActiveTCI-PerCC-PerCORESET-r18.				

commonTCI-SingleDCI-r18 Indicates whether the UE supports common multi-CC TCI state ID update and activation for single-DCI based multi-TRP. The UE also indicates the maximum	Band	No	N/A	N/A
number of CC list(s). A UE supporting this feature shall also indicate support of <i>tci-JointTCI-</i>				
UpdateSingleActiveTCI-PerCC-r18.	Dand	NIa	NI/A	NI/A
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 NTN, UE shall set the capability value consistently for all FDD-FR1 NTN bands and all FDD-FR2 NTN bands respectively.				
condHandoverFailure-r16	Band	No	N/A	N/A
Indicates whether the UE supports conditional handover during re-establishment procedure when the selected cell is configured as candidate cell for condition handover. Except for NTN bands, UE shall set the capability value consistently for all FDD-FR1 bands, all TDD-FR1 bands, all TDD-FR2-1 bands and all TDD-FR2-2 bands respectively. For NTN, UE shall set the capability value consistently for all FDD-FR1 NTN bands and all FDD-FR2 NTN bands respectively. The inter-band conditional handover during re-establishment procedure is supported only if the UE sets the capability value for the PCell band of the selected cell.	Danu	INO	IV/A	IV/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 and all FDD-FR2 NTN bands respectively. The 2 trigger events for the same execution condition are supported only if the UE sets the capability value for the band of the PCell and frequency to be measured.	Jana	9.		
condHandoverWithCandSCG-change-r18	Band	No	N/A	N/A
Indicates whether the UE supports conditional handover with candidate SCG, where conditional NR PSCell change is supported for FDD-FR1 bands, TDD-FR2-1 bands and TDD-FR2-2 bands. 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 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.				
condPSCellChange-r16	Band	No	N/A	N/A
Indicates whether the UE supports conditional PSCell change including execution condition, candidate cell configuration and maximum 8 candidate cells. UE shall set the capability value consistently for all FDD-FR1 bands, all TDD-FR1 bands, all TDD-FR2-1 bands and all TDD-FR2-2 bands respectively.				
condPSCellChangeTwoTriggerEvents-r16	Band	CY	N/A	N/A
Indicates whether the UE supports 2 trigger events for same execution condition. This feature is mandatory supported if the UE supports <i>condPSCellChange-r16</i> . UE shall set the capability value consistently for all FDD-FR1 bands, all TDD-FR1 bands, all TDD-FR2-1 bands and all TDD-FR2-2 bands respectively. The 2 trigger events for the same execution condition are supported only if the UE sets the capability value for the band of the PSCell and frequency to be measured.				
configuredUL-GrantType1-v1650	Band	No	N/A	N/A
Indicates whether the UE supports Type 1 PUSCH transmissions with configured grant as specified in TS 38.214 [12] with UL-TWG-repK value of one. This applies only to non-shared spectrum channel access. For shared spectrum channel access, configuredUL-GrantType1-r16 applies. Except for NTN bands, UE shall set the capability value consistently for all FDD-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 and all FDD-FR2 NTN bands respectively.		-3		
The UE only includes <i>configuredUL-GrantType1-v1650</i> if <i>configuredUL-GrantType1</i> is absent.				

Band	No	N/A	N/A
Band	No	N/A	N/A
Band	No	N/A	N/A
Band	Yes	N/A	N/A
Band	No	N/A	N/A
	Band Band	Band No Band Yes	Band No N/A Band Yes 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; 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 	Band	Yes	N/A	N/A
mandated to report at least 16 for FR1 and 32 for FR2. The UE is mandated to report csi-RS-ForTracking.				
csi-RS-IM-ReceptionForFeedback 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;	Band	Yes	N/A	N/A
 maxConfigNumberPortsAcrossNZP-CSI-RS-PerCC indicates the maximum number of ports across all configured NZP-CSI-RS resources per CC; maxConfigNumberCSI-IM-PerCC indicates the maximum number of 				
 configured CSI-IM resources per CC; maxNumberSimultaneousNZP-CSI-RS-PerCC indicates the maximum number of simultaneous CSI-RS-resources per CC; 				
 totalNumberPortsSimultaneousNZP-CSI-RS-PerCC indicates the total number of CSI-RS ports in simultaneous CSI-RS resources per CC. The UE is mandated to report csi-RS-IM-ReceptionForFeedback. 				
csi-RS-ProcFrameworkForSRS 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;	Band	No	N/A	N/A
 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. 				
cyclicShiftHoppingWithinSubset-r18 Indicates whether the UE supports configuration of subset of cyclic shifts for cyclic shift hopping. A UE supporting this feature shall also indicate the support of srs-cyclicShiftHopping-r18.	Band	No	N/A	N/A

defaultOCL DevCODECETDeelladev v46	Dond	No	NI/A	
defaultQCL-PerCORESETPoolIndex-r16 Indicates whether the UE supports default QCL assumption per CORESET pool	Band	No	N/A	FR2 only
index using multi-DCI based multi-TRP. The UE that indicates support of this feature shall support <i>multiDCI-MultiTRP-r16</i> and <i>simultaneousReceptionDiffTypeD-</i>				
r16. defaultQCL-TwoTCl-r16	Donal	NIa	NI/A	FDO
Indicates whether the UE supports default QCL assumption with two TCl states	Band	No	N/A	FR2
using single-DCI based multi-TRP. The UE can include this field only if				only
simultaneousReceptionDiffTypeD-r16 is present. Otherwise, the UE does not				
include this field.				
dmrs-BundlingNonBackToBackTX-r17	Band	No	N/A	N/A
Indicates whether the UE supports DM-RS bundling for non-back-to-back	Danu	INO	IN/A	IN/A
transmission for consecutive slots for PUSCH and PUCCH only for corresponding				
supported back-to-back transmission as reported in <i>dmrs-BundlingPUSCH-</i>				
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.				
Tourist for the control of the contr				
UE indicating support of this feature shall also indicate support of at least one of				
dmrs-BundlingPUSCH-RepTypeA-r17, dmrs-BundlingPUSCH-RepTypeB-r17,				
dmrs-BundlingPUSCH-multiSlot-r17 or dmrs-BundlingPUCCH-Rep-r17.				
dmrs-BundlingPUCCH-Rep-r17	Band	No	N/A	N/A
Indicates whether the UE supports DM-RS bundling for PUCCH repetitions for				
PUCCH formats 1/3/4 over consecutive symbols. The UE is considered to support				
the feature in a band of a band combination if the UE indicates support of the				
feature for the corresponding band and for the band combination.				
UE indicating support of this feature shall also indicate support of				
maxDurationDMRS-Bundling-r17 and pucch-Repetition-F1-3-4.	ļ			
dmrs-BundlingPUSCH-multiSlot-r17	Band	No	N/A	N/A
Indicates whether the UE supports DM-RS bundling for TB processing over multi-				
slot PUSCH over consecutive symbols. The UE is considered to support the feature				
in a band of a band combination if the UE indicates support of the feature for the corresponding band and for the band combination.				
corresponding band and for the band combination.				
UE indicating support of this feature shall also indicate support of				
maxDurationDMRS-Bundling-r17 and tb-ProcessingMultiSlotPUSCH-r17.				
dmrs-BundlingPUSCH-RepTypeA-r17	Band	No	N/A	N/A
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				
maxDurationDMRS-Bundling-r17 and at least one of type1-PUSCH-				
RepetitionMultiSlots, type2-PUSCH-RepetitionMultiSlots or pusch-				
RepetitionMultiSlots.				
dmrs-BundlingPUSCH-RepTypeB-r17	Band	No	N/A	N/A
Indicates whether the UE supports DM-RS bundling for PUSCH repetition type B	Danu	110	13//	13/74
over consecutive symbols. The UE is considered to support the feature in a band of				
a band combination if the UE indicates support of the feature for the corresponding				
band and for the band combination.				
UE indicating support of this feature shall also indicate support of				
maxDurationDMRS-Bundling-r17 and 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.				
dmrs-PortEntrySingleDCI-SDM-r18 Indicates whether the UE supports UL DMRS port entry {0, 2, 3} for single DCI based SDM scheme for Rel-15 DMRS port and/or Rel-18 DMRS port. A UE indicates supporting of this feature shall also indicate support of pusch-CB-SingleDCI-STx2P-SDM-r18 or pusch-NonCB-SingleDCI-STx2P-SDM-r18.	Band	No	N/A	FR2 only
dynamicMulticastDCI-Format4-2-r17 Indicates whether the UE supports DCI format 4_2 with CRC scrambled with G-RNTI for multicast in RRC_CONNECTED. 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 in RRC_CONNECTED 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 in RRC_CONNECTED 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
dynamicWaveformSwitch-r18 Indicates whether the UE supports dynamic waveform switching for DCI format 0_1/0_2 when configured with only 1 UL carrier in the band. If UE supporting this feature also supports dci-Format1-2And0-2-r16, the UE supports this feature with DCI format 0_2.	Band	No	N/A	N/A
dynamicWaveformSwitchIntraCA-r18 Indicates whether the UE supports dynamic waveform switching for DCI format 0_1/0_2 for intra-band UL CA by indicating the maximum number of UL CCs to support in the band. A UE supporting this feature shall also indicate support of dynamicWaveformSwitch-r18.	Band	No	N/A	N/A
dynamicWaveformSwitchPHR-r18 Indicates whether the UE supports reporting of power headroom information for an assumed PUSCH using target waveform different from waveform of actual PUSCH. A UE supporting this feature shall also indicate support of dynamicWaveformSwitch-r18.	Band	No	N/A	N/A
NOTE: A UE can be configured to use either the single entry PHR with assumed PUSCH MAC CE or the multiple entry PHR with assumed PUSCH MAC CE for a cell group if the UE indicates support for this feature in any one cell of the cell group.				

enhancedChannelRaster-r18 Indicates whether the UE other than (e)RedCap UE supports the requirements for UE channel bandwidths located on the enhanced channel raster of a band as specified in TS 38.101-1 [2] and TS 38.101-5 [34]. Indicates whether the (e)RedCap UE supports the requirements for UE channel bandwidths located on the enhanced channel raster of a band as specified in TS 38.101-1 [2], clause 5.4I. It is mandatory with capability signalling for UEs other than (e)RedCap UE for certain bands (as defined in TS 38.101-1 [2] and TS 38.101-5 [34]) from Rel-18. It is mandatory with capability signalling for all (e)RedCap UEs for all bands supported by the UE. Otherwise, it is optional.	Band	CY	N/A	FR1 only
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]. 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 and all FDD-FR2 NTN 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]. 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 and all FDD-FR2 NTN 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 	Band	No	N/A	N/A
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 indicate support of oneShotHARQ-feedback-r16.				
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 and all FDD-FR2 NTN bands respectively. The interband Event A4 based conditional handover is supported only if the UE sets the capability value for the source PCell and the target PCell bands.	Band	No	N/A	N/A

eventA4BasedCondHandoverATG-r18 Indicates whether the UE supports Event A4 based conditional handover in ATG 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 bands as specified for ATG in clause 5.2J of TS 38.101-1 [2] and the support of airToGroundNetwork-r18. UE shall set the capability value consistently for all FDD bands and all TDD bands respectively as specified for ATG in clause 5.2J of TS 38.101-1 [2]. The interband Event A4 based conditional handover is supported only if the UE sets the capability value for the source PCell and the target PCell bands.	Band	No	N/A	FR1 only
eventA4BasedCondHandoverNES-r18 Indicates whether the UE supports Event A4 based conditional handover for NES, i.e., CondEvent A4 as specified in TS 38.331 [9]. A UE supporting this feature shall also indicate the support of nesBasedCondHandoverWithDCI-r18. UE shall set the capability value consistently for all FDD-FR1 bands, all TDD-FR2-1 bands and all TDD-FR2-2 bands respectively. The inter-band Event A4 based conditional handover for NES is supported only if the UE sets the capability value for the source PCell and the target PCell bands.	Band	No	N/A	N/A
extendedCP Indicates whether the UE supports 60 kHz subcarrier spacing with extended CP length for reception of PDCCH, and PDSCH, and transmission of PUCCH, PUSCH, and SRS.	Band	No	N/A	N/A
fastBeamSweepingMultiRx-r18 Indicates whether the UE supports beam sweeping factor reduction for SSB-based layer-1 measurement for activated serving cell when the UE is in multi-Rx operation. NOTE: It is only supported for power class 3.	Band	No	TDD only	FR2-1 only
groupBeamReporting Indicates whether UE supports RSRP reporting for the group of two reference signals.	Band	No	N/A	N/A
Indicates whether the UE supports grouped-based beam reporting for STx2P. This capability signalling comprises the following parameters: - groupL1-RSRP-Reporting-r18 indicates the supported group based L1-RSRP reporting for STx2P based transmission. - maxNumberBeamGroups-r18 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. - maxNumberResWithinSlotAcrossCC-r18 indicates the maximum number of SSB and CSI-RS resources for measurement in both CMR sets within a slot across all CCs in a band. - maxNumberResAcrossCC-r18 indicates the maximum number of configured SSB and CSI-RS resources for measurement in both CMR sets across all CCs in a band. A UE supporting this feature shall also indicate support of mTRP-GroupBasedL1-RSRP-r17. NOTE: maxNumberResWithinSlotAcrossCC-r18 and maxNumberResAcrossCC-r18 are also counted in maxTotalResourcesForOneFreqRange-r16, maxTotalResourcesForAcrossFreqRanges-r16, and mTRP-GroupBasedL1-RSRP-r17.	Band	No	N/A	FR2 only
groupSINR-reporting-r16 Indicates whether UE supports group based L1-SINR reporting. UE indicates support of this feature shall indicate support of ssb-csirs-SINR-measurement-r16.	Band	No	N/A	N/A
handoverUTRA-FDD-r16 Indicates whether the UE supports NR to UTRA-FDD CELL_DCH CS handover for the PCell on the band. It is mandatory to support both UTRA-FDD measurement and event B triggered reporting, and periodic UTRA-FDD measurement and reporting if the UE supports HO to UTRA-FDD. If this field is included, then UE shall support IMS voice over NR. UE shall set the capability value consistently for all FDD-FR1 bands, all TDD-FR1 bands, all TDD-FR2-2 bands respectively.	Band	No	N/A	N/A
interCellCrossTRP-PDCCH-OrderCFRA-r18 Indicates whether the UE supports cross-TRP PDCCH order based on CFRA for inter-cell multi-DCI based mTRP. A UE supporting this feature shall also indicate support of multiDCI-InterCellMultiTRP-TwoTA-r18.	Band	No	N/A	N/A

interSlotFreqHopInterSlotBundlingPUSCH-r17 Indicates whether the UE supports enhanced inter-slot frequency hopping with interslot bundling for PUSCH.	Band	No	N/A	N/A
UE indicating support of this feature shall also indicate support of at least one of dmrs-BundlingPUSCH-RepTypeA-r17, dmrs-BundlingPUSCH-RepTypeB-r17 or dmrs-BundlingPUSCH-multiSlot-r17.				
interSlotFreqHopPUCCH-r17 Indicates whether the UE supports enhanced inter-slot frequency hopping for PUCCH repetitions with DMRS bundling.	Band	No	N/A	N/A
UE indicating support of this feature shall also indicate support of <i>dmrs-BundlingPUCCH-Rep-r17</i> .				
IntraCellCrossTRP-PDCCH-OrderCFRA-r18 Indicates whether the UE supports cross-TRP PDCCH order based on CFRA for intra-cell multi-DCI based mTRP. A UE supporting this feature shall also indicate support of multiDCI-IntraCellMultiTRP-TwoTA-r18.	Band	No	N/A	N/A
intraSlot-PDSCH-MulticastInactive-r18 Indicates whether the UE supports TDM between one unicast PDSCH (e.g., small data transmission PDSCH) and one group-common PDSCH for multicast in a slot. This capability indicates, for any two consecutive slots n and n+1, if there are more than 1 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 multicast/unicast PDSCHs within the duration of these slots. A UE indicating support of this feature shall also indicate support of	Band	No	N/A	N/A
multicastInactive-r18 and any of ra-SDT-r17, ra-SDT-NTN-r17, cg-SDT-r17, mt-SDT-r18, mt-SDT-NTN-r18 or mt-CG-SDT-r18.				
jointConfigDMRSPortDynamicSwitching-r18 Indicates whether the UE supports joint configuration of DMRS ports and dynamic switching between DFT-S-OFDM and CP-OFDM for PUSCH. A UE supporting this feature shall also indicate the support of dmrs-TypeA-r18 or pusch-TypeB-DMRS-r18, and dynamicWaveformSwitch-r18.	Band	No	N/A	N/A
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
jointReleaseDCI-r18 Indicates whether the UE supports joint release in a DCI for two or more configured grant Type 2 configurations, including multi-PUSCH CG configuration(s), for a given BWP of a serving cell. A UE supporting this feature shall also indicate support of one of multiPUSCH-CG-r18 and multiPUSCH-ActiveConfiguredGrant-r18. NOTE: For the case of joint release in a DCI for two or more configured grant Type 2 configurations, including multi-PUSCH CG configuration(s), for a given BWP of a serving cell, the reporting of this feature applies, i.e.,	Band	No	N/A	N/A
ignore irrespective of <i>jointReleaseConfiguredGrantType2-r16</i> . If UE supports <i>jointReleaseConfiguredGrantType2-r16</i> but does not support this feature, the UE does not expect to be indicated for joint release including multi-PUSCH CG configuration(s).				
jointReleaseSPS-r16 Indicates whether the UE supports joint release in a DCI for two or more SPS configurations for a given BWP of a serving cell. The UE can include this feature only if the UE indicates support of sps-r16.	Band	No	N/A	N/A
k1-RangeExtension-r17 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 and Table 5.2.3-1 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

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 and all FDD-FR2 NTN bands respectively. The inter-band location based conditional handover is supported only if the UE sets the capability value for the source PCell and the target PCell bands.		No	N/A	N/A
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 bands as specified for ATG in clause 5.2J of TS 38.101-1 [2] and the support of airToGroundNetwork-r18. UE shall set the capability value consistently for all FDD bands and all TDD bands respectively as specified for ATG in clause 5.2J of TS 38.101-1 [2]. The inter-band location based conditional handover is supported only if the UE sets the capability value for the source PCell and the target PCell bands.	Band	No	N/A	FR1 only
Indicates whether the UE supports location based conditional handover for an NTN Earth-moving cell, i.e. condEventD2 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 and all FDD-FR2 NTN bands respectively. The inter-band location based conditional handover is supported only if the UE sets the capability value for the source PCell and the target PCell bands.		No	N/A	N/A
Indicates whether the UE supports lower maximum sensitivity degradation when the band is the victim band with sensitivity degradation as specified in TS 38.101-1 clause 7.3A.7 [2] and TS 38.101-3 clause 7.3B.2.3.7 [4]. The victim band and associated aggressor band(s) are within at least one of inter-band CA or EN-DC band combinations supported by the UE. The lower maximum sensitivity degradation for the UE is applicable to all supported band combinations that include the victim and associated aggressor band(s). The lower MSD requirements apply to the victim and aggressor band(s) jointly, i.e. if lowerMSD-r18 (or lowerMSD-ENDC-r18) is indicated with two aggressor bands, it does not apply to band pairs consisting of the victim band and only one of the aggressor bands. This feature includes following parameters: - aggressorband1-r18 indicates the aggressor band which causes sensitivity degradation to the victim band. It is an NR band for inter-band CA band combination and LTE band for EN-DC band combination. - aggressorband2-r18 indicates the additional aggressor band only when the sensitivity degradation to the victim band is caused by IMD of another two bands, i.e. aggressorband1-r18 and aggressorband2-r18 together (i.e. if aggressorband2-r18 indicates the MSD type, including harmonic, harmonic mixing, cross band isolation, IMD2, IMD3, IMD4, IMD5 and 'all'. Value 'all' indicates the MSD capability class is applicable for all MSD types defined in this release, which are applicable to the associated victim band/aggressor band(s). - msd-PowerClass-r18 indicates the applicable power class applied for the aggressor band(s) of the CA configuration for the lower MSD capability class reported in msd-Class-r18. - msd-Class-r18 indicates the lower MSD capability class as specified in 7.3A.7 in TS 38.101-1 [2] and in 7.3B.2.3.7 in TS 38.101-3 [4]. The victim band and aggressor band(s) only consist of the bands requested by the network in frequencyBandListFilter.		No	N/A	FR1 only
IowPAPR-DMRS-PDSCH-r16	Band	No	N/A	N/A
Indicates whether the UE supports low PAPR DMRS for PDSCH. IowPAPR-DMRS-PUCCH-r16 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.	Band	Yes	N/A	N/A
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	Band	Yes	N/A	N/A
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.				
UE indicates support of this feature shall indicate support of <i>pusch-HalfPi-BPSK</i> . Itm-BeamIndicationJointTCI-r18	Band	No	N/A	N/A
Indicates whether the UE supports unified TCI with joint DL/UL LTM TCI-state	Danu	INO	IN/A	IN/A
indicates whether the OE supports driftled FOF with Joint DEFOE ETW FOF state				
in a cell switch command.				
This capability comprises the following parameters:				
- maxNumberJointTCI-PerCell-r18 indicates the maximum number of				
configured joint LTM TCI state(s) per candidate cell				
- qcl-Resource-r18 indicates of the supported QCL source RS in the LTM TCI-				
state- configuration.				
- maxNumberJointTCI-AcrossCells-r18 indicates index N of the maximum				
number of configured joint DL LTM TCI state(s) across candidate cells. The				
maximum number of configured joint LTM TCI state(s) across candidate cells				
is <i>N</i> *8, where <i>N</i> ={1128}. - <i>maxNumberCells-r18</i> indicates the maximum number of configured cells for				
joint LTM TCI state(s).				
joint 2111 101 state(e).				
A UE supporting this feature shall also indicate support of <i>unifiedJointTCI-r17</i> and at				
least one of Itm-MCG-IntraFreq-r18 or Itm-SCG-IntraFreq-r18.				
For cross-band operation, this capability refers to the source band.				
Itm-BeamIndicationSeparateTCI-r18	Band	No	N/A	N/A
Indicates whether the UE supports unified TCI with separate DL/UL TCI-state				
indication for LTM procedure and indicating/activating a pair of UL/DL TCI-state in a cell switch command.				
This capability comprises the following parameters:				
- maxNumberDL-TCI-PerCell-r18 indicates the maximum number of				
configured DL TCI state(s) per candidate cell.				
- maxNumberUL-TCI-PerCell-r18 indicates the maximum number of				
configured UL TCI state(s) per candidate cell.				
- qcl-Resource-r18 indicates the supported QCL source RS in the LTM TCI-				
state configuration.				
- maxNumberDL-TCI-AcrossCells-r18 indicates value N of the maximum				
number of configured separate DL LTM TCI state(s) across candidate cells. The maximum number of configured separate DL LTM TCI state(s) across				
candidate cells is N^*8 , where $N=\{1128\}$.				
- maxNumberUL-TCI-AcrossCells-r18 indicates value N of the maximum				
number of configured separate UL LTM TCI state(s) across candidate cells.				
The maximum number of configured separate UL LTM TCI state(s) across				
candidate cells is $N*8$, where $N=\{164\}$.				
 maxNumberCells-r18indicates the maximum number of configured cells for 				
separate DL/UL LTM TCI states				
A UE supporting this feature shall also indicate support of <i>unifiedSeparateTCI-r17</i>				
and at least one of <i>ltm-MCG-IntraFreq-r18</i> or <i>ltm-SCG-IntraFreq-r18</i> .				
For cross-band operation, this capability refers to the source band.				
Itm-FastProcessingConfig-r18	Band	No	N/A	N/A
Indicates whether the UE supports fast processing of LTM candidate cell RRC				
configuration. This capability signalling comprises the following parameters:				
- maxNumberStoredConfigCells-r18 indicates the maximum number of				
serving cell(s) and candidate cell(s), including serving SpCell(s), serving				
SCell(s) in MCG and SCG, SpCell in LTM candidate configurations and Scell(s) in LTM candidate configurations for MCG and SCG, that UE can				
store the configurations.				
- maxNumberConfigs-r18 represents the maximum number of LTM candidate				
configuration for which the UE can perform early ASN.1 decoding and				
validity check, as described in TS 38.133 [5].				
UE shall set the capability values for maxNumberStoredConfigCells-r18 and				
maxNumberConfigs-r18 consistently for all bands. These capability values				
represent the maximum number across all the supported bands.				
NOTE: The conditions for fast processing of an LTM candidate cell RRC				
configuration is defined in clause 6.3 in TS 38.133 [5].				

Itm-MAC-CE-JointTCI-r18	Band	No	N/A	N/A
Indicates whether the UE supports MAC-CE activated joint LTM TCI states.				
This capability comprises the following parameters:				
- qcl-Resource-r18 indicates the supported QCL source RS for MAC-CE				
activated joint LTM TCI states configuration.				
- maxNumberJointTCI-PerCell-r18 indicates the maximum number of MAC-CE				
activated joint LTM TCI states per candidate cell.				
- maxNumberJointTCI-AcrossCells-r18 indicates the maximum number of				
MAC-CE activated joint LTM TCI states across candidate cells and serving cell TCI states across serving cells in the band.				
Cell 101 states across serving cells in the band.				
A UE supporting this feature shall also indicate support of <i>ltm</i> -				
BeamIndicationJointTCI-r18.				
NOTE: The maximum number of MAC-CE activated joint TCI states across all				
servings cells is limited by of <i>unifiedJointTCI-r17</i> .				
For cross-band operation, this capability refers to the source band.				
Itm-MAC-CE-SeparateTCI-r18	Band	No	N/A	N/A
Indicates whether the UE supports MAC-CE activated DL/UL LTM TCI states.				
This capability comprises the following parameters:				
 qcl-Resource-r18 indicates the supported QCL source RS for MAC-CE 				
activated DL/UL LTM TCI states configuration.				
- maxNumberDL-TCI-PerCell-r18 indicates the maximum number of MAC-CE				
activated DL TCI states per candidate cell.				
- maxNumberUL-TCI-PerCell-r18 indicates the maximum number of MAC-CE				
activated UL TCI states per candidate cell.				
- maxNumberDL-TCI-AcrossCells-r18 indicates the maximum number of				
MAC-CE activated LTM DL TCI states across all candidate cells and serving cell DL TCI states across all serving cells.				
- maxNumberUL-TCI-AcrossCells-r18 indicates the maximum number of				
MAC-CE activated LTM UL TCI states across all candidate cells and serving				
cell UL TCI states across all serving cells in the band.				
Son SE Toronalise derese an sorving sone in the sand.				
A UE supporting this feature shall also indicate support of <i>ltm</i> -				
BeamIndicationSeparateTCI-r18.				
The maximum number of MAC-CE activated DL/UL TCI states across all servings				
cells is limited by <i>unifiedSeparateTCI-r17</i> .				
For cross-band operation, this capability refers to the source band.	Donal	Nia	NI/A	NI/A
Itm-MCG-IntraFreq-r18	Band	No	N/A	N/A
Indicates whether the UE supports intra-frequency LTM for MCG with RACH as defined in TS 38.331 [9] and TS 38.321 [8] without NR-DC configured. UE shall set				
the capability value consistently for all FDD-FR1 bands, all TDD-FR1 bands, all				
TDD-FR2-1 bands and all TDD-FR2-2 bands respectively.				
UE supporting this feature shall also indicate support for <i>ltm</i> -				
BeamIndicationJointTCI-r18 or Itm-BeamIndicationSeparateTCI-r18.				
Itm-SCG-IntraFreq-r18	Band	No	N/A	N/A
Indicates whether the UE supports intra-frequency LTM for SCG with RACH as			' " '	,
defined in TS 38.331 [9] and 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.				
UE supporting this feature shall also indicate support for <i>ltm</i> -				
BeamIndicationJointTCI-r18 or Itm-BeamIndicationSeparateTCI-r18.				
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 DC hundling is only applied to the transmissions with 1/2 PDC/				
NOTE: DM-RS bundling is only applicable for UL transmissions with pi/2 BPSK,				
BPSK, and QPSK modulation orders for the corresponding physical channels.				
GIAIIIEIS.	1			

maxDynamicSlotRepetitionForSPS-Multicast-r17 Indicates maximum number of dynamic slot-level repetitions for SPS group-common PDSCH for multicast. For TN, the UE shall set the capability value consistently for all FDD-FR1 bands, all TDD-FR1 bands and all TDD-FR2 bands, associated with supported shared and non-shared spectrum respectively. For NTN, UE shall set the capability value consistently for all FDD-FR1 NTN bands and all FDD-FR2 NTN bands respectively.	Band	No	N/A	N/A
A UE that indicates support of this feature shall indicate support of <i>sps-Multicast-r17</i> .				
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 16 for DL, value u32d32 indicates the maximal supported HARQ process number is 32 for UL and 32 for DL. This field is only applicable for bands in Table 5.2.2-1 in TS 38.101-5 [34] and HAPS operation bands in clause 5.2 of TS 38.104 [35].	Band	No	N/A	N/A
 maxMIMO-LayersForMulti-DCI-mTRP-r16 Indicates the interpretation of maxNumberMIMO-LayersPDSCH for multi-DCI based mTRP. If this field is included, maxNumberMIMO-LayersPDSCH is interpreted as the maximum number of layers per PDSCH for multi-DCI multi-TRP operation. If this field is not included, maxNumberMIMO-LayersPDSCH is interpreted as the maximum number of layers across two PDSCHs if having at least one RE overlapped, for multi-DCI multi-TRP operation. The UE that indicates support of this feature shall support overlapPDSCHsFullyFreqTime-r16. 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. 	Band	No	N/A	N/A
 maxModulationOrderForMulticast-r17 Defines the maximal modulation order for multicast PDSCH in RRC_CONNECTED. If not reported, UE supports the same modulation order as unicast. For FR1, up to 1024QAM is supported. For FR2, up to 256QAM is supported. A UE supporting this feature shall also indicate support of dynamicMulticastPCell-r17. 	Band	No	N/A	N/A
NOTE: A UE shall support the corresponding mandatory maximum modulation for unicast. maxNumberActivatedTCI-States-r16 Indicates maximum number of activated TCI states. This capability signalling includes the following:	Band	No	N/A	N/A
 maxNumberPerCORESET-Pool-r16 indicates maximal number of activated TCI states per CORESETPoolIndex per BWP per CC including data and control maxTotalNumberAcrossCORESET-Pool-r16 indicates maximal total number of activated TCI states across CORESETPoolIndex per BWP per CC including data and control 				
The UE that indicates support of this feature shall support <i>multiDCI-MultiTRP-r16</i> . <i>maxNumberCSI-RS-BFD</i> 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	СУ	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 and all FDD-FR2 NTN bands respectively.	Band	No	N/A	N/A
A UE supporting this feature shall also indicate support of sps-Multicast-r17. maxNumberG-RNTI-r17 Defines maximum number of G-RNTIs for multicast in RRC_CONNECTED. 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 and all FDD-FR2 NTN bands respectively. A UE supporting this feature shall also indicate support of dynamicMulticastPCell-r17. For the UE indicating support of multicastInactive-r18, this capability is also applicable to multicast reception in RRC_INACTIVE, as specified in TS 38.331 [9].	Band	No	N/A	N/A
maxNumber-NGSO-SatellitesPerCarrier-r17 Indicates the number of target NGSO satellites the UE can monitor per carrier. For serving carrier, the number of target NGSO satellites also includes the serving satellite. If this field is not included, the number of target satellites UE can monitor per carrier is 2. The value shall be larger than or equal to the reported value on maxNumber-NGSO-SatellitesWithinOneSMTC-r17.	Band	No	FDD only	FR1 only
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
maxNumberNonGroupBeamReporting Defines support of non-group based RSRP reporting using N_max RSRP values reported.	Band	Yes	N/A	N/A
 maxNumberPUSCH-TypeA-Repetition-r17 Indicates whether the UE supports the increased maximum number of PUSCH Type A repetitions to 32. A UE that indicates support of this feature shall support type1-PUSCH-RepetitionMultiSlots, type2-PUSCH-RepetitionMultiSlots, pusch-RepetitionTypeA-r16 or pusch-RepetitionTypeA-v16c0. NOTE: For DG PUSCH, the number of repetitions is indicated in a TDRA list. A row index of the TDRA list is indicated by a DCI. For Type 1 CG PUSCH, the number of repetitions is indicated by repK-v1710. For Type 2 CG PUSCH, the number of repetitions is indicated in a TDRA list or by repK-v1710. 	Band	No	N/A	N/A
maxNumberRxBeam, maxNumberRxBeam-v1720 Defines whether UE supports receive beamforming switching using NZP CSI-RS resource. UE shall indicate a single value for the preferred number of NZP CSI-RS resource repetitions per CSI-RS resource set. Support of Rx beam switching is mandatory for FR2.	Band	CY	N/A	N/A
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
maxOutputPowerATG-r18 Indicates the maximum output power rating at maximum modulation order and full RB allocation as specified in clause 6.2J of TS 38.101-1 [2]. Value 1 indicates 23dBm, value 2 indicates 24dBm and so on. If present, the ue-PowerClass is not included, and default UE power class is not applicable. The UE indicating support of this feature shall also indicate support of airToGroundNetwork-r18. This field is only applicable for bands as specified for ATG in clause 5.2J of TS 38.101-1 [2].	Band	CY	N/A	FR1 only
 maxPeriodicityCMR-r18 Indicates the maximum periodicity of periodic CSI-RS (in slots) UE can handle for Type-II-Doppler CSI report. The UE supporting this feature shall also indicate support of at least one of eType2Doppler-r18 and feType2Doppler-r18. NOTE: A UE that supports at least one of eType2Doppler-r18 and feType2Doppler-r18 must signal this feature. 	Band	CY	N/A	N/A
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 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 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 maxUplinkDutyCycle-PC2-FR1 are both absent, 25% shall be applied as the upper limit of the UL duty cycle for power class 1.5.	Band	No	N/A	FR1 only
measEnhCAInterFreqFR2-r18 Indicates whether the UE supports the RRM requirement for intra-band CA operation in connected mode to support FR2 high speed up to 350 km/h, as specified in TS 38.133 [5] and the RRM requirement for enhanced inter-frequency measurements in connected mode to support FR2 high speed up to 350 km/h, as specified in TS 38.133 [5]. A UE supporting this feature shall also indicate support of PC6 in ue-PowerClass-v1700.	Band	No	N/A	FR2 only

V.II.I.I. BIEND 40			N1/A	N1/A
meas Validation Report EMR-r18	Band	No	N/A	N/A
Indicates whether the UE supports measurement validation and report based on				
EMR measurement during connection setup/resume for fast CA/DC setup. 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.				
A UE supporting this feature shall also indicate support of <i>idleInactiveNR</i> -				
MeasReport-r16 or idleInactiveEUTRA-MeasReport-r16.				
measValidationReportReselectionMeasurements-r18	Band	No	N/A	N/A
Indicates whether the UE supports measurement validation based on reselection	Danu	INO	IN/A	IN/A
measurements during IDLE/INACTIVE state and reporting for fast CA/DC setup. 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	NI/A
mixCodeBookSpatialAdaptation-r18 Indicates whether the UE supports active CSI-RS resources and ports for mixed	Danu	INO	IN/A	N/A
codebook types in any slot. The following codebook combination is a possible				
mixed codebook combination {Type 1 Single Panel, Type 1 Multi Panel, Null } for				
UE supporting CSI feedback based on CSI report sub-configuration(s), each				
containing one port subset configuration.				
A UE supporting this feature shall also indicate support of spatialAdaptation-CSI-				
Feedback-r18, or spatialAdaptation-CSI-FeedbackPUSCH-r18, or				
spatialAdaptation-CSI-FeedbackPUCCH-r18, or spatialAdaptation-CSI-				
FeedbackAperiodic-r18.				
The UE supporting this feature shall indicate the support of				
codebookComboParametersAddition-r16 and the support of multi-panel operation.				
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/A
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],	Dania	110	IN/A	IN/A
TS 38.101-2 [3], and TS 38.101-5 [34].				
mpe-Mitigation-r17	Band	No	N/A	FR2
Indicates the support of enhanced PHR reporting which includes pairs of (P-MPR,	Dana	''	1 177	only
SSBRI/CRI).				0y
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.				
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].				
mt-CG-SDT-r18	Band	No	N/A	N/A
Indicates whether the UE supports initiating MT-SDT procedure over configured				
grant type 1, 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	1			
		1	1	
consistently for all FDD-FR1 NTN bands and all FDD-FR2 NTN bands respectively.				
consistently for all FDD-FR1 NTN bands and all FDD-FR2 NTN bands respectively. Except for NTN, a UE supporting this feature shall also support <i>mt-SDT-r18</i> . For				
consistently for all FDD-FR1 NTN bands and all FDD-FR2 NTN bands respectively. Except for NTN, a UE supporting this feature shall also support <i>mt-SDT-r18</i> . For NTN, a UE supporting this feature shall also support <i>mt-SDT-NTN-r18</i> .				
consistently for all FDD-FR1 NTN bands and all FDD-FR2 NTN bands respectively. Except for NTN, a UE supporting this feature shall also support <i>mt-SDT-r18</i> . For NTN, a UE supporting this feature shall also support <i>mt-SDT-NTN-r18</i> . <i>mTRP-BFD-RS-MAC-CE-r17</i>	Band	No	N/A	N/A
consistently for all FDD-FR1 NTN bands and all FDD-FR2 NTN bands respectively. Except for NTN, a UE supporting this feature shall also support <i>mt-SDT-r18</i> . For NTN, a UE supporting this feature shall also support <i>mt-SDT-NTN-r18</i> . <i>mTRP-BFD-RS-MAC-CE-r17</i> Indicates the support of MAC-CE based update of explicit BFD-RS for mTRP BFR	Band	No	N/A	N/A
consistently for all FDD-FR1 NTN bands and all FDD-FR2 NTN bands respectively. Except for NTN, a UE supporting this feature shall also support <i>mt-SDT-r18</i> . For NTN, a UE supporting this feature shall also support <i>mt-SDT-NTN-r18</i> . **mTRP-BFD-RS-MAC-CE-r17** 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	Band	No	N/A	N/A
consistently for all FDD-FR1 NTN bands and all FDD-FR2 NTN bands respectively. Except for NTN, a UE supporting this feature shall also support <i>mt-SDT-r18</i> . For NTN, a UE supporting this feature shall also support <i>mt-SDT-NTN-r18</i> . **mTRP-BFD-RS-MAC-CE-r17** 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.	Band	No	N/A	N/A
consistently for all FDD-FR1 NTN bands and all FDD-FR2 NTN bands respectively. Except for NTN, a UE supporting this feature shall also support <i>mt-SDT-r18</i> . For NTN, a UE supporting this feature shall also support <i>mt-SDT-NTN-r18</i> . **mTRP-BFD-RS-MAC-CE-r17** 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	Band	No	N/A	N/A

mTRP-BFR-association-PUCCH-SR-r17 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 mTRP-BFR-PUCCH-SR-perCG-r17. 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
mTRP-BFR-PUCCH-SR-perCG-r17 Indicates the maximum number of supported PUCCH-SR resources for MTRP BFR per cell group. A UE that supports mTRP-BFR-twoBFD-RS-Set-r17 shall indicate support of this feature with at least 1 PUCCH-SR resources for MTRP BFR per cell group. UE shall set the capability value consistently for all FDD-FR1 bands, all TDD-FR1	Band	No	N/A	N/A
bands, all TDD-FR2-1 bands and all TDD-FR2-2 bands respectively. 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. - 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.	Band	No	N/A	N/A
mTRP-CSI-additionalCSI-r17 Indicates the maximum value of numberOfSingleTRP-CSI-Mode1. The UE indicating support of this feature shall also indicate 'mode1' or 'both' in cSI-Report-mode-r17 of mTRP-CSI-EnhancementPerBand-r17.	Band	No	N/A	N/A
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-CSI-EnhancementPerBand-r17.	Band	No	N/A	FR2 only
 mTRP-CSI-EnhancementPerBand-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. 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:	Band	No	N/A	N/A
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-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-</i>				
ReportFramework.				
The UE indicating support of this feature shall also indicate the support of <i>mTRP</i> -				
CSI-EnhancementPerBand-r17.	D 1		N1/A	N1/A
mTRP-GroupBasedL1-RSRP-r17	Band	No	N/A	N/A
Indicates the support of group based L1-RSRP reporting enhancements.				
This feature also includes following parameters:				
- maxNumBeamGroups-r17 indicates the maximum number N of beam				
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.				
mTRP-inter-Cell-r17	Band	No	N/A	N/A
Indicates the support of RRC configuration of additional PCI different from serving	Danu	INO	IN/A	IN/A
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 <i>multiDCI</i> -				
MultiTRP-r16.				
mTRP-PDCCH-anySpan-3Symbols-r17	Band	No	N/A	FR1
Indicates support of PDCCH repetition for PDCCH monitoring on any span of up to				only
3 consecutive OFDM symbols of a slot. It is applicable to 15kHz SCS only.				
The UE indicating support of this feature shall also indicate support of				
pdcchMonitoringSingleOccasion and mTRP-PDCCH-Repetition-r17.				
mTRP-PDCCH-individual-r17	Band	No	N/A	N/A
Indicates the support of monitoring of individual candidates when one of the linked				
PDCCH candidates uses the same set of CCEs as an individual (unlinked) PDCCH				
candidate, and they both are associated with the same DCI size, scrambling, and				
CORESET.				
-				
The UE indicating support of this feature shall also indicate support of <i>mTRP</i> -				
PDCCH-Repetition-r17.	_			
mTRP-PDCCH-TwoQCL-TypeD-r17	Band	No	N/A	FR2
Indicates the support of determining two QCL-TypeD for time-domain overlapping				only
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.				
mTRP-PUCCH-CyclicMapping-r17	Band	No	N/A	N/A
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.	1			

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-MAC-CE-r17	Band	No	N/A	N/A
Indicates the support of updating two Spatial Relation Info's and two sets of power	Danu	INO	IN/A	IN/A
control parameters for a group of PUCCH resources in a CC by MAC-CE.				
TI LIE: II				
The UE indicates support of this feature shall also indicate support of mTRP-PUCCH-InterSlot-r17.				
mTRP-PUCCH-maxNum-PC-FR1-r17	Band	No	N/A	FR1
Indicates the maximum number of power control parameter sets configured for				only
multi-TRP PUCCH repetition in FR1.				
The UE indicating support of this feature shall also indicate the support of <i>mTRP</i> -				
PUCCH-InterSlot-r17.				
mTRP-PUCCH-SecondTPC-r17	Band	No	N/A	N/A
Indicates whether the UE supports second TPC field for per TRP closed-loop power				
control for PUCCH with DCl formats 1_1 / 1_2.				
The UE that indicates support of this feature shall also indicate support of <i>mTRP-PUCCH-InterSlot-r17</i> .				
mTRP-PUSCH-A-CSI-r17	Band	No	N/A	N/A
Indicates the support of A-CSI report on two PUSCH repetitions.			,	,
The UE indicating support of this feature shall also indicate the support of <i>mTRP-PUSCH-TypeA-CB-r17</i>				
or mTRP-PUSCH-RepetitionTypeA-r17.				
mTRP-PUSCH-CG-r17	Band	No	N/A	N/A
Indicates the support of CG PUSCH transmission towards M-TRPs using a single				
CG configuration. The UE uses same beam mapping principals as dynamic grant				
PUSCH repetition scheme.				
The UE indicating support of this feature shall also indicate the support of mTRP-				
PUSCH-TypeA-CB-r17				
or mTRP-PUSCH-RepetitionTypeA-r17. mTRP-PUSCH-CSI-RS-r17	Dond	Na	N/A	N/A
Indicates the support of CSI-RS processing framework for SRS with two associated	Band	No	IN/A	IN/A
CSI-RS resources.				
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.				
ominimization of the second of				
The UE indicating support of this feature shall also indicate the support of mTRP-				
PUSCH-twoCSI-RS-r17.	<u> </u>	N :	N1/A	B 1 / A
mTRP-PUSCH-cyclicMapping-r17 Indicates the support of cyclic mapping when the number of repetitions is larger	Band	No	N/A	N/A
than 2 with repetition type.				
The UE indicating support of this feature shall also indicate the support of <i>mTRP</i> -				
PUSCH-TypeA-CB-r17 or mTRP-PUSCH-RepetitionTypeA-r17.				
огинтки з обонзкорошионтуродзетт.				<u> </u>

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-SP-CSI-r17	Band	No	N/A	N/A
Indicates the support of SP-CSI report on two PUSCH repetitions.				
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-repetitionTypeA-T7.	Dond	No	N/A	N/A
	Band	No	IN/A	IN/A
Indicates whether the UE supports up to two NZP CSI-RS resources associated with the two SRS resource sets for non-codebook-based mTRP PUSCH.				
The UE that indicates support of this feature shall also indicate support of <i>srs</i> -				
AssocCSI-RS, csi-RS-IM-ReceptionForFeedbackPerBandComb and mTRP-				
PUSCH-RepetitionTypeA-r17.				
mTRP-PUSCH-twoPHR-Reporting-r17	Band	No	N/A	N/A
Indicates the support of PHR reporting related to M-TRP PUSCH repetition	Dania	'10	'*/^	17/7
(calculate two PHRs (at least corresponding to the CC that applies m-TRP PUSCH				
repetitions), each associated with a first PUSCH occasion corresponding to each				
SRS resource set, and report two PHRs).				
The UE indicating support of this feature shall also indicate the support of <i>mTRP</i> -				
PUSCH-TypeA-CB-r17 or mTRP-PUSCH-RepetitionTypeA-r17.				
multicastlnactive-r18	Band	No	N/A	N/A
Indicates whether the UE supports multicast reception in RRC_INACTIVE as			,	,
specified in TS 38.331 [9], comprised of the following functional components:				
- Supports group-common PDCCH/PDSCH for multicast with CRC scrambled				
by Multicast MCCH-RNTI;				
- Supports group-common PDCCH/PDSCH for multicast with CRC scrambled				
by G-RNTI;				
 Supports DCI format 4_0 with CRC scrambled with Multicast MCCH-RNTI 				
for multicast MCCH;				
 Supports DCI format 4_1 with CRC scrambled with G-RNTI for multicast MTCH; 				
- Supports multicast MCCH change notification indication via DCI;				
- Supports CFR configuration for multicast;				
- Supports CORESET and common search space configuration for multicast;				
- Supports one G-RNTI for multicast reception;				
- Supports RRC configured slot-level repetition up to 8 for multicast MTCH;				
- Supports inter-slot TDM between group-common PDSCH for multicast				
MCCH and group-common PDSCH for multicast MTCH, or among group- common PDSCH for multicast MCCH, group-common PDSCH for multicast				
MTCH and other PDSCHs in different slots;				
- Supports up to 64QAM for FR1/FR2;				
- Supports 12-bit length of PDCP sequence number;				
- Supports ROHC profiles 0x0000, 0x0001 and 0x0002;				
- Supports 4 ROHC header compression context sessions;				
- Supports UM MRB with 12-bit length of RLC sequence number;				
- Supports UM MRB with 6-bit length of RLC sequence number;				
- Supports long DRX cycle for MBS multicast reception as specified in TS				
38.321 [8].				
•				
A UE supporting this feature shall also indicate support of <i>dynamicMulticastPCell</i> -				
r17. A UE supporting this feature and supporting Mission Critical Services as				
described in clause 5.16.6 in TS 23.501 [37] shall also indicate the support of				
thresholdBasedMulticastResume-r18.				
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/FR2-NTN and HARQ enhancements for both				
type 1 and type 2 HARQ codebook.				
type i and type 2 in the dedebook.				

multipleRateMatchingEUTRA-CRS-r16 Indicates whether the UE supports multiple E-UTRA CRS rate matching patterns, which is supported only for FR1. The capability signalling comprises the following parameters:	Band	No	N/A	FR1 only
 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 Indicates whether UE supports more than one TCI state configurations per CORESET. UE is only required to track one active TCI state per CORESET. UE is required to support minimum between 64 and number of configured TCI states indicated by tci-StatePDSCH. This field shall be set to supported.	Band	Yes	N/A	N/A
multiPUCCH-HARQ-ACK-ForMulticastUnicast-r17 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.	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 and all FDD-FR2 NTN bands respectively.				
A UE supporting this feature shall also indicate support of <i>priorityIndicatorInDCI-Multicast-r17</i> and <i>twoHARQ-ACK-CodebookForUnicastAndMulticast-r17</i> .				

 multiPUSCH-ActiveConfiguredGrant-r18 Indicates whether the UE supports multiple active multi-PUSCHs configured grant configurations for a BWP of a serving cell. This feature also includes following parameters: maxNumberConfigsPerBWP indicates the supported maximum number of configured/active configured grant configurations in a BWP of a serving cell. maxNumberConfigsAllCC-FR1 indicates the supported maximum number of configured/active configured grant configurations across all serving cells, and across MCG and SCG in case of NR-DC in FR1. maxNumberConfigsAllCC-FR2 indicates the supported maximum number of configured/active configured grant configurations across all serving cells, and across MCG and SCG in case of NR-DC in FR2. 	Band	No	N/A	N/A
A UE supporting this feature shall also indicate support of multiPUSCH-CG-r18.				
When UE supports both activeConfiguredGrant-r16 and multiPUSCH-ActiveConfiguredGrant-r18, the total number which can be configured for CG with single-PUSCH TO in one CG period and CG with multi-PUSCH TO in one CG period should not exceed the value reported by activeConfiguredGrant-r16.				
For all the reported bands in FR1, a same value is reported for maxNumberConfigsAllCC. For all the reported bands in FR2, a same value is reported for maxNumberConfigsAllCC.				
The total number of configured/active configured grant configurations across all serving cells in FR1 is no greater than maxNumberConfigsAllCC in FR1.				
The total number of configured/active configured grant configurations across all serving cells in FR2 is no greater than maxNumberConfigsAllCC in FR2.				
If there are 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(maxNumberConfigsAllCC-FR1, maxNumberConfigsAllCC-FR2).				
NOTE: Separate release of different multi-PUSCHs configuration grant Type 2 configuration, i.e., one DCI release one multi-PUSCHs configured grant Type 2 configuration is supported with this feature.				
multiPUSCH-CG-r18	Band	No	N/A	N/A
Indicates whether the UE supports multi-PUSCHs for configured grant by indicating whether the UE supports the determination of time-domain resource allocation for CG-PUSCHs associated to a multi-PUSCHs CG and also the maximum supported number of consecutive slots configured for CG-PUSCH TOs in one CG period. This feature also includes following parameters: - n16 indicates the maximum supported number of consecutive slots configured for CG-PUSCH TOs in one CG period is 16. - n32 indicates the maximum supported number of consecutive slots configured for CG-PUSCH TOs in one CG period is 32. A UE supporting this feature shall also indicate support of at least one of configuredUL-GrantType1, configuredUL-GrantType1-v1650, configuredUL-GrantType2, and configuredUL-GrantType2-v1650.				
multiPUSCH-SingleDCI-FR2-1-SCS-120kHz-r17	Band	No	N/A	N/A
Indicates whether the UE supports multi-PUSCH scheduling by single DCI for the				
operation with 120kHz SCS in FR2-1/FR2-NTN with non-contiguous allocation. multiPUSCH-SingleDCI-NonConsSlots-r18	Band	No	N/A	FR1
Indicates support of Multi-PUSCH scheduling by single DCI format 0_1 for the			.,,,,	only
operation with non-contiguous allocation. A UE supporting this feature shall also indicate support of <i>multiPUSCH-UL-grant-</i>				
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			1	
 mux-HARQ-ACK-DiffPriorities-r17 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 	Band	No	N/A	N/A
twoHARQ-ACK-Codebook-type1-r16. nack-OnlyFeedbackForMulticastWithDCI-Enabler-r17 Indicates whether the UE supports DCI-based enabling/disabling NACK-only 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 nack-OnlyFeedbackForMulticast-r17 and dynamicMulticastDCI-Format4-2-r17.	Band	No	N/A	N/A
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 UE that indicates support of this feature shall indicate support of nack-OnlyFeedbackForSPS-Multicast-r17 and sps-MulticastDCI-Format4-2-r17.				
Indicates whether the UE supports RLM/BM/BFD and gapless L3 intra-frequency measurements based on NCD-SSB within active BWP. For the UE that is capable of this feature, the bandwidth of UE-specific RRC configured BWP need not include bandwidth of the CORESET#0 (if CORESET#0 is present) and CD-SSB for PCell; the bandwidth of UE-specific RRC configured BWP need not include bandwidth of the CORESET#0 (if CORESET#0 is present) and SSB indicated by absoluteFrequencySSB (either CD-SSB or NCD-SSB) for PSCell (if configured). NCD-SSB within the active DL BWP can be used as the QCL source for other reference signal. UE performs L3 intra-frequency measurements without gaps based on NCD-SSB, where the NCD-SSB is within the active DL BWP. NOTE: This feature applies only to PCell and PSCell (if configured). It is not applicable to RedCap or eRedCap UEs.	Band	No	N/A	N/A
	Rand	No	N/A	N/A
nesBasedCondHandoverWithDCI-r18 Indicates whether the UE supports DCI-based enabling/disabling NES-specific CHO execution condition, i.e. NES-specific CHO execution condition based on source cell NES mode indicated via DCI format 2_9 as specified in TS 38.331 [9]. A UE supporting this feature shall also indicate the support of condHandover-r16. UE shall set the capability value consistently for all FDD-FR1 bands, all TDD-FR2-1 bands and all TDD-FR2-2 bands respectively.	Band	No		
nes-CellDTX-DRX-r18 Indicates whether the UE supports cell DTX and/or DRX operation by RRC configuration. The supported number of cell DTX/DRX patterns per cell group is 2, regardless of each pattern is for cell DTX only, cell DRX only, or both. A UE setting this field to the value 'cellDTXonly' or 'both' shall also indicate support of longDRX-Cycle.	Band	No	N/A	N/A
nes-CellDTX-DRX-DCl2-9-r18 Indicates whether the UE supports cell DTX/DRX configuration activation and deactivation via DCl 2_9. A UE supporting this feature shall also indicate support of nes-CellDTX-DRX-r18.	Band	No	N/A	N/A
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

Indicates whether the UE supports reception of NR PDCCH candidates that overlap with LTE CRS REs within an NR carrier using 15 kHz SCS. The UE is provided with LTE CRS RM pattern by configuration of one CRS rate matching pattern via Ite-CRS-ToMatchAround. NR PDCCH that overlaps with LTE CRS REs is in Type-1 CSS with dedicated RRC configuration, Type-3 CSS, and/or USS that are monitored within the first 3 OFDM symbols of a slot. The capability signaling comprises the following parameters:	Band	No	N/A	FR1 only
 overlapInRE-r18 indicates reception of an NR PDCCH candidate in REs that overlap with LTE CRS: Value oneSymbolNoOverlap indicates when at least one symbol of the NR PDCCH candidate and the DMRS for demodulation of the NR PDCCH candidate is not overlapped with LTE CRS, value someOrAllSymOverlap indicates when some or all of symbols of NR PDCCH candidate overlap with LTE CRS; 				
 overlapInSymbol-r18 indicates reception of NR PDCCH candidates that overlap with LTE CRS REs on the X-th symbols of an NR slot: Value symbol2 indicates only 2nd symbol, value symbol1And2 indicates 1st and 2nd symbols. 				
A UE supporting this feature shall also indicate support of rateMatchingLTE-CRS.				
NOTE: This feature is supported by UE performing channel estimation with a regular Rel-15 DMRS pattern in frequency dimension, i.e., no change to UE assumption on PDCCH DMRS RE positions/pattern in a symbol that are used for the purpose of channel estimation.				
Indicates whether the UE supports reception of NR PDCCH candidates in REs that overlap with LTE CRS when UE is provided with LTE CRS RM patterns by configuration of one or multiple non-overlapping CRS rate matching patterns via Ite-CRS-PatternList1-r16 if the UE supports multipleRateMatchingEUTRA-CRS-r16 or Ite-CRS-PatternList3-r18 if the UE supports twoRateMatchingEUTRA-CRS-patterns-3-4-r18. A UE supporting this feature shall also indicate support of nr-PDCCH-OverlapLTE-CRS-RE-r18 and at least one of multipleRateMatchingEUTRA-CRS-r16 and twoRateMatchingEUTRA-CRS-patterns-3-4-r18. NOTE: The feature is supported by UE performing channel estimation with a regular Rel-15 DMRS pattern in frequency dimension, i.e., no change to UE assumption on PDCCH DMRS RE positions/pattern in a symbol that are used for the purpose of channel estimation.	Band	No	N/A	FR1 only
nr-PDCCH-OverlapLTE-CRS-RE-Span-3-4-r18 Indicates whether the UE supports NR PDCCH that overlaps with LTE CRS REs is in Type-1 CSS with dedicated RRC configuration, Type-3 CSS, and/or USS that are monitored within a single span of 3 consecutive OFDM symbols that is within the first 4 OFDM symbols in a slot. A UE supporting this feature shall also indicate support of nr-PDCCH-OverlapLTE-CRS-RE-r18 and pdcch-MonitoringSingleSpanFirst4Sym-r16.	Band	No	N/A	FR1 only
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

A UE supporting this feature shall indicate support of uplinkPreCompensation-r17 and at least one of drms-BundlingPUSCH-RepTypeA-r17, drms-BundlingPUSCH-RepTypeB-r17 or drms-BundlingPUSCH-multiSlot-r17. NOTE 1: This UE feature group is applicable only for bands in Tables 5.2.2-1 in TS 33.101-5 [34] and HAPS operation bands in Clause 5.2 of TS 38.104 [35]. NOTE 2: A UE that does not report support of this feature and reports support of maxDurationDMRS-Bundling-r17 for an NTN band can perform DMRS bundling only in GSO scenario in the NTN band. NOTE 3: DM-RS bundling is only applicable for UL transmissions with pi/2 BPSK, BPSK, and QPSK modulation orders. NOTE 4: For bands in Table 5.2.2-1 in TS 38.101-5 [34], reported value in maxDurationDMRS-Bundling-r17 is applied only for GSO scenario. olpc-SRS-Pos-r36 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 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; - olpc-SRS-PosBasedOnPRS-Serving-r16 indicates whether the UE supports olpc-SRS-PosBasedOnPRS-Serving-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 can simultaneously maintain for all the SRS resource sets for positioning per serving cell for the PUSCH/PUCCH/SRS transmissios. The UE shal	ntn-DMRS-BundlingNGSO-r18 Indicates whether the UE supports DM-RS bundling for PUSCH over consecutive slots in NGSO scenarios and pre-compensation to keep phase rotation due to timing drift within the phase difference limit. The UE indicates the maximum duration during which UE is able to maintain power consistency and phase continuity to support NTN DM-RS bundling for PUSCH over consecutive slots.	Band	No	N/A	N/A
38.101-5 [34] and HAPS operation bands in Clause 5.2 of TS 38.104 [35]. NOTE 2: A UE that does not report support of this feature and reports support of maxDurationDMRS-Bundling-r17 for an NTN band can perform DMRS bundling only in GSO scenario in the NTN band. NOTE 3: DM-RS bundling is only applicable for UL transmissions with pi/2 BPSK, BPSK, and QPSK modulation orders. NOTE 4: For bands in Table 5.2.2-1 in TS 38.101-5 [34], reported value in maxDurationDMRS-Bundling-r17 is applied only for GSO scenario. **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-PosBasedOnPRS-Neigh-r16 indicates whether the UE supports olpc-SRS-PosBasedOnPRS-Neigh-r16 indicates whether the UE supports olpc-SRS-PosBasedOnPRS-Neigh-r16 indicates whether the UE supports olpc-SRS-PosBasedOnPRS-Serving-r16. Otherwise, the UE does not include this field; 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 pathlose estimates that the UE analisans per serving cell for the PUSCH/PUCCH/SRS transmissios. The UE shall include this field if the UE supports any of olpc-SRS-PosBasedOnPRS-Neigh-r16, olpc-SRS-PosBasedOnPRS-Neigh-r16.	and at least one of dmrs-BundlingPUSCH-RepTypeA-r17, dmrs-BundlingPUSCH-				
maxDurationDMRS-Bundling-r17 for an NTN band can perform DMRS bundling only in GSO scenario in the NTN band. NOTE 3: DM-RS bundling is only applicable for UL transmissions with pi/2 BPSK, BPSK, and QPSK modulation orders. NOTE 4: For bands in Table 5.2.2-1 in TS 38.101-5 [34], reported value in maxDurationDMRS-Bundling-r17 is applied only for GSO scenario. 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 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.	38.101-5 [34] and HAPS operation bands in Clause 5.2 of TS 38.104 [35].				
BPSK, and QPŠK modulation orders. NOTE 4: For bands in Table 5.2.2-1 in TS 38.101-5 [34], reported value in maxDurationDMRS-Bundling-r17 is applied only for GSO scenario. 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 fit the UE supports any of olpc-SRS-PosBasedOnPRS-Serving-r16, olpc-SRS-PosBasedOnPRS-Neigh-r16.	maxDurationDMRS-Bundling-r17 for an NTN band can perform DMRS bundling only in GSO scenario in the NTN band.				
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the SRS resource sets for positioning per serving cell in addition to the up to four pathloss estimates that the UE maintains per serving cell for the PUSCH/PUCCH/SRS transmissios. The UE shall include this field if the UE supports any of olpc-SRS-PosBasedOnPRS-Serving-r16, olpc-SRS-PosBasedOnSSB-Neigh-r16 and olpc-SRS-PosBasedOnPRS-Neigh-r16.					
four pathloss estimates that the UE maintains per serving cell for the PUSCH/PUCCH/SRS transmissios. The UE shall include this field if the UE supports any of olpc-SRS-PosBasedOnPRS-Serving-r16, olpc-SRS-PosBasedOnSSB-Neigh-r16 and olpc-SRS-PosBasedOnPRS-Neigh-r16.					
PUSCH/PUCCH/SRS transmissios. The UE shall include this field if the UE supports any of olpc-SRS-PosBasedOnPRS-Serving-r16, olpc-SRS-PosBasedOnSSB-Neigh-r16 and olpc-SRS-PosBasedOnPRS-Neigh-r16.					
supports any of olpc-SRS-PosBasedOnPRS-Serving-r16, olpc-SRS-PosBasedOnSSB-Neigh-r16 and olpc-SRS-PosBasedOnPRS-Neigh-r16.					
supports any of olpc-SRS-PosBasedOnPRS-Serving-r16, olpc-SRS-PosBasedOnSSB-Neigh-r16 and olpc-SRS-PosBasedOnPRS-Neigh-r16.	PUSCH/PUCCH/SRS transmissios. The UE shall include this field if the UE				
PosBasedOnSSB-Neigh-r16 and olpc-SRS-PosBasedOnPRS-Neigh-r16.					
Otherwise, the OL does not include this held.					
	Carlot Mico, and the doct not include this hold.				

 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; 	3			
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 al 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	Band	No	N/A	N/A
Indicates whether the UE supports transmission of type 3 HARQ-ACK codebook using the first or second PUCCH configuration based on PHY priority indication in the triggering DCI. A UE supporting this feature shall also indicate support of <i>oneShotHARQ-feedback-r16</i> and <i>twoHARQ-ACK-Codebook-type1-r16</i> .				
 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 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. 		No	N/A	N/A
oneSlotPeriodicTRS-r16	Band	No	TDD	FR1
Indicates whether the UE supports one-slot periodic TRS configuration only when no two consecutive slots are indicated as downlink slots by tdd-UL-DL-ConfigurationCommon or tdd-UL-DL-ConfigDedicated. If the UE supports this feature, the UE needs to report csi-RS-ForTracking.	Dana	110	only	only
 outOfOrderOperationDL-r16 Indicates whether the UE supports out of order operation for DL. The UE that indicates support of this feature shall support 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. Note: Same closed loop index for power control across PUSCHs associated with different CORESETPoolIndex values is not supported by a UE indicating the support of this feature when TPC accumulation is enabled.	Band	No	N/A	N/A

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 multiDCI-MultiTRP-r16. Note: A UE may assume that its maximum receive timing difference between the DL transmissions from two TRPs is within a Cyclic Prefix	Band	No	N/A	N/A
overlapPDSCHsInTimePartiallyFreq-r16 Indicates whether the UE supports PDSCHs with partially overlapping Resource Elements. The UE that indicates support of this feature shall support	Band	No	N/A	N/A
overlapPDSCHsFullyFreqTime-r16. overlapRateMatchingEUTRA-CRS-r16 Indicates whether the UE supports two LTE-CRS overlapping rate matching patterns within a part of NR carrier using 15 kHz SCS overlapping with a LTE carrier. If the UE supports this feature, the UE needs to report multipleRateMatchingEUTRA-CRS-r16 and multiDCI-MultiTRP-r16.	Band	No	N/A	FR1 only
overlapRateMatchingEUTRA-CRS-Patterns-3-4-Diff-CS-Pool-r18 Indicates whether the UE supports two LTE-CRS overlapping rate matching patterns configured by Ite-CRS-PatternList3-r18 and Ite-CRS-PatternList4-r18 with two different values of coresetPoolIndex within a part of NR carrier using 15 kHz SCS overlapping with an LTE carrier for the case when crs-RateMatch-PerCORESETPoolIndex-16 is configured. A UE supporting this feature shall also indicate support of twoRateMatchingEUTRA-CRS-patterns-3-4-r18 and multiDCI-MultiTRP-r16.	Band	No	N/A	FR1 only
overlapUL-TransReduction-r18 Indicates whether the UE supports reducing the overlapping duration of the later of the two time-domain overlapping UL transmissions when the UE is not configured with UL STx2P for multi-DCI based multi-TRP operation with two TA enhancement. A UE supporting this feature shall also indicate support of multiDCI-IntraCellMultiTRP-TwoTA-r18 or multiDCI-InterCellMultiTRP-TwoTA-r18. NOTE: If UE does not support this feature, UE does not expect the two UL transmissions to overlap (i.e., scheduling restriction is applied to avoid overlap between the two UL transmissions).	Band	No	N/A	N/A
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 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	Band	No	N/A	N/A
pdcch-MonitoringResumptionAfterUL-NACK-r18 Indicates whether the UE supports PDCCH monitoring resumption after UL NACK. The UE indicating support of this feature shall also indicate support of pdcch-SkippingWithoutSSSG-r17.	Band	No	N/A	N/A
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-SkippingWithoutSSSG-r17 and sssg-Switching-1bitInd-r17.	Band	No	N/A	N/A

pdc-maxNumberPRS-ResourceProcessedPerSlot-r18 Indicates the maximum number of single-symbol DL-PRS resources used in RTT-based Propagation delay compensation that UE can process in a slot. SCS: 15 kHz, 30 kHz, 60 kHz are applicable for FR1 bands. SCS: 60 kHz, 120 kHz are applicable	Band	No	N/A	N/A
for FR2 bands. A UE which supports <i>pdc-maxNumberPRS- ResourceProcessedPerSlot-r18</i> shall support single-symbol DL-PRS for PDC with the comb sizes from {2,4,6,12}.				
A UE supporting this feature shall also indicate support of <i>rtt-BasedPDC-PRS-r</i> 17.				
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].	Band	No	N/A	FR1 only
UE indicating support of this feature shall also indicate support of <i>pdsch-256QAM-FR1</i> and shall not indicate support of <i>pdsch-1024QAM-FR1-r17</i> .				
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].	Band	No	N/A	FR1 only
UE indicating support of this feature shall also indicate support of <i>pdsch-256QAM-FR1</i> and shall not indicate support of <i>pdsch-1024QAM-2MIMO-FR1-r17</i> .				
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
posJointTriggerBySingleDCI-RRC-Connected-r18 Indicates whether UE supports a Rel-17 single DCI scheduling positioning SRS resource sets across the linked carriers for SRS bandwidth aggregation in RRC_CONNECTED state. A UE indicating support of this feature shall also indicate support of posSRS-BWA-RRC-Connected-r18.	Band	No	N/A	N/A

neoCDC DIMA DDC Insertive #49	Dond	No	NI/A	NI/A
posSRS-BWA-RRC-Inactive-r18 Indicates the UE capability for support of positioning SRS bandwidth aggregation in RRC_INACTIVE and the support of the same SRS power reduction across aggregated carriers. The capability signalling comprises the following parameters: - numOfCarriersIntraBandContiguous-r18 indicates the number of supported aggregated carriers in intra band contiguous carriers, which is supported and	Band	No	N/A	N/A
reported by UE. - maximumAggregatedBW-TwoCarriersFR1-r18 indicates the maximum aggregated SRS bandwidth in MHz for two aggregated carriers for FR1,				
which is supported and reported by UE.				
 maximumAggregatedBW-TwoCarriersFR2-r18 indicates the maximum aggregated SRS bandwidth in MHz for two aggregated carriers for FR2, which is supported and reported by UE. 				
 maximumAggregatedBW-ThreeCarriersFR1-r18 indicates the maximum aggregated SRS bandwidth in MHz for three aggregated carriers for FR1, which is supported and reported by UE. 				
 maximumAggregatedBW-ThreeCarriersFR2-r18 indicates the maximum aggregated SRS bandwidth in MHz for three aggregated carriers for FR2, which is supported and reported by UE. 				
 maximumAggregatedResourceSet-r18 indicates the max number of aggregated SRS resource sets for positioning supported by UE for SRS bandwidth aggregation, which is supported and reported by UE. 				
 maximumAggregatedResourcePeriodic-r18 indicates the maximum number of aggregated periodic SRS resources for bandwidth aggregation, which is supported and reported by UE. 				
 maximumAggregatedResourceSemi-r18 indicates the maximum number of aggregated semi-persistent SRS resources for bandwidth aggregation, which is supported and reported by UE. 				
 maximumAggregatedResourcePeriodicPerSlot-r18 indicates the maximum number of aggregated periodic SRS resources for bandwidth aggregation per slot, which is supported and reported by UE. 				
 maximumAggregatedResourceSemiPerSlot-r18 indicates the maximum number of aggregated semi-persistent SRS resources for bandwidth aggregation per slot, which is supported and reported by UE. 				
 guardPeriod-r18 indicates the guard period in microseconds before and after aggregated SRS transmission. 				
 powerClassForTwoAggregatedCarriers-r18 indicates the power class of supported two aggregated carriers in intra band contiguous carriers. 				
 powerClassForThreeAggregatedCarriers-r18 indicates the power class of supported three aggregated carriers in intra band contiguous carriers. 				
NOTE: The power class is only applicable for FR1 bands.				
UE indicating support of this feature shall also indicate support of posSRS-RRC-Inactive-OutsideInitialUL-BWP-r17. If the UE indicates support of this feature, the fields srsPosWithoutRestrictionOnBWP-r17 and differentCenterFreqBetweenSRSposAndInitialBWP-r17 in posSRS-RRC-Inactive-				
OutsideInitialUL-BWP-r17 shall be set to supported.				
posSRS-PreconfigureRRC-InactiveInitialUL-BWP-r18	Band	No	N/A	N/A
Indicates whether the UE supports preconfigured SRS with validity area in				
RRC_INACTIVE for initial UL BWP. UE indicating support of this feature shall also indicate support of posSRS-				
ValidityAreaRRC-InactiveInitialUL-BWP-r18.				
posSRS-PreconfigureRRC-InactiveOutsideInitialUL-BWP-r18 Indicates whether the UE supports preconfigured SRS with validity area in	Band	No	N/A	N/A
RRC_INACTIVE outside initial UL BWP.				
UE indicating support of this feature shall also indicate support of posSRS- ValidityAreaRRC-InactiveOutsideInitialUL-BWP-r18.				

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.				
posSRS-ValidityAreaRRC-InactiveInitialUL-BWP-r18 Indicates whether the UE support SRS for positioning configuration in multi cells in RRC_INACTIVE for initial UL BWP.	Band	No	N/A	N/A
UE indicating support of this feature shall also indicate support of posSRS-RRC-Inactive-InInitialUL-BWP-r17.				
posSRS-ValidityAreaRRC-InactiveOutsideInitialUL-BWP-r18 Indicates whether the UE supports SRS for positioning configuration in multi cells in RRC_INACTIVE outside initial UL BWP.	Band	No	N/A	N/A
UE indicating support of this feature shall also indicate support of posSRS-RRC- Inactive-OutsideInitialUL-BWP-r17 and posSRS-ValidityAreaRRC-InactiveInitialUL- BWP-r18.				
posUE-TA-AutoAdjustment-r18 Indicates whether the UE supports autonomous TA adjustment when cell-reselection happens. UE indicating support of this feature shall also indicate support of posSRS-ValidityAreaRRC-InactiveInitialUL-BWP-r18.	Band	No	N/A	N/A

nowor A d	aptation-CSI-Feedback-r18	Band	No	N/A	N/A
		Danu	INO	IN/A	IN/A
	whether the UE supports power domain adaptation with CSI feedback				
	CSI report sub-configuration(s) for periodic CSI reporting and single-panel				
	debook. The UE supports CSI feedback based on CSI report sub-				
	ion(s), each containing one power offset for periodic CSI reporting. This				
capability	signalling comprises the following parameters:				
- ma	axNumberLmax-r18 indicates the max number of sub-configurations Lmax				
	one CSI report configuration;				
	axNumberCSI-ResourcePerCC-r18 indicates the maximum number of				
	nultaneous NZP-CSI-RS resources per CC.				
	axNumberTotalCSI-ResourcePerCC-r18 indicates the maximum number of				
	al CSI-RS ports in simultaneous NZP-CSI-RS resources per CC.				
	alNumberCSI-Reporting-r18 indicates total number of periodic CSI				
	porting settings without sub-configurations plus the total number of sub-				
	nfigurations across periodic CSI report settings with sub-configurations per				
	VP.				
NOTE 1:	For maxNumberCSI-ResourcePerCC-r18 and maxNumberTotalCSI-				
	ResourcePerCC-r18, NZP-CSI-RS resource and CSI-RS ports are				
	counted for reporting settings with and without sub-configurations.				
NOTE 2:	If a UE reports more than one capability from spatialAdaptation-CSI-				
	Feedback-r18, spatialAdaptation-CSI-FeedbackPUSCH-r18,				
	spatialAdaptation-CSI-FeedbackAperiodic-r18, spatialAdaptation-CSI-				
	FeedbackPUCCH-r18, powerAdaptation-CSI-Feedback-r18,				
	powerAdaptation-CSI-FeedbackPUSCH-r18, powerAdaptation-CSI-				
	FeedbackAperiodic-r18, powerAdaptation-CSI-FeedbackPUCCH-r18 and				
	if the UE is configured with CSI report settings with sub-configurations				
	corresponding to a subset of the above reported features, then the				
	supported maximum of NZP-CSI-RS resources/ports across all periodic,				
	semi-persistent, aperiodic CSI report settings with sub-configurations				
	corresponding to all of spatial and power domain adaptations and without				
	sub-configurations is determined by the minimum of the reported values				
NOTE 2.	from that subset.				
NOTE 3:	If a UE reports both spatialAdaptation-CSI-Feedback-r18 and				
	powerAdaptation-CSI-Feedback-r18, and if the UE is configured with CSI				
	report settings with sub-configurations corresponding to both				
	spatialAdaptation-CSI-Feedback-r18 and powerAdaptation-CSI-				
	Feedback-r18, then the supported total number of periodic CSI reporting				
	settings without sub-configurations plus the total number of sub-				
	configurations across periodic CSI report settings with sub-configurations				
	per BWP is determined by the minimum of the reported values from both				
	spatialAdaptation-CSI-Feedback-r18 and powerAdaptation-CSI-				
	Feedback-r18.				
NOTE 4:	If CSI report configuration in active BWP of a CC includes report				
	setting(s) with sub-configurations, values reported in this capability for				
	the number of simultaneous NZP-CSI-RS resources and ports per CC				
	are used for the CC instead of values reported in csi-RS-IM-				
	ReceptionForFeedback. If CSI report configuration in active BWP of any				
	CC includes report setting(s) with sub-configurations, values reported in				
	this capability for the number of simultaneous NZP-CSI-RS resources				
	and ports across all CCs are used instead of values reported in <i>csi-RS</i> -				
	IM-ReceptionForFeedback.				
NOTE 5:					
NOTE 3.					
	includes report setting(s) with sub-configurations, a value reported in this				
	capabiliy for the number of CSI reporting settings is used for the BWP				
	instead of a value reported in csi-ReportFramework.				
A	and the summent of this factions shall also be the terminate of the				
	cating support of this feature shall also indicate support of csi-				
ReportFra	amework and powerAdaptation-CSI-FeedbackPerBC-r18.				

powerAd	aptation-CSI-FeedbackAperiodic-r18	Band	No	N/A	N/A
	whether the UE supports power domain adaptation with CSI feedback	Dana	140	13//	14//
	CSI report sub-configuration(s) for aperiodic CSI reporting and single-				
	e 1 codebook. The UE supports CSI feedback based on CSI report sub-				
	tion(s), each containing one power offset for aperiodic CSI reporting. This				
	signalling comprises the following parameters:				
- ma	axNumberLmax-r18 indicates the max number of sub-configurations Lmax				
in	one CSI report configuration;				
	bReportCSI-r18 indicates N number of report of CSI sub-report(s) included				
	one SP-CSI report where each CSI sub-report corresponds to one sub-				
	nfiguration.				
	axNumberCSI-ResourcePerCC-r18 indicates the maximum number of				
	nultaneous NZP-CSI-RS resources per CC for SD-type 1 and/or SD-type				
1	nullarieous NZF-CSI-RS resources per CC for SD-type i and/or SD-type				
2.	N				
	axNumberTotalCSI-ResourcePerCC-r18 indicates the maximum number of				
	al CSI-RS ports in simultaneous NZP-CSI-RS resources per CC for SD-				
	pe 1 and/or SD-type 2.				
- to	talNumberCSI-Reporting-r18 total number of aperiodic CSI reporting				
	ttings without sub-configurations plus the total number of sub-				
	nfigurations across aperiodic CSI report settings with sub-configurations				
	r BWP.				
	For maxNumberCSI-ResourcePerCC-r18 and maxNumberTotalCSI-				
	ResourcePerCC-r18, NZP-CSI-RS resource and CSI-RS ports are				
	counted for reporting settings with and without sub-configurations.				
NOTE 6	W 115				
NOTE 2:	If a UE reports more than one capability from spatialAdaptation-CSI-				
	Feedback-r18, spatialAdaptation-CSI-FeedbackPUSCH-r18,				
	spatialAdaptation-CSI-FeedbackAperiodic-r18, spatialAdaptation-CSI-				
	FeedbackPUCCH-r18, powerAdaptation-CSI-Feedback-r18,				
	powerAdaptation-CSI-FeedbackPUSCH-r18, powerAdaptation-CSI-				
	FeedbackAperiodic-r18, powerAdaptation-CSI-FeedbackPUCCH-r18 and				
	if the UE is configured with CSI report settings with sub-configurations				
	corresponding to a subset of the above reported features, then the				
	supported maximum of NZP-CSI-RS resources/ports across all periodic,				
	semi-persistent, aperiodic CSI report settings with sub-configurations				
	corresponding to all of spatial and power domain adaptations and without				
	sub-configurations is determined by the minimum of the reported values				
	from that subset.				
NOTE 3:	If a UE reports both spatialAdaptation-CSI-FeedbackAperiodic-r18 and				
	powerAdaptation-CSI-FeedbackAperiodic-r18, and if the UE is configured				
	with CSI report settings with sub-configurations corresponding to both				
	spatialAdaptation-CSI-FeedbackAperiodic-r18 and powerAdaptation-CSI-				
	FeedbackAperiodic-r18, then the supported total number of periodic CSI				
	reporting settings without sub-configurations plus the total number of				
	sub-configurations across periodic CSI report settings with sub-				
	configurations per BWP is determined by the minimum of the reported				
	values from both spatialAdaptation-CSI-FeedbackAperiodic-r18 and				
	powerAdaptation-CSI-FeedbackAperiodic-r18.				
NOTE 4:	·				
NOTE 4.					
	setting(s) with sub-configurations, values reported in this capability for				
	the number of simultaneous NZP-CSI-RS resources and ports per CC				
	are used for the CC instead of values reported in csi-RS-IM-				
	ReceptionForFeedback. If CSI report configuration in active BWP of any				
	CC includes report setting(s) with sub-configurations, values reported in				
	this capability for the number of simultaneous NZP-CSI-RS resources				
	and ports across all CCs are used instead of values reported in csi-RS-				
	IM-ReceptionForFeedback.				
NOTE 5:	For totalNumberCSI-Reporting-r18, if CSI report configuration in a BWP				
	includes report setting(s) with sub-configurations, a value reported in this				
	capability for the number of CSI reporting settings is used for the BWP				
	instead of a value reported in csi-ReportFramework.				
	cating support of this feature shall also indicate support of csi-				
ReportFra	amework and powerAdaptation-CSI-FeedbackAperiodicPerBC-r18.				

				1 1/0	
	aptation-CSI-FeedbackPUCCH-r18 whether the UE supports power domain adaptation with CSI feedback	Band	No	N/A	N/A
	CSI report sub-configuration(s) for semi-persistent CSI reporting on				
PUCCH a	and single-panel type 1 codebook. The UE supports CSI feedback based				
on CSI re	port sub-configuration(s), each containing one power offset for semi-				
	CSI reporting on PUCCH (or piggybacked on PUSCH). This capability				
	comprises the following parameters:				
- ma	axNumberLmax-r18 indicates the max number of sub-configurations Lmax				
	one CSI report configuration;				
	bReportCSI-r18 indicates N number of report of CSI sub-report(s) included				
	one SP-CSI report where each CSI sub-report corresponds to one sub-				
	nfiguration.				
	axNumberCSI-ResourcePerCC-r18 indicates the maximum number of				
	nultaneous NZP-CSI-RS resources per CC for SD-type 1 and/or SD-type				
2.	and the many of the contract o				
	axNumberTotalCSI-ResourcePerCC-r18 indicates the maximum number of				
	al CSI-RS ports in simultaneous NZP-CSI-RS resources per CC for SD-				
	be 1 and/or SD-type 2. calNumberCSI-Reporting-r18 indicates total number of semi-persistent CSI				
	porting settings without sub-configurations plus the total number of sub-				
	nfigurations across semi-persistent CSI report settings with sub-				
	nfigurations per BWP.				
	g				
NOTE 1:	For maxNumberCSI-ResourcePerCC-r18 and maxNumberTotalCSI-				
	ResourcePerCC-r18, NZP-CSI-RS resource and CSI-RS ports are				
	counted for reporting settings with and without sub-configurations.				
NOTE 2:					
	Feedback-r18, spatialAdaptation-CSI-FeedbackPUSCH-r18,				
	spatialAdaptation-CSI-FeedbackAperiodic-r18, spatialAdaptation-CSI-				
	FeedbackPUCCH-r18, powerAdaptation-CSI-Feedback-r18,				
	powerAdaptation-CSI-FeedbackPUSCH-r18, powerAdaptation-CSI-				
	FeedbackAperiodic-r18, powerAdaptation-CSI-FeedbackPUCCH-r18 and if the UE is configured with CSI report settings with sub-configurations				
	corresponding to a subset of the above reported features, then the				
	supported maximum of NZP-CSI-RS resources/ports across all periodic,				
	semi-persistent, aperiodic CSI report settings with sub-configurations				
	corresponding to all of spatial and power domain adaptations and without				
	sub-configurations is determined by the minimum of the reported values				
	from that subset.				
NOTE 3:	If a UE reports more than one capability from spatialAdaptation-CSI-				
	FeedbackPUSCH-r18, spatialAdaptation-CSI-FeedbackPUCCH-r18,				
	powerAdaptation-CSI-FeedbackPUSCH-r18 and powerAdaptation-CSI-				
	FeedbackPUCCH-r18 and if the UE is configured with CSI report settings				
	with sub-configurations corresponding to a subset of the reported				
	features, then the supported total number of semi-persistent CSI				
	reporting settings without sub-configurations plus the total number of				
	sub-configurations across semi-persistent CSI report settings with sub- configurations per BWP is determined by the minimum of the reported				
	values from that subset.				
NOTE 4:	If CSI report configuration in active BWP of a CC includes report				
	setting(s) with sub-configurations, values reported in this capability for				
	the number of simultaneous NZP-CSI-RS resources and ports per CC				
	are used for the CC instead of values reported in csi-RS-IM-				
	ReceptionForFeedback. If CSI report configuration in active BWP of any				
	CC includes report setting(s) with sub-configurations, values reported in				
	this capability for the number of simultaneous NZP-CSI-RS resources				
	and ports across all CCs are used instead of values reported in csi-RS-				
NOTE -	IM-ReceptionForFeedback.				
NOTE 5:	For totalNumberCSI-Reporting-r18, if CSI report configuration in a BWP				
	includes report setting(s) with sub-configurations, a value reported in this				
	capability for the number of CSI reporting settings is used for the BWP				
	instead of a value reported in csi-ReportFramework.				
A LIE indi	cating support of this feature shall also indicate support of csi-				
	amework, sp-CSI-ReportPUCCH and powerAdaptation-CSI-				
	PUCCH-PerBC-r18.				
		<u> </u>	I	I	I

Indicates based on PUSCH a	aptation-CSI-FeedbackPUSCH-r18 whether the UE supports power domain adaptation with CSI feedback CSI report sub-configuration(s) for semi-persistent CSI reporting on nd single-panel type 1 codebook. The UE supports CSI feedback based	Band	No	N/A	N/A
	port sub-configuration(s), each containing one power offset for semi-				
	CSI reporting. This capability signalling comprises the following				
paramete	is. axNumberLmax-r18 indicates the max number of sub-configurations Lmax				
	one CSI report configuration;				
	bReportCSI-r18 indicates N number of report of CSI sub-report(s) included				
	one SP-CSI report where each CSI sub-report corresponds to one sub-				
	nfiguration.				
	axNumberCSI-ResourcePerCC-r18 indicates the maximum number of				
	nultaneous NZP-CSI-RS resources per CC. axNumberTotalCSI-ResourcePerCC-r18 indicates the maximum number of				
	al CSI-RS ports in simultaneous NZP-CSI-RS resources per CC.				
	alNumberCSI-Reporting-r18 indicates total number of semi-persistent CSI				
	porting settings without sub-configurations plus the total number of sub-				
	nfigurations across semi-persistent CSI report settings with sub- nfigurations per BWP.				
00	ingulations por BVVI.				
NOTE 1:	For maxNumberCSI-ResourcePerCC-r18 and maxNumberTotalCSI-				
	ResourcePerCC-r18, NZP-CSI-RS resource and CSI-RS ports are counted for reporting settings with and without sub-configurations.				
NOTE 2:	If a UE reports more than one capability from spatialAdaptation-CSI-				
	Feedback-r18, spatialAdaptation-CSI-FeedbackPUSCH-r18,				
	spatialAdaptation-CSI-FeedbackAperiodic-r18, spatialAdaptation-CSI-				
	FeedbackPUCCH-r18, powerAdaptation-CSI-Feedback-r18,				
	powerAdaptation-CSI-FeedbackPUSCH-r18, powerAdaptation-CSI-FeedbackAperiodic-r18, powerAdaptation-CSI-FeedbackPUCCH-r18 and				
	if the UE is configured with CSI report settings with sub-configurations				
	corresponding to a subset of the above reported features, then the				
	supported maximum of NZP-CSI-RS resources/ports across all periodic,				
	semi-persistent, aperiodic CSI report settings with sub-configurations				
	corresponding to all of spatial and power domain adaptations and without sub-configurations is determined by the minimum of the reported values				
NOTE 3:	from that subset. If a UE reports more than one capability from spatialAdaptation-CSI- FeedbackPUSCH-r18, spatialAdaptation-CSI-FeedbackPUCCH-r18,				
	powerAdaptation-CSI-FeedbackPUSCH-r18 and powerAdaptation-CSI-				
	FeedbackPUCCH-r18 and if the UE is configured with CSI report settings				
	with sub-configurations corresponding to a subset of the reported				
	features, then the supported total number of semi-persistent CSI				
	reporting settings without sub-configurations plus the total number of sub-configurations across semi-persistent CSI report settings with sub-				
	configurations per BWP is determined by the minimum of the reported				
	values from that subset.				
NOTE 4:	If CSI report configuration in active BWP of a CC includes report				
	setting(s) with sub-configurations, values reported in this capability for the number of simultaneous NZP-CSI-RS resources and ports per CC				
	are used for the CC instead of values reported in <i>csi-RS-IM-</i>				
	ReceptionForFeedback. If CSI report configuration in active BWP of any				
	CC includes report setting(s) with sub-configurations, values reported in				
	this capability for the number of simultaneous NZP-CSI-RS resources				
	and ports across all CCs are used instead of values reported in csi-RS-IM-ReceptionForFeedback.				
NOTE 5:	For totalNumberCSI-Reporting-r18, if CSI report configuration in a BWP				
	includes report setting(s) with sub-configurations, a value reported in this				
	capability for the number of CSI reporting settings is used for the BWP instead of a value reported in <i>csi-ReportFramework</i> .				
	cating support of this feature shall also indicate support of csi- amework, sp-CSI-ReportPUSCH and powerAdaptation-CSI-				
	PUSCH-PerBC-r18.				
powerBo	osting-pi2BPSK	Band	CY	TDD	FR1
defined in	whether UE supports power boosting for pi/2 BPSK, when applicable as 6.2 of TS 38.101-1 [2] / TS 38.101-5 [34]. It is mandatory with capability This capability is not applicable to IAB-MT.			only	only

prach-CoverageEnh-r18 Indicates whether the UE supports {2, 4, 8} for the number of multiple PRACH	Band	No	N/A	N/A
transmissions with same Tx spatial filter.	ļ			
prach-Repetition-r18	Band	No	N/A	N/A
Indicates whether the UE supports transmitting two PRACH repetitions when a gap between the last symbol of a PRACH repetition in the first slot and the first symbol				
of a PRACH repetition in the second slot is less than N symbols, where N=2 for μ =0				
or μ =1, N=4 for μ =2 or μ =3, N=16 for μ =5, N=32 for μ =6, and μ is the SCS				
configuration for the UL BWP with the PRACH.				
A UE supporting this feature shall also indicate support of <i>prach-CoverageEnh-r18</i> .				
priorityIndicatorInDCI-Multicast-r17	Band	No	N/A	N/A
Indicates whether the UE supports DL priority indication for multicast in DCI,	Danu	INO	IN/A	11/
comprised of the following functional components:				
- Support of priority indicator field configured in DCI formats 4_2 with CRC				
scrambled with G-RNTI for multicast;				
- Supports two HARQ-ACK codebooks with different priorities to be				
simultaneously constructed different priorities for multicast and multicast at a				
UE.				
For TN, the UE shall set the capability value consistently for all FDD-FR1 bands, all				
TDD-FR1 bands and all TDD-FR2 bands, associated with supported shared and				
non-shared spectrum respectively. For NTN, UE shall set the capability value				
consistently for all FDD-FR1 NTN bands and all FDD-FR2 NTN bands respectively.				
A UE supporting this feature shall also indicate support of ack-NACK-				
FeedbackForMulticast-r17 and dynamicMulticastDCI-Format4-2-r17.				
priorityIndicatorInDCI-SPS-Multicast-r17	Band	No	N/A	N/A
Indicates whether the UE supports priority indicator field configured in DCI format	Dana	110	13// 1	'\''
4_2 for multicast HARQ-ACK feedback of SPS multicast.				
1_E TOT THURIDOUS TIP IT OF TOTAL OCCUR.				
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 and all FDD-FR2 NTN bands respectively.				
A 115				
A UE supporting this feature shall also indicate support of ack-NACK-				
FeedbackForSPS-Multicast-r17 and sps-MulticastDCI-Format4-2-r17.	D'	NI-	NI/A	N1/A
prs-MeasurementWithoutMG-r17	Band	No	N/A	N/A
Indicates whether the UE supports using the threshold to compare the Rx time				
difference between the serving cell and a neighbour 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 <i>pr</i> s-				
ProcessingWindowType1A-r17, prs-ProcessingWindowType1B-r17 and prs-				
ProcessingWindowType2-r17. ProcessingWindowType2-r17.				
r rocessing vviridow rypez-rrr.				

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 parameters:				
 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 parameters:				
 ppw-durationOfPRS-ProcessingSymbolsN-r17: This field specifies the 				
values for <i>N</i> 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 parameters:				
- 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 <i>ppw-durationOfPRS-Processing1-r17</i> 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 <i>prs-ProcessingCapabilityOutsideMGinPPW-r17</i>				
shall support either ppw-durationOfPRS-Processing1-r17 or ppw-				
durationOfPRS-Processing2-r17, but not both for each supported PPW				
· · · · · · · · · · · · · · · · · · ·				
type in a band.	Dood	Nia	NI/A	NI/A
prs-ProcessingRRC-Inactive-r17	Band	No	N/A	N/A
Indicates whether the UE supports PRS processing in RRC_INACTIVE.				

	T			
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</i> -				
ProcessingCapabilityOutsideMGinPPW-r17.				
NOTE 2: Type 1A refers to the determination of prioritization between DL PRS and				
other DL signals/channels in all OFDM symbols within the PRS processing window. The DL signals/channels from all DL CCs (per UE)				
are affected across LTE and NR. NOTE 3: Within a PRS processing window, UE measurement is inside the active				
DL BWP with PRS having the same numerology as the active DL BWP.				
NOTE 4: Support of configuration of PRS processing window in RRC and support of using DL MAC CE to activate/deactivate the PRS processing window				
for PRS measurements is part of the feature.				
NOTE 5: When the UE determines higher priority for other DL signals/channels over the DL-PRS measurement/processing, the UE is not expected to				
measure/process DL-PRS.				
prs-ProcessingWindowType1B-r17	Band	No	N/A	N/A
Indicates whether the UE supports PRS processing Type 1B, subject to the UE determining that DL PRS to be higher priority for PRS measurement outside MG				
and in a PRS processing window and the priority handling options of PRS as				
follows:				
- 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 prs-				
ProcessingCapabilityOutsideMGinPPW-r17.				
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 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].	Band	No	N/A	N/A
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. ptrs-DensityRecommendationSetDL For each supported sub-carrier spacing, indicates preferred threshold sets for determining DL PTRS density. It is mandated for FR2. For each supported sub-carrier spacing, this field comprises: - two values of frequencyDensity;	Band	CY	N/A	N/A
- three values of timeDensity.				
<pre>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:</pre>	Band	No	N/A	N/A
- three values of timeDensity,				
- five values of sampleDensity.				
pucch-RepetitionDynamicIndicationSFN-r18 Indicates whether the UE supports STx2P SFN PUCCH scheme together with pucch-Repetition-F0-1-2-3-4-DynamicIndication-r17. A UE supporting this feature shall also indicate support of pucch-SingleDCI-STx2P-SFN-r18 and slotBasedDynamicPUCCH-Rep-r17.	Band	No	N/A	FR2 only
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-CB-2PTRS-SingleDCI-STx2P-SDM-r18 Indicates whether the UE supports 2 PTRS ports for single-DCI based STx2P SDM scheme for PUSCH codebook. A UE supporting this feature shall also indicate support of pusch-CB-SingleDCI-	Band	No	N/A	FR2 only
STx2P-SDM-r18.				<u> </u>

pusch-CB-2PTRS-SingleDCI-STx2P-SFN-r18 Indicates whether the UE supports 2 PTRS ports for single-DCI based STx2P SFN scheme for PUSCH codebook.	Band	No	N/A	FR2 only
A UE supporting this feature shall also indicate support of <i>pusch-CB-SingleDCI-STx2P-SFN-r18</i> .				
pusch-NonCB-2PTRS-SingleDCI-STx2P-SDM-r18	Band	No	N/A	FR2
Indicates whether the UE supports 2 PTRS ports for single-DCl based STx2P SDM scheme for PUSCH noncodebook.	Barra	110	14/7	only
A UE supporting this feature shall also indicate support of <i>pusch-NonCB-SingleDCI-STx2P-SDM-r18</i> .				
pusch-NonCB-2PTRS-SingleDCI-STx2P-SFN-r18	Band	No	N/A	FR2
Indicates whether the UE supports 2 PTRS ports for single-DCI based STx2P SFN				only
scheme for PUSCH noncodebook.				
A UE supporting this feature shall also indicate support of <i>pusch-NonCB-SingleDCI-STx2P-SFN-r18</i> .				
pusch-NonCB-SingleDCI-STx2P-SDM-CSI-RS-SRS-r18	Band	No	N/A	FR2
Indicates whether the UE supports up to two NZP CSI-RS resources associated				only
with the two SRS resource sets for non-codebook based STx2P SDM scheme for				
PUSCH. This capability comprises:				
- maxNumberPeriodicSRS-Resource-PerBWP-r18 indicates the maximum				
number of periodic SRS resources associated with first and second CSI-RS				
per BWP;				
 maxNumberAperiodicSRS-Resource-PerBWP-r18 indicates the maximum number of aperiodic SRS resources associated with first and second CSI-RS 				
per BWP;				
- maxNumberSemiPersistentSRS-ResourcePerBWP-r18 indicates the				
maximum number of semi-persistent SRS resources associated with first				
and second CSI-RS per BWP;				
- value Y-SRS-Resource Associate-r18 indicates the number of P/SP/A SRS				
resources associated with first and second CSI-RS resources simultaneously				
in a CC that the UE can process;				
- valueX-CSI-RS-ResourceAssociate-r18 indicates the maximum number of				
CSI-RS resources associated with SRS for non-codebook-based				
transmission simultaneously that the UE can process.				
A UE supporting this feature shall also indicate support of srs-AssocCSI-RS and pusch-NonCB-SingleDCI-STx2P-SDM-r18.				
pusch-NonCB-SingleDCI-STx2P-SFN-CSI-RS-SRS-r18	Band	No	N/A	FR2
Indicates whether the UE supports up to two NZP CSI-RS resources associated				only
with the two SRS resource sets for non-codebook based STx2P SFN scheme for				
PUSCH. This capability comprises:				
- maxNumberPeriodicSRS-Resource-PerBWP-r18 indicates the maximum				
number of periodic SRS resources associated with first and second CSI-RS per BWP;				
- maxNumberAperiodicSRS-Resource-PerBWP-r18 indicates the maximum				
number of aperiodic SRS resources associated with first and second CSI-RS				
per BWP;				
- maxNumberSemiPersistentSRS-ResourcePerBWP-r18 indicates the				
maximum number of semi-persistent SRS resources associated with first				
and second CSI-RS per BWP;				
- value Y-SRS-Resource Associate-r18 indicates the number of P/SP/A SRS				
resources associated with first and second CSI-RS resources simultaneously				
in a CC that the UE can process;				
 valueX-CSI-RS-ResourceAssociate-r18 indicates the maximum number of CSI-RS resources associated with SRS for non-codebook-based 				
transmission simultaneously that the UE can process.				
A UE supporting this feature shall also indicate support of <i>srs-AssocCSI-RS</i> and				
pusch-NonCB-SingleDCI-STx2P-SFN-r18.				
pusch-RepetitionMsg3-r17	Band	No	N/A	N/A
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.	<u></u>	<u> </u>	<u></u>	<u></u>
TAIL OF Grant and Deriornal o_0 with Cite sciambled by Te-Kivii.				

pusch-RepetitionMultiSlots-v1650	Band	Yes	N/A	N/A
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. 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 and all FDD-FR2 NTN bands respectively.				
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 of at least one of type2-PUSCH-RepetitionMultiSlots and pusch-				
RepetitionMultiSlots for shared spectrum and non-shared spectrum respectively.				
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 and all FDD-				
FR2 NTN 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.	<u> </u>			
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 LIE that indicates curport of this facture shall curport type 1 DUCCU				
A UE that indicates support of this feature shall support <i>type1-PUSCH-</i>				
RepetitionMultiSlots, type2-PUSCH-RepetitionMultiSlots or pusch-				
RepetitionMultiSlots.	Dond	No	NI/A	NI/A
rach-EarlyTA-Measurement-r18	Band	No	N/A	N/A
Indicates the maximum number of candidate cells for TA acquisition based on				
PDCCH ordered CFRA procedure before receiving cell switch command MAC-CE.				
Power ramping for PRACH retransmission based on PDCCH order indication. UE				
also supports dropping the serving cell UL to handle the overlap between UL				
transmission on serving cell(s) and PRACH on candidate cell(s).				
A UE supporting this feature shall also indicate support of <i>ta-IndicationCellSwitch-</i>				
r18 and at least one of Itm-MCG-IntraFreq-r18 or Itm-SCG-IntraFreq-r18.				
For cross-band operation, the capability refers to the source band.	Daw -	NI.	N1/A	N1/A
rach-LessHandoverCG-r18	Band	No	N/A	N/A
Indicates whether the UE supports RACH-less handover with configured grant for				
SpCell, as specified in TS 38.321 [8]. In this release, FR1-FR2 and FDD-TDD				
RACH-less handovers with configured grant are not supported.				
For NTN, UE shall set the capability value consistently for all FDD-FR1 NTN bands.				
For NTN bands, a UE supporting this feature shall also indicate the support of				
nonTerrestrialNetwork-r17.				
If an NTN UE indicates the support of both timeBasedCondHandover-r17 and rach-				
Legal landous CO MAO the LIE comments there have all DAOLL COLO 19				
LessHandoverCG-r18, the UE supports time based RACH-less CHO with configured grant.				

rach-LessHandoverDG-r18 Indicates whether the UE supports RACH-less handover with dynamic grant for SpCell, as specified in TS 38.321 [8]. In this release, FR1-FR2 and FDD-TDD RACH-less handovers with dynamic grant are not supported. For NTN, UE shall set the capability value consistently for all FDD-FR1 NTN bands. For NTN bands, a UE supporting this feature shall also indicate the support of nonTerrestrialNetwork-r17. If an NTN UE indicates the support of both timeBasedCondHandover-r17 and rach-	Band	No	N/A	N/A
LessHandoverDG-r18, the UE supports time based RACH-less CHO with dynamic				
grant.		.,	11/0	21/2
rateMatchingLTE-CRS Indicates whether the UE supports receiving PDSCH with resource mapping that excludes the REs determined by the higher layer configuration LTE-carrier configuring common RS, as specified in TS 38.214 [12].	Band	Yes	N/A	N/A
releaseSPS-MulticastWithCS-RNTI-r17 Indicates whether UE supports unicast PDCCH scrambled with CS-RNTI to release SPS group-common PDSCH. For TN, the UE shall set the capability value consistently for all FDD-FR1 bands, all TDD-FR1 bands and all TDD-FR2 bands, associated with supported shared and non-shared spectrum respectively. For NTN, UE shall set the capability value consistently for all FDD-FR1 NTN bands and all FDD-FR2 NTN bands respectively. A UE that indicates the support of this feature shall indicate support of sps-	Band	No	N/A	N/A
Multicast-r17 and sps-r16.				
re-LevelRateMatchingForMulticast-r17	Band	No	N/A	N/A
Indicates whether the UE supports group-common PDSCH RE-level rate matching for multicast, comprised of the following functional components: - Supports SP ZP-CSI-RS for group-common PDSCH RE-mapping patterns; - Supports P ZP-CSI-RS for group-common PDSCH RE-mapping patterns; - Supports p-ZP-CSI-RS-ResourceSet configured in PDSCH-Config-Multicast same as or different from the p-ZP-CSI-RS-ResourceSet configured in PDSCH-Config; - Supports AP ZP-CSI-RS for group-common PDSCH RE-mapping patterns.	Dand	INO	14/7	IW/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 and all FDD-FR2 NTN bands respectively.				
A UE supporting this feature shall also indicate support of <i>dynamicMulticastPCell- r17</i> . A UE supporting this feature in FR1 bands shall also indicate support of <i>pdsch-RE-MappingFR1-PerSymbol</i> or <i>pdsch-RE-MappingFR1-PerSlot</i> . A UE supporting this feature in FR2 bands shall also indicate support of <i>pdsch-RE-MappingFR2-PerSymbol</i> or <i>pdsch-RE-MappingFR2-PerSlot</i> .				
NOTE: The total number of semi-persistent ZP-CSI-RS-ResourceSet that a UE can be configured with is the same as for unicast in Rel-16.				

rlm-BM-BFD-CSI-RS-OutsideActiveBWP-r18 Indicates whether the UE supports RLM/BM/BFD measurements based on CSI-RS, when CD-SSB is outside active DL BWP.	Band	No	N/A	N/A
For the UE that is capable of this feature, the bandwidth of UE-specific RRC configured BWP need not include bandwidth of the CORESET#0 (if CORESET#0 is present) and CD-SSB for PCell; the bandwidth of UE-specific RRC configured BWP need not include bandwidth of the CORESET#0 (if CORESET#0 is present) and SSB indicated by <i>absoluteFrequencySSB</i> (either CD-SSB or NCD-SSB) for PSCell (if configured); and the bandwidth of the UE-specific RRC configured BWP need not include CD-SSB for SCell (if configured).				
The UE also supports CSI-RS within active DL BWP for RLM/BM/BFD measurements can be QCLed with CD-SSB outside active DL BWP but within the bandwidth of the corresponding carrier(s).				
The UE supporting this feature shall also indicate support of csi-RS-RLM, beamManagementSSB-CSI-RS and maxNumberCSI-RS-BFD, maxNumberSSB-BFD, maxNumberCSI-RS-SSB-CBD. The UEs indicating the support of this feature group shall not indicate the support of bwp-WithoutRestriction.				
NOTE: The CD-SSB is still within the bandwidth of the carrier configured by SCS-SpecificCarrier of downlinkChannelBW-PerSCS-List in ServingCellConfig.				
It is not applicable to RedCap or eRedCap UEs.				
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-FR1 bands, all TDD-FR1 bands, all TDD-FR2-1 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 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 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:	Band	No	N/A	N/A
 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.	Dallu	INU	IN/A	IN/A

separateCRS-RateMatching-r16 Indicates whether the UE supports rate match around configured CRS patterns which is associated with CORESETPoolIndex (if configured) and are applied to the PDSCH scheduled with a DCI detected on a CORESET with the same value of CORESETPoolIndex. The UE that indicates support of this feature shall support multiDCI-MultiTRP-r16 and overlapRateMatchingEUTRA-CRS-r16. This is only applicable for 15kHz SCS.	Band	No	N/A	FR1 only
 sfn-DefaultDL-BeamSetup-r17 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 	Band	No	N/A	N/A
SFN scheme when scheduling offset is less than threshold. The UE indicating support of this feature shall also indicate <i>sfn-schemeA-r17</i> or <i>sfn-schemeB-r17</i> .				
 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 TCl states which overlaps with another CORESET.	Band	No	N/A	N/A
sfn-SimulTwoTCI-AcrossMultiCC-r17 Indicates whether the UE supports simultaneous activation of two TCI states for CORESETs with the same CORESET ID in all BWPs across a set of configured component carriers by single MAC-CE. The UE indicating support of this feature shall also indicate sfn-schemeA-r17 or sfn-schemeB-r17 or sfn-SchemeA-PDCCH-only-r17. The UE shall set the capability value consistently for all FDD-FR1 bands, all TDD-FR1 bands, all TDD-FR2-1 bands and all TDD-FR2-2 bands respectively.	Band	No	N/A	N/A
simul-SpatialRelationUpdatePUCCHResGroup-r16 Indicates whether the UE supports 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
simulConfigDMRS-DCI-1-3-r18 Indicates whether the UE supports to be configured with both Rel-18 enhanced DL DMRS and DCI format 1_3. A UE supporting this feature shall also indicate support of pdsch-TypeA-DMRS-r18 and at least one of multiCell-PDSCH-DCI-1-3-SameSCS-r18 and multiCell-PDSCH-DCI-1-3-DiffSCS-r18.	Band	No	N/A	N/A
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

simultaneousCSI-SubReportsPerCC-r18 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, and includes the beam report, and CSI report without sub-configurations plus CSI sub-report across CSI reports.	Band	No	N/A	N/A
NOTE 1: UE shall report the value in this capability being equal to or larger than that in simultaneousCSI-ReportsPerCC. NOTE 2: UE supporting at least one of spatialAdaptation-CSI-Feedback-r18, spatialAdaptation-CSI-FeedbackPUSCH-r18, spatialAdaptation-CSI-FeedbackAperiodic-r18, spatialAdaptation-CSI-FeedbackPUCCH-r18, powerAdaptation-CSI-FeedbackPUSCH-r18, powerAdaptation-CSI-FeedbackAperiodic-r18, and powerAdaptation-CSI-FeedbackPUCCH-r18 shall report this feature. A UE supporting this feature shall also indicate support of csi-ReportFramework.				
simultaneousReceptionDiffTypeD-r16 Indicates whether the UE supports simultaneous reception with different QCL Type D reference signal as specified in TS 38.213 [11].	Band	No	N/A	FR2 only
simultaneousReceptionTwoQCL-r18 Indicates whether the UE supports enhanced RF requirement to support FR2-1 PC6 UEs with simultaneous DL signals reception with two different QCL TypeD RSs and enhanced RRM requirement to support FR2-1 PC6 UEs with simultaneous DL signals reception associated with two different QCL TypeD RSs. This feature is applied when highSpeedDeploymentTypeFR2-r17 is configured by network as bidirectional. A UE supporting this feature shall also indicate support of PC6 in ue-PowerClass-v1700.	Band	No	N/A	FR2 only
 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
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

 spatialAdaptation-CSI-Feedback-r18 Indicates whether the UE supports spatial domain adaptation with CSI feedback based on CSI report sub-configuration(s) for periodic CSI reporting and single-panel type 1 codebook. This capability signalling comprises the following parameters: csiFeedbackType-r18 indicates CSI feedback based on CSI report sub-configuration(s), each containing one port subset configuration/list of CSI-RS resource IDs for periodic CSI reporting. Value sdType1 indicates support of SD-type1, value sdType2 indicates support of SD-type2, value both indicates support of both SD-type1 and SD-type2. If a UE reports sdType1 or both, the UE shall also indicate support of powerAdaptation-CSI-Feedback-r18 and jointPowerSpatialAdaptation-r18; 	Band	No	N/A	N/A
NOTE 1: SD-type1 refers to all sub-configurations that contain one port subset. NOTE 2: SD-type2 refers to all sub-configurations that contain list of CSI-RS resource IDs.				
 maxNumberLmax-r18 indicates the max number of sub-configurations Lmax in one CSI report configuration; maxNumberCSI-ResourcePerCC-r18 indicates the maximum number of simultaneous NZP-CSI-RS resources per CC for SD-type 1 and/or SD-type 2. 				
 maxNumberTotalCSI-ResourcePerCC-r18 indicates the maximum number of total CSI-RS ports in simultaneous NZP-CSI-RS resources per CC for SD-type 1 and/or SD-type 2. totalNumberCSI-Reporting-r18 indicates total number of periodic CSI reporting settings without sub-configurations plus the total number of sub-configurations across periodic CSI report settings with sub-configurations per BWP. 				
NOTE 3: For maxNumberCSI-ResourcePerCC-r18 and maxNumberTotalCSI-ResourcePerCC-r18, NZP-CSI-RS resource and CSI-RS ports are counted for reporting settings with and without sub-configurations.				
NOTE 4: If a UE reports more than one capability from spatialAdaptation-CSI-Feedback-r18, spatialAdaptation-CSI-FeedbackPUSCH-r18, spatialAdaptation-CSI-FeedbackPUCCH-r18, powerAdaptation-CSI-FeedbackPUCCH-r18, powerAdaptation-CSI-FeedbackPUSCH-r18, powerAdaptation-CSI-FeedbackAperiodic-r18, powerAdaptation-CSI-FeedbackPUCCH-r18 and if the UE is configured with CSI report settings with sub-configurations corresponding to a subset of the above reported features, then the supported maximum of NZP-CSI-RS resources/ports across all periodic, semi-persistent, aperiodic CSI report settings with sub-configurations corresponding to all of spatial and power domain adaptations and without sub-configurations is determined by the minimum of the reported values from that subset.				
NOTE 5: If a UE reports both spatialAdaptation-CSI-Feedback-r18 and powerAdaptation-CSI-Feedback-r18, and if the UE is configured with CSI report settings with sub-configurations corresponding to both spatialAdaptation-CSI-Feedback-r18 and powerAdaptation-CSI-Feedback-r18, then the supported total number of periodic CSI reporting settings without sub-configurations plus the total number of sub-configurations across periodic CSI report settings with sub-configurations per BWP is determined by the minimum of the reported values from both spatialAdaptation-CSI-Feedback-r18 and powerAdaptation-CSI-Feedback-r18.				
NOTE 6: If a UE reports both for csiFeedbackType-r18 and if the UE is configured with both CSI report setting(s) with sub-configurations corresponding to SD-type 1 and CSI report setting(s) with sub-configurations corresponding to SD-type 2, the supported total number of NZP-CSI-RS resources/ports for maxNumberCSI-ResourcePerCC-r18 and maxNumberTotalCSI-ResourcePerCC-r18 in spatialAdaptation-CSI-Feedback-r18 and maxNumberCSI-ResourceAcrossCC and maxNumberTotalCSI-ResourceAcrossCC-r18 in spatialAdaptation-CSI-FeedbackPerBC-r18 is determined by the minimum of the reported values between SD-type 1 and SD-type 2.				

NOTE 7:	If CSI report configuration in active BWP of a CC includes report setting(s) with sub-configurations, values reported in this capability for the number of simultaneous NZP-CSI-RS resources and ports per CC are used for the CC instead of values reported in csi-RS-IM-ReceptionForFeedback. If CSI report configuration in active BWP of any CC includes report setting(s) with sub-configurations, values reported in this capability for the number of simultaneous NZP-CSI-RS resources and ports across all CCs are used instead of values reported in csi-RS-IM-ReceptionForFeedback.		
NOTE 8:	For totalNumberCSI-Reporting-r18, if CSI report configuration in a BWP includes report setting(s) with sub-configurations, a value reported in this capability for the number of CSI reporting settings is used for the BWP instead of a value reported in csi-ReportFramework.		
	cating support of this feature shall also indicate support of csi- amework and spatialAdaptation-CSI-FeedbackPerBC-r18.		

spatialAdaptation-CSI-FeedbackAperiodic-r18 Indicates whether the UE supports spatial domain adaptation with CSI feedback based on CSI report sub-configuration(s) for aperiodic CSI reporting and single-panel type 1 codebook. This capability signalling comprises the following parameters:	Band	No	N/A	N/A
 csiFeedbackType-r18 indicates CSI feedback based on CSI report sub-configuration(s), each containing one port subset configuration/list of CSI-RS resource IDs for periodic CSI reporting. Value sdType1 indicates support of SD-type1, value sdType2 indicates support of SD-type2, value both indicates support of both SD-type1 and SD-type2. If a UE reports sdType1 or both, the UE shall also indicate support of powerAdaptation-CSI-FeedbackAperiodic-r18 and jointPowerSpatialAdaptation-r18; 				
NOTE 1: SD-type1 refers to all sub-configurations that contain one port subset. NOTE 2: SD-type2 refers to all sub-configurations that contain list of CSI-RS resource IDs.				
 maxNumberLmax-r18 indicates the max number of sub-configurations Lmax in one CSI report configuration; subReportCSI-r18 indicates N number of report of CSI sub-report(s) included in one SP-CSI report where each CSI sub-report corresponds to one sub- 				
 configuration. maxNumberCSI-ResourcePerCC-r18 indicates the maximum number of simultaneous NZP-CSI-RS resources per CC for SD-type 1 and/or SD-type 2. 				
 maxNumberTotalCSI-ResourcePerCC-r18 indicates the maximum number of total CSI-RS ports in simultaneous NZP-CSI-RS resources per CC for SD- type 1 and/or SD-type 2. 				
 totalNumberCSI-Reporting-r18 indicates total number of aperiodic CSI reporting settings without sub-configurations plus the total number of sub- configurations across aperiodic CSI report settings with sub-configurations per BWP. 				
NOTE 3: For maxNumberCSI-ResourcePerCC-r18 and maxNumberTotalCSI-ResourcePerCC-r18, NZP-CSI-RS resource and CSI-RS ports are				
counted for reporting settings with and without sub-configurations. NOTE 4: If a UE reports more than one capability from spatialAdaptation-CSI- Feedback-r18, spatialAdaptation-CSI-FeedbackPUSCH-r18, spatialAdaptation-CSI-FeedbackAperiodic-r18, spatialAdaptation-CSI-				
FeedbackPUCCH-r18, powerAdaptation-CSI-Feedback-r18, powerAdaptation-CSI-FeedbackPUSCH-r18, powerAdaptation-CSI-FeedbackAperiodic-r18, powerAdaptation-CSI-FeedbackPUCCH-r18 and				
if the UE is configured with CSI report settings with sub-configurations corresponding to a subset of the above reported features, then the supported maximum of NZP-CSI-RS resources/ports across all periodic,				
semi-persistent, aperiodic CSI report settings with sub-configurations corresponding to all of spatial and power domain adaptations and without sub-configurations is determined by the minimum of the reported values from that subset.				
NOTE 5: If a UE reports both spatialAdaptation-CSI-FeedbackAperiodic-r18 and powerAdaptation-CSI-FeedbackAperiodic-r18, and if the UE is configured with CSI report settings with sub-configurations corresponding to both spatialAdaptation-CSI-FeedbackAperiodic-r18 and powerAdaptation-CSI-				
FeedbackAperiodic-r18, then the supported total number of aperiodic CSI reporting settings without sub-configurations plus the total number of sub-configurations across aperiodic CSI report settings with sub-				
configurations per BWP is determined by the minimum of the reported values from both spatialAdaptation-CSI-FeedbackAperiodic-r18 and powerAdaptation-CSI-FeedbackAperiodic-r18.				
NOTE 6: If a UE reports both for csiFeedbackType-r18 and if the UE is configured with both CSI report setting(s) with sub-configurations corresponding to SD-type 1 and CSI report setting(s) with sub-configurations				
corresponding to SD-type 2, the supported total number of NZP-CSI-RS resources/ports for maxNumberCSI-ResourcePerCC-r18 and maxNumberTotalCSI-ResourcePerCC-r18 in spatialAdaptation-CSI-				
Feedback-r18 and maxNumberCSI-ResourceAcrossCC and maxNumberTotalCSI-ResourceAcrossCC-r18 in spatialAdaptation-CSI-FeedbackPerBC-r18 is determined by the minimum of the reported yelloop between SD type 1 and SD type 2				
values between SD-type 1 and SD-type 2.	l		l	

	If CSI report configuration in active BWP of a CC includes report setting(s) with sub-configurations, values reported in this capability for the number of simultaneous NZP-CSI-RS resources and ports per CC are used for the CC instead of values reported in csi-RS-IM-ReceptionForFeedback. If CSI report configuration in active BWP of any CC includes report setting(s) with sub-configurations, values reported in this capability for the number of simultaneous NZP-CSI-RS resources and ports across all CCs are used instead of values reported in csi-RS-IM-ReceptionForFeedback. For totalNumberCSI-Reporting-r18, if CSI report configuration in a BWP includes report setting(s) with sub-configurations, a value reported in this capability for the number of CSI reporting settings is used for the BWP		
	instead of a value reported in csi-ReportFramework.		
A UE indi	cating support of this feature shall also indicate support of csi-		
ReportFra	mework and spatialAdaptation-CSI-FeedbackAperiodicPerBC-r18.		

based on CSI report sub-conf PUCCH (or piggybacked on F capability signalling comprise - csiFeedbackType-r18 report sub-configuratio of CSI-RS resource ID piggybacked on PUSC value sdType2 indicate both SD-type1 and SD	ports spatial domain adaptation with CSI feedback figuration(s) for semi-persistent CSI reporting on PUSCH) and single-panel type 1 codebook. This is the following parameters: indicates the support of CSI feedback based on CSI on(s), each containing one port subset configuration/list of soft semi-persistent CSI reporting on PUCCH (or CH). Value sdType1 indicates support of SD-type1, es support of SD-type2, value both indicates support of D-type2. If a UE reports sdType1 or both, the UE shall of powerAdaptation-CSI-FeedbackPUCCH-r18 and	Band	No	N/A	N/A
	all sub-configurations that contain one port subset. all sub-configurations that contain list of CSI-RS				
in one CSI report confi - subReportCSI-r18 indi	indicates the max number of sub-configurations Lmax iguration; icates N number of report of CSI sub-report(s) included where each CSI sub-report corresponds to one sub-				
 maxNumberCSI-Reso 	ourcePerCC-r18 indicates the maximum number of SI-RS resources per CC for SD-type 1 and/or SD-type				
 maxNumberTotalCSI- total CSI-RS ports in s type 1 and/or SD-type totalNumberCSI-Repore reporting settings with 	orting-r18 indicates total number of semi-persistent CSI out sub-configurations plus the total number of sub-semi-persistent CSI report settings with sub-				
ResourcePerCC-r	SI-ResourcePerCC-r18 and maxNumberTotalCSI- 18, NZP-CSI-RS resource and CSI-RS ports are ng settings with and without sub-configurations.				
Feedback-r18, spa spatialAdaptation-(FeedbackPUCCH- powerAdaptation-(FeedbackAperiodi if the UE is configu corresponding to a supported maximu semi-persistent, ap corresponding to a	re than one capability from spatialAdaptation-CSI-atialAdaptation-CSI-FeedbackPUSCH-r18, CSI-FeedbackAperiodic-r18, spatialAdaptation-CSI-r18, powerAdaptation-CSI-Feedback-r18, CSI-FeedbackPUSCH-r18, powerAdaptation-CSI-r18, powerAdaptation-CSI-FeedbackPUCCH-r18 and ured with CSI report settings with sub-configurations a subset of the above reported features, then the um of NZP-CSI-RS resources/ports across all periodic, periodic CSI report settings with sub-configurations all of spatial and power domain adaptations and without is determined by the minimum of the reported values				
NOTE 7: If a UE reports more FeedbackPUSCH-powerAdaptation-CFeedbackPUCCH-with sub-configurations reporting settings vaub-configurations	re than one capability from spatialAdaptation-CSI-r18, spatialAdaptation-CSI-FeedbackPUCCH-r18, CSI-FeedbackPUSCH-r18 and powerAdaptation-CSI-r18 and if the UE is configured with CSI report settings tions corresponding to a subset of the reported supported total number of semi-persistent CSI without sub-configurations plus the total number of across semi-persistent CSI report settings with sub-BWP is determined by the minimum of the reported ubset.				
setting(s) with sub- the number of simulare used for the Contraction of the contraction o	guration in active BWP of a CC includes report -configurations, values reported in this capability for ultaneous NZP-CSI-RS resources and ports per CC C instead of values reported in <i>csi-RS-IM-lback</i> . If CSI report configuration in active BWP of any t setting(s) with sub-configurations, values reported in the number of simultaneous NZP-CSI-RS resources				

and ports across all CCs are used instead of values reported in csi-RS-IM-ReceptionForFeedback. NOTE 9: For totalNumberCSI-Reporting-r18, if CSI report configuration in a BWP includes report setting(s) with sub-configurations, a value reported in this capability for the number of CSI reporting settings is used for the BWP instead of a value reported in csi-ReportFramework.		
A UE indicating support of this feature shall also indicate support of csi- ReportFramework, sp-CSI-ReportPUCCH and spatialAdaptation-CSI- FeedbackPUCCH-PerBC-r18.		
NOTE 1: Void NOTE 2: Void		

					11/1
Indicates based on	laptation-CSI-FeedbackPUSCH-r18 whether the UE supports spatial domain adaptation with CSI feedback CSI report sub-configuration(s) for semi-persistent CSI reporting on	Band	No	N/A	N/A
following	nd single-panel type 1 codebook. This capability signalling comprises the parameters:				
COI	FeedbackType-r18 indicates CSI feedback based on CSI report sub- nfiguration(s), each containing one port subset configuration/list of CSI-RS				
	source IDs for semi-persistent CSI reporting on PUSCH. Value sdType1 licates support of SD-type1, value sdType2 indicates support of SD-type2,				
val	ue both indicates support of both SD-type1 and SD-type2. If a UE reports				
	Type1 or both, the UE shall also indicate support of powerAdaptation-CSI-edbackPUSCH-r18 and jointPowerSpatialAdaptation-r18;				
	SD-type1 refers to all sub-configurations that contain one port subset. SD-type2 refers to all sub-configurations that contain list of CSI-RS				
	resource IDs.				
	axNumberLmax-r18 indicates the max number of sub-configurations Lmax one CSI report configuration;				
- su	bReportCSI-r18 indicates N number of report of CSI sub-report(s) included one SP-CSI report where each CSI sub-report corresponds to one sub-				
- ma	nfiguration; axNumberCSI-ResourcePerCC-r18 indicates the maximum number of				
	nultaneous NZP-CSI-RS resources per CC; xNumberTotalCSI-ResourcePerCC-r18 indicates the maximum number of				
	al CSI-RS ports in simultaneous NZP-CSI-RS resources per CC; alNumberCSI-Reporting-r18 indicates total number of semi-persistent CSI				
	porting settings without sub-configurations plus the total number of sub- nfigurations across semi-persistent CSI report settings with sub-				
	figurations per BWP.				
NOTE 3:	For maxNumberCSI-ResourcePerCC-r18 and maxNumberTotalCSI-ResourcePerCC-r18, NZP-CSI-RS resource and CSI-RS ports are				
NOTE 4:	counted for reporting settings with and without sub-configurations. If a UE reports more than one capability from spatialAdaptation-CSI-				
NOTE 4.	Feedback-r18, spatialAdaptation-CSI-FeedbackPUSCH-r18,				
	spatialAdaptation-CSI-FeedbackAperiodic-r18, spatialAdaptation-CSI-FeedbackPUCCH-r18, powerAdaptation-CSI-Feedback-r18,				
	powerAdaptation-CSI-FeedbackPUSCH-r18, powerAdaptation-CSI-FeedbackAperiodic-r18, powerAdaptation-CSI-FeedbackPUCCH-r18 and				
	if the UE is configured with CSI report settings with sub-configurations corresponding to a subset of the above reported features, then the				
	supported maximum of NZP-CSI-RS resources/ports across all periodic,				
	semi-persistent, aperiodic CSI report settings with sub-configurations corresponding to all of spatial and power domain adaptations and without				
	sub-configurations is determined by the minimum of the reported values from that subset.				
NOTE 5:	If a UE reports more than one capability from spatialAdaptation-CSI- FeedbackPUSCH-r18, spatialAdaptation-CSI-FeedbackPUCCH-r18,				
	powerAdaptation-CSI-FeedbackPUSCH-r18 and powerAdaptation-CSI-FeedbackPUCCH-r18 and if the UE is configured with CSI report settings				
	with sub-configurations corresponding to a subset of the reported				
	capabilities, then the supported total number of semi-persistent CSI reporting settings without sub-configurations plus the total number of				
	sub-configurations across semi-persistent CSI report settings with sub- configurations per BWP is determined by the minimum of the reported				
NOTE 6:	values from that subset. If CSI report configuration in active BWP of a CC includes report				
NOTE 6.	setting(s) with sub-configurations, values reported in this capability for				
	the number of simultaneous NZP-CSI-RS resources and ports per CC are used for the CC instead of values reported in csi-RS-IM-				
	ReceptionForFeedback. If CSI report configuration in active BWP of any CC includes report setting(s) with sub-configurations, values reported in				
	this capability for the number of simultaneous NZP-CSI-RS resources				
	and ports across all CCs are used instead of values reported in <i>csi-RS-IM-ReceptionForFeedback</i> .				
NOTE 7:	For totalNumberCSI-Reporting-r18, if CSI report configuration in a BWP includes report setting(s) with sub-configurations, a value reported in this				

capability for the number of CSI reporting settings is used for the BWP instead of a value reported in csi-ReportFramework.				
A UE indicating support of this feature shall also indicate support of csi- ReportFramework, sp-CSI-ReportPUSCH and spatialAdaptation-CSI- FeedbackPUSCH-PerBC-r18.				
spatialRelations, spatialRelations-v1640	Band	FD	N/A	FD
Indicates whether the UE supports spatial relations. The capability signalling	Barra		''''	, ,
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 TCl 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	Band	No	N/A	FR2 only
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 <i>srs-PosResources-r16</i> . 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; 				
 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 TS 37.355 [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.				

spatialRelationsSRS-PosRRC-Inactive-r17 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;	Band	No	N/A	FR2 only
 spatialRelation-SRS-PosBasedOnCSI-RS-Serving-r16 indicates whether the UE supports spatial relation for SRS for positioning based on CSI-RS from the serving cell in the same band. The UE 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 TS 37.355 [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; 				
 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
spCell-TAG-Ind-r18 Indicates whether the UE supports indicating one of two TAG IDs configured in the SpCell via absolute TA command MAC CE. A UE supporting this feature shall also indicate support of multiDCI-IntraCellMultiTRP-TwoTA-r18 or multiDCI-InterCellMultiTRP-TwoTA-r18.	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 and all FDD-FR2 NTN bands respectively. A UE that indicates support of this feature shall indicate support of sps-Multicast-	Band	No	N/A	N/A
r17.				
 sps-r16 Indicates whether the UE support of up to 8 configured SPS configurations in a BWP of a serving cell and up to 32 configured SPS configurations in a cell group. This field includes the following parameters: maxNumberConfigsPerBWP-r16 indicates the maximum number of active SPS configurations in a BWP of a serving cell. maxNumberConfigsAllCC-r16 indicates the maximum number of active SPS configurations across all serving cells in a MAC entity, and across MCG and SCG in case of NR-DC. 	Band	No	N/A	N/A
The UE can include this feature only if the UE indicates support of <i>downlinkSPS</i> .				
 NOTE: For all the reported bands in FR1, a same X1 value is reported for maxNumberConfigsAllCC-r16. For all the reported bands in FR2, a same X2 value is reported for maxNumberConfigsAllCC-r16. The total number of active SPS configurations across all serving cells in FR1 is no greater than X1. The total number of active SPS configurations across all serving cells in FR2 is no greater than X2. If the CA have some serving cell(s) in FR1 and some serving cell(s) in FR2, the total number of active SPS configurations across all serving cells is no greater than max(X1, X2). 				
srs-AssocCSI-RS	Band	No	N/A	N/A
Parameters for the calculation of the precoder for SRS transmission based on channel measurements using associated NZP CSI-RS resource (srs-AssocCSI-RS) as described in clause 6.1.1.2 of TS 38.214 [12]. UE supporting this feature shall also indicate support of non-codebook based PUSCH transmission. This capability signalling includes list of the following parameters: - maxNumberTxPortsPerResource indicates the maximum number of Tx ports in a resource; - maxNumberResourcesPerBand indicates the maximum number of resources				
across all CCs within a band simultaneously;				
 totalNumberTxPortsPerBand indicates the total number of Tx ports across all CCs within a band simultaneously. 				
srs-combEight-r17	Band	No	N/A	N/A
Indicates whether the UE supports comb-8 for SRS other than for positioning. srs-combOffsetCombinedGroupSequence-r18	Band	No	N/A	N/A
Indicates whether the UE supports SRS comb offset hopping combined with group/sequence hopping. The UE supporting this feature shall also indicate the support of <i>srs-combOffsetHopping-r18</i> .	Danu	INO	IN/A	IN/A
srs-combOffsetHopping-r18 Indicates whether the UE supports SRS comb offset hopping. The UE supporting this feature shall also indicate the support of supportedSRS-Resources.	Band	No	N/A	N/A
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srs-combOffsetHoppingWithinSubset-r18	Band	No	N/A	N/A
Indicates whether the UE supports configuration of subset of comb offsets for comb				
offset hopping.				
A UE supporting this feature shall also indicate support of srs-combOffsetHopping-				
r18.				
srs-combOffsetInTime-r18	Band	No	N/A	N/A
Indicates whether the UE supports comb offset hopping granularity in time when				
repetition factor R>1 is configured. Value <i>srs</i> indicates the granularity is per SRS				
symbol, value rsrs indicates the granularity is per R SRS symbols, value both				
indicates both of per SRS symbol and per R SRS symbols are supported.				
The UE supporting this feature shall also indicate the support of srs-				
combOffsetHopping-r18.				
srs-cyclicShiftCombinedCombOffset-r18	Band	No	N/A	N/A
Indicates whether the UE supports SRS cyclic shift hopping combined SRS comb				
offset hopping.				
The UE supporting this feature shall also indicate the support of srs-				
combOffsetHopping-r18 and srs-cyclicShiftHopping-r18.				
srs-cyclicShiftCombinedGroupSequence-r18	Band	No	N/A	N/A
Indicates whether the UE supports SRS cyclic shift hopping combined with			,, .	.,,,
group/sequence hopping.				
The UE supporting this feature shall also indicate the support of <i>srs</i> -				
cyclicShiftHopping-r18.				
srs-cyclicShiftHopping-r18	Dond	No	N/A	N/A
	Band	INO	IN/A	IN/A
Indicates whether the UE supports SRS cyclic shift hopping.				
A UE supporting this feature shall also indicate support of supportedSRS-				
Resources.				
srs-cyclicShiftHoppingSmallGranularity-r18	Band	No	N/A	N/A
Indicates whether the UE supports configuration of cyclic shift hopping with smaller				
granularity (with factor K=2).				
A UE supporting this feature shall also indicate the support srs-cyclicShiftHopping-				
r18.				
srs-increasedRepetition-r17	Band	No	N/A	N/A
Indicates whether the UE supports increased repetition patterns (8, 10, 12, 14				
symbols) for SRS resource.				
TI 115				
The UE supporting this feature shall also indicate the support of srs-StartAnyOFDM-				
Symbol-r16.			N1/0	
srs-partialFreqSounding-r17	Band	No	N/A	N/A
Indicates the support of partial frequency sounding for SRS for non-frequency				
hopping case.				
The UE indicating support of this feature shall also indicate the support of srs-				
partialFrequencySounding-r17.				
srs-partialFrequencySounding-r17	Band	No	N/A	N/A
Indicates whether the UE supports partial frequency sounding for SRS with				
frequency hopping.				
srs-PortReport-r17	Band	No	N/A	N/A
Indicates the maximum number of SRS ports for each UE reported quantity in				
reportQuantity-r17.				
srs-PortReportSP-AP-r17	Band	No	N/A	N/A
Indicates that the UE supports the maximum number of SRS ports with semi-	Dana		,, .	'*''
persistent/aperiodic capability value reporting.				
The UE supporting this feature shall also indicate support of <i>srs-PortReport-r17</i> 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.				<u> </u>

 srs-PosResourcesRRC-Inactive-r17 Indicates support of positioning SRS transmission in RRC_INACTIVE for initial UL BWP. The capability signalling comprises the following parameters: maxNumberSRS-PosResourceSetPerBWP-r17 Indicates the max number of SRS Resource Sets for positioning supported by UE; maxNumberSRS-PosResourcesPerBWP-r17 indicates the max number of P/SP SRS Resources for positioning; maxNumberSRS-ResourcesPerBWP-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. 	Band	No	N/A	N/A
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	Band	No	N/A	N/A
support of srs-PosResourcesRRC-Inactive-r17. The capability signalling comprises the following parameters: - maxNumOfSemiPersistentSRSposResources-r17 indicates the max number of semi-persistent SRS Resources for positioning; - maxNumOfSemiPersistentSRSposResourcesPerSlot-r17 indicates the max number of semi-persistent SRS Resources for positioning per slot.				
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. The UE supporting this feature shall also indicate the support of srs-	Band	No	N/A	N/A
partialFrequencySounding-r17. srs-TriggeringDCI-r17	Band	No	N/A	N/A
Indicates whether the UE supports triggering SRS in DCI 0_1/0_2 without data and without CSI.				
srs-TriggeringOffset-r17 Indicates the maximum number of configured available slots offsets for determining aperiodic SRS location based on available slot.	Band	No	N/A	N/A

ssb-csin-sin/R-measurement-r16 Band No 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: **** Analymate/SB-CSIRS-OneTx-CMR-r16 indicates the maximum number of SSB/CSI-RS (TTX) across all CCs within a band for Channel Measurement Report *** maxNumberCSI-M-NZP-IMR-res-r16 indicates the maximum number of CSI-MNZP-IMR-res-r16 indicates the maximum number of CSI-RS (2TX) resources across all CCs within a band for Channel Measurement Report *** maxNumberCSIRS-ZTx-res-r16 indicates the maximum number of CSI-MNZP-IMR-res-mem-r16 indicates the maximum number of CSI-MNNZP-IMR-res-mem-r16 indicates the maximum number of CSI-MNNZP-IMR-res-mem-r16 indicates the maximum number of CSI-MNNZP-IMR-res-mem-r16 indicates the maximum number of CSI-RS for Channel Measurement Report. *** maxNumberCSI-RS-Pensity-CMR-r16 indicates supported density of CSI-RS for Channel Measurement Report. ** maxNumberCSI-RS-Pensity-CMR-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 indicates the supported SINR measurements. ** supportedSINR-meas indicates the supported CSI-RS as CMR with dedicated CSI-RS with a so on U. Indicates support of CSI-RS as CMR with dedicated CSI-RS with a so on U. Indicates support of CSI-RS as CMR with dedicated CSI-RS with a solidate support of country and aperiodic Bannel panel panel country and aperiodic Bannel p						_
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-M-NZP-IMR-res-r16* indicates the maximum number of CSI-MNZP-IMR resources across all CCs within a band or Channel Measurement Report maxNumberCSIRS-ZTx-res-r16* indicates the maximum number of CSI-RS (2TX) resources across all CCs within a band for Channel Measurement Report maxNumberCSI-IM-NZP-IMR resources across all CCs within a band so Channel Measurement Report **maxNumberSB-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-IMNZP-IMR-res-mem-r16* indicates supported density of CSI-RS for Channel Measurement Report. **maxNumberCSI-IM-NZP-IMR-res-mem-r16* indicates the maximum number of aperiodic CSI-RS resources across all CCs within a band configured to measure I -I-SINR (including CMR and IMR) **supportedSINR-meas indicates the supported SINR measurements. **supportedSINR-meas-r16* contains values (ssbWithcSI-IM, ssbWithNZP-IMR, csirsWithNZP-IMR, csirsWithNZP-IMR and so on. UE indicating support of speamer property of the left of csirsWithNZP-IMR and so on. UE indicating support of speamer property of the left of csirsWith and calculated in		Band	No	N/A	N/A	
This capability signalling includes list of the following parameters: **Per slot limitations: **maxNumberSSB-CSIRS-One7x-CMR-r16 indicates the maximum number of SSB/CSIRS (1TX) across all CCs within a band for Channel Measurement Report **maxNumberCSI-M-NZP-IMR-res-r16 indicates the maximum number of CSI-IMNZP-IMR resources across all CCs within a band or Channel Measurement Report **maxNumberCSIRS-Tri-tres-r16 indicates the maximum number of CSI-RS (2TX) resources across all CCs within a band for Channel Measurement Report maxNumberSSB-CSIRS-res-r16 indicates the max number of SSB/CSI-RS resources across all CCs within a band as Channel Measurement Report maxNumberCSI-M-NZP-IMR-res-men-r16 indicates the maximum number of CSI-IMN/ZP-IMR resources across all CCs within a band Other limitations: **TaxNumberCSI-M-NZ-IMR-res-men-r16 indicates the maximum number of CSI-IMN/ZP-IMR resources across all CCs within a band Other limitations: **TaxNumberAperiodicCSI-RS-Res-r16 indicates supported density of CSI-RS for Channel Measurement Report maxNumberAperiodicCSI-RS-Res-r16 indicates the maximum number of aperiodic CSI-RS-Density-CMR-r16 indicates the maximum number of aperiodic CSI-RS-Paes-r16 indicates the maximum number of aperiodic CSI-RS-Res-r16 indicates the supported SiNR-meas indicates the supported SiNR measurements. **supportedSiNR-meas indicates the supported SiNR measurements.** **supportedSiNR-meas indicates the supported SiNR measurements.** **supportedSiNR-meas indicates the supported SiNR-measurements.** **supportedSiNR-meas indicates the supported SiNR-resource NZF iMR (SSI-RS as CMR with dedicated CSI-MM, SSB as CMR with dedicated NZF iMR (SSI-RS as CMR without dedicated NZF iMR (SSI-RS ims immeasurement) in the leftmost bit corresponds to sstWithCSI-IM, the next bit corresponds to sstWithCSI-IM, sstWit	T					
Per slot limitations: - maxNumber(SSB-CSIRS-OneTx-CMR-r16 indicates the maximum number of SSB/CSI-RS (1TX) across all CCs within a band for Channel Measurement Report - maxNumber(SSI-M-NZP-IMR-res-r16 indicates the maximum number of CSI-MNZP-IMR resources across all CCs within a band - maxNumber(SSIRS-2Tx-res-r16 indicates the maximum number of CSI-RS (2TX) resources across all CCs within a band for Channel Measurement Report Report Memory limitations: - maxNumber(SSIRS-SIRS-res-r16 indicates the max number of SSB/CSI-RS resources across all CCs within a band as Channel Measurement Report - maxNumber(SSI-MNZP-IMR-res-mem-r16 indicates the maximum number of CSI-MNZP-IMR-res-mem-r16 indicates the maximum number of cSI-MNZP-IMR-res-mem-r16 indicates the maximum number of cSI-MNZP-IMR-res-mem-r16 indicates the maximum number of cost-individual cost of cSI-MNZP-IMR resources across all CCs within a band configured to measure L1-SIINR (including CMR and IMR) - supported(SI-RS-Density-CMR-r16 indicates the maximum number of aperiodic CSI-RS resources across all CCs within a band configured to measure L1-SIINR (including CMR and IMR) - supported(SI/R-meas-indicates the supported SINR measurements. - supported(SI/R-meas-r16 contains values (ssb/withCSI-IM, ssb/withXZP-IMR, csi-RSWithoutIMR) representing (SSB as CMR with dedicated CSI-IM, SSB as CMR with dedicated NZP IMR, CSI-RS as CMR with dedicated MZP IMR (SI-RS) as CMR with dedicated MZP IMR (SI-RS) as CMR without dedicated MZP IMR (SI-RS) indicates supported SINR-meas-v1670 shall slavays indicate supported SINR-meas-r16. UE supporting this feature shall also indicates support of CSI-RS as CMR with dedicated CSI-IMR-meas-r1670 indicates supported SINR-meas-v1670 shall slavays indicate support of Sib-Csi-RS-r8-s16. UE supporting this feature shall also indicates support of CSI-RS as CMR with dedicated CSI-IMR-res-r16 indicating support of sib-csi-RS-MR-ported/IMR-res-r16. UE supporting this feature shall also indicate support of CSI-RS as CMR without dedica						
- maxNumber/SSB-CSIRS-OneTx-CMR-r16 indicates the maximum number of SSB/CSI-RS (1TX) across all CCs within a band for Channel Measurement Report - maxNumber/SSIR-MNZP-IMR-res-r16 indicates the maximum number of CSI-MNXP-IMR resources across all CCs within a band - maxNumber/SSR-Tx-res-r16 indicates the maximum number of CSI-RS (2TX) resources across all CCs within a band for Channel Measurement Report - Memory limitations: - maxNumber/SSR-CSIRS-res-r16 indicates the max number of SSB/CSI-RS resources across all CCs within a band as Channel Measurement Report - maxNumber/SSI-MS-IMP-IMR-res-mem-r16 indicates the maximum number of CSI-IMN/IZP-IMR resources across all CCs within a band - Other limitations: - supported/CSI-RS-Density-CMR-r16 indicates supported density of CSI-RS for Channel Measurement Report - maxNumber/Sel-MA/IMP-IMR-resources across all CCs within a band configured to maximum number of aperiodic CSI-RS-res-r16 indicates the maximum number of aperiodic CSI-RS-res-r16 indicates the maximum number of aperiodic CSI-RS-resources across all CCs within a band configured to measure 1.1 SINR (including CMR and IMR) - supported/SIMR-meas-r16 contains values issb/WithCSI-MM, sub/WithXZP-IMR, csi-RS/WithoutIMR/P, representing (SSB as CMR with dedicated CSI-IM, SSB as CMR with dedicated NZP IMR, csi-RS/WithoutIMR), representing (SSB as CMR with dedicated MR configured) supported/SIMR-meas-r16 contains values issb/WithCSI-IM, ssb/WithXZP-IMR, csi-RS/WithoutIMR, ssb/WithXZP-IMR, csi-RS/WithoutIMR, where the leftmost bit corresponds to ssb/WithXZP-IMR, csi-RS/WithOutIMR, where the leftmost bit corresponds to ssb/WithXZP-IMR, csi-RS/WithOutIMR), where the leftmost bit corresponds to ssb/WithXZP-IMR, csi-RS/WithOutIMR, where the leftmost bit corresponds to ssb/WithXZP-IMR, csi-RS/WithXZP-IMR, cs						
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Report - maxNumberCSI-IM-NZP-IMR-res-r16 indicates the maximum number of CSI-IMNZP-IMR resources across all CCs within a band - maxNumberCSIRS-Zr-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 - maxNumberCSIRS-ZIRS-res-me-r16 indicates the maximum number of CSI-IMN/XP-IMR-res-mem-r16 indicates the maximum number of CSI-IMN/XP-IMR-res-mem-r16 indicates the maximum number of CSI-IMN/XP-IMR-res-mem-r16 indicates supported density of CSI-RS for Channel Measurement Report. - maxNumberAperiodicSI-RS-Res-res-r16 indicates the maximum number of aperiodic CSI-RS resources across all CCs within a band configured to measure 11-silnx (notuding CMR and IMR) - supportedSINR-meas indicates the supported SINR measurements. - supportedSINR-meas-r16 contains values (ssbWithCSI-IM, ssbWithXZP-IMR, csirsWithXDI-IMR, csirsWi						
- maxNumberCS-IMN-XP-IMR-res-r16 indicates the maximum number of CSI-MNXP-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 - maxNumberSSB-CSIRS-res-r16 indicates the max number of SSB/CSI-RS resources across all CCs within a band as Channel Measurement Report - 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-IMNXZP-IMR resources across all CCs within a band Other limitations: - supported/SSI-RS-Density-CMR-r16 indicates supported density of CSI-RS for Channel Measurement Report maxNumberAperiodic CSI-RS-Res-r16 indicates the maximum number of aperiodic CSI-RS-sources across all CCs within a band configured to measure 1.1-SINR (including CMR and IMR) - supported/SINR-meas-r16 contains values (ssbWithCSI-IM, ssbWithNZP-IMR, csi-RSWithDatIIMR) - supported/SINR-meas-r16 indicates a 4-bit bitmap (ssbWithCSI-IM, ssbWithNZP-IMR, csi-RSWithNZP-IMR, csi-RSWIthDatIIMR) - supported/SINR-meas-r16 indicates a 4-bit bitmap (ssbWithCSI-IM, ssbWithNZP-IMR, csi-RSWIthNZP-IMR, csi-RSWIthDatIIMR) - supported/SINR-meas-r1670 indicates a 4-bit bitmap (ssbWithNZP-IMR, ssbWithNZP-IMR, csi-RSWIthDatIIMR) - supported/SINR-meas-v1670 indicates aupported/SINR-meas-v1670 shall always indicated supported/SINR-meas-r1670 shall always indicated supported/SINR-meas-r1670 shall always indicated supported/SINR-meas-r1670 - shall always indicated supported/SINR-meas-r1670 - shall alwa						
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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-MM-NZP-IMR-res-mem-r16 indicates the maximum number of CSI-IMN/IP-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 indicates the supported SINR measurements. - supportedSINR-meas-r16 contains values (ssb/witnCSI-IM, ssb/witnNZP-IMR, csi-RSWithoutlMR) representing (SSB as CMR with dedicated CSI-IM, SSB as CMR with dedicated NZP IMR, csi-RSWithoutlMR) representing (SSB as CMR with dedicated NZP IMR, csi-RSWithoutlMR), representing (SSB as CMR with dedicated NZP IMR, csi-RSWithoutlMR), where the leftmost bit corresponds to Swb/withXSI-IM, ssb/withXP-IMR, csi-RSWithoutlMR), where the leftmost bit corresponds to swb/withXP-IMR, csi-RSWithoutlMR, where the leftmost bit corresponds to swb/withXP-IMR and so on. UE indicating support of CSI-RS as CMR with dedicated cSI-IM. UE indicates supportedSINR-meas-v1670 shall always indicate supportedSINR-meas-v1670 shall always indicate support of this feature shall also indicate support of periodicBeamReport and aperiodicBeamReport or sp.BeamReportPUCCH and sp-BeamReportPUSCH. UE indicating support of this feature shall also indicate support of periodicBeamReport and aperiodicCBeamReport or sp.BeamReportPUCCH and sp-BeamReportPUSCH. UE indicating support of this feature shall also indicate support of periodicBeamReport and aperiodicCBeamReport or sp.BeamReportPUCCH and sp-BeamReportPUSCH. UE indicating support of swb-csirs-SiNR-measurement-r16 shall support periodic and aperiodic CSI-RS-res-r16 and maxNumberCSI-IM-NZP-IMR-res-r16 an	i '					
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Other limitations: - supported/SJ-RS-Density-CMR-r16 indicates supported density of CSI-RS for Channel Measurement Report. - maxNumberAperiodic/SJ-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) - supported/SINR-meas indicates the supported SINR measurements. - supported/SINR-meas-r16 contains values (ssbWithCSI-IM, ssbWithNZP-IMR, csi-RSWithoutIMR) representing (SSB as CMR with dedicated CSI-IM, SSB as CMR with dedicated NZP IMR, csi-RSWithoutIMR) representing (SSB as CMR with dedicated NZP IMR coffigured, CSI-RS as CMR without dedicated IMR configured). - supported/SINR-meas-v1670 indicates a 4-bit bitmap (ssbWithCSI-IM, ssbWithNZP-IMR, csi-RSWithoutIMR), where the leftmost bit corresponds to ssbWithNZP-IMR, csi-RSWithoutIMR), where the leftmost bit corresponds to ssbWithNZP-IMR and so on. UE indicating supported/SINR-meas-v1670 shall always indicate supported/SINR-meas-v1670 shall support by leaven shall also indicate supported/SINR-meas-v1670 shall support by leaven shall also indicate support of this feature shall also indicate support of periodicBeamReportPUSCH UE indicating support of ssb-csirs-SINR-measurement-r16 shall support periodic and aperiodic L1-SINR report. NOTE 1: The reference slot duration is the shortest slot duration defined for the frequency range where the reported band belongs. NOTE 2: For maxNumberSSB-CSIRS-OneTx-CMR-r16, maxNumberCSI-IM-NZP-IMR-res-r16 and maxNumberCSIRS-2Tx-res-r16, cSI-RS resources configured as CMR without dedicated IMR are counted both as CMR and IMR. NOTE 3: For maxNumberSSB-CSIRS-OneTx-CMR-r16, maxNumberCSI-IM-NZP-IMR-res-r16, maxNumberCSIRS-2Tx-res-r16, maxNumberCSI-IM-NZP-IMR-res-r16, maxNumberCSIRS-2Tx-res-r16, m						
- supported/CSI-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). - supported/SINR-meas-r16 contains values (ssbWithCSI-IM, ssbWithNZP-IMR, csirsWithNZP-IMR, csirsRWithoutIMR) representing (SSB as CMR with dedicated CSI-IM, SSB as CMR with dedicated CSI-IM, SSB as CMR with dedicated IMR configured). - supported/SINR-meas-v1670 indicates a 4-bit bitmap (ssbWithCSI-IM, ssbWithNZP-IMR, csirsWithNZP-IMR, csirsWithNZP-IMR, csirsWithNZP-IMR, csirsWithNZP-IMR, csirsWithNZP-IMR, csirsWithNZP-IMR, csirsWithOutIMR), where the leftmost bit corresponds to ssbWithCSI-IM, the next bit corresponds to ssbWithSI-IMR, the next bit corresponds to ssbWithSI-IMR, the next bit corresponds to ssbWithSI-IMR, the next bit corresponds to ssbWithSI-IMR the next bit corresponds to ssbWithSI-IMR the next bit corresponds to ssbWithSI-IMR the next bit corresponds to spWithSI-IMR and so on. UE indicating supported/SINR-meas-v1670 shall always indicate support of CSI-RS as CMR with dedicated CSI-IM. UE indicating support of this feature shall also indicate support of periodicBeamReport aperiodicBeamReport aperiodicBeamReport aperiodicBeamReport aperiodicBeamReport aperiodicBeamReport and sp-BeamReportPUCCH and sp-BeamReport of sp-BeamReportPUCCH and sp-BeamReportP	of CSI-IM/NZP-IMR resources across all CCs within a band					
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-r16 contains values (ssbWithCSI-IM, ssbWithNZP-IMR, csirs/WithNZP-IMR, csirs/WithNZP-IMR and so on. UE indicating supportedSINR-meas-v1670 shall always indicate supportedSINR-meas-v16. 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 cell-cell-cell-cell-cell-cell-cell-cell						
- 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 indicates the supported SINR measurements. - supportedSINR-meas-r16 contains values (ssbWithCSI-IM, ssbWithNZP-IMR, csirsWithNZP-IMR, 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-BeamReportPUSCH. UE indicating support of sp-BeamReportPUSCH and sp-BeamReportPUSCH. UE indicating support of sp-BeamReportPUSCH and sp-BeamReportPUSCH. UE indicating support of sp-Sicris-SINR-measurement-r16 shall support periodic and aperiodic L1-SINR report. NOTE 1: The reference slot duration is the shortest slot duration defined for the frequency range where the reported band belongs. NOTE 2: For maxNumberSSB-CSIRS-res-r16 and maxNumberCSI-IM-NZP-IMR-res-r16 and maxNumberCSIRS-ZTX-res-r16, CSI-RS resources configured as CMR without dedicated IMR are counted both as CMR and IMR. NOTE 3: For maxNumberSSB-CSIRS-OneTx-CMR-r16, maxNumberCSI-IM-NZP-IMR-res-r16, maxNumberCSIRS-ZTX-res-r16, maxNumberCSIRS-IM-NZP-IMR-res-r16, maxNumberCSIRS-ZTX-res-r16, maxNumberCSIRS-IM-NZP-IMR-res-r16, maxNumberCSIRS-ZTX-res-r16, maxNumberCSIRS-IM-NZP-IMR-res-r16, maxNumberCSIRS-ZTX-res-r16, maxNumberCSIRS-IMS-T16 are source used for L1-SINR measurement is referred N times	 supportedCSI-RS-Density-CMR-r16 indicates supported density of CSI-RS 					
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, csis-WithNZP-IMR, csis-RSWithNZP-IMR, csis-RSWithNZP-IMR, csis-RSWithNZP-IMR, csis-RSWithNZP-IMR, csis-RSWithNZP-IMR, csis-RSWithNZP-IMR, csis-RSWith 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, csis-WithNZP-IMR, csis-RSWithoutIMR), where the leftmost bit corresponds to ssbWithNZP-IMR, csis-RSWithoutIMR), where the leftmost 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-BeamReportPUSCH and sp-BeamReportPUSCH. UE indicating support of sp-Scisr-SINR-measurement-r16 shall support periodic and aperiodic L1-SINR report. NOTE 1: The reference slot duration is the shortest slot duration defined for the 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-ZTx-res-r16, CSI-RS resources configured as CMR without dedicated IMR are counted both as CMR and IMR. NOTE 4: For maxNumberSSB-CSIRS-OneTx-CMR-r16, maxNumberCSI-IM-NZP-IMR-res-r16, maxNumberCSIRS-ZTx-res-r16, maxNumberCSI-IM-NZP-IMR-res-r16, maxNumberCSIRS-ZTx-res-r16, maxNumberCSI-IM-NZP-IMR-res-r16, maxNumberCSIRS-ZTx-res-r16, maxNumberCSI-IM-NZP-IMR-res-r16, maxNumberCSIRS-ZTx-res-r16, maxNumberCSIRS-ZTM-T16, till selected Nam						
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, csirsWithNZP-IMR, csirsWithNZP-IMR, csirsWithNZP-IMR, csirsWithNZP-IMR, csirsWith dedicated NZP IMR, CSI-RS as CMR with dedicated NZP IMR, CSI-RS as CMR with dedicated NZP IMR, CSI-RS as CMR with dedicated IMZ configured, - supportedSINR-meas-v1670 indicates a 4-bit bitmap (ssbWithCSI-IM, ssbWithNZP-IMR, csirsWithNZP-IMR, csi-RSWithoutIMR), where the leftmost bit corresponds to ssbWithNZP-IMR, csi-RSWithoutIMR), where the leftmost 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 SI-RS as CMR with dedicated CSI-IM. UE indicating support of ssb-csirs-SINR-measurement-r16 shall support periodic and aperiodic BeamReport or sp-BeamReportPUCCH and sp-BeamReportPUSCH. UE indicating support of ssb-csirs-SINR-measurement-r16 shall support periodic and aperiodic L1-SINR report. NOTE 1: The reference slot duration is the shortest slot duration defined for the frequency range where the reported band belongs. NOTE 2: For maxNumberSSB-CSIRS-res-r16 and maxNumberCSI-IM-NZP-IMR-res-r16 the configured CSI-RS resources for both active and inactive BWPs are counted. NOTE 3: For maxNumberSSB-CSIRS-OneTx-CMR-r16, maxNumberCSI-IM-NZP-IMR-res-r16 and maxNumberCSIRS-2Tx-res-r16, CSI-RS resources configured as CMR without dedicated IMR are counted both as CMR and IMR. NOTE 4: For maxNumberSSB-CSIRS-OneTx-CMR-r16, maxNumberCSI-IM-NZP-IMR-res-r16, maxNumberCSIRS-2Tx-res-r16, maxNumberCSI-IM-NZP-IMR-res-r16, maxNumberCSIRS-2Tx-res-r16, maxNumberCSI-IM-NZP-IMR-res-r16, maxNumberCSIRS-2Tx-res-r16, maxNumberCSI-IM-NZP-IMR-res-r16, maxNumberCSIRS-2Tx-res-r16, maxNumberCSI-IM-NZP-IMR-res-r16, maxNumberCSIRS-2Tx-res-r16, maxNumberCSI-IM-NZP-IMR-res-r						
- supportedSINR-meas indicates the supported SINR measurements supportedSINR-meas-r16 contains values (ssbWithCSI-IM, ssbWithNZP-IMR, csirsWithNZP-IMR, csirsRWithoutIMR) representing (SSB as CMR with dedicated CSI-IM, SSB as CMR with dedicated CXP IMR, colif-RSWithoutIMR) representing (SSB as CMR with dedicated LXP 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 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 rsb-eature 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 1: The reference slot duration is the shortest slot duration defined for the frequency range where the reported band belongs. NOTE 2: For maxNumberSSB-CSIRS-res-r16 and maxNumberCSI-IM-NZP-IMR-res-mem-r16 the configured CSI-RS resources for both active and inactive BWPs are counted. NOTE 3: For maxNumberSSB-CSIRS-OneTx-CMR-r16, maxNumberCSI-IM-NZP-IMR-res-r16, and maxNumberCSIRS-2Tx-res-r16, CSI-RS resources configured as CMR without dedicated IMR are counted both as CMR and IMR. NOTE 4: For maxNumberSSB-CSIRS-oneTx-CMR-r16, maxNumberCSI-IM-NZP-IMR-res-r16, maxNumberCSIRS-2Tx-res-r16, maxNumberAperiodicCSI-RS-Res-r16, a SSB/CSI-RS resource is counted within the duration of a reference slot in which the corresponding reference signals are transmitted. NOTE 5: For maxNumberSSB-CSIRS-OneTx-CMR-r16, maxNumberCSI-IM-NZP-IMR-res-r16, maxNumberCSIRS-2Tx-res-r16, maxNumberCSIRS-10-ease-r16, maxNumberCSIRS-2Tx-res-r16, maxNumberCSIRS-2Tx-res-r16, maxNumberCSIRS-2Tx-res-r16, maxNumberCSIRS-2Tx-res-r16, maxNumberCSI						
- 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, csirsWithNZP-IMR, csirsWithNZP-IMR, csirsWithNZP-IMR, csirsWithNZP-IMR, where the leftmost 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 spbeamReportPUCCH and sp-BeamReport 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 1: The reference slot duration is the shortest slot duration defined for the frequency range where the reported band belongs. NOTE 2: For maxNumberSSB-CSIRS-res-r16 and maxNumberCSI-IM-NZP-IMR-res-mem-r16 the configured CSI-RS resources for both active and inactive BWPs are counted. NOTE 3: For maxNumberSSB-CSIRS-OneTx-CMR-r16, maxNumberCSI-IM-NZP-IMR-res-r16 and maxNumberCSIRS-2Tx-res-r16, CSI-RS resources configured as CMR without dedicated IMR are counted both as CMR and IMR. NOTE 4: For maxNumberSSB-CSIRS-OneTx-CMR-r16, maxNumberCSI-IM-NZP-IMR-res-r16, maxNumberCSIRS-ZTx-res-r16, maxNumberCSIRS-ZTx-res-r16, maxNumberCSIRS-ZTx-res-r16, maxNumberCSIRS-ZTx-res-r16, maxNumberCSIRS-ZTx-res-r16, maxNumberCSIRS-ZTx						
IMR, csirsWithNZP-IMR, csi-RSWithoutIMR, representing (SSB as CMR with dedicated CSI-IM, SSB 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 n. UE indicating supportedSINR-meas-v1670 shall always indicate supportedSINR-meas-v1670 shall always indicate supportedSINR-meas-v1670 shall always indicate supportedSINR-meas-v160 shall also indicate support of CSI-RS as CMR with dedicated CSI-IM. UE indicating support of this feature shall also indicate support of Si-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 1: The reference slot duration is the shortest slot duration defined for the frequency range where the reported band belongs. NOTE 2: For maxNumberSB-CSIRS-16 and maxNumberCSI-IM-NZP-IMR-res-mem-r16 the configured CSI-RS-resources for both active and inactive BWPs are counted. NOTE 3: For maxNumberSB-CSIRS-0neTx-CMR-r16, maxNumberCSI-IM-NZP-IMR-res-r16 and maxNumberCSIRS-2Tx-res-r16, CSI-RS resources configured as CMR without dedicated IMR are counted both as CMR and IMR. NOTE 4: For maxNumberSB-CSIRS-0neTx-CMR-r16, maxNumberCSI-IM-NZP-IMR-res-r16, maxNumberCSIRS-2Tx-res-r16, maxNumberCSI-IM-NZP-IMR-res-r16, maxNumberCSIRS-2Tx-res-r						
with dedicated CSI-IM, SSB as CMR with dedicated NZP IMR, CSI-RS as CMR without 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, csirsWithNZP-IMR, csirsWithNZP-IMR, csirsWithNZP-IMR, csirsWithNZP-IMR, csirsWithNZP-IMR, 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 1: The reference slot duration is the shortest slot duration defined for the frequency range where the reported band belongs. NOTE 2: For maxNumber/SSB-CSIRS-res-rf and maxNumberCSI-IM-NZP-IMR-res-mem-r16 the configured CSI-RS resources for both active and inactive BWPs are counted. NOTE 3: For maxNumber/SSB-CSIRS-OneTx-CMR-r16, maxNumber/CSI-IM-NZP-IMR-res-r16 and maxNumberCSIRS-2Tx-res-r16, CSI-RS resources configured as CMR without dedicated IMR are counted both as CMR and IMR. NOTE 4: For maxNumber/SSB-CSIRS-OneTx-CMR-r16, maxNumber/CSI-IM-NZP-IMR-res-r16, maxNumber/SSIRS-2Tx-res-r16, maxNumber/SI-IM-NZP-IMR-res-r16, maxNumber/SSI-S-2Tx-res-r16, maxNumber/SI-IM-NZP-IMR-res-r16, maxNumber/SSI-CSIRS-OneTx-CMR-r16, maxNumber/SI-IM-NZP-IMR-res-r16, maxNumber/SI-IM-NZP-						
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-v16. 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 1: The reference slot duration is the shortest slot duration defined for the frequency range where the reported band belongs. NOTE 2: For maxNumberSSB-CSIRS-res-r16 and maxNumberCSI-IM-NZP-IMR-res-mem-r16 the configured CSI-RS resources for both active and inactive BWPs are counted. NOTE 3: For maxNumberSSB-CSIRS-OneTx-CMR-r16, maxNumberCSI-IM-NZP-IMR-res-r16 and maxNumberCSIRS-2Tx-res-r16, cSI-RS resources configured as CMR without dedicated IMR are counted both as CMR and IMR. NOTE 4: For maxNumberCSIRS-CNeTx-CMR-r16, maxNumberCSI-IM-NZP-IMR-res-r16, as SB/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, maxNumberCSI-IM-NZP-IMR-res-r16, maxNumberCSIRS-2Tx-res-r16, maxNumberCSI-IM-NZP-IMR-res-r16, if one resource used for L1-SINR measurement is referred N times by one or more CSI reporting settings with reportQuantity-r16 = ssb-Index-SINR-r16 or cri-SINR-r16, it is counted N times. NOTE 6: If more than one type of SINR measurement is indicated in supportedSINR-r06 in it is left to UE implementation which SINR						
dedicated IMR configured). - supported/SI/R-meas-v1670 indicates a 4-bit bitmap {ssbWithCSI-IM, ssbWithNZP-IMR, csirsWithNZP-IMR, csirsWithNZP-IMR, csirsWithNZP-IMR, the next bit corresponds to ssbWithNZP-IMR and so on. UE indicating supported/SI/R-meas-v1670 shall always indicate supported/SI/R-meas-v16. 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-SI/R-measurement-r16 shall support periodic and aperiodic L1-SI/R report. NOTE 1: The reference slot duration is the shortest slot duration defined for the frequency range where the reported band belongs. NOTE 2: For maxNumberSSB-CSI/RS-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-CSI/RS-OneTx-CMR-r16, maxNumberCSI-IM-NZP-IMR-res-r16 and maxNumberCSI-S-2Tx-res-r16, CSI-RS resources configured as CMR without dedicated IMR are counted both as CMR and IMR. NOTE 4: For maxNumberSSB-CSI/RS-OneTx-CMR-r16, maxNumberCSI-IM-NZP-IMR-res-r16, maxNumberCSI/RS-2Tx-res-r16, maxNumberAperiodicCSI-RS-Res-r16, maxNumberCSI/RS-2Tx-res-r16, maxNumberAperiodicCSI-RS-Res-r16, in 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-CSI/RS-OneTx-CMR-r16, maxNumberAperiodicCSI-RS-Res-r16, if one resource used for L1-SINR measurement is referred N times by one or more CSI reporting settings with reportQuantity-r16 = ssb-Index-SI/NR-r16 or cri-SI/NR-r16, it is counted N times. NOTE 6: If more than one type of SINR measurement is indicated in supportedSI/NR-meas-v1670, it is left to UE implementation which SINR						
- supportedSINR-meas-v1670 indicates a 4-bit bitmap {ssbWithCSI-IM, ssbWithNZP-IMR, csirsWithNZP-IMR, csirsWithoutIMR}, 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 1: The reference slot duration is the shortest slot duration defined for the frequency range where the reported band belongs. NOTE 2: For maxNumberSSB-CSIRS-res-r16 and maxNumberCSI-IM-NZP-IMR-res-mem-r16 the configured CSI-RS resources for both active and inactive BWPs are counted. NOTE 3: For maxNumberSSB-CSIRS-OneTx-CMR-r16, maxNumberCSI-IM-NZP-IMR-res-r16 and maxNumberCSIRS-2Tx-res-r16, CSI-RS resources configured as CMR without dedicated IMR are counted both as CMR and IMR. NOTE 4: For maxNumberSSB-CSIRS-OneTx-CMR-r16, maxNumberCSI-IM-NZP-IMR-res-r16, maxNumberCSIRS-2Tx-res-r16, maxNumberCSI-IM-NZP-IMR-res-r16, maxNumberCSIRS-2Tx-res-r16, maxNumberCSI-IM-NZP-IMR-res-r16, maxNumberCSIRS-2Tx-res-r16, maxNumberCSI-IM-NZP-IMR-res-r16, maxNumberCSIRS-2Tx-res-r16, maxNumberCSI-IM-NZP-IMR-res-r16, maxNumberCSIRS-2Tx-res-r16, maxNumberCSI-IM-NZP-IMR-res-r16, in one resource used for L1-SINR measurement is referred N times by one or more CSI resource settings with reportQuantity-r16 = ssb-Index-SINR-r16 or cri-SINR-r16, it is counted N times. NOTE 6: If more than one type of SINR measurement is indicated in supportedSINR-meas-v1670, it is left to UE implementation which SINR						
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sssg-Switching-1BitInd-r17 Indicates whether the UE supports 1-bit indication of SSSG switching between 2 SSSGs by scheduling DCI, and timer based SSSG switching, if 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].	Band	No	N/A	N/A
sssg-Switching-2BitInd-r17 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-	Band	No	N/A	N/A
Indicates whether the UE supports reception of 12 PRB CORESET0 with an associated SS/PBCH block that is located according to Table 5.4.3.1-2 in TS 38.101-1 [2]. A UE supporting this feature shall also indicate support of support3MHz-ChannelBW-Symmetric-r18. This feature is supported for 15kHz SCS only. This feature is not applicable to UEs indicating supportOfRedCap-r17 or supportOfERedCap-r18.	Band	No	FDD only	FR1 only
NOTE: The UE supporting this capability supports configuration of 12 PRB BWP operation.				
support3MHz-ChannelBW-Asymmetric-r18 Indicates whether the UE supports 3 MHz channel bandwidth in uplink with larger than 3 MHz channel BW in DL, including short RACH preamble formats with 15kHz SCS, and long PRACH formats with 1.25kHz SCS. This feature is supported for 15kHz SCS only (except for the PRACH formats with 1.25kHz SCS). It applies to bands where the UE indicates support for asymmetricBandwidthCombinationSet with 3 MHz UL according to clause 5.3.6 of TS 38.101-1 [2]. This feature is not applicable to UEs indicating supportOfRedCap-r17 or supportOfERedCap-r18. NOTE 1: The UE supporting this feature supports configuration of 15 PRB UL BWP operation. NOTE 2: If the UE indicates support in asymmetricBandwidthCombinationSet for a	Band	No	FDD only	FR1 only
3MHz UL in a band according to clause 5.3.6 of 38.101-1 [2], this feature shall be indicated for the band.				
 support3MHz-ChannelBW-Symmetric-r18 Indicates whether the UE supports 3 MHz symmetric channel bandwidth in DL and UL, including the following functional components: Reception of 12 PRB PBCH based on RB-level puncturing; Short RACH preamble formats with 15kHz SCS, and long PRACH formats with 1.25kHz SCS; Reception of 15 PRB CORESETO. This feature is supported for 15kHz SCS only (except for the PRACH formats with 1.25kHz SCS). It is applicable when an associated SS/PBCH block is located according to Table 5.4.3.3-2 in TS 38.101-1 [2]. 	Band	No	FDD only	FR1 only
This feature is not applicable to UEs indicating <i>supportOfRedCap-r17</i> or <i>supportOfERedCap-r18</i> .				
NOTE: The UE supporting this capability supports configuration of 15 PRB BWP operation in DL and UL.				
support64CandidateBeamRS-BFR-r16 Indicates UE support of configuring maximum 64 candidate beam RSs per BWP per CC. UE indicating support of this feature shall also indicate support of maxNumberCSI-RS-BFD, maxNumberSSB-BFD and maxNumberCSI-RS-SSB-CBD.	Band	No	N/A	N/A

supportCodeWordSoftCombining-r16	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 <i>supportFDM-SchemeB-r16</i>				
is also supported.	Б .		N1/A	N1/A
supportFDM-SchemeA-r16	Band	No	N/A	N/A
Indicates whether UE supports single DCI based FDMSchemeA.	<u> </u>		N 1/A	21/2
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.	D 1		N 1/A	21/2
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.				
supportOf2RxXR-r18	Band	No	N/A	N/A
Indicates that the UE is 2Rx XR UE as specified in TS 38.101-1 [2] (see "two				
antenna port XR UE"). A UE reporting this parameter shall not indicate support of				
supportOfRedCap-r17 or supportOfERedCap-r18.				
supportRepNumPDSCH-TDRA-DCI-1-2-r17	Band	No	N/A	N/A
Indicates support of repetitionNumber-v1730 in PDSCH-				
TimeDomainResourceAllocation for DCI format 1_2 and the maximum value of				
repetitionNumber-v1730. The UE indicating support of this field shall also indicate				
support of dci-Format1-2And0-2-r16.				
supportTDM-SchemeA-r16	Band	No	N/A	N/A
Indicates whether UE supports single DCI based TDMSchemeA. The capability				
signalling includes the maximum TBS size.				
supportTwoPortDL-PTRS-r16	Band	No	N/A	N/A
Indicates whether UE supports 2-port DL PT-RS. UE supports this feature should				
indicate support singleDCI-SDM-scheme-r16 for the band.				
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.				
ta-IndicationCellSwitch-r18	Band	No	N/A	N/A
Indicates whether the UE supports TA indication in cell switch command.				
A UE supporting this feature shall also indicate support of at least one of <i>ltm-MCG-</i>				
IntraFreq-r18 or Itm-SCG-IntraFreq-r18.				
For cross-band operation, this capability refers to the source band.				
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.				
UE supporting this feature shall also indicate support of tb-				
ProcessingMultiSlotPUSCH-r17.				
tci-StatePDSCH	Band	Yes	N/A	N/A
Defines support of TCI-States for PDSCH. The capability signalling comprises the	Dana			14//
following parameters:				
- maxNumberConfiguredTCI-StatesPerCC indicates the maximum number of				
configured TCI-states per CC for PDSCH. For FR2, the UE is mandated to				
set the value at least to 64 (i.e. value 128 is an optional value). For FR1, the				
UE is mandated to set these values at least to the maximum number of				
allowed SSBs in the supported band;				
- maxNumberActiveTCI-PerBWP indicates the maximum number of activated				
TCI-states per BWP per CC, including control and data. If a UE reports X				
active TCI state(s), it is not expected that more than X active QCL type D				
assumption(s) for any PDSCH and any CORESETs for a given BWP of a				
serving cell become active for the UE. The UE shall include this field.				
Serving cen become active for the OE. The OE Shall include this field.				
NOTE: the UE is required to track only the active TCI states.				
The UE is mandated to report tci-StatePDSCH.				
C_ is managed to report to older Booth		<u> </u>		

tci-StateSwitchInd-r18 Indicates whether the UE supports enhanced one-shot large UL transmit timing adjustment requirement to support FR2-1 PC6 Ues and enhanced TCI state switching delay requirements based on [the cross-RRH TCI state indication for UE-specific PDCCH MAC CE] in HST FR2 scenario, as specified in TS 38.133 [5]. A UE supporting this feature shall also indicate support of PC6 in ue-PowerClass-v1700.	Band	No	N/A	FR2 only
 tci-JointTCI-UpdateMultiActiveTCI-PerCC-r18 Indicates whether the UE supports unified TCI with joint DL/UL TCI update for single-DCI based intra-cell multi-TRP with multiple activated TCI codepoints per CC. The capability signalling comprises the following parameters: tci-StateInd-r18 indicates TCI state indication for update and activation. Value withAssignment corresponds to MAC-CE+DCI-based TCI state indication (use of monitored DCI formats 1_1 and if supported 1_2) with DL assignment, value withoutAssignment corresponds to MAC-CE+DCI-based TCI state indication (use of monitored DCI formats 1_1 and if supported 1_2) without DL assignment; maxNumberActiveJointTCI-PerCC-r18 indicates the maximum number of activated joint TCI states per CC. A UE supporting this feature shall also indicate support tci-JointTCI-UpdateSingleActiveTCI-PerCC-r18 and unifiedJointTCI-multiMAC-CE-r17. NOTE: defaultQCL-TwoTCI-r16 can be used to indicate support of two default beams 	Band	No	N/A	N/A
tci-JointTCI-UpdateMultiActiveTCI-PerCC-PerCORESET-r18 Indicates whether the UE supports unified TCI with joint DL/UL TCI update for multi-DCI based multi-TRP with multiple activated TCI codepoints per CORESETPoolIndex per CC. The capability indicates the maximum number of MAC-CE activated joint TCI states per CORESETPoolIndex per CC. The TCI state indication for update and activation includes: - MAC-CE+DCI-based TCI state indication (use of monitored DCI formats 1_1 and if supported 1_2) with DL assignment; - MAC-CE+DCI-based TCI state indication (use of monitored DCI formats 1_1 and if supported 1_2) without DL assignment. A UE supporting this feature shall also indicate support of tci-JointTCI-UpdateSingleActiveTCI-PerCC-PerCORESET-r18 and unifiedJointTCI-multiMAC-CE-r17.	Band	No	N/A	N/A
tci-JointTCI-UpdateSingleActiveTCI-PerCC-r18 Indicates whether the UE supports unified TCI with joint DL/UL TCI update for single-DCI based intra-cell multi-TRP with single activated TCI codepoint per CC. The capability signalling comprises the following parameters: - maxNumberConfigJointTCIPerCC-PerBWP-r18 indicates the maximum number of configured joint TCI states per CC per BWP; - maxNumberActiveJointTCI-AcrossCC-r18 indicates the maximum number of activated joint TCI states across all CCs in a band. A UE supporting this feature shall also indicate support of unifiedJointTCI-r17. NOTE: defaultQCL-TwoTCI-r16 can be used to indicate support of two default beams.	Band	No	N/A	N/A
tci-JointTCI-UpdateSingleActiveTCI-PerCC-PerCORESET-r18 Indicates whether the UE supports unified TCI with joint DL/UL TCI update for multi-DCI based multi-TRP with single activated TCI codepoint per CORESETPoolIndex per CC. A UE supporting this feature supports one MAC-CE activated joint TCI-states per CC in a band for a TRP associated with a 'coresetPoolIndex' value. The capability signalling comprises the following parameters: - mTRP-Operation-r18 indicates mTRP operation for M-DCI with joint TCI state; - maxNumberConfigJointTCIPerCC-PerBWP-r18 indicates the maximum number of configured joint TCI states per BWP per CC; - maxNumberActiveJointTCIAcrossCC-PerCORESET-r18 indicates the maximum number of activated joint TCI states across all CCs in a band per 'coresetPoolIndex' value. A UE supporting this feature shall also indicate support of unifiedJointTCI-r17. NOTE 1: Activated joint TCI state(s) include all PDCCH/PDSCH receptions and PUSCH/PUCCH transmissions. NOTE 2: defaultQCL-PerCORESETPoolIndex-r16 can be used to indicate support of two default beams.	Band	No	N/A	N/A

tci-SelectionAperiodicCSI-RS-r18 Indicates whether the UE supports per aperiodic CSI-RS resource/resource set configuration for TCI selection in S-DCI based MTRP. The UE supporting this feature shall also indicate support of tci-JointTCI-UpdateSingleActiveTCI-PerCC-r18.	Band	No	N/A	N/A
NOTE: When the UE supports NCJT CSI under mTRP-CSI- EnhancementPerBand-r17 or CJT CSI under twoTCI-StatePDSCH-CJT- TxScheme-r18, UE is expected to support "per resource" when the corresponding NCJT CSI or CJT CSI is configured.				
tci-SelectionAperiodicCSI-RS-M-DCI-r18	Band	No	N/A	N/A
Indicates whether the UE supports per aperiodic CSI-RS resource/resource set configuration for TCI selection in M-DCI based MTRP. The UE supporting this feature shall also indicate support of tci-JointTCI-UpdateSingleActiveTCI-PerCC-PerCORESET-r18.	Dand	NO	IV/A	IWA
tci-SelectionDCI-r18 Indicates whether the UE supports DCI format 1_1 and if supported 1_2 configured with TCI selection field. The UE supporting this feature shall also indicate support of at least one of tci-JointTCI-UpdateSingleActiveTCI-PerCC-r18, tci-JointTCI-UpdateMultiActiveTCI-PerCC-r18, tci-SeparateTCI-UpdateSingleActiveTCI-PerCC-r18, and tci-SeparateTCI-UpdateMultiActiveTCI-PerCC-r18.	Band	No	N/A	N/A
tci-SeparateTCI-UpdateMultiActiveTCI-PerCC-r18 Indicates whether the UE supports unified TCI with separate DL/UL TCI update for single-DCI based intra-cell multi-TRP with multiple activated TCI codepoints per CC. TCI state indication for update and activation includes: - MAC-CE+DCI-based TCI state indication (use of monitored DCI formats 1_1 and if supported 1_2) with DL assignment; - MAC-CE+DCI-based TCI state indication (use of monitored DCI formats 1_1 and if supported 1_2) without DL assignment. The capability signalling comprises the following parameters: - maxNumActiveDL-TCI-AcrossCC-r18 indicates the maximum number of activated DL TCI states across all CCs in a band. - maxNumActiveUL-TCI-AcrossCC-r18 indicates the maximum number of activated UL TCI states across all CCs in a band. The UE supporting this feature shall also indicate support of tci-SeparateTCI-UpdateSingleActiveTCI-PerCC-r18. NOTE: defaultQCL-TwoTCI-r16 can be used to indicate support of two default beams.	Band	No	N/A	N/A
tci-SeparateTCI-UpdateMultiActiveTCI-PerCC-PerCORESET-r18 Indicates whether the UE supports unified TCI with separate DL/UL TCI update for multi-DCI based multi-TRP with multiple activated TCI codepoints per CORESETPoolIndex per CC. TCI state indication for update and activation includes: - MAC-CE+DCI-based TCI state indication (use of monitored DCI formats 1_1 and if supported 1_2) with DL assignment; - MAC-CE+DCI-based TCI state indication (use of monitored DCI formats 1_1 and if supported 1_2) without DL assignment. The capability signalling comprises the following parameters: - maxNumConfigDL-TCI-PerCC-PerBWP-r18 indicates the maximum number of activated DL TCI states per CORESETPoolIndex per CC per BWP; - maxNumConfigUL-TCI-PerCC-PerBWP-r18 indicates the maximum number of activated UL TCI states per CORESETPoolIndex per CC per BWP. A UE supporting this feature shall also indicate support of tci-SeparateTCI-UpdateSingleActiveTCI-PerCC-PerCORESET-r18 and unifiedSeparateTCI-multiMAC-CE-r17.	Band	No	N/A	N/A

 tci-SeparateTCI-UpdateSingleActiveTCI-PerCC-r18 Indicates whether the UE supports unified TCI with separate DL/UL TCI update for single-DCI based intra-cell multi-TRP with single activated TCI codepoint per CC. The capability signalling comprises the following parameters: maxNumConfigDL-TCI-PerCC-PerBWP-r18 indicates the maximum number of configured DL TCI states per CC per BWP; maxNumConfigUL-TCI-PerCC-PerBWP-r18 indicates the maximum number of configured UL TCI states per CC per BWP; maxNumActiveDL-TCI-AcrossCC-r18 indicates the maximum number of activated DL TCI states across all CCs in a band; maxNumActiveUL-TCI-AcrossCC-r18 indicates the maximum number of activated UL TCI states across all CCs in a band. A UE supporting this feature shall also indicate support of tci-JointTCI-UpdateSingleActiveTCI-PerCC-r18 and unifiedSeparateTCI-r17. NOTE: defaultQCL-TwoTCI-r16 can be used to indicate support of two default 	Band	No	N/A	N/A
beams tci-SeparateTCI-UpdateSingleActiveTCI-PerCC-PerCORESET-r18 Indicates whether the UE supports unified TCI with separate DL/UL TCI update for multi-DCI based multi-TRP with single activated TCI codepoint per CORESETPoolIndex per CC.	Band	No	N/A	N/A
A UE supporting this feature supports one MAC-CE activated DL TCI-state per CC in a band for a TRP associated with a 'coresetPoolIndex' value and one MAC-CE activated UL TCI-state per CC in a band for a TRP associated with a 'coresetPoolIndex' value.				
 The capability signalling comprises the following parameters: mTRP-Operation-r18 indicates the mTRP operation for M-DCI with separate DL/UL TCI state; maxNumConfigDL-TCI-PerCC-PerBWP-r18 indicates the maximum number of configured DL TCI states per CC per BWP; maxNumConfigUL-TCI-PerCC-PerBWP-r18 indicates the maximum number of configured UL TCI states per CC per BWP; maxNumActiveDL-TCI-AcrossCC-r18 indicates the maximum number of activated DL TCI states across all CCs in a band; maxNumActiveUL-TCI-AcrossCC-r18 indicates the maximum number of activated UL TCI states across all CCs in a band. 				
A UE supporting this feature shall also indicate support of tci-JointTCI- UpdateSingleActiveTCI-PerCC-PerCORESET-r18 and unifiedSeparateTCI-r17.				
tci-TRP-BFR-r18 Indicates whether the UE supports TRP-specific BFR with unified TCI framework with unified TCI. A UE supporting this feature shall also indicate support of mTRP-BFR-twoBFD-RS-Set-r17.	Band	No	N/A	N/A
tdcp-Report-r18 Indicates whether the UE supports Y=1 delay value for TDCP report and amplitude report. The UE also supports to configure K _{TRS} = 1 TRS resource set.	Band	No	N/A	N/A
 This capability signalling comprises the following parameters: valueX-r18 indicates CPU occupation (Ocpu=(Y+1)*X); maxNumberActiveResource-r18 indicates the index N of the maximum number of simultaneously active CSI-RS resources for TDCP across all CCs within a band. The maximum number of simultaneously active CSI-RS resources for TDCP across all CCs within a band is N*2, where N = {232}. A UE supporting this feature shall also indicate support of csi-ReportFramework and simultaneousCSI-ReportsAllCC. NOTE: Counting of simultaneously active CSI-RS resources follows existing specification TS 38.214 [12]. 				

tdcp-Resource-r18	Band	No	N/A	N/A
Indicates the number of CSI-RS resources for TDCP that the UE supports.				
This capability signalling comprises the following parameters:				
 maxNumberConfigPerCC-r18 indicates the maximum number of configured 				
CSI-RS resources for TDCP per CC.				
 maxNumberConfigAcrossCC-r18 indicates the index N the maximum 				
number of configured CSI-RS resources for TDCP across all CCs within a				
band. The maximum number of configured CSI-RS resources for TDCP				
across all CCs within a band is N^*2 , where $N = \{132\}$.				
- maxNumberSimultaneousPerCC-r18 indicates the maximum number of				
simultaneously active CSI-RS resources for TDCP per CC.				
A UE supporting this feature shall indicate support of tdcp-Report-r18.				
NOTE: Counting of simultaneously active CSI-RS resources follows existing specification TS 38.214 [12].				
thresholdBasedMulticastResume-r18	Band	No	N/A	N/A
Indicates whether the UE supports thresholdMBS-List-r18 as specified in TS 38.331				
[9].				
A UE supporting this feature shall also indicate support of <i>multicastlnactive-r18</i> .				
timeBasedCondHandover-r17	Band	No	N/A	N/A
Indicates whether the UE supports time based conditional handover, i.e.,			, .	
CondEvent T1 as specified in TS 38.331 [9]. A UE supporting this feature shall also				
indicate the support of <i>condHandover-r16</i> for NTN bands and the support of				
nonTerrestrialNetwork-r17. UE shall set the capability value consistently for all FDD-				
FR1 NTN bands and all FDD-FR2 NTN bands respectively. The inter-band time				
based conditional handover is supported only if the UE sets the capability value for				
the source PCell and the target PCell bands.				
timelineRelax-CJT-CSI-r18	Band	CY	N/A	N/A
Indicates whether the UE supports timeline relaxation parameter for regular eType-	Danu	01	IN/A	IN/A
II-CJT CSI, or for port selection FeType-II-CJT CSI. Value <i>n0</i> indicates 0, value <i>n2</i>				
indicates Z2.				
A UE supporting this feature shall also indicate support of <i>eType2CJT-r18</i> or				
feType2CJT-r18.				
NOTE: A UE that supports <i>eType2CJT-r18</i> or <i>feType2CJT-r18</i> must signal this				
feature.				
triggeredHARQ-CodebookRetx-r17	Band	No	N/A	N/A
Indicates whether the UE supports triggered HARQ-ACK codebook re-transmission	Dana	110	11//	IN//
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 minHARQ-Retx-Offset-r17 and maxHARQ-				
Retx-Offset-r17 is valid for HARQ CBs consisted of HARQ Processes				
with a single HARQ bit per HARQ Process ID.				

 triggeredHARQ-CodebookRetxDCI-1-3-r18 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_3 and supports 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 in simultaneous-2-1-HARQ-ACK-CB-r18). The capability signalling comprises the following parameters: minHARQ-Retx-Offset-r18 indicates minimum value for the HARQ re-tx offset. Value n-7 corresponds to -7, value n-5 corresponds to -5, and so on. If the UE also supports triggeredHARQ-CodebookRetx-r17, the same values as minHARQ-Retx-Offset-r18 indicates maximum value for the HARQ re-tx offset. If the UE also supports triggeredHARQ-CodebookRetx-r17, the same values as maxHARQ-Retx-Offset-r17 is reported. 	Band	No	N/A	N/A
A UE supporting this feature shall also indicate support of at least one of <i>multiCell-PDSCH-DCI-1-3-SameSCS-r18</i> and <i>multiCell-PDSCH-DCI-1-3-DiffSCS-r18</i> .				
NOTE: The minimum requirement for minHARQ-Retx-Offset-r18 and maxHARQ-Retx-Offset-r18 is valid for HARQ CBs consisting of HARQ Processes with a single HARQ bit per HARQ Process ID.				
trs-AdditionalBandwidth-r16 Indicates the UE supported TRS bandwidths, 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. Value trs-AddBW-Set1 indicates 28, 32, 36, 40, 44, 48 RBs. Value trs-AddBW-Set2 indicates 32, 36, 40, 44, 48 RBs.	Band	No	FDD only	FR1 only
twoHARQ-ACK-CodebookForUnicastAndMulticast-r17 Indicates whether the UE supports two HARQ-ACK codebooks simultaneously constructed for supporting HARQ-ACK codebooks with different priorities for unicast 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 and all FDD-FR2 NTN bands respectively.				
A UE supporting this feature shall also indicate support of <i>priorityIndicatorInDCI-Multicast-r17</i> .				
twoPHR-Reporting-r18 Indicates whether the UE supports two PHR reporting related to STx2P. A UE supporting this feature shall also indicate support of at least one of pusch-CB-SingleDCI-STx2P-SDM-r18, pusch-NonCB-SingleDCI-STx2P-SDM-r18, pusch-CB-SingleDCI-STx2P-SFN-r18, pusch-NonCB-SingleDCI-STx2P-SFN-r18, twoPUSCH-CB-MultiDCI-STx2P-DG-DG-r18, and twoPUSCH-NonCB-MultiDCI-STx2P-DG-DG-r18. NOTE: If gNB does not configure corresponding RRC parameter for this feature, UE will report a PHR for an actual PUSCH transmission and PHR for the first indicated TCI state or PHR associated with coresetPoolIndex0 is	Band	No	N/A	FR2 only
reported if actual PUSCH transmission is based on STx2P schemes. twoPortsPTRS-UL	Band	No	N/A	N/A
Defines whether UE supports PT-RS with 2 antenna ports for UL transmission.				
twoPUSCH-CB-MultiDCI-STx2P-CG-CG-r18 Indicates whether the UE supports multi-DCI based STx2P CG-PUSCH+CG-PUSCH. A UE supporting this feature shall also indicate support of twoPUSCH-CB-MultiDCI-	Band	No	N/A	FR2 only
STx2P-DG-DG-r18.	<u> </u>	.	N 1/2	
twoPUSCH-CB-MultiDCI-STx2P-CG-DG-r18 Indicates whether the UE supports multi-DCI based STx2P DG-PUSCH+CG-PUSCH. A UE supporting this feature shall also indicate support of twoPUSCH-CB-MultiDCI-ST-CR-DC-DC-r18	Band	No	N/A	FR2 only
STx2P-DG-DG-r18. twoPUSCH-CB-MultiDCI-STx2P-FullTimeFullFreqOverlap-r18 Indicates whether the UE supports fully overlapping PUSCHs in time and fully overlapping in frequency for codebook multi-DCI based STx2P PUSCH+PUSCH. A UE supporting this feature shall also indicate support of twoPUSCH-CB-MultiDCI-STx2P-DG-DG-r18.	Band	No	N/A	FR2 only

twoPUSCH-CB-MultiDCI-STx2P-FullTimePartialFreqOverlap-r18 Indicates whether the UE supports fully overlapping PUSCHs in time and partially overlapping in frequency for codebook multi-DCI based STx2P PUSCH+PUSCH. A UE supporting this feature shall also indicate support of twoPUSCH-CB-MultiDCI-STx2P-DG-DG-r18.	Band	No	N/A	FR2 only
twoPUSCH-CB-MultiDCI-STx2P-PartialTimeFullFreqOverlap-r18 Indicates whether the UE supports partially overlapping PUSCHs in time and fully overlapping in frequency for codebook multi-DCI based STx2P PUSCH+PUSCH. A UE supporting this feature shall also indicate support of twoPUSCH-CB-MultiDCI-STx2P-DG-DG-r18.	Band	No	N/A	FR2 only
twoPUSCH-CB-MultiDCI-STx2P-PartialTimeNonFreqOverlap-r18 Indicates whether the UE supports the partially overlapping PUSCHs in time, non-overlapping in frequency for codebook multi-DCI based STx2P PUSCH+PUSCH. A UE supporting this feature shall also indicate support of twoPUSCH-CB-MultiDCI-STx2P-DG-DG-r18.	Band	No	N/A	FR2 only
twoPUSCH-CB-MultiDCI-STx2P-PartialTimePartialFreqOverlap-r18 Indicates whether the UE supports the partially overlapping PUSCHs in time, partially overlapping in frequency for codebook multi-DCI based STx2P PUSCH+PUSCH. A UE supporting this feature shall also indicate support of twoPUSCH-CB-MultiDCI-STx2P-DG-DG-r18.	Band	No	N/A	FR2 only
twoPUSCH-NonCB-MultiDCI-STx2P-CG-CG-r18 Indicates whether the UE supports multi-DCI based STx2P CG-PUSCH+CG-PUSCH for noncodebook. A UE supporting this feature shall also indicate support of twoPUSCH-NonCB-MultiDCI-STx2P-DG-DG-r18.	Band	No	N/A	FR2 only
twoPUSCH-NonCB-MultiDCI-STx2P-CG-DG-r18 Indicates whether the UE supports multi-DCI based STx2P DG-PUSCH+CG-PUSCH for noncodebook. A UE supporting this feature shall also indicate support of twoPUSCH-NonCB-MultiDCI-STx2P-DG-DG-r18.	Band	No	N/A	FR2 only
Indicates whether the UE supports up to two NZP CSI-RS resources associated with the two SRS resource sets for multi-DCI non-codebook based STx2P scheme for PUSCH. The capability signalling comprises the following parameters: - maxNumberPeriodicSRS-r18 indicates the maximum number of periodic SRS resources associated with first and second CSI-RS per BWP; - maxNumberAperiodicSRS-r18 indicates the maximum number of aperiodic SRS resources associated with first and second CSI-RS per BWP; - maxNumberSemiPersistentSRS-r18 indicates the maximum number of semi-persistent SRS resources associated with first and second CSI-RS per BWP; - simultaneousSRS-PerCC-r18 indicates the number of P/SP/A SRS resources associated with first and second CSI-RS resources simultaneously in a CC that the UE can process; - simultaneousCSI-RS-NonCB-r18 indicates the maximum number of CSI-RS resources associated with SRS for non-codebook-based transmission simultaneously that the UE can process. A UE supporting this feature shall also indicate support of srs-AssocCSI-RS, csi-RS-IM-ReceptionForFeedbackPerBandComb and twoPUSCH-NonCB-MultiDCI-STx2P-DG-DG-r18.	Band	No	N/A	FR2 only
twoPUSCH-NonCB-MultiDCI-STx2P-FullTimeFullFreqOverlap-r18 Indicates whether the UE supports fully overlapping PUSCHs in time and fully overlapping in frequency for noncodebook multi-DCI based STx2P PUSCH+PUSCH. A UE supporting this feature shall also indicate support of twoPUSCH-NonCB-MultiDCI-STx2P-DG-DG-r18.	Band	No	N/A	FR2 only
twoPUSCH-NonCB-MultiDCI-STx2P-FullTimePartialFreqOverlap-r18 Indicates whether the UE supports fully overlapping PUSCHs in time and partially overlapping in frequency for noncodebook multi-DCI based STx2P PUSCH+PUSCH. A UE supporting this feature shall also indicate support of twoPUSCH-NonCB-MultiDCI-STx2P-DG-DG-r18.	Band	No	N/A	FR2 only
twoPUSCH-NonCB-MultiDCI-STx2P-PartialTimeFullFreqOverlap-r18 Indicates whether the UE supports partially overlapping PUSCHs in time and fully overlapping in frequency for noncodebook multi-DCI based STx2P PUSCH+PUSCH. A UE supporting this feature shall also indicate support of twoPUSCH-NonCB-MultiDCI-STx2P-DG-DG-r18.	Band	No	N/A	FR2 only

twoPUSCH-NonCB-MultiDCI-STx2P-PartialTimeNonFreqOverlap-r18 Indicates whether the UE supports partially overlapping PUSCHs in time, non-overlapping in frequency for noncodebook multi-DCI based STx2P PUSCH+PUSCH.	Band	No	N/A	FR2 only
A UE supporting this feature shall also indicate support of <i>twoPUSCH-NonCB-MultiDCI-STx2P-DG-DG-r18</i> .				
twoPUSCH-NonCB-MultiDCI-STx2P-PartialTimePartialFreqOverlap-r18	Band	No	N/A	FR2
Indicates whether the UE supports partially overlapping PUSCHs in time, partially overlapping in frequency for noncodebook multi-DCI based STx2P				only
PUSCH+PUSCH. A UE supporting this feature shall also indicate support of <i>twoPUSCH-NonCB-MultiDCI-STx2P-DG-DG-r18</i> .				
twoRateMatchingEUTRA-CRS-patterns-3-4-r18	Band	No	N/A	FR1
Indicates whether the UE supports two LTE-CRS overlapping rate matching	Dana	. 10	1 477 1	only
patterns configured by <i>Ite-CRS-PatternList3-r18</i> and <i>Ite-CRS-PatternList4-r18</i> within				
a part of NR carrier using 15 kHz SCS overlapping with an LTE carrier (regardless of support or configuration of multi-TRP) for the case when <i>crs-RateMatch</i> -				
PerCORESETPoolIndex-r16 is not configured. The capability signalling comprises				
the following parameters:				
 maxNumberPatterns-r18 indicates the maximum number of LTE-CRS rate matching patterns in total within a NR carrier using 15 kHz SCS. 				
- maxNumberNon-OverlapPatterns-r18 indicates the maximum number of				
LTE-CRS non-overlapping rate matching patterns within a NR carrier using 15 kHz SCS.				
A UE supporting this feature shall also indicate support of <i>rateMatchingLTE-CRS</i> .				
NOTE: If a UE supports this feature and multipleRateMatchingEUTRA-CRS-r16,				
multipleRateMatchingEUTRA-CRS-r16 is reported for Ite-CRS-				
PatternList1-r16 and Ite-CRS-PatterList2-r16 and twoRateMatchingEUTRA-CRS-patterns-3-4-r18 is reported for Ite-CRS-				
PatternList3-r18 and Ite-CRS-PatternList4-r18.				
twoTCI-StatePDSCH-CJT-TxScheme-r18	Band	No	N/A	N/A
Indicates whether the UE supports two TCI states for CJT Tx scheme for PDSCH. Value cjtSchemeA corresponds to PDSCH DMRS port(s) is QCLed with the DL RSs				
of both indicated joint/DL TCI states with respect to QCL-TypeA, value <i>cjtSchemeB</i>				
corresponds to PDSCH DMRS port(s) is QCLed with the DL RSs of both indicated joint/DL TCI states with respect to QCL-TypeA except for QCL parameters {Doppler				
shift, Doppler spread} of the second indicated joint/DL TCI state. Value <i>both</i>				
corresponds to the supporting of both cjtSchemeA and cjtSchemeB.				
A UE supporting this feature shall also indicate support of <i>tci-JointTCI-UpdateSingleActiveTCI-PerCC-r18</i> .				
txDiversity-r16	Band	No	N/A	FR1
Indicates whether the UE supports transparent Tx diversity requirements for 2Tx as				only
specified in the suffix G clauses of TS 38.101-1 [2] (see also clauses 4.2 and 4.3 of TS 38.101-1 [2]).				
This field is only applicable for single CC case (i.e. non-CA).				
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 <i>harq-FeedbackDisabled-r17</i> . This field is only				
applicable for bands in Table 5.2.2-1 in TS 38.101-5 [34] and HAPS operation				
bands in clause 5.2 of TS 38.104 [35]. type1-PUSCH-RepetitionMultiSlots-v1650	Band	No	N/A	N/A
Indicates whether the UE supports Type 1 PUSCH transmissions with configured	Dana	140	IN//A	IN/A
grant as specified in TS 38.214 [12] with UL-TWG-repK value equal to 2, 4, or 8				
with a single repetition of the transport block within each slot, and redundancy version pattern as indicated by UL-TWG-RV-rep. A UE supporting this feature shall				
also support Type 1 PUSCH transmissions with configured grant as specified in TS				
38.214 [12] with UL-TWG-repK value of one. This applies only to non-shared				
spectrum channel access. For shared spectrum channel access, <i>type1-PUSCH-RepetitionMultiSlots-r16</i> applies. 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 and all FDD-FR2 NTN bands respectively.				
The UE only includes type1-PUSCH-RepetitionMultiSlots-v1650 if type1-PUSCH-				
RepetitionMultiSlots is absent				

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].			.	.
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, <i>type2-PUSCH-</i>				
RepetitionMultiSlots-r16 applies. 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 and all FDD-FR2 NTN bands				
respectively.				
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	Danu	INO	1 N/ /*\	13//*
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].				
ue-OneShotUL-TimingAdj-r17	Band	No	N/A	FR2
Indicates whether the UE supports one shot large UL timing adjustment.	Bana		,, .	only
				J,
UE indicating support of this feature shall indicate support of <i>ue-PowerClass-v1700</i>				
set to 'pc6'.				
ue-PowerClass, ue-PowerClass-v1610, ue-PowerClass-v1700	Band	Yes	N/A	N/A
For FR1, if the UE supports the different UE power class than the default UE power				
class as defined in clause 6.2 of TS 38.101-1 [2], or in clause 6.2 of TS 38.101-5				
[34], the UE shall report the supported UE power class in this field. For FR2, UE				
shall report the supported UE power class as defined in clause 6 and 7 of TS				
38.101-2 [3] in this field. UE indicating support for <i>pc6</i> supports the enhanced intra-				
NR RRM and demodulation processing requirements for FR2 to support high speed				
up to 350 km/h as specified in TS 38.133 [5]. This capability is not applicable to IAB-				
MT or NCR-MT. The power class pc7 is only applicable for RedCap UEs operation				
in FR2. This capability is not applicable for UEs indicating support of				
maxOutputPowerATG-r18.				
ue-specific-K-Offset-r17	Band	No	N/A	N/A
Indicates whether the UE supports the reception of UE-specific K-offset comprised				
of the following functional components:				
- Support of reception of Differential 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 Differential K-offset				
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 and Table 5.2.3-1 in TS 38.101-5 [34] and				
HAPS operation bands in clause 5.2 of TS 38.104 [35].				
ue-TA-Measurement-r18	Band	No	N/A	N/A
Indicates whether the UE supports UE-based TA measurement by indicating the	Danu	INO	14/74	IN/A
maximum number of candidate cells that the UE maintains the TA for.				
A UE supporting this feature shall also indicate the support of at least one of <i>ltm</i> -				
MCG-IntraFreq-r18 or Itm-SCG-IntraFreq-r18.				
For cross-band operation, this capability refers to the source band.				
ul-GapFR2-r17	Dond	No	N/A	FR2
		INU	1 N/ /~1	1114
Indicates whether the LIE supports FR2 III dan to perform RPS consing for IV	Band			only
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]	Бапи			only
power management by the use of uplink gap patterns as specified in TS 38.133 [5]	Бапи			only
	Band			only

 unified Joint TCI-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 	Band	No	N/A	N/A
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				
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-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	Band	No	N/A	FR2 only
unifiedJointTCI-r17.				
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
 unified Joint TCI-Inter Cell-r17 Indicates the support of unified TCI with joint DL/UL TCI update for inter-cell beam management including following parameters: additional MAC-CE-Per CC-r17 indicates the number of K additional MAC-CEs to indicate joint TCI states per CC in a band. additional MAC-CE-Across CC-r17 indicates the number of K additional MAC-CE activated joint TCI states across all CC(s) in a band. 	Band	No	N/A	N/A
A UE indicating support of this shall also indicate support of <i>unifiedJointTCI-r17</i> and <i>unifiedJointTCI-mTRP-InterCell-BM-r17</i> .				
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.				
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-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	Band	No	N/A	N/A
unifiedJointTCI-r17.	Dend	N/-	NI/A	NI/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).	Band	No	N/A	N/A
The UE indicating support of this feature shall also indicate support of unifiedJointTCI-r17.				

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 <i>unifiedJointTCI-r17</i> . A UE that supports CA and <i>unifiedJointTCI-r17</i> 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, unifiedJointTCI-multiMAC-CE-v17b0 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. 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.				
unifiedJointTCI-multiMAC-CE-r17 is included only when the UE supports a single SCS for the band in all the supported band combinations. unifiedJointTCI-multiMAC-CE-v17b0 is only included when unifiedJointTCI-multiMAC-CE-r17 is absent.				
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.				

Indicates whether the UE supports unified TCI with joint DL/UL TCI update by DCI format 1_3 for intra-cell and inter-cell beam management with more than one MAC-CE activated joint TCI state per CC. This capability also indicates support of using TCI state indication for update and activation, i.e. MAC-CE+DCI-based TCI state indication (use of DCI formats 1_3 with DL assignment for at least one serving cell in a scheduledCellListDCI-1-3 to provide indicated unified TCI state(s) for the CC(s) in the scheduledCellListDCI-1-3). The capability signalling comprises the following parameters: minBeamApplicationTime-r18 indicates the minimum beam application time in symbols per SCS. If the UE also supports unifiedJointTCI-multiMAC-CE-r17, same values as minBeamApplicationTime-r17 for unifiedJointTCI-multiMAC-CE-r17 are reported. maxActivatedTCI-PerCC-r18 indicates the maximum number of MAC-CE activated joint TCI states per CC in a band. If the UE also supports unifiedJointTCI-multiMAC-CE-r17, same values as maxNumMAC-CE-PerCC-r17 for unifiedJointTCI-multiMAC-CE-r17 are reported. NOTE 1: The maximum number of MAC-CE activated joint TCI state is signalled in maxActivatedTCIAcrossCC-r17 of unifiedJointTCI-r17. NOTE 2: Activated joint TCI state(s) include all PDCCH/PDSCH receptions and PUSCH/PUCCH. A UE supporting this feature shall also indicate support of unifiedJointTCI-r17, and at least one of multiCell-PDSCH-DCI-1-3-SameSCS-r18 and multiCell-PDSCH-DCI-	Band	No	N/A	N/A
1-3-DiffSCS-r18.				
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-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-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 	Band	No	N/A	N/A
TCI states per BWP per CC - maxConfiguredUL-TCI-r17 indicates the maximum number of configured UL TCI states per BWP per CC - maxActivatedDL-TCIAcrossCC-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				
The UE indicating support of this feature shall also indicate support of unifiedJointTCI-r17. If a UE supports unifiedSeparateTCI-InterCell-r17, the maxConfiguredDL-TCI-r17 and maxConfiguredUL-TCI-r17 apply to intra- and intercell beam management jointly. unifiedSeparateTCI-commonMultiCC-r17	Band	No	N/A	N/A
Indicates the Common multi-CC DL/UL-TCI state ID update and activation.	Dallu	INU	IN/A	IN/A
The UE indicating support of this feature shall also indicate support of				

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unifiedSeparateTCI-InterCell-r17	Band	No	N/A	N/A
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.				
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.				
dimiodopardio Por FFF.				
NOTE: A UE that supports this feature supports K additional MAC-CE activated				
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 unifiedSeparateTCI-				
r17. The signalled value in k-DL-AcrossCC-r17 (k-UL-AcrossCC-r17) plus				
the signalled value in maxActivatedDL-TCIAcrossCC-r17				
(maxActivatedUL-TCIAcrossCC-r17) 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	Band	No	N/A	N/A
Indicates the support of reference BWP/serving cell configured with reference TCI				
state pool shared by a set of BWPs/serving cells. The value indicates the maximum				
number of configured DL/UL TCI state pools across all BWPs and all serving cells in				
a band.				
unifiedSeparateTCI-multiMAC-CE-r17, unifiedSeparateTCI-multiMAC-CE-v17b0	Band	No	N/A	N/A
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).				
maios. De adolgrimony.				
This capability signalling includes the following parameters:				
- minBeamApplicationTime-r17 indicates the minimum beam application time				
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				
unification and a TOL mouth MAC OF matrix in a land and a subsection of the LUE and				
unifiedSeparateTCI-multiMAC-CE-r17 is included only when the UE supports a				
single SCS for the band in all the supported band combinations.				
unifiedSeparateTCI-multiMAC-CE-v17b0 is only included when unifiedSeparateTCI-				
multiMAC-CE-r17 is absent.				
The UE indicating support of this feature shall also indicate support of				
unifiedSeparateTCI-r17.	1	I		l

unifiedSeparateTCI-MultiMAC-CE-In		Band	No	N/A	N/A
	fied TCI with separate DL/UL TCI update by				
	nagement with more than one MAC-CE				
	This capability also indicates support of TCI				
state indication for update and activation					
	n DL assignment for at least one serving cell de indicated unified TCI state(s) for the CC(s)				
in the scheduledCellListDCI-1-3 to provi	de indicated drillied 101 state(s) for the 00(s)				
The capability signalling comprises the	following parameters:				
	ndicates the minimum beam application time				
	also supports unifiedJointTCI-multiMAC-CE-				
	ApplicationTime-r17 for unifiedJointTCI-				
multiMAC-CE-r17 are reported.					
	8 indicates the maximum number of MAC-CE				
activated DL TCI states per CC					
	8 indicates the maximum number of MAC-CE				
activated UL TCI states per CC	in a band.				
If a UE supports unifiedSeparateTCI-Ii	nterCell-r17, the signalled component values				
also apply to inter-cell beam managem					
	indicate support of <i>unifiedSeparateTCI-r17</i> ,				
and at least one of <i>multiCell-PDSCH-L</i> DCI-1-3-DiffSCS-r18.	OCI-1-3-SameSCS-r18 and multiCell-PDSCH-				
	ne-r18, maxActivatedDL-TCI-PerCC-r18 and				
maxActivatedUL-TCI-PerC					
	AC-CE-r17, same values as for				
unifiedSeparateTCI-multiMa					
unifiedSeparateTCI-perBWP-CA-r17		Band	No	N/A	N/A
Indicates the support of DL/UL TCI sta	te pool configuration per BWP for CA mode.				
The UE indicating aupport of this factu	re shall also indicate support of				
The UE indicating support of this featu unifiedSeparateTCI-r17.	re shall also indicate support of				
uplinkBeamManagement		Band	No	N/A	FR2
	for UL. This capability signalling comprises				only
the following parameters:	, , , , , , ,				,
	Set-BM indicates the maximum number of				
	ce set configurable for beam management,				
supported by the UE.					
	indicates the maximum number of SRS				
If the UE does not set beamCorrespor	peam management, supported by the UE.				
	ability. This feature is optional for the UE that				
	at uplink beam sweeping as defined in clause				
6.6, TS 38.101-2 [3].					
NOTE: The network was a mark to	harCDC Daggirag Catte data was in a this				
	berSRS-ResourceSet to determine the				
maximum number of SRS re	esource sets that can be configured to the UE				
maximum number of SRS refor periodic/semi-persistent/	esource sets that can be configured to the UE aperiodic configurations as below:				
maximum number of SRS refor periodic/semi-persistent	esource sets that can be configured to the UE aperiodic configurations as below: Additional constraint on the maximum				
maximum number of SRS refor periodic/semi-persistent/ Maximum number of SRS resource sets across all time	aperiodic configurations as below: Additional constraint on the maximum number of SRS resource sets				
maximum number of SRS refor periodic/semi-persistent/ Maximum number of SRS resource sets across all time domain behaviour	Additional constraint on the maximum number of SRS resource sets configured to the UE for each				
maximum number of SRS refor periodic/semi-persistent/ Maximum number of SRS resource sets across all time domain behaviour (periodic/semi-	Additional constraint on the maximum number of SRS resource sets configured to the UE for each supported time domain behaviour				
maximum number of SRS refor periodic/semi-persistent/ Maximum number of SRS resource sets across all time domain behaviour	Additional constraint on the maximum number of SRS resource sets configured to the UE for each				
maximum number of SRS refor periodic/semi-persistent/ Maximum number of SRS resource sets across all time domain behaviour (periodic/semi-persistent/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)				
maximum number of SRS refor periodic/semi-persistent/ Maximum number of SRS resource sets across all time domain behaviour (periodic/semi-persistent/aperiodic) reported in maxNumberSRS-ResourceSet 1 2	Additional constraint on the maximum number of SRS resource sets configured to the UE for each supported time domain behaviour (periodic/semi-persistent/aperiodic)				
maximum number of SRS refor periodic/semi-persistent/ Maximum number of SRS resource sets across all time domain behaviour (periodic/semi-persistent/aperiodic) reported in maxNumberSRS-ResourceSet 1 2 3	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 1				
maximum number of SRS refor periodic/semi-persistent/ Maximum number of SRS resource sets across all time domain behaviour (periodic/semi-persistent/aperiodic) reported in maxNumberSRS-ResourceSet 1 2 3 4	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 1 2				
maximum number of SRS refor periodic/semi-persistent/ Maximum number of SRS resource sets across all time domain behaviour (periodic/semi-persistent/aperiodic) reported in maxNumberSRS-ResourceSet 1 2 3 4 5	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 1 2 2				
maximum number of SRS refor periodic/semi-persistent/ Maximum number of SRS resource sets across all time domain behaviour (periodic/semi-persistent/aperiodic) reported in maxNumberSRS-ResourceSet 1 2 3 4	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 1 2				
maximum number of SRS refor periodic/semi-persistent/ Maximum number of SRS resource sets across all time domain behaviour (periodic/semi-persistent/aperiodic) reported in maxNumberSRS-ResourceSet 1 2 3 4 5 6	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 1 2 2 2 2				

Indicates whether the UE supports the uplink time and frequency pre-compensation and timing relationship enhancements comprised of the following functional components: - Support of UE specific TA calculation based on its GNSS-acquired position and the serving satellite ephemeris Support of common TA calculation according to the parameters provided by the network (UE considers common TA as 0 if the parameters are not provided) - For TA update in RRC_CONNECTED state, support of combination of both open (i.e. UE autonomous TA estimation, and common TA estimation) and closed (i.e., received TA commands) control loops - Support of pre-compensation of the calculated TA in its uplink transmissions - Support of estimating UE-gNB RTT and delaying the start of RAR window by UE-gNB RTT - Support of frequency pre-compensation to counter shift the Doppler experienced on the service link - Support of determining timing of the scheduling of PUSCH, PUCCH and PDCCH ordered PRACH, CSI reference resource, transmission of aperiodic SRS activation of TA command, first PUSCH transmission in CG Type 2 with cell-specific K_offset if indicated - Support of determining timing of the UE action and assumption on a downlink configuration carried by MAC CE command by K_mac if it is indicated and determining the timing of PDCCH monitoring in recovery search space using K-mac during beam failure recovery procedure - Support of UE receiving cell-specific K_offset/K_mac in system information Support of this feature in NTN bands is mandatory for UE supporting nonTerrestrial/Network-r17. This field is only applicable for bands in Table 5.2.2-1 and Table 5.2.3-1 in TS 38.101-5 [34] and HAPS operation bands in clause 5.2 of TS 38.104 [35]. **Uplink-TA-Reporting-r17** Indicates whether the UE supports UE reporting of information related to TA pre-compensation as specified in TS 38.321 [8]. UE indicating support of this feature shall also indicate support of uplinkPreCompensation-r17 for this band. This field is only applicable for bands in clau	uplinkPreCompensation-r17	Band	CY	N/A	N/A
components: - Support of UE specific TA calculation based on its GNSS-acquired position and the serving satellite ephemeris. - Support of common TA calculation according to the parameters provided by the network (UE considers common TA as 0 if the parameters are not provided) - For TA update in RRC_CONNECTED state, support of combination of both open (i.e. UE autonomous TA estimation, and common TA estimation) and closed (i.e., received TA commands) control loops - Support of pre-compensation of the calculated TA in its uplink transmissions - Support of estimating UE-gNB RTT and delaying the start of RAR window by UE-gNB RTT - Support of frequency pre-compensation to counter shift the Doppler experienced on the service link - Support of determining timing of the scheduling of PUSCH, PUCCH and PDCCH ordered PRACH, CSI reference resource, transmission of aperiodic SRS activation of TA command, first PUSCH transmission in CG Type 2 with cell-specific K_offset if indicated - Support of determining timing of the UE action and assumption on a downlink configuration carried by MAC CE command by K_mac if it is indicated and determining the timing of PDCCH monitoring in recovery search space using K-mac during beam failure recovery procedure - Support of UE receiving cell-specific K_offset/K_mac in system information Support of this feature in NTN bands is mandatory for UE supporting nonTerrestrial/Network-117. This field is only applicable for bands in Table 5.2.2-1 and Table 5.2.3-1 in TS 38.101-5 [34] and HAPS operation bands in clause 5.2 of TS 38.104 [35]. uplink-TA-Reporting-r17 Indicates whether the UE supports UE reporting of information related to TA precompensation as specified in TS 38.321 [8]. UE indicating support of this feature shall also indicate support of uplinkPreCompensation-r17 for this band. This field is only applicable for bands in Table 5.2.3-1 in TSh 5.8.101-5 [34] and	Indicates whether the UE supports the uplink time and frequency pre-compensation				
- Support of UE specific TA calculation based on its GNSS-acquired position and the serving satellite ephemeris. - Support of common TA calculation according to the parameters provided by the network (UE considers common TA as 0 if the parameters are not provided) - For TA update in RRC_CONNECTED state, support of combination of both open (i.e. UE autonomous TA estimation, and common TA estimation) and closed (i.e., received TA commands) control loops - Support of pre-compensation of the calculated TA in its uplink transmissions - Support of pre-compensation of the calculated TA in its uplink transmissions - Support of pre-compensation to counter shift the Doppler experienced on the service link - Support of frequency pre-compensation to counter shift the Doppler experienced on the service link - Support of determining timing of the scheduling of PUSCH, PUCCH and PDCCH ordered PRACH, CSI reference resource, transmission of aperiodic SRS activation of TA command, first PUSCH transmission in CG Type 2 with cell-specific K_offset if indicated - Support of determining timing of the UE action and assumption on a downlink configuration carried by MAC CE command by K_mac if it is indicated and determining the timing of PDCCH monitoring in recovery search space using K-mac during beam failure recovery procedure - Support of UE receiving cell-specific K_offset/K_mac in system information Support of this feature in NTN bands is mandatory for UE supporting nonTerrestrialNetwork-r17. This field is only applicable for bands in Table 5.2.2-1 and Table 5.2.3-1 in TS 38.101-5 [34] and HAPS operation bands in clause 5.2 of TS 38.104 [35]. Uplink-TA-Reporting-r17 Indicates whether the UE supports UE reporting of information related to TA precompensation as specified in TS 38.321 [8]. UE indicating support of this feature shall also indicate support of uplinkPreCompensation-r17 for this band. This field is only applicable for bands in Table 5.2.3-1 in TS 38.101-5 [34] and					
and the serving satellite ephemeris. Support of common TA calculation according to the parameters provided by the network (UE considers common TA as 0 if the parameters are not provided) For TA update in RRC_CONNECTED state, support of combination of both open (i.e. UE autonomous TA estimation, and common TA estimation) and closed (i.e., received TA commands) control loops Support of pre-compensation of the calculated TA in its uplink transmissions Support of estimating UE-gNB RTT and delaying the start of RAR window by UE-gNB RTT Support of frequency pre-compensation to counter shift the Doppler experienced on the service link Support of determining timing of the scheduling of PUSCH, PUCCH and PDCCH ordered PRACH, CSI reference resource, transmission of aperiodic SRS activation of TA command, first PUSCH transmission in CG Type 2 with cell-specific K. offset if indicated Support of determining timing of the UE action and assumption on a downlink configuration carried by MAC CE command by K_mac if it is indicated and determining the timing of PDCCH monitoring in recovery search space using K-mac during beam failure recovery procedure Support of UE receiving cell-specific K_offset/K_mac in system information Support of this feature in NTN bands is mandatory for UE supporting nonTerrestrialNetwork-r17. This field is only applicable for bands in Table 5.2.2-1 and Table 5.2.3-1 in TS 38.101-5 [34] and HAPS operation bands in clause 5.2 of TS 38.104 [35]. Uplink-TA-Reporting-r17 Indicates whether the UE supports UE reporting of information related to TA precompensation as specified in TS 38.321 [8]. UE indicating support of this feature shall also indicate support of uplinkPreCompensation-r17 for this band. This field is only applicable for bands in Table 5.2.2-1 and Table 5.2.3-1 in TS 38.101-5 [34] and	I I				
- Support of common TA calculation according to the parameters provided by the network (UE considers common TA as 0 if the parameters are not provided) - For TA update in RRC_CONNECTED state, support of combination of both open (i.e. UE autonomous TA estimation, and common TA estimation) and closed (i.e., received TA commands) control loops - Support of pre-compensation of the calculated TA in its uplink transmissions - Support of estimating UE-gNB RTT and delaying the start of RAR window by UE-gNB RTT - Support of frequency pre-compensation to counter shift the Doppler experienced on the service link - Support of determining timing of the scheduling of PUSCH, PUCCH and PDCCH ordered PRACH, CSI reference resource, transmission of aperiodic SRS activation of TA command, first PUSCH transmission in CG Type 2 with cell-specific K_offset if indicated - Support of determining timing of the UE action and assumption on a downlink configuration carried by MAC CE command by K_mac if it is indicated and determining the timing of PDCCH monitoring in recovery search space using K-mac during beam failure recovery procedure - Support of UE receiving cell-specific K_offset/K_mac in system information Support of this feature in NTN bands is mandatory for UE supporting nonTerrestrialNetwork-r17. This field is only applicable for bands in Table 5.2.2-1 and Table 5.2.3-1 in TS 38.101-5 [34] and HAPS operation bands in clause 5.2 of TS 38.104 [35]. Band No N/A Indicates whether the UE supports UE reporting of information related to TA pre- compensation as specified in TS 38.321 [8]. UE indicating support of this feature shall also indicate support of uplinkPreCompensation-r17 for this band. This field is only applicable for bands in Table 5.2.2-1 and Table 5.2.3-1 in TS 38.101-5 [34] and					
the network (UE considers common TA as 0 if the parameters are not provided) For TA update in RRC_CONNECTED state, support of combination of both open (i.e. UE autonomous TA estimation, and common TA estimation) and closed (i.e., received TA commands) control loops Support of pre-compensation of the calculated TA in its uplink transmissions Support of estimating UE-gNB RTT and delaying the start of RAR window by UE-gNB RTT Support of frequency pre-compensation to counter shift the Doppler experienced on the service link Support of determining timing of the scheduling of PUSCH, PUCCH and PDCCH ordered PRACH, CSI reference resource, transmission of aperiodic SRS activation of TA command, first PUSCH transmission in CG Type 2 with cell-specific K_offset if indicated Support of determining timing of the UE action and assumption on a downlink configuration carried by MAC CE command by K_mac if it is indicated and determining the timing of PDCCH monitoring in recovery search space using K-mac during beam failure recovery procedure Support of UE receiving cell-specific K_offset/K_mac in system information Support of this feature in NTN bands is mandatory for UE supporting nonTerrestrialNetwork-r17. This field is only applicable for bands in Table 5.2.2-1 and Table 5.2.3-1 in TS 38.101-5 [34] and HAPS operation bands in clause 5.2 of TS 38.104 [35]. Uplink-TA-Reporting-r17 Indicates whether the UE supports UE reporting of information related to TA precompensation as specified in TS 38.321 [8]. UE indicating support of this feature shall also indicate support of uplinkPreCompensation-r17 for this band. This field is only applicable for bands in Table 5.2.3-1 in TS 38.101-5 [34] and					
provided) For TA update in RRC_CONNECTED state, support of combination of both open (i.e. UE autonomous TA estimation, and common TA estimation) and closed (i.e., received TA commands) control loops Support of pre-compensation of the calculated TA in its uplink transmissions Support of estimating UE-gNB RTT and delaying the start of RAR window by UE-gNB RTT Support of frequency pre-compensation to counter shift the Doppler experienced on the service link Support of determining timing of the scheduling of PUSCH, PUCCH and PDCCH ordered PRACH, CSI reference resource, transmission of aperiodic SRS activation of TA command, first PUSCH transmission in CG Type 2 with cell-specific K_offset if indicated Support of determining timing of the UE action and assumption on a downlink configuration carried by MAC CE command by K_mac if it is indicated and determining the timing of PDCCH monitoring in recovery search space using K-mac during beam failure recovery procedure Support of UE receiving cell-specific K_offset/K_mac in system information Support of this feature in NTN bands is mandatory for UE supporting nonTerrestrialNetwork-r17. This field is only applicable for bands in Table 5.2.2-1 and Table 5.2.3-1 in TS 38.101-5 [34] and HAPS operation bands in clause 5.2 of TS 38.104 [35]. **Uplink-TA-Reporting-r17** Indicates whether the UE supports UE reporting of information related to TA precompensation as specified in TS 38.321 [8]. UE indicating support of this feature shall also indicate support of uplinkPreCompensation-r17 for this band. This field is only applicable for bands in Table 5.2.3-1 in TS 38.101-5 [34] and					
- For TA update in RRC_CONNECTED state, support of combination of both open (i.e. UE autonomous TA estimation, and common TA estimation) and closed (i.e., received TA commands) control loops - Support of pre-compensation of the calculated TA in its uplink transmissions - Support of estimating UE-gNB RTT and delaying the start of RAR window by UE-gNB RTT - Support of frequency pre-compensation to counter shift the Doppler experienced on the service link - Support of determining timing of the scheduling of PUSCH, PUCCH and PDCCH ordered PRACH, CSI reference resource, transmission of aperiodic SRS activation of TA command, first PUSCH transmission in CG Type 2 with cell-specific K_offset if indicated - Support of determining timing of the UE action and assumption on a downlink configuration carried by MAC CE command by K_mac if it is indicated and determining the timing of PDCCH monitoring in recovery search space using K-mac during beam failure recovery procedure - Support of UE receiving cell-specific K_offset/K_mac in system information Support of this feature in NTN bands is mandatory for UE supporting nonTerrestrialNetwork-r17. This field is only applicable for bands in clause 5.2.2-1 and Table 5.2.3-1 in TS 38.101-5 [34] and HAPS operation bands in clause 5.2 of TS 38.104 [35]. uplink-TA-Reporting-r17 Indicates whether the UE supports UE reporting of information related to TA precompensation as specified in TS 38.321 [8]. UE indicating support of this feature shall also indicate support of uplink/PeCompensation-r17 for this band. This field is only applicable for bands in Table 5.2.3-1 in TS 38.101-5 [34] and	· ·				
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UE-gNB RTT - Support of frequency pre-compensation to counter shift the Doppler experienced on the service link - Support of determining timing of the scheduling of PUSCH, PUCCH and PDCCH ordered PRACH, CSI reference resource, transmission of aperiodic SRS activation of TA command, first PUSCH transmission in CG Type 2 with cell-specific K_offset if indicated - Support of determining timing of the UE action and assumption on a downlink configuration carried by MAC CE command by K_mac if it is indicated and determining the timing of PDCCH monitoring in recovery search space using K-mac during beam failure recovery procedure - Support of UE receiving cell-specific K_offset/K_mac in system information Support of this feature in NTN bands is mandatory for UE supporting nonTerrestrialNetwork-r17. This field is only applicable for bands in Table 5.2.2-1 and Table 5.2.3-1 in TS 38.101-5 [34] and HAPS operation bands in clause 5.2 of TS 38.104 [35]. uplink-TA-Reporting-r17 Indicates whether the UE supports UE reporting of information related to TA precompensation as specified in TS 38.321 [8]. UE indicating support of this feature shall also indicate support of uplinkPreCompensation-r17 for this band. This field is only applicable for bands in Table 5.2.2-1 and Table 5.2.3-1 in TS 38.101-5 [34] and	- Support of pre-compensation of the calculated TA in its uplink transmissions				
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experienced on the service link - Support of determining timing of the scheduling of PUSCH, PUCCH and PDCCH ordered PRACH, CSI reference resource, transmission of aperiodic SRS activation of TA command, first PUSCH transmission in CG Type 2 with cell-specific K_offset if indicated - Support of determining timing of the UE action and assumption on a downlink configuration carried by MAC CE command by K_mac if it is indicated and determining the timing of PDCCH monitoring in recovery search space using K-mac during beam failure recovery procedure - Support of UE receiving cell-specific K_offset/K_mac in system information Support of this feature in NTN bands is mandatory for UE supporting nonTerrestrialNetwork-r17. This field is only applicable for bands in Table 5.2.2-1 and Table 5.2.3-1 in TS 38.101-5 [34] and HAPS operation bands in clause 5.2 of TS 38.104 [35]. Uplink-TA-Reporting-r17 Indicates whether the UE supports UE reporting of information related to TA precompensation as specified in TS 38.321 [8]. UE indicating support of this feature shall also indicate support of uplinkPreCompensation-r17 for this band. This field is only applicable for bands in Table 5.2.2-1 and Table 5.2.3-1 in TS 38.101-5 [34] and	UE-gNB RTT				
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compensation as specified in TS 38.321 [8]. UE indicating support of this feature shall also indicate support of <i>uplinkPreCompensation-r17</i> for this band. This field is only applicable for bands in Table 5.2.2-1 and Table 5.2.3-1 in TS 38.101-5 [34] and		Danu	INO	IN/A	IN/A
shall also indicate support of <i>uplinkPreCompensation-r17</i> for this band. This field is only applicable for bands in Table 5.2.2-1 and Table 5.2.3-1 in TS 38.101-5 [34] and					
only applicable for bands in Table 5.2.2-1 and Table 5.2.3-1 in TS 38.101-5 [34] and					

4.2.7.2a SharedSpectrumChAccessParamsPerBand

Definitions for parameters	Per	М	FDD- TDD DIFF	FR1- FR2 DIFF
UI-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	Band	CY	N/A	N/A
access mode. Support of this feature is mandatory if UE supports any of the deployment scenarios A.2, B, C, D and E in Annex B.3 of TS 38.300 [28] with semi-static channel access mode.				
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	Band	CY	N/A	N/A
mode. sib1-Acquisition-r16 Indicates whether the UE supports acquiring SIB1 on an unlicensed cell for PCell. Support of this feature is mandatory if UE supports any of the deployment scenarios C and D in Annex B.3 of TS 38.300 [28].	Band	CY	N/A	N/A
extRA-ResponseWindow-r16 Indicates whether the UE supports the configuration of maximum length of RAR window with a value larger than 10ms and up to 40ms by decoding of the 2 LSBs of SFN in the DCI format 1_0 for 4-step RA type. Support of this feature is mandatory if the UE supports any of the deployment scenarios B, C, D and E in Annex B.3 of TS 38.300 [28].	Band	CY	N/A	N/A
ssb-BFD-CBD-dynamicChannelAccess-r16 Indicates whether the UE supports SSB based Beam Failure Detection and Candidate Beam Detection with N _{SSB} QCL for dynamic channel access mode.	Band	No	N/A	N/A
ssb-BFD-CBD-semi-staticChannelAccess-r16 Indicates whether the UE supports SSB based Beam Failure Detection and Candidate Beam Detection with N _{SSB} QCL for semi-static channel access mode.	Band	No	N/A	N/A
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	Band	No	N/A	N/A
Indicates whether the UE supports RSSI measurements and channel occupancy				
reporting.				
srs-StartAnyOFDM-Symbol-r16	Band	No	N/A	N/A
Indicates whether the UE supports transmitting SRS starting in all symbols (0 to 13)				
of a slot. This capability is also applicable to a frequency band that does not require				
shared spectrum access.				
searchSpaceFreqMonitorLocation-r16	Band	No	N/A	N/A
Indicates the maximum number of frequency domain locations supported by the UE,	Dana	110	,, .	,, .
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	Danu	140	14/7	14/7
capability is also applicable to a frequency band that does not require shared				
spectrum access.			N1/A	N1/A
cgi-Acquisition-r16	Band	No	N/A	N/A
Indicates whether the UE supports acquisition of CGI information from a				
neighbouring NR unlicensed cell in an unlicensed carrier by reading SIB1 of the				
neighbouring unlicensed cell and reporting the acquired information to the network.				
configuredUL-Tx-r16	Band	No	N/A	N/A
Indicates whether the UE supports configuration of enableConfiguredUL-r16 and				
enable transmission of higher-layer configured UL (SRS, PUCCH, CG-PUSCH, etc)				
when SFI field in DCI 2_0 is configured but DCI 2_0 is not detected.				
prach-Wideband-r16	Band	No	N/A	N/A
Indicates whether the UE supports enhanced PRACH design for operation with				
shared spectrum channel access by adopting a single long ZC sequence, with ZC				
sequence = 1151 for 15 kHz and ZC sequence = 571 for 30 kHz.				
dci-AvailableRB-Set-r16	Band	No	N/A	N/A
Indicates whether the UE supports monitoring DCI 2_0 to read available RB set	Danu	140	14/7	11/7
indicator.				
dci-ChOccupancyDuration-r16	Band	No	N/A	N/A
Indicates whether the UE supports monitoring DCI 2_0 to read COT duration.	Danu	INO	IN//	IN/A
	Dond	No	NI/A	NI/A
typeB-PDSCH-length-r16	Band	No	N/A	N/A
Indicates whether the UE supports 1. Type B PDSCH length {3, 5, 6, 8, 9, 10, 11,				
12, 13) without DMRS shift due to CRS collision. This capability is also applicable to				
a frequency band that does not require shared spectrum access.				
searchSpaceSwitchWithDCI-r16	Band	No	N/A	N/A
Indicates whether the UE supports switching between two groups of search space				
sets with DCI 2_0 monitoring that comprises of the following functional components:				
 Monitor DCI 2_0 with a search space set switching field; 				
 Support switching the search space set group with PDCCH decoding in 				
group 1;				
 Support a timer to switch back to original search space set group; 				
 Monitor DCI 2_0 for channel occupancy time and use the end of channel 				1
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	Dana	'10	1 1// 1	'*/^
configured for up to 16 cells. UE indicating support of this feature shall indicate				
support of searchSpaceSwitchWithDCI-r16.				<u> </u>

 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 the following functional components: Support switching the search space set group with PDCCH decoding in group 1; 	Band	No	N/A	N/A
- Support a timer to switch back to original search space set group.				
The UE can switch search space set groups for different cells independently, unless the UE supports <i>jointSearchSpaceSwitchAcrossCells-r16</i> . The UE supports search space set group switching capability-1: P=25/25/25 symbols for μ=0/1/2, unless the UE supports searchSpaceSwitchCapability2-r16.				
searchSpaceSwitchCapability2-r16	Band	No	N/A	N/A
Indicates whether the UE supports search space set group switching Capability-2: $P=10/12/22$ symbols for $\mu=0/1/2$ SCS. If the UE supports this feature, the UE needs to report searchSpaceSwitchWithDCI-r16 or searchSpaceSwitchWithoutDCI-r16.	Bana	140	14//	14// (
non-numericalPDSCH-HARQ-timing-r16 Indicates whether the UE supports configuration of a value for dl-DataToUL-ACK-	Band	No	N/A	N/A
r16 indicating an inapplicable time to report HARQ ACK.				
 enhancedDynamicHARQ-codebook-r16 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); 	Band	No	N/A	N/A
 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 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; 	Band	No	N/A	N/A
 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 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.	Band	No	N/A	N/A
csi-RS-RLM-r16 Indicates whether the UE supports CSI-RS based RLM for NR-Unlicensed.	Band	No	N/A	N/A
csi-RSRP-AndRSRQ-MeasWithSSB-r16	Band	No	N/A	N/A
Indicates whether the UE can perform CSI-RSRP and CSI-RSRQ measurement as specified in TS 38.215 [13], where CSI-RS resource is configured with an associated SS/PBCH in shared spectrum channel access.			,.	
csi-RSRP-AndRSRQ-MeasWithoutSSB-r16 Indicates whether the UE can perform CSI-RSRP and CSI-RSRQ measurement as specified in TS 38.215 [13], where CSI-RS resource is configured for a cell that transmits SS/PBCH block and without an associated SS/PBCH block in shared spectrum channel access.	Band	No	N/A	N/A
csi-SINR-Meas-r16 Indicates whether the UE can perform CSI-SINR measurements based on configured CSI-RS resources as specified in TS 38.215 [13] in shared spectrum channel access. If the UE supports this feature, the UE needs to report maxNumberCSI-RS-RRM-RS-SINR. UE indicating support of this feature shall indicate support of csi-RSRP-AndRSRQ-MeasWithSSB-r16.	Band	No	N/A	N/A

ssb-AndCSI-RS-RLM-r16	Band	No	N/A	N/A
Indicates whether the UE can perform radio link monitoring procedure based on				
measurement of SS/PBCH block and CSI-RS as specified in TS 38.213 [11] and TS				
38.133 [5] in shared spectrum channel access. If the UE supports this feature, the				
UE needs to report maxNumberResource-CSI-RS-RLM.				
UE indicating support of this feature shall indicate support of csi-RS-RLM-r16 and				
either ssb-RLM-DynamicChAccess-r16 or ssb-RLM-Semi-StaticChAccess-r16.				
csi-RS-CFRA-ForHO-r16	Band	No	N/A	N/A
Indicates whether the UE can perform reconfiguration with sync using a contention	24			
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.				
with col-10 resources of the target cell in shared spectrum channel access.				
UE indicating support of this feature shall indicate support of either csi-RSRP-				
AndRSRQ-MeasWithSSB-r16 or csi-RSRP-AndRSRQ-MeasWithoutSSB-r16.				
periodicAndSemi-PersistentCSI-RS-r16	Band	No	N/A	N/A
indicates whether the UE supports validating P/SP-CSI-RS reception when	Danu	INO	IN/A	IN/A
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.			11/1	11/4
pusch-PRB-interlace-r16	Band	No	N/A	N/A
Indicates whether the UE supports PRB interlace frequency domain resource				
allocation for PUSCH.				
pucch-F0-F1-PRB-Interlace-r16	Band	No	N/A	N/A
Indicates whether the UE supports PRB interlace frequency domain resource				
allocation for PUCCH format 0, 1, 2 and 3.				
occ-PRB-PF2-PF3-r16	Band	No	N/A	N/A
Indicates whether the UE supports OCC for PRB interface mapping for PUCCH				
format 2 and 3. If the UE supports this feature, the UE needs to report pucch-F0-F1-				
PRB-Interlace-r16.				
extCP-rangeCG-PUSCH-r16	Band	No	N/A	N/A
Indicates whether the UE supports generating a CP extension of length longer than				
1 symbol for Configured Grant PUSCH transmission. If the UE supports this feature,				
the UE needs to report configuredUL-GrantType1 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	Dana	140	111/7	111/7
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.	Dl	NI-	N1/A	NI/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
Indicates whether the UE supports configuration of resources with cg-nrofSlots-r16				
and cg-nrofPUSCH-InSlot-r16. If the UE supports this feature, the UE needs to				
report configuredUL-GrantType1 or configuredUL-GrantType1-v1650 and/or				
configuredUL-GrantType2 or configuredUL-GrantType2-v1650.				
dl-ReceptionLBT-subsetRB-r16	Band	No	N/A	N/A
Indicates whether the UE supports reception in a wideband carrier when LBT is				
successful in a subset of the configured RB sets, which are either contiguous or				
non-contiguous, of the carrier.				
dl-ReceptionIntraCellGuardband-r16	Band	No	N/A	N/A
Indicates whether the UE supports reception in the non-zero intra-cell guardband	Dana	. 10	1 1// 1	13//\
between contiguous RB sets in DL wideband carrier operation wider than 20MHz				
when LBT is successful only in a subset of RB sets. A UE that indicates support of				
this capability shall also indicate support of <i>dl-ReceptionLBT-subsetRB-r16</i> .				
this capability shall also indicate support of direceptioned issues and indicate support of direct provided in the state of the state o				

 ul-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	М	FDD- TDD	FR1- FR2
			DIFF	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 dl-FR2-2-SCS-960kHz-r17, the default value of 112 symbols is assumed. support32-DL-HARQ-ProcessPerSCS-r17	Dond	No	N/A	N/A
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 propert of this feature shall indicate a propert 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].	ВС	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 of at least one bandwidth combination for the supported LTE part.	BC	CY	N/A	N/A
supportedNAICS-2CRS-AP supportedNAICS-2CRS-AP defined in 4.3.5.8, TS 36.306 [15].	ВС	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 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	М	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. A UE supporting this feature shall also indicate support of dynamicMulticastPCell-r17. 	ВС	No	N/A	N/A
 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. 	ВС	No	N/A	N/A
A UE supporting this feature shall also indicate support of <i>sps-Multicast-r17</i> . advUnicastDCI-DL-r18 Indicates whether the UE supports processing up to X unicast DCI scheduling PDSCH per scheduled cell in a set of cells configured for multi-cell PDSCH scheduling by DCI format 1_3. The UE supports up to X DCI formats 1_3 for the set of cells, and up to X unicast DL DCI formats 1_0/1_1/1_2 (if supported) for each of the cells in the set of cells. For each cell in the set of cells, the UE supports no more than X DCIs scheduling PDSCH for the cell. X is based on pair of (scheduling CC SCS, scheduled CC SCS): X={2,4} for (15,120), (15,60), (30,120). X={2} for (15,30), (30,60), (60,120 kHz). X applies per slot of scheduling CC. A UE supporting this feature shall also indicate support of <i>multiCell-PDSCH-DCI-1-3-DiffSCS-r18</i> .	BC	No	N/A	N/A
advUnicastDCI-UL-r18 Indicates whether the UE supports processing up to X unicast DCI scheduling PUSCH per scheduled cell in a set of cells configured for multi-cell PUSCH scheduling by DCI format 0_3. The UE supports up to X DCI formats 0_3 for the set of cells, and up to X unicast UL DCI formats 0_0/0_1/0_2 (if supported) for each of the cells in the set of cells. For a cell in the set of cells, the UE supports no more than X DCIs scheduling PUSCH for the cell. X is based on pair of (scheduling CC SCS, scheduled CC SCS): X={2,4} for (15,120), (15,60), (30,120). X={2} for (15,30), (30,60), (60,120 kHz). X applies per slot of scheduling CC. A UE supporting this feature shall also indicate support of multiCell-PUSCH-DCI-0-3-DiffSCS-r18.	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
bwp-SwitchingDCl-0-3-And-1-3-r18 Indicates whether the UE supports BWP switch indication by DCl format 0_3 and 1_3. A UE supporting this feature shall indicate support of at least one of multiCell-PDSCH-DCl-1-3-SameSCS-r18, multiCell-PDSCH-DCl-1-3-DiffSCS-r18, multiCell-PUSCH-DCl-0-3-SameSCS-r18 and multiCell-PUSCH-DCl-0-3-DiffSCS-r18 for the same BC. A UE supporting this feature shall also indicate support of at least one of upto2 in bwp-SameNumerology, upto4 in bwp-SameNumerology and upto4 in bwp-DiffNumerology for at least one band of the same BC.	BC	No	N/A	N/A
 codebookComboParametersAdditionPerBC-r16 Indicates the list of supported CSI-RS resources across all bands in a band combination by referring to codebookVariantsList for the mixed codebook types. For mixed codebook types, UE reports support active CSI-RS resources and ports for up to 4 mixed codebook combinations in any slot. The following parameters are included in codebookVariantsList for each code book type: maxNumberTxPortsPerResource indicates the maximum number of Tx ports in a resource across all bands within a band combination; maxNumberResourcesPerBand indicates the maximum number of resources across all CCs within a band combination, simultaneously; totalNumberTxPortsPerBand indicates the total number of Tx ports across all CCs within a band combination, simultaneously. For each band in a band combination, supported values for these three parameters are determined in conjunction with codebookComboParametersAddition-r16 reported in MIMO-ParametersPerBand. 	ВС	No	N/A	N/A

Indicates the support of active CSI-Rs resources and ports for mixed codebook types including TypeII-CJT in any slot. The UE reports supported active CSI-Rs resources and ports for the following are the possible mixed codebook combinations (Codebook1, Codebook2, Codebook3): - cjt-TypeISP-eType2R1-null indicates (Type I SP, eType-II-CJT R=2, NULL) - cjt-TypeISP-eType2R2-null indicates (Type I SP, eType-II-CJT R=2, NULL) - cjt-TypeISP-eType2R1-null indicates (Type I SP, eType-II-CJT R=2, NULL) - cjt-TypeISP-eType2R2-null indicates (Type I SP, eType-II-CJT PS R=1 M=1, NULL) - cjt-TypeISP-eType2R2-null indicates (Type I SP, eType-II-CJT PS R=2 M=2, NULL) - cjt-TypeISP-eType2R2-null indicates (Type I MP, eType-II-CJT R=1, NULL) - cjt-TypeIMP-eType2R2-null indicates (Type I MP, eType-II-CJT R=2, NULL) - cjt-TypeIMP-eType2R2-null indicates (Type I MP, eType-II-CJT R=1, NULL) - cjt-TypeIMP-eType2R2-null indicates (Type I MP, eType-II-CJT R=2, NULL) - cjt-TypeIMP-eType2R2-null indicates (Type I MP, eType-II-CJT PS R=1 M=1, NULL) - cjt-TypeIMP-feType2R2-null indicates (Type I MP, FeType-II-CJT PS R=1 M=2, NULL) - cjt-TypeIMP-feType2R2-null indicates (Type I MP, FeType-II-CJT PS R=1 M=2, NULL) - cjt-TypeIMP-feType2R2-null indicates (Type I MP, FeType-II-CJT PS R=2 M=2, NULL) - cjt-TypeIMP-feType2R2-null indicates (Type I MP, FeType-II-CJT PS R=2 M=2, NULL) - cjt-TypeIMP-feType2R2-null indicates (Type I MP, FeType-II-CJT PS R=2 M=2, NULL) - cjt-TypeIMP-feType2R2-null indicates (Type I MP, FeType-II-CJT PS R=2 M=2, NULL) - cjt-TypeIMP-feType2R2-null indicates (Type I MP, FeType-II-CJT PS R=2 M=2, NULL) - cjt-TypeIMP-feType2R2-null indicates (Type I MP, FeType-II-CJT PS R=2 M=2, NULL) - cjt-TypeIMP-feType2R2-null indicates (Type I MP, FeType-II-CJT PS R=2 M=2, NULL) - cjt-TypeIMP-feType2R2-null indicates (Type I MP, FeType-II-CJT PS R=2 M=2, NULL) - cjt-TypeIMP-feType2R2-null indicates (Type I MP, FeType-II-CJT PS R=2 M=2, NULL) - cjt-TypeIMP-feType2R2-null indicates (Type I MP, FeType-II-CJT PS R=2 M=2, NULL) - cjt-TypeIM	CodebookComboParametersCJT-PerBC-r18	ВС	No	N/A	N/A
types including Type-II-CJT in any slot. The UE reports supported active CSI-RS resources and ports for the following are the possible mixed codebook combinations {Codebook1, Codebook2, Codebook3}: - cjt-Type1SP-eType2R1-null indicates (Type I SP, eType-II-CJT R=1, NULL) - cjt-Type1SP-eType2R2-null indicates (Type I SP, eType-II-CJT R=2, NULL) - cjt-Type1SP-feType2R1M1-null indicates (Type I SP, EType-II-CJT PS R=1 M=1, NULL) - cjt-Type1SP-feType2R1M1-null indicates (Type I SP, FeType-II-CJT PS R=1 M=2, NULL) - cjt-Type1SP-feType2R2M2-null indicates (Type I SP, FeType-II-CJT PS R=2 M=2, NULL) - cjt-Type1MP-eType2R2M2-null indicates (Type I MP, eType-II-CJT R=2, NULL) - cjt-Type1MP-eType2R2M1M1-null indicates (Type I MP, eType-II-CJT R=2, NULL) - cjt-Type1MP-feType2R1M1-null indicates (Type I MP, FeType-II-CJT PS R=1 M=1, NULL) - cjt-Type1MP-feType2R1M1-null indicates (Type I MP, FeType-II-CJT PS R=1 M=1, NULL) - cjt-Type1MP-feType2R1M2-null indicates (Type I MP, FeType-II-CJT PS R=1 M=2, NULL) - cjt-Type1MP-feType2R2M2-null indicates (Type I MP, FeType-II-CJT PS R=2 M=2, NULL) - cjt-Type1MP-feType2R2M2-null indicates (Type I MP, FeType-II-CJT PS R=2 M=2, NULL) - cjt-Type1MP-feType2R2M2-null indicates (Type I MP, FeType-II-CJT PS R=2 M=2, NULL) - cjt-Type1MP-feType2R2M2-null indicates (Type I MP, FeType-II-CJT PS R=2 M=2, NULL) - cjt-Type1MP-feType2R2M2-null indicates (Type I MP, FeType-II-CJT PS R=2 M=2, NULL) - cjt-Type1MP-feType2R2M2-null indicates (Type I MP, FeType-II-CJT PS R=2 M=2, NULL) - cjt-Type1MP-feType2R2M2-null indicates the maximum number of Tx ports in a resource of a band combination. The minimum of maxNumberNexpersPersBand indicates the maximum number of Tx ports across all CCS in a band combination. - totalNumberTxPortsPerResource indicates the maximum number of Tx ports across all CCS in the band combination. The minimum value of totalNumberTxPortsPerResource indicates the maximum number of Tx ports in a resource across all Cos in the and combination. - maxNumberTxPortsPerResource indicate		ы	140	13/7	13//_
The UE reports supported active CSI-RS resources and ports for the following are the possible mixed codebook combinations (Codebook1, Codebook3): - cit-Type1SP-eType2R1-null indicates (Type I SP, eType-II-CJT R=1, NULL) - cit-Type1SP-eType2R2-null indicates (Type I SP, EType-II-CJT R=2, NULL) - cit-Type1SP-feType2R1M1-null indicates (Type I SP, FeType-II-CJT PS R=1 M=1, NULL) - cit-Type1SP-feType2R2M2-null indicates (Type I SP, FeType-II-CJT PS R=1 M=2, NULL) - cit-Type1SP-feType2R2M2-null indicates (Type I SP, FeType-II-CJT PS R=2 M=2, NULL) - cit-Type1MP-eType2R1-null indicates (Type I MP, EType-II-CJT PS R=2 M=2, NULL) - cit-Type1MP-feType2R1-null indicates (Type I MP, EType-II-CJT R=2, NULL) - cit-Type1MP-feType2R2-null indicates (Type I MP, EType-II-CJT R=2, NULL) - cit-Type1MP-feType2R2-null indicates (Type I MP, EType-II-CJT R=2, NULL) - cit-Type1MP-feType2R2-null indicates (Type I MP, FeType-II-CJT R=2, NULL) - cit-Type1MP-feType2R2-null indicates (Type I MP, FeType-II-CJT PS R=1 M=1, NULL) - cit-Type1MP-feType2R2M2-null indicates (Type I MP, FeType-II-CJT PS R=1 M=2, NULL) - cit-Type1MP-feType2R2M2-null indicates (Type I MP, FeType-II-CJT PS R=2 M=2, NULL) - cit-Type1MP-feType2R2M2-null indicates (Type I MP, FeType-II-CJT PS R=2 M=2, NULL) - cit-Type1MP-feType2R2M2-null indicates (Type I MP, FeType-II-CJT PS R=2 M=2, NULL) - cit-Type1MP-feType2R2M2-null indicates (Type I MP, FeType-II-CJT PS R=2 M=2, NULL) - cit-Type1MP-feType2R2M2-null indicates (Type I MP, FeType-II-CJT PS R=2 M=2, NULL) - cit-Type1MP-feType2R2M2-null indicates (Type I MP, FeType-II-CJT PS R=2 M=2, NULL) - cit-Type1MP-feType2R2M2-null indicates (Type I MP, FeType-II-CJT PS R=2 M=2, NULL) - cit-Type1MP-feType2R2M2-null indicates the maximum number of Tx ports in a resource a incidea to debook/VariantsList. The following parameters and indicates the indicates the maximum number of Tx ports across all CS in a band combination, simultaneously: - maxNumberTxPortsPerBend indicates the maximum number of Tx ports in a resource across all CS					
the possible mixed codebook combinations {Codebook1, Codebook2, Codebook3}: - cit-Type1SP-eType2R1-null indicates (Type1SP, eType-II-CJT R=1, NULL) - cit-Type1SP-feType2R2-null indicates (Type1SP, eType-II-CJT R=2, NULL) - cit-Type1SP-feType2R1M2-null indicates (Type1SP, FeType-II-CJT PS R=1 M=1, NULL) - cit-Type1SP-feType2R2M2-null indicates (Type1SP, FeType-II-CJT PS R=1 M=2, NULL) - cit-Type1MP-eType2R2M2-null indicates (Type1SP, FeType-II-CJT R=1, NULL) - cit-Type1MP-eType2R2M2-null indicates (Type1MP, eType-II-CJT R=1, NULL) - cit-Type1MP-eType2R2-null indicates (Type1MP, eType-II-CJT R=2, NULL) - cit-Type1MP-eType2R1-null indicates (Type1MP, eType-II-CJT R=2, NULL) - cit-Type1MP-eType2R1M2-null indicates (Type1MP, FeType-II-CJT PS R=1 M=1, NULL) - cit-Type1MP-feType2R2M2-null indicates (Type1MP, FeType-II-CJT PS R=1 M=2, NULL) - cit-Type1MP-feType2R2M2-null indicates (Type1MP, FeType-II-CJT PS R=2 M=2, NULL) - cit-Type1MP-feType2R2M2-null indicates (Type1MP, FeType-II-CJT PS R=2 M=2, NULL) - cit-Type1MP-feType2R2M2-null indicates (Type1MP, FeType-II-CJT PS R=2 M=2, NULL) - cit-Type1MP-feType2R2M2-null indicates (Type1MP, FeType-II-CJT PS R=2 M=2, NULL) - cit-Type1MP-feType2R2M2-null indicates (Type1MP, FeType-II-CJT PS R=2 M=2, NULL) - cit-Type1MP-feType2R2M2-null indicates (Type1MP, FeType-II-CJT PS R=2 M=2, NULL) - cit-Type1MP-feType2R2M2-null indicates (Type1MP, FeType-II-CJT PS R=2 M=2, NULL) - cit-Type1MP-feType2R2M2-null indicates (Type1MP, FeType-II-CJT PS R=2 M=2, NULL) - cit-Type1MP-feType2R2M2-null indicates the maximum number of Tx ports in a resource of a band combination. The minimum of maxNumberTxPortsPerBand indicates the maximum number of Tx ports across all CCs in a band combination. The minimum value of totalNumberTxPortsPerBand indicates the maximum number of Tx ports in the reported mixed codebook and Type 1 multi-panel codebook. CodebookParametersAdditionPerBC-r16 Indicates the list of supported CSI-RS resources across all bands in a band combination by referring to codebookVariants					
- cit-Type1SP-eType2R1-null indicates (Type I SP, eType-II-CJT R=1, NULL) - cit-Type1SP-eType2R2R-null indicates (Type I SP, eType-II-CJT R=2, NULL) - cit-Type1SP-feType2R1M1-null indicates (Type I SP, FeType-II-CJT PS R=1 M=1, NULL) - cit-Type1SP-feType2R1M2-null indicates (Type I SP, FeType-II-CJT PS R=1 M=2, NULL) - cit-Type1SP-feType2R2M2-null indicates (Type I SP, FeType-II-CJT PS R=2 M=2, NULL) - cit-Type1MP-eType2R1-null indicates (Type I MP, EType-II-CJT R=1, NULL) - cit-Type1MP-feType2R2M2-null indicates (Type I MP, FeType-II-CJT R=2, NULL) - cit-Type1MP-feType2R2M2-null indicates (Type I MP, FeType-II-CJT R=2, NULL) - cit-Type1MP-feType2R2M2-null indicates (Type I MP, FeType-II-CJT PS R=1 M=1, NULL) - cit-Type1MP-feType2R2M2-null indicates (Type I MP, FeType-II-CJT PS R=1 M=2, NULL) - cit-Type1MP-feType2R2M2-null indicates (Type I MP, FeType-II-CJT PS R=1 M=2, NULL) - cit-Type1MP-feType2R2M2-null indicates (Type I MP, FeType-II-CJT PS R=2 M=2, NULL) - cit-Type1MP-feType2R2M2-null indicates (Type I MP, FeType-II-CJT PS R=2 M=2, NULL) - cit-Type1MP-feType2R2M2-null indicates (Type I MP, FeType-II-CJT PS R=2 M=2, NULL) - cit-Type1MP-feType2R2M2-null indicates (Type I MP, FeType-II-CJT PS R=2 M=2, NULL) - cit-Type1MP-feType2R2M2-null indicates (Type I MP, FeType-II-CJT PS R=2 M=2, NULL) - cit-Type1MP-feType2R2M2-null indicates (Type I MP, FeType-II-CJT PS R=2 M=2, NULL) - cit-Type1MP-feType2R2M2-null indicates (Type I MP, FeType-II-CJT PS R=2 M=2, NULL) - cit-Type1MP-feType2R2M2-null indicates the maximum number of Tx ports in a resource of a band combination. The minimum of Txports PortsPerface nucle is port of maximum number of Tx ports across all CCs in a band combination totalNumberTxPortsPerfand indicates the total number of Tx ports across all CS in a band combination among eType2CJT-r18, feType2CJT-r18, feT					
cgi-Type1SP-eType2R2M1M1-null indicates (Type I SP, EType-II-CJT R=2, NULL) cgi-Type1SP-feType2R1M2-null indicates (Type I SP, EType-II-CJT PS R=1 M=1, NULL) cgi-Type1SP-feType2R2M2-null indicates (Type I SP, EType-II-CJT PS R=1 M=2, NULL) cgi-Type1MP-eType2R2-null indicates (Type I MP, EType-II-CJT R=2, NULL) cgi-Type1MP-eType2R2-null indicates (Type I MP, EType-II-CJT R=2, NULL) cgi-Type1MP-eType2R2-null indicates (Type I MP, EType-II-CJT R=2, NULL) cgi-Type1MP-feType2R1M2-null indicates (Type I MP, EType-II-CJT R=2, NULL) cgi-Type1MP-feType2R1M2-null indicates (Type I MP, FeType-II-CJT PS R=1 M=1, NULL) cgi-Type1MP-feType2R1M2-null indicates (Type I MP, FeType-II-CJT PS R=1 M=2, NULL) cgi-Type1MP-feType2R2M2-null indicates (Type I MP, FeType-II-CJT PS R=1 M=2, NULL) cgi-Type1MP-feType2R2M2-null indicates (Type I MP, FeType-II-CJT PS R=2 M=2, NULL) For each mixed codebook supported by the UE, supported CSI-RS resources across all CCs in a band combination by referring to codebook/variants/Lst. The following parameters are included in codebook/variants/Lst for the additional codebook types in the reported mixed codebook combination. The minimum value of totalNumberTxPortsPerBand is 4. A UE supporting this feature shall also indicates the maximum number of Tx ports across all CCs in a band combination. The minimum value of totalNumberTxPortsPerBand is 4. A UE supporting this feature shall also indicates support of individual codebook types in the reported mixed codebook combination among of Type2CJT-r18, fofType2CJT-r18, fof	(00000001, 0000000000).				
cgi-Type1SP-eType2R2M1M1-null indicates (Type I SP, EType-II-CJT R=2, NULL) cgi-Type1SP-feType2R1M2-null indicates (Type I SP, EType-II-CJT PS R=1 M=1, NULL) cgi-Type1SP-feType2R2M2-null indicates (Type I SP, EType-II-CJT PS R=1 M=2, NULL) cgi-Type1MP-eType2R2-null indicates (Type I MP, EType-II-CJT R=2, NULL) cgi-Type1MP-eType2R2-null indicates (Type I MP, EType-II-CJT R=2, NULL) cgi-Type1MP-eType2R2-null indicates (Type I MP, EType-II-CJT R=2, NULL) cgi-Type1MP-feType2R1M2-null indicates (Type I MP, EType-II-CJT R=2, NULL) cgi-Type1MP-feType2R1M2-null indicates (Type I MP, FeType-II-CJT PS R=1 M=1, NULL) cgi-Type1MP-feType2R1M2-null indicates (Type I MP, FeType-II-CJT PS R=1 M=2, NULL) cgi-Type1MP-feType2R2M2-null indicates (Type I MP, FeType-II-CJT PS R=1 M=2, NULL) cgi-Type1MP-feType2R2M2-null indicates (Type I MP, FeType-II-CJT PS R=2 M=2, NULL) For each mixed codebook supported by the UE, supported CSI-RS resources across all CCs in a band combination by referring to codebook/variants/Lst. The following parameters are included in codebook/variants/Lst for the additional codebook types in the reported mixed codebook combination. The minimum value of totalNumberTxPortsPerBand is 4. A UE supporting this feature shall also indicates the maximum number of Tx ports across all CCs in a band combination. The minimum value of totalNumberTxPortsPerBand is 4. A UE supporting this feature shall also indicates support of individual codebook types in the reported mixed codebook combination among of Type2CJT-r18, fofType2CJT-r18, fof	- cit-Type1SP-eType2R1-null indicates {Type SP, eType-II-CJT R=1, NULL}				
- cjt-Type1SP-feType2R1M1-null indicates (Type I SP, FeType-II-CJT PS R=1 M=1, NULL) - cjt-Type1SP-feType2R2M2-null indicates (Type I SP, FeType-II-CJT PS R=1 M=2, NULL) - cjt-Type1SP-feType2R2M2-null indicates (Type I SP, FeType-II-CJT R=2, M=2, NULL) - cjt-Type1MP-eType2R1-null indicates (Type I MP, eType-II-CJT R=2, NULL) - cjt-Type1MP-eType2R1M1-null indicates (Type I MP, eType-II-CJT R=2, NULL) - cjt-Type1MP-eType2R1M2-null indicates (Type I MP, FeType-II-CJT R=2, NULL) - cjt-Type1MP-eType2R1M2-null indicates (Type I MP, FeType-II-CJT R=3, NULL) - cjt-Type1MP-leType2R1M2-null indicates (Type I MP, FeType-II-CJT PS R=1 M=2, NULL) - cjt-Type1MP-feType2R2M2-null indicates (Type I MP, FeType-II-CJT PS R=2 M=2, NULL) - cjt-Type1MP-feType2R2M2-null indicates (Type I MP, FeType-II-CJT PS R=2 M=2, NULL) - cjt-Type1MP-feType2R2M2-null indicates (Type I MP, FeType-II-CJT PS R=2 M=2, NULL) - cjt-Type1MP-feType2R2M2-null indicates (Type I MP, FeType-II-CJT PS R=2 M=2, NULL) - cjt-Type1MP-feType2R2M2-null indicates (Type I MP, FeType-II-CJT PS R=2 M=2, NULL) - cjt-Type1MP-feType2R2M2-null indicates (Type I MP, FeType-II-CJT PS R=2 M=2, NULL) - cjt-Type1MP-feType2R2M2-null indicates (Type I MP, FeType-II-CJT PS R=2 M=2, NULL) - cjt-Type1MP-feType2R2M2-null indicates (Type I MP, FeType-II-CJT PS R=2 M=2, NULL) - cjt-Type1MP-feType2R2M2-null indicates the maximum number of Tx ports in a resource of a band combination. The minimum of maxNumber of TxPortsPerBend indicates the total number of Tx ports across all CCs in a band combination. The minimum value of totalNumberTxPortsPerBend in s. A A UE supporting this feature shall also indicates support of individual codebook types in the reported mixed codebook and Type I multi-penel codebook. codebook/ParametersAdditionPerBC-r16 Indicates the list of supported CSI-RS resources across all bands in a band combination; in a resource across all bands within a band combination; maxNumberResourcesPerBand indicates the total number of Tx ports in a resource across all bands withi					
M=1, NULL) - cit-Type1SP-feType2R1M2-null indicates (Type I SP, FeType-II-CJT PS R=1 M=2, NULL) - cit-Type1SP-feType2R2M2-null indicates (Type I SP, FeType-II-CJT PS R=2 M=2, NULL) - cit-Type1MP-eType2R2M2-null indicates (Type I MP, eType-II-CJT R=2, NULL) - cit-Type1MP-eType2R2-null indicates (Type I MP, eType-II-CJT R=2, NULL) - cit-Type1MP-feType2R2M2-null indicates (Type I MP, FeType-II-CJT R=2, NULL) - cit-Type1MP-feType2R1M2-null indicates (Type I MP, FeType-II-CJT PS R=1 M=1, NULL) - cit-Type1MP-feType2R1M2-null indicates (Type I MP, FeType-II-CJT PS R=1 M=2, NULL) - cit-Type1MP-feType2R2M2-null indicates (Type I MP, FeType-II-CJT PS R=1 M=2, NULL) - cit-Type1MP-feType2R2M2-null indicates (Type I MP, FeType-II-CJT PS R=2 M=2, NULL) For each mixed codebook supported by the UE, supportedCSI-RS- ResourceListAdd-r16 indicates the list of supported CSI-RS resources across all CCs in a band combination by referring to codebook/VariantsList. - maxNumberTxPortsPerResource is 0-4; - maxNumberTxPortsPerResource is 0-4; - maxNumberResourcesPerBand indicates the maximum number of Tx ports across all CCs in a band combination. The minimum value of totalNumberTxPortsPerResource is 0-4; - maxNumberTxPortsPerResource is 0-4; - maxNumberResourcesPerBand is 4. A UE supporting this feature shall also indicates the total number of Tx ports across all CS in a band combination among eType2CJT-r18, feType2CJT-r18, TeType2CJT-r18, Type I single panel codebook combination among eType2CJT-r18, feType2CJT-r18, fe					
- cjt-Type1SP-feType2R1M2-null indicates {Type I SP, FeType-II-CJT PS R=1 M=2, NULL} - cjt-Type1SP-feType2R2M2-null indicates {Type I SP, FeType-II-CJT PS R=2 M=2, NULL} - cjt-Type1MP-eType2R2-null indicates {Type I MP, eType-II-CJT R=1, NULL} - cjt-Type1MP-eType2R2-null indicates {Type I MP, eType-II-CJT R=2, NULL} - cjt-Type1MP-feType2R1M2-null indicates {Type I MP, eType-II-CJT R=2, NULL} - cjt-Type1MP-feType2R1M2-null indicates {Type I MP, FeType-II-CJT PS R=1 M=1, NULL} - cjt-Type1MP-feType2R1M2-null indicates {Type I MP, FeType-II-CJT PS R=1 M=2, NULL} - cjt-Type1MP-feType2R2M2-null indicates {Type I MP, FeType-II-CJT PS R=2 M=2, NULL} - cjt-Type1MP-feType2R2M2-null indicates {Type I MP, FeType-II-CJT PS R=2 M=2, NULL} - cjt-Type1MP-feType2R2M2-null indicates {Type I MP, FeType-II-CJT PS R=2 M=2, NULL} - cjt-Type1MP-feType2R2M2-null indicates {Type I MP, FeType-II-CJT PS R=2 M=2, NULL} - cjt-Type1MP-feType2R2M2-null indicates {Type I MP, FeType-II-CJT PS R=2 M=2, NULL} - cjt-Type1Mp-feType2R2M2-null indicates {Type I MP, FeType-II-CJT PS R=2 M=2, NULL} - cjt-Type1Mp-feType2R2M2-null indicates {Type I MP, FeType-II-CJT PS R=2 M=2, NULL} - cjt-Type1Mp-feType2R2M2-null indicates the maximum number of Tx ports in a resource of a band combination. The minimum of maxNumberTxPortsPerResource is ip4; - maxNumberTxPortsPerBand indicates the total number of Tx ports across all CCs in a band combination. The minimum value of totalNumberTxPortsPerBand is 4. A UE supporting this feature shall also indicates support of individual codebook types in the reported mixed codebook combination among eType2CJT-r18, feType2CJT-r18, feT					
M=2, NULL} cit-Type1SP-feType2R2M2-null indicates {Type I SP, FeType-II-CJT PS R=2 M=2, NULL} cit-Type1MP-eType2R2H-null indicates {Type I MP, eType-II-CJT R=1, NULL} cit-Type1MP-eType2R2-null indicates {Type I MP, eType-II-CJT R=2, NULL} cit-Type1MP-feType2R2HM1-null indicates {Type I MP, FeType-II-CJT PS R=1 M=1, NULL} cit-Type1MP-feType2R1M2-null indicates {Type I MP, FeType-II-CJT PS R=1 M=2, NULL} cit-Type1MP-feType2R2HM2-null indicates {Type I MP, FeType-II-CJT PS R=1 M=2, NULL} cit-Type1MP-feType2R2M2-null indicates {Type I MP, FeType-II-CJT PS R=2 M=2, NULL} For each mixed codebook supported by the UE, supportedCSI-RS- ResourceListAdd-r16 indicates the list of supported CSI-RS resources across all CCS in a band combination by referring to codebook/ariantsList maxNumberTxPortsPerResource indicates the maximum number of Tx ports in a resource of a band combination. The minimum of maxNumberTxPortsPerBand 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. The minimum value of totalNumberTxPortsPerBand indicates the total number of Tx ports across all Ccs in a band combination. A UE supporting this feature shall also indicate support of individual codebook types in the reported mixed codebook combination among eType2CJT-r18, feType2CJT-r18, Type 1 single panel codebook and Type I multi-panel codebook. codebookParametersAdditionPerBC-r16 Indicates the list of supported CSI-RS resources across all bands in a band combination by referring to codebookVariantsList for the additional codebook types. The following parameters are included in codebookVariantsList for each code book types. maxNumberTxPortsPerBand indicates the maximum number of Tx ports in a resource across all bands within a band combination; simultaneously; totalNumberTxPortsPerBand indicates the total number of Tx ports across all CCs within a band combination, simultaneously; totalNumberTxPortsPerBand indicate					
- cjt-Type1SP-feType2R2M2-null indicates {Type I SP, FeType-II-CJT PS R=2 M=2, NULL} cjt-Type1MP-eType2R1-null indicates {Type I MP, eType-II-CJT R=1, NULL} cjt-Type1MP-eType2R2-null indicates {Type I MP, eType-II-CJT R=2, NULL} cjt-Type1MP-feType2R1M1-null indicates {Type I MP, eType-II-CJT R=2, NULL} cjt-Type1MP-feType2R1M1-null indicates {Type I MP, FeType-II-CJT PS R=1 M=1, NULL} cit-Type1MP-feType2R1M2-null indicates {Type I MP, FeType-II-CJT PS R=1 M=2, NULL} cjt-Type1MP-feType2R2M2-null indicates {Type I MP, FeType-II-CJT PS R=2 M=2, NULL} cjt-Type1MP-feType2R2M2-null indicates {Type I MP, FeType-II-CJT PS R=2 M=2, NULL} cit-Type1MP-feType2R2M2-null indicates {Type I MP, FeType-II-CJT PS R=2 M=2, NULL} cit-Type1MP-feType2R2M2-null indicates {Type I MP, FeType-II-CJT PS R=2 M=2, NULL} cit-Type1MP-feType2R2M2-null indicates {Type I MP, FeType-II-CJT PS R=2 M=2, NULL} cit-Type1MP-feType2R2M2-null indicates {Type I MP, FeType-II-CJT PS R=2 M=2, NULL} cit-Type1MP-feType2R2M2-null indicates the maximum number of Tx ports are included in codebook/VariantsList. The following parameters are included in codebook/VariantsList. The following parameters are included in a band combination. The minimum value of totalNumberTxPortsPerBand indicates the total number of Tx ports across all CCs in a band combination. The minimum value of totalNumberTxPortsPerBand indicates the total number of Tx ports in the reported mixed codebook combination among eType2CJT-r18, feType2CJT-r18, Type I single panel codebook dariantsList for the additional codebook types in the reported mixed codebook combination among eType2CJT-r18, feType2CJT-r18, feType2CJT-r18, Type I single panel codebook dariantsList for the additional codebook types. The following parameters are included in codebookVariantsList for the additional codebook types. The following parameters are included in codebookVariantsList for the additional codebook types. The following parameters are included in codebookVariantsList for the additional codebook types. The following					
M=2, NULL.) cit-Type1MP-eType2R1-null indicates {Type I MP, eType-II-CJT R=1, NULL} cit-Type1MP-eType2R2-null indicates {Type I MP, eType-II-CJT R=2, NULL} cit-Type1MP-feType2R1M1-null indicates {Type I MP, eType-II-CJT R=2, NULL} cit-Type1MP-feType2R1M1-null indicates {Type I MP, FeType-II-CJT PS R=1 M=1, NULL} cit-Type1MP-feType2R1M2-null indicates {Type I MP, FeType-II-CJT PS R=1 M=2, NULL} cit-Type1MP-feType2R2M2-null indicates {Type I MP, FeType-II-CJT PS R=1 M=2, NULL} For each mixed codebook supported by the UE, supportedCSI-RS- ResourceListAdd-r16 indicates the list of supported CSI-RS resources across all CCs in a band combination by referring to codebook/VariantsList. The following parameters are included in codebook/VariantsList. maxNumberTxPortsPerResource indicates the maximum number of Tx ports in a resource of a band combination. The minimum of maxNumberTxPortsPerResource 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. A UE supporting this feature shall also indicate support of individual codebook types in the reported mixed codebook and Type I multi-panel codebook types in the reported mixed codebook and Type I multi-panel codebook types. The following parameters AdditionPerBC-r16 Indicates the list of supported CSI-RS resources across all bands in a band combination by referring to codebook/VariantsList for the additional codebook types. The following parameters are included in codebook/VariantsList for each code book type: maxNumberTxPortsPerResource indicates the maximum number of Tx ports in a resource across all bands within a band combination; maxNumberTxPortsPerResource indicates the maximum number of resources across all CCs within a band combination, simultaneously; totalNumberTxPortsPerBerA indicates the total number of Tx ports across all CCs within a band combination, simultaneously; for each band in a band combination, simultaneously;					
- cjt-Type1MP-eType2R2-null indicates {Type I MP, eType-II-CJT R=1, NULL} - cjt-Type1MP-eType2R2-null indicates {Type I MP, eType-II-CJT R=2, NULL} - cjt-Type1MP-feType2R1M1-null indicates {Type I MP, FeType-II-CJT PS R=1 M=1, NULL} - cjt-Type1MP-feType2R1M2-null indicates {Type I MP, FeType-II-CJT PS R=1 M=2, NULL} - cjt-Type1MP-feType2R2M2-null indicates {Type I MP, FeType-II-CJT PS R=1 M=2, NULL} - cjt-Type1MP-feType2R2M2-null indicates {Type I MP, FeType-II-CJT PS R=2 M=2, NULL} - cjt-Type1MP-feType2R2M2-null indicates {Type I MP, FeType-II-CJT PS R=2 M=2, NULL} - cyt-Type1MP-feType2R2M2-null indicates {Type I MP, FeType-II-CJT PS R=2 M=2, NULL} - cyt-Type1MP-feType2R2M2-null indicates {Type I MP, FeType-II-CJT PS R=2 M=2, NULL} - cyt-Type1MP-feType2R2M2-null indicates {Type I MP, FeType-II-CJT PS R=2 M=2, NULL} - cyt-Type1MP-feType2R2M2-null indicates {Type I MP, FeType-II-CJT PS R=2 M=2, NULL} - cyt-Type1MP-feType2R2M2-null indicates {Type I MP, FeType-II-CJT PS R=2 M=2, NULL} - cyt-Type1MP-feType2R2M2-null indicates the maximum number of Tx ports in a resource of a band combination. The minimum of maxNumberTxPortsPerBand indicates the maximum number of Tx ports across all CCs in a band combination. The minimum value of totalNumberTxPortsPerBand indicates the total number of Tx ports across all ECs in a band combination among eType2CJT-r18, feType2CJT- r18, Type I single panel codebook and Type I multi-panel codebook. codebookParametersAdditionPerBC-r16 Indicates the list of supported CSI-RS resources across all bands in a band combination by referring to codebookVariantsList for the additional codebook types. The following parameters are included in codebookVariantsList for each code book type: - maxNumberTxPortsPerResource indicates the maximum number of Tx ports in a resource across all bands within a band combination; - maxNumberTxPortsPerBand indicates the total number of Tx ports across all CCs within a band combination, simultaneously; - totalNumberTxPortsPerBand indicates the total number of					
- cjt-Type1MP-eType2R2-null indicates {Type I MP, eType-II-CJT R=2, NULL} cjt-Type1MP-feType2R1M1-null indicates {Type I MP, FeType-II-CJT PS R=1 M=1, NULL} cjt-Type1MP-feType2R1M2-null indicates {Type I MP, FeType-II-CJT PS R=1 M=2, NULL} ejt-Type1MP-feType2R2M2-null indicates {Type I MP, FeType-II-CJT PS R=2 M=2, NULL} established by the UE, supportedCSI-RS-ResourceIstAddr-16 indicates the list of supported CSI-RS resources across all CCs in a band combination by referring to codebookVariantsList. The following parameters are included in codebookVariantsList. - maxNumberTxPortsPerResource indicates the maximum number of Tx ports in a resources across all CCs in a band combination. The minimum of maxNumberTxPortsPerResource is 'p4'; - maxNumberTxPortsPerBand indicates the total number of Tx ports across all CCs in a band combination. - totalNumberTxPortsPerBand indicates the total number of Tx ports across all CCs in a band combination. The minimum value of totalNumberTxPortsPerBand is 4. A UE supporting this feature shall also indicate support of individual codebook types in the reported mixed codebook combination among eType2CJT-r18, feType2CJT-r18, Type I single panel codebook and Type I multi-panel codebook. - A UE supporting this feature shall also indicates support of individual codebook types in the reported mixed codebook wariantsList for the additional codebook types. The following parameters are included in codebookVariantsList for each code book types. The following parameters are included in codebookVariantsList for each code book types. The totalNumberTxPortsPerBand indicates the maximum number of Tx ports in a resource across all bands within a band combination; - maxNumberResourcesPerBand indicates the total number of Tx ports across all CCs within a band combination, simultaneously; - totalNumberTxPortsPerBand indicates the total number of Tx ports across all CCs within a band combination, simultaneously; - or each band in a band combination, simultaneously. - For each band in a band c					
cit-Type1MP-feType2R1M1-null indicates {Type I MP, FeType-II-CJT PS R=1 M=1, NULL} cit-Type1MP-feType2R1M2-null indicates {Type I MP, FeType-II-CJT PS R=1 M=2, NULL} cit-Type1MP-feType2R2M2-null indicates {Type I MP, FeType-II-CJT PS R=2 M=2, NULL} For each mixed codebook supported by the UE, supportedCSI-RS-ResourceListAdd-r16 indicates the list of supported CSI-RS resources across all CCs in a band combination 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. The minimum of maxNumberTxPortsPerResource is 'p4': - maxNumberTxPortsPerBand 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. The minimum value of totalNumberTxPortsPerBand is 4. A UE supporting this feature shall also indicate support of individual codebook types in the reported mixed codebook combination among eType2CJT-r18, feType2CJT-r18, Type I single panel codebook worder in a resource across all CS in a band combination among eType2CJT-r18, feType2CJT-r18, Type I single panel codebook combination among eType2CJT-r18, reType2CJT-r18, r					
R=1 M=1, NULL} - cjt-Type1MP-feType2R1M2-null indicates {Type I MP, FeType-II-CJT PS R=1 M=2, NULL} - cjt-Type1MP-feType2R2M2-null indicates {Type I MP, FeType-II-CJT PS R=2 M=2, NULL} For each mixed codebook supported by the UE, supportedCSI-RS-ResourceListAdd-r16 indicates the list of supported CSI-RS resources across all CCS in a band combination by referring to codebook/VariantsList. The following parameters are included in codebook/VariantsList maxNumberTxPortsPerResource indicates the maximum number of Tx ports in a resource of a band combination. The minimum of maxNumberTxPortsPerResource is 'p4'; - maxNumberTxPortsPerResource is 'p4'; - maxNumberTxPortsPerBand 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. The minimum value of totalNumberTxPortsPerBand is 4. A UE supporting this feature shall also indicate support of individual codebook types in the reported mixed codebook combination among eType2CJT-r18, feType2CJT-r18, Type I single panel codebook and Type I multi-panel codebook. CodebookParametersAdditionPerBC-r16 Indicates the list of supported CSI-RS resources across all bands in a band combination by referring to codebookVariantsList for the additional codebook types. The following parameters are included in codebookVariantsList for each code book types. - maxNumberTxPortsPerResource indicates the maximum number of Tx ports in a resource across all bands within a band combination; - maxNumberTxPortsPerBand indicates the maximum number of Tx ports in a resource across all bands within a band combination; - maxNumberTxPortsPerBand indicates the total number of Tx ports across all CCs within a band combination, simultaneously; - totalNumberTxPortsPerBand indicates the total number of Tx ports across all CCs within a band combination, simultaneously; - totalNumberTxPortsPerBand indicates the total number of Tx ports across all CCs within a band combination					
R=1 M=2, NULL} - cjt-Type1MP-ferType2R2M2-null indicates {Type I MP, FeType-II-CJT PS R=2 M=2, NULL} For each mixed codebook supported by the UE, supportedCSI-RS-ResourceListAdd-r16 indicates the list of supported CSI-RS resources across all CCs in a band combination 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. The minimum of maxNumberTxPortsPerResource is 'p4'; - maxNumberTxPortsPerBend 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. The minimum value of totalNumberTxPortsPerBand is 4. A UE supporting this feature shall also indicate support of individual codebook types in the reported mixed codebook combination among eType2CJT-r18, feType2CJT-r18, feType2CJ					
R=1 M=2, NULL} - cjt-Type1MP-ferType2R2M2-null indicates {Type I MP, FeType-II-CJT PS R=2 M=2, NULL} For each mixed codebook supported by the UE, supportedCSI-RS-ResourceListAdd-r16 indicates the list of supported CSI-RS resources across all CCs in a band combination 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. The minimum of maxNumberTxPortsPerResource is 'p4'; - maxNumberTxPortsPerBend 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. The minimum value of totalNumberTxPortsPerBand is 4. A UE supporting this feature shall also indicate support of individual codebook types in the reported mixed codebook combination among eType2CJT-r18, feType2CJT-r18, feType2CJ					
R=2 M=2, NULL} For each mixed codebook supported by the UE, supportedCSI-RS- ResourceListAdd-r16 indicates the list of supported CSI-RS resources across all CCs in a band combination 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. The minimum of maxNumberTxPortsPerResource is 'p4'; - maxNumberTxPortsPerBand 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. - totalNumberTxPortsPerBand is 4. A UE supporting this feature shall also indicate support of individual codebook types in the reported mixed codebook combination among eType2CJT-r18, feType2CJT- r18, Type I single panel codebook and Type I multi-panel codebook. codebookParametersAdditionPerBC-r16 Indicates the list of supported CSI-RS resources across all bands in a band combination by referring to codebookVariantsList for the additional codebook types. The following parameters are included in codebookVariantsList for each code book type: - maxNumberTxPortsPerResource indicates the maximum number of Tx ports in a resource across all bands within a band combination; - maxNumberTxPortsPerBand indicates the maximum number of resources across all CCs within a band combination, simultaneously; - totalNumberTxPortsPerBand indicates the total number of Tx ports across all CCs within a band combination, simultaneously; For each band in a band combination, supported values for these three parameters are determined in conjunction with codebookParametersAddition-r16 reported in					
R=2 M=2, NULL} For each mixed codebook supported by the UE, supportedCSI-RS- ResourceListAdd-r16 indicates the list of supported CSI-RS resources across all CCs in a band combination 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. The minimum of maxNumberTxPortsPerResource is 'p4'; - maxNumberTxPortsPerBand 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. - totalNumberTxPortsPerBand is 4. A UE supporting this feature shall also indicate support of individual codebook types in the reported mixed codebook combination among eType2CJT-r18, feType2CJT- r18, Type I single panel codebook and Type I multi-panel codebook. codebookParametersAdditionPerBC-r16 Indicates the list of supported CSI-RS resources across all bands in a band combination by referring to codebookVariantsList for the additional codebook types. The following parameters are included in codebookVariantsList for each code book type: - maxNumberTxPortsPerResource indicates the maximum number of Tx ports in a resource across all bands within a band combination; - maxNumberTxPortsPerBand indicates the maximum number of resources across all CCs within a band combination, simultaneously; - totalNumberTxPortsPerBand indicates the total number of Tx ports across all CCs within a band combination, simultaneously; For each band in a band combination, supported values for these three parameters are determined in conjunction with codebookParametersAddition-r16 reported in	- cjt-Type1MP-feType2R2M2-null indicates {Type I MP, FeType-II-CJT PS				
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codebookParametersetype2CJT-PerBC-r18 BC No N/A N/A Indicates the UE support of additional codebooks and the corresponding parameters supported by the UE of Enhanced Type II Codebook (eType-II) with refinement for multi-TRP CJT. The basic features of eType-II codebook with refinement for multi-TRP CJT are included in eType2CJT-r18. This capability signalling comprises the following supportedCSI-RS-ResourceList-r18 indicates the list of supported CSI-RS resources across all CCs in a band combination by referring to codebookVariantsList. The following parameters are included in codebookVariantsList. maxNumberTxPortsPerResource indicates the maximum number of Tx ports in one NZP CSI-RS resource associated with multi-TRP CJT: maxNumberResourcesPerBand indicates the maximum total number of NZP CSI-RS resource associated with multi-TRP CJT; totalNumberTxPortsPerBand indicates the total number of Tx ports of NZP CSI-RS resources associated with multi-TRP CJT. scalingfactor-r18 indicates the scaling factor X for CPU occupation counting for CJT etype-II codebook; maxNumberNZP-CSI-RS-MultiTRP-CJT-r18 indicates the maximum number of NZP CSI-RS resources in one NZP CSI-RS resource set associated with multi-TRP CJT. The UE indicating eType2CJT-r18 shall support N=N_TRP only, N_L=1 only, support mode 2 for eType-II codebook refinement for multi-TRP CJT, support PMI subband R=1, support parameter combinations with L=2,4, support rank 1,2, and support frequency basis selection mode 2, i.e., common frequency basis selection among different TRPs. The UE indicating support of eType2CJT-r18 shall also indicate support of csi-ReportFramework and simultaneousCSI-ReportsAllCC. NOTE 1: When NTRP=1 TRP is configured, OCPU =1. When NTRP>1 TRPS are configured, OCPU = ceil(X * NTRP). NOTE 2: A-CSI is supported, and whether UE supports SP-CSI on PUSCH is dependent on sp-CSI-ReportPUSCH. The UE optionally includes eType2CJT-FD-IO-r18 to indicate whether the UE supports mode 1 for CJT eType-II codebook with FD basis selection integer frequency offset. This capability signalling comprises the list of supported NZP CSI-RS resources across all CCs in a band combination by referring to codebookVariantsList. The UE indicating eType2CJT-FD-IO-r18 shall also support frequency basis selection mode 1, i.e., common frequency basis selection among different TRPs with FD basis selection integer frequency offset. The UE optionally indicates eType2CJT-FD-FO-r18 to indicate whether the UE supports FD basis selection fractional offset mode for Rel-16-based CJT codebook with mode1. The UE indicating eType2CJT-FD-FO-r18 shall also indicate support of eType2CJT-FD-IO-r18. The UE optionally indicates eType2CJT-R2-r18 to indicate whether the UE supports eType-II codebook refinement for multi-TRP CJT with PMI subbands R=2. This capability signalling comprises the list of supported NZP CSI-RS resources with R=2 across all CCs in a band combination by referring to codebookVariantsList across all CCs. The UE optionally indicates eType2CJT-PV-Beta-r18 to indicate whether the UE supports eType-II codebook refinement for multi-TRP CJT with parameter combination $pv=\{1/2,1/2,1/2,1/2\}$ and beta=1/2. The UE optionally indicates eType2CJT-2NN1N2-r18 to indicate whether the UE supports 2NN1N2 >32 for eType-II CJT codebook. The UE indicates the maximum number of ports across all TRPs for one CJT CSI measurement. The UE optionally indicates eType2CJT-Rank3Rank4-r18 to indicate whether the UE supports eType-II codebook refinement for multi-TRP CJT with rank 3,4.

The UE optionally indicates *eType2CJT-L6-r18* to indicate whether the UE supports eType-II codebook refinement for multi-TRP CJT with parameter combination with L=6. The UE supports this capability only for N_TRP=1. The UE indicating *eType2CJT-L6-r18* shall also indicate support of *eType2CJT-r18*.

The UE optionally indicates eType2CJT-NN-r18 to indicate whether the UE supports selection of N <= N_TRP CSI-RS resource by UE for multi-TRP CJT based on eType-II codebook.

The UE optionally indicates *eType2CJT-NL-SD-r18* to indicate whether the UE supports N_L>1 combinations of number of SD basis across CSI-RS resources for CJT eType-II codebook. The UE indicates the maximum number of lists for spatial basis selection, i.e., N_L, for multi-TRP CJT based on eType-II codebook.

The UE optionally indicates *eType2CJT-Unequal-r18* to indicate whether the UE supports unequal number of spatial basis selection configuration across CSI-RS resources for multi-TRP CJT including eType-II codebook refinement.

For codebookVariantsList related to the eType-II:

- The minimum of maxNumberTxPortsPerResource is 'p4';
- The minimum of maxNumberResourcesPerBand is 2;
- The minimum value of totalNumberTxPortsPerBand is 4.

codebookParametersetype2DopplerCSI-PerBC-r18 Indicates the UE support of additional codebooks and the corresponding	ВС	No	N/A	N/A
parameters supported by the UE of Enhanced Type II Codebook (eType-II) based on doppler CSI as specified in TS 38.214 [12].				
The basic features of eType-II doppler codebook are included in eType2Doppler- r18. This capability signalling comprises the following parameters: - supportedCSI-RS-ResourceList-r18 indicates the list of supported CSI-RS resources across all CCs in a band combination 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, simultaneously; totalNumberTxPortsPerBand indicates the total number of Tx ports across all CCs in a band combination, simultaneously. valueY-P-SP-CSI-RS-r18 indicates value of Y for CPU occupation (OCPU = 				
Y*vectorLengthDD-r18), when P/SP-CSI-RS is configured for CMR; - valueY-A-CSI-RS-r18 indicates value of Y for CPU occupation (OCPU = Y*K), when A-CSI-RS is configured for CMR; - scalingfactor-r18 indicates scaling factor for active resource counting Kp.				
The UE indicating <i>eType2Doppler-r18</i> shall support X=1 CQI based on the first/earliest slot of the CSI reporting window and the first/earliest predicted PMI (TDCQI='1-1'), support eType-II regular codebook refinement for predicted PMI with PMI subband R=1, support parameter combinations with L=2,4, support rank = 1,2, and support the size of DD-basis, <i>vectorLengthDD-r18</i> =1.				
The UE indicating support of eType2Doppler-r18 shall also indicate support of csi-ReportFramework and simultaneousCSI-ReportsAllCC.				
NOTE 1: When vectorLengthDD-r18 =1, OCPU =4. NOTE 2: OCPU ≥ 4 when P/SP-CSI-RS is configured for CMR. NOTE 3: When K=12, OCPU =8. NOTE 4: A UE that supports CSI enhancement for Rel-16 based type-II doppler must support this feature.				
The UE optionally includes <i>eType2DopplerN4-r18</i> to indicate whether the UE supports doppler measurement with <i>vectorLengthDD-r18</i> >1 for eType-II doppler codebook. This capability signalling comprises the following parameters: - supportedCSI-RS-ReportSettingList1-r18 indicates the list of supported				
combinations across all CCs in a band combination simultaneously by referring to SupportedCSI-RS-ReportSetting-r18. The following parameters are included in SupportedCSI-RS-ReportSetting-r18. - maxN4-r18 indicates the max number of vectorLengthDD-r18; - maxNumberTxPortsPerResource-r18 indicates the maximum number of				
 Tx ports in a resource of a band combination; maxNumberResourcesPerBand-r18 indicates the maximum number of resources across all CCs in a band combination, simultaneously; totalNumberTxPortsPerBand-r18 indicates the total number of Tx ports across all CCs in a band combination, simultaneously. 				
 supportedCSI-RS-ReportSettingList2-r18 indicates the list of supported combinations for one CSI report setting by referring to SupportedCSI-RS-ReportSetting-r18. The following parameters are included in SupportedCSI-RS-ReportSetting-r18: 				
 maxN4-r18 indicates the max number of vectorLengthDD-r18; maxNumberTxPortsPerResource-r18 indicates the maximum number of Tx ports in a resource of a band combination; maxNumberResourcesPerBand-r18 indicates the maximum number of resources across all CCs in a band combination, simultaneously; 				
 totalNumberTxPortsPerBand-r18 indicates the total number of Tx ports across all CCs in a band combination, simultaneously. 				
The UE indicating support of <i>eType2DopplerN4-r18</i> shall also indicate support for the size of DD-basis, <i>vectorLengthDD-r18</i> > 1, and value of <i>unitDurationDD-r18</i> =m for the DD unit size when A-CSI-RS is configured for CMR.				

The UE optionally includes *ddUnitSize-A-CSI-RS-CMR-r18* to indicate whether the UE supports value of *unitDurationDD-r18*=1 for the DD unit duration when A-CSI-RS is configured for CMR.

A UE supporting this feature shall also indicate support of eType2DopplerN4-r18.

The UE optionally includes <code>maxNumberAperiodicCSI-RS-Resource-r18</code> to indicate the maximum number of aperiodic CSI-RS resources that can be configured in the same CSI report setting for eType-II doppler measurement.

The UE optionally includes *eType2DopplerR2-r18* to indicate whether the UE supports R=2 for eType-II doppler codebook. This capability signalling comprises the list of supported CSI-RS resources across all CCs in a band combination by referring to *codebookVariantsList*.

The UE optionally includes *eType2DopplerX1-r18* to indicate whether the UE supports X=1 based on first and last slot of W_{CSI}, for eType-II doppler codebook.

The UE optionally includes *eType2DopplerX2-r18* to indicate whether the UE supports X=2 CQI based on 2 slots for eType-II doppler codebook.

The UE optionally includes eType2DopplerL-N4D1-r18 to indicate whether the UE supports I = (n - nCSI, ref) for CSI reference slot for eType-II doppler codebook.

The UE optionally includes *eType2DopplerL6-r18* to indicate whether the UE supports L=6 for eType-II doppler codebook.

The UE optionally includes *eType2DopplerR3R4-r18* to indicate whether the UE supports rank equals 3 and 4 for eType-II doppler codebook.

For codebookVariantsList-r16 related to the eType-II:

- The minimum of maxNumberTxPortsPerResource is 'p4';
- The minimum of maxNumberResourcesPerBand is 2, except for eType2DopplerR2-r18;
- The minimum value of totalNumberTxPortsPerBand is 4.

codebookParametersfetype2CJT-PerBC-r18 BC No N/A N/A Indicates the UE support of additional codebooks and the corresponding parameters supported by the UE of Further Enhanced Type II Codebook (feType-II) with refinement for multi-TRP CJT. The basic features of feType-II codebook with refinement for multi-TRP CJT are included in feType2CJT-r18. This capability signalling comprises the following - supportedCSI-RS-ResourceList-r18 indicates the list of supported CSI-RS resources across all CCs in a band combination by referring to codebookVariantsList. The following parameters are included in codebookVariantsList: maxNumberTxPortsPerResource indicates the maximum number of Tx ports in one NZP CSI-RS resource associated with multi-TRP CJT: maxNumberResourcesPerBand indicates the maximum total number of NZP CSI-RS resource associated with multi-TRP CJT; totalNumberTxPortsPerBand indicates the total number of Tx ports of NZP CSI-RS resources associated with multi-TRP CJT. scalingfactor-r18 indicates the scaling factor X for CPU occupation counting for CJT fetype-II codebook; maxNumberNZP-CSI-RS-MultiTRP-CJT-r18 indicates the maximum number of NZP CSI-RS resources in one NZP CSI-RS resource set associated with multi-TRP CJT. The UE indicating feType2CJT-r18 shall support N=N_TRP only, N_L=1 only, support mode 2 for FeType-II port selection codebook refinement for multi-TRP CJT, support PMI subband R=1, support parameter combinations with M=1, support rank 1,2, and support frequency basis selection mode 2, i.e., common frequency basis selection among different TRPs. The UE indicating support of feType2CJT-r18 shall also indicate support of csi-ReportFramework and simultaneousCSI-ReportsAllCC. NOTE 1: When NTRP=1 TRP is configured, OCPU =1. When NTRP>1 TRPS are configured, OCPU = ceil(X * NTRP). NOTE 2: A-CSI is supported, and whether UE supports SP-CSI on PUSCH is dependent on sp-CSI-ReportPUSCH. NOTE 3: A UE that supports CSI enhancement for Rel 17 based type-II CJT must support this feature. The UE optionally includes feType2CJT-FD-IO-r18 to indicate whether the UE supports FeType-II port selection codebook refinement for multi-TRP CJT with PMI subband R=1. This capability signalling comprises the list of supported NZP CSI-RS resources across all CCs in a band combination by referring to codebookVariantsList. The UE indicating feType2CJT-FD-IO-r18 shall also support frequency basis selection mode 1, i.e., common frequency basis selection among different TRPs with FD basis selection integer frequency offset. The UE optionally Indicates feType2CJT-FD-FO-r18 to indicate whether the UE supports frequency basis selection mode 1 with FD basis selection fractional frequency offset for FeType-II port selection based CJT codebook. The UE indicating feType2CJT-FD-FO-r18 shall also indicate support of feType2CJT-FD-IOr18. The UE optionally Indicates eType2CJT-M2R1-r18 to indicate whether the UE supports FeType-II port selection codebook refinement for multi-TRP CJT with M=2 and PMI subband R=1. This capability signalling comprises the list of supported NZP CSI-RS resources with R=2 across all CCs in a band combination by referring to codebookVariantsList. The UE indicating feType2CJT-M2R1-r18 shall also indicate support of feType2CJT-r18 or feType2CJT-FD-IO-r18. The UE optionally indicates feType2CJT-R2-r18 to indicate whether the UE supports FeType-II port selection codebook refinement for multi-TRP CJT with PMI subband R=2. This capability signalling comprises the list of supported NZP CSI-RS resources with R=2 across all CCs in a band combination by referring to codebookVariantsList. The UE indicating feType2CJT-R2-r18 shall also indicate support of feType2CJT-r18 or feType2CJT-FD-IO-r18.

The UE optionally indicates *feType2CJT-2NN1N2-r18* to indicate whether the UE supports 2NN1N2 >32 for FeType-II CJT codebook. The UE indicates the maximum number of ports across all TRPs for one CJT CSI measurement.

The UE optionally indicates *feType2CJT-Rank3Rank4-r18* to indicate whether the UE supports FeType-II port selection codebook refinement for multi-TRP CJT with rank 3,4.

The UE optionally indicates feType2CJT-NN-r18 to indicate whether the UE supports selection of N <= N_TRP CSI-RS resource by UE for multi-TRP CJT based on FeType-II port selection codebook.

The UE optionally indicates *feType2CJT-NL-r18* to indicate whether the UE supports N_L>1 combinations of number of ports across CSI-RS resources for CJT Fetype-II codebook. The UE indicates the maximum number of lists for ports selection, i.e., NL, for multi-TRP CJT based on FeType-II port selection codebook.

The UE optionally indicates *feType2CJT-Unequal-r18* to indicate whether the UE supports unequal number of port selection configuration across CSI-RS resources for multi-TRP CJT including FeType-II port selection codebook refinement.

For codebookVariantsList related to the FeType-II:

- The minimum of maxNumberTxPortsPerResource is 'p4';
- The minimum of maxNumberResourcesPerBand is 2;
- The minimum value of totalNumberTxPortsPerBand is 4.

codebookParametersfetype2DopplerCSI-PerBC-r18 Indicates the UE support of additional codebooks and the corresponding parameters supported by the UE of Further Enhanced Type II Codebook (FeType-II) based on doppler CSI as specified in TS 38.214 [12].	ВС	No	N/A	N/A
The basic features of FeType-II doppler codebook are included in eType2Doppler- r18. This capability signalling comprises the following parameters: - supportedCSI-RS-ResourceList-r18 indicates the list of supported CSI-RS resources across all CCs in a band combination 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 within a band combination, simultaneously; - totalNumberTxPortsPerBand indicates the total number of Tx ports across all CCs within a band combination, simultaneously. - valueY-A-CSI-RS-r18 indicates value of Y for CPU occupation (OCPU = Y*K), when A-CSI-RS is configured for CMR; - scalingfactor-r18 indicates scaling factor for active resource counting Kp.				
The UE indicating feType2Doppler-r18 shall support X=1 CQI based on the first/earliest slot of the CSI reporting window and the first/earliest predicted PMI, support FeType-II regular codebook refinement for predicted PMI with PMI subband R=1, support parameter combinations with M=1, support rank = 1,2, and support vectorLengthDD-r18 =1. A UE indicating this feature shall also indicate the support of csi-ReportFramework.				
The UE indicating support of feType2Doppler-r18 shall also indicate support of eType2Doppler-r18, csi-ReportFramework and simultaneousCSI-ReportsAllCC.				
NOTE 1: OCPU = 4 when P/SP-CSI-RS is configured for CMR. NOTE 2: When K=12, OCPU =8. NOTE 3: Void.				
The UE optionally includes <i>maxNumberAperiodicCSI-RS-Resource-r18</i> to indicate the maximum number of aperiodic CSI-RS resources that can be configured in the same CSI report setting for FeType-II doppler measurement.				
The UE optionally includes feType2DopplerM2R1-r18 to indicate whether the UE supports M=2 and R=1 for FeType-II doppler codebook. This capability signalling comprises the list of supported CSI-RS resources across all CCs in a band combination by referring to codebookVariantsList.				
The UE optionally includes feType2DopplerR2-r18 to indicate whether the UE supports R=2 for FeType-II doppler codebook. This capability signalling comprises the list of supported CSI-RS resources across all CCs in a band combination by referring to codebookVariantsList.				
The UE optionally includes $feType2DopplerL-N4D1-r18$ to indicate whether the UE supports support of I = $(n - nCSI, ref)$ for CSI reference slot for FeType-II doppler codebook.				
The UE optionally includes feType2DopplerR3R4-r18 to indicate whether the UE supports rank equals 3 and 4 for FeType-II doppler codebook.				
For codebookVariantsList-r16 related to the feType-II: - The minimum of maxNumberTxPortsPerResource is 'p4'; - The minimum of maxNumberResourcesPerBand is 2, except for eType2DopplerR2-r18; - The minimum value of totalNumberTxPortsPerBand is 4.				

codebookParametersHARQ-ACK-PUSCH-PerBC-r18 Indicates whether the UE supports Multiplexing HARQ-ACK codebook in a PUSCH for PDSCH scheduled after UL grant.	ВС	No	N/A	N/A
This capability signalling comprises the following parameters: - multiplexingType1-r18 indicates whether the UE supports multiplexing Type-1 HARQ-ACK codebook on a repetition of a PUSCH transmission other than a first repetition, where ACK/NACK is generated for the HARQ-ACK codebook including HARQ-ACK information associated with PDSCH reception(s) scheduled after the UL grant scheduling the PUSCH transmission. A UE supporting this feature shall also indicate support of semiltaticHARQ-ACK-Codebook. - multiplexingType2-r18 indicates whether the UE supports multiplexing Type-2 HARQ-ACK codebook on a repetition of a PUSCH transmission other than a first repetition, where ACK/NACK is generated for the HARQ-ACK codebook including HARQ-ACK information associated with PDSCH reception(s) scheduled after the UL grant scheduling the PUSCH transmission. A UE supporting this feature shall also indicate support of dynamicHARQ-ACK-Codebook. - multiplexingType3-r18 indicates whether the UE supports multiplexing Type-3 HARQ-ACK codebook on a repetition of a PUSCH transmission other than a first repetition, where ACK/NACK is generated for the HARQ-ACK codebook including HARQ-ACK information associated with PDSCH reception(s) scheduled after the UL grant scheduling the PUSCH transmission. A UE supporting this feature shall also indicate support of oneShotHARQ-feedback-r16.				
A UE supporting this feature shall also indicate support of one of <i>pusch-RepetitionMultiSlots</i> and <i>pusch-RepetitionTypeB-r16</i> .				
UE does not expect to determine a different codebook size in a PUCCH slot from the codebook size determined based on HARQ-ACK information associated with PDSCH reception(s) scheduled before a UL grant that schedules a PUSCH in a slot overlapping with the PUCCH slot.				
UE does not expect to determine a different PUCCH time domain resource in a slot from the PUCCH time domain resource determined based on HARQ-ACK information associated with PDSCH reception(s) scheduled before a UL grant that schedules a PUSCH in that slot.				
The UE optionally includes <i>pucch-DiffResource-PDSCH-r18</i> to indicate whether the UE supports determining a different PUCCH resource in a slot from the PUCCH resource indicated by the last DCI format before a UL grant in the slot, to include HARQ-ACK information associated with PDSCH reception(s) scheduled after the UL grant scheduling a PUSCH transmission with repetitions and the HARQ-ACK information are multiplexed on a repetition of the PUSCH transmission other than a first repetition in the same slot. A UE supporting <i>pucch-DiffResource-PDSCH-r18</i> shall also indicate support of one of <i>multiplexingType1-r18</i> , <i>multiplexingType2-r18</i> and <i>multiplexingType3-r18</i> .				
The UE optionally includes diffCB-Size-PDSCH-r18 to indicate whether the UE supports determining different codebook size in a PUCCH slot from the size determined based on HARQ-ACK information associated with PDSCH reception(s) scheduled before a UL grant, to include HARQ-ACK information associated with PDSCH reception(s) scheduled after the UL grant scheduling a PUSCH transmission with repetitions and the HARQ-ACK information are multiplexed on a repetition of the PUSCH transmission other than a first repetition in the same slot. A UE supporting diffCB-Size-PDSCH-r18 shall also indicate support of one of multiplexingType1-r18, multiplexingType2-r18 and multiplexingType3-r18.				

codebookComboParameterMixedTypePerBC-r17	ВС	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 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 individual codebook				
types in the reported mixed codebook combination(s) among fetype2basic-r17,				
etype2R1-r16, codebookParameters (type1-singlePanel, type1-multiPanel, type2),				
fetype2R1-r17, fetype2R2-r17.				

codebookComboParameterMultiTRP-PerBC-r17	BC	No	N/A	N/A
Indicates the support of active CSI-RS resources and ports in the presence of multi-				
TRP CSI.				
Indicates the support of active CSI-RS resources and ports for mixed codebook				
types in any slot. The UE reports supported active CSI-RS resources and ports for				
up to 4 mixed codebook combinations. The following are the possible mixed				
codebook combinations {Codebook1, Codebook2, Codebook3}:				
- 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}				
31NF, 61946 11 N=1, F61946 11 F3 W=2 N=1}				
For each mixed eadshook supported by the UE assessment dOCLES				
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.				
NOTE2:	his capability is relevant only when UE is configured with NCJT CSI in at least one CSI report setting in at least one CC in the band and/or band combination.				
	ndicating support of this feature shall also indicate the support of mTRP- ancementPerBand-r17.				
	rrierA-CSI-trigDiffSCS-r16	ВС	No	N/A	N/A
Indicates aperiodic different of PDCC SCS indicates lower SC this feature.	the UE support of handling cross-carrier aperiodic CSI report with CSI-RS where triggering PDCCH and triggered CSI-RS resource are on cells with different SCS. Value <i>higherA-CSI-SCS</i> indicates the UE support H cell of lower SCS and CSI RS cell of higher SCS and value <i>lowerA-CSI-</i> cates the UE support of PDCCH cell of higher SCS and CSI RS cell of S, and value <i>both</i> indicates the support of both variations. A UE supporting re shall also indicate support of CSI-RS and CSI-IM reception for CSI	50		1471	1471
	using csi-RS-IM-ReceptionForFeedback		NI-	NI/A	NI/A
Indicates default Q numerolo crossCar Value diff combinate		BC	No	N/A	N/A
Value bo	th indicates UE supports this feature for same SCS and for different SCS				
	rrierSchedulingDL-DiffSCS-r16	ВС	No	N/A	N/A
Indicates with carri	the UE supports cross carrier scheduling for the different numerologies er indicator field (CIF) in DL carrier aggregation where numerologies for duling CC and scheduled CC are different.	ВС	INO	IN/A	IVA
CC of hig	w-to-high indicates UE supports scheduling CC of lower SCS to scheduled pher SCS; ph-to-low indicates UE supports scheduling CC of higher SCS to scheduled				
CC of lov					
	th indicates UE supports both scheduling CC of lower SCS to scheduled the sCS and scheduling CC of higher SCS to scheduled CC of lower				
NOTE 1:	Following components are applicable to cross carrier scheduling from lower SCS to higher SCS when the UE reports this feature: - Processing one unicast DCI scheduling DL per scheduling CC slot per scheduled CC for FDD scheduling CC - Processing one unicast DCI scheduling DL per scheduling CC slot per scheduled CC for TDD scheduling CC				
NOTE 2:	Following components are applicable to cross carrier scheduling from higher SCS to lower SCS when the UE reports this feature: - Processing one unicast DCI scheduling DL per N consecutive scheduling CC slot per scheduled CC for FDD scheduling CC - Processing one unicast DCI scheduling DL per N consecutive scheduling CC slot per scheduled CC for TDD scheduling CC - N is based on pair of (scheduling CC SCS, scheduled CC SCS): N=2				
	for (30,15), (60,30), (120,60) and N=4 for (60,5), (120,30), N = 8 for (120,15)				

crossCarrierSchedulingSCell-SpCellTypeB-r17	ВС	No	N/A	FR1
Indicates whether the UE supports cross-carrier scheduling from SCell configured				only
with cross-carrier scheduling to PCell/PSCell (sSCell) to PCell/PSCell				,
(Type B). This capability signalling comprises the following parameters:				
- supportedSCS-Combinations-r17 indicates which {PCell/PSCell SCS in kHz,				
sSCell SCS in kHz} combinations are supported. For {PCell/PSCell SCS in				
kHz, sSCell SCS in kHz} combinations = {(30,30), (30, 60), (60,60)}, the				
capability also indicates the band pair(s) that are supported. The band-pair is				
encoded as a bitmap with size $L * (L - 1) / 2$, 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 DCI 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. 				
NOTE 4 AUG				
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.				

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 DCI 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	BC	No	N/A	N/A
Indicates the UE supports cross carrier scheduling for the different numerologies			,, .	
with carrier indicator field (CIF) in UL carrier aggregation where numerologies for				
the scheduling CC and scheduled CC are different.				
the sorteduing of and sorteduica of are different.				
Value <i>low-to-high</i> 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:				
 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 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 s14 indicates 14 symbols, and so on. For FR2-2 bands, the time relaxation values of the required additional number of symbols for SCS 480/960 kHz (μ=5 and μ=6) are the same amount of absolute time as UE reported for SCS 120kHz (μ=3). sp-CSI-ReportingOnPUCCH-r16 indicates whether the UE supports SP-CSI reporting on PUSCH 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-Reporting-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}				
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.				

currentSpCellIncIL1-Report-r18	ВС	No	N/A	N/A
Indicates support of always including the current SpCell in the L1 measurement report.				
UE supporting this feature shall also indicate support of <i>intraFreqL1-MeasConfig-</i> r18.				
dci-FormatsPCelIPSCelIUSS-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.				
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 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].	ВС	No	No	FR1 only
UE indicating support of this feature shall indicate support of demodulationEnhancement-r16.				
diffNumerologyAcrossPUCCH-Group 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.	ВС	No	N/A	N/A
diffNumerologyAcrossPUCCH-Group-CarrierTypes-r16 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.	BC	No	N/A	N/A
diffNumerologyWithinPUCCH-GroupLargerSCS Indicates whether UE supports different numerology across carriers within a PUCCH group and a same numerology between DL and UL per carrier for data/control channel at a given time in NR CA, (NG)EN-DC/NE-DC and NR-DC. In case of NR CA and (NG)EN-DC/NE-DC with one NR PUCCH group and in case of NR CA with two NR PUCCH groups, it also indicates whether the UE supports different numerologies across NR carriers within the same NR PUCCH group up to two different numerologies within the same NR PUCCH group, wherein NR PUCCH is sent on the carrier with larger SCS for data and control channel at a given time. In case of (NG)EN-DC/NE-DC with two NR PUCCH groups, it indicates whether the UE supports different numerologies across NR carriers up to two different numerologies within an NR PUCCH group in FR1, wherein NR PUCCH is sent on the carrier with larger SCS, and same numerology across NR carriers within another NR PUCCH group in FR2 for data and control channel at a given time. In case of NR-DC, it indicates whether the UE supports different numerologies across NR carriers within the same NR PUCCH group in MCG (in FR1) up to two different numerologies within the same NR PUCCH group wherein NR PUCCH is sent on the carrier with larger SCS for data/control channel at a given time; and same numerology across NR carriers in SCG (in FR2).	BC	No	N/A	N/A
diffNumerologyWithinPUCCH-GroupLargerSCS-CarrierTypes-r16 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.	ВС	No	N/A	N/A
NOTE: PUCCH is sent on a carrier with SCS not smaller than SCS of any DL carriers corresponding to the PUCCH group.				

diffNumerologyWithinPUCCH-GroupSmallerSCS 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).	BC	No	N/A	N/A
diffNumerologyWithinPUCCH-GroupSmallerSCS-CarrierTypes-r16 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.	BC	No	N/A	N/A
disablingScalingFactorDeactSCell-r17 Indicates whether UE supports disabling scaling factor α for Cross-carrier scheduling (CCS) from SCell configured with cross-carrier scheduling to PCell/PSCell (sSCell) to PCell/PSCell(Type A or Type B) when sSCell is deactivated (i.e. scaling factor α is not applied for PDCCH overbooking/BD/CCE limit computation when sSCell is deactivated). UE indicating support of this feature shall indicate support of crossCarrierSchedulingSCell-SpCellTypeA-r17 or crossCarrierSchedulingSCell-SpCellTypeB-r17.	BC	No	N/A	FR1 only
disablingScalingFactorDormantSCell-r17 Indicates whether UE supports disabling scaling factor α for Cross-carrier scheduling (CCS) from SCell configured with cross-carrier scheduling to PCell/PSCell (sSCell) to PCell/PSCell(Type A or Type B) when sSCell is switched to dormant BWP (i.e. scaling factor α is not applied for PDCCH overbooking/BD/CCE limit computation when sSCell is switched to dormant BWP). UE indicating support of this feature shall indicate support of crossCarrierSchedulingSCell-SpCellTypeA-r17 or crossCarrierSchedulingSCell-SpCellTypeB-r17.	ВС	No	N/A	FR1 only
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-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-RepTypeBPerBC-r17, dmrs-BundlingPUSCH-multiSlotPerBC-r17 or dmrs-BundlingPUCCH-RepPerBC-r17. NOTE: This capability is only applicable when UE is configured with single uplink carrier within a frequency range.	ВС	No	N/A	N/A

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-		''	14//	14//
slot (TBoMS) PUSCH over consecutive symbols.				
Siot (TDOING) TOSCITOVEL CONSECUTIVE Symbols.				
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 Diviks building at a time.				
NOTE 1. Under the above conditions, phase continuity and newer consistency				
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	ВС	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. 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-BundlingRestartPerBC-r17	BC	No	N/A	N/A
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.				
UE indicating support of this feature shall also indicate support of <i>maxDurationDMRS-Bundling-r17</i> in at least one of the bands in the band combination.				
NOTE: Events which are triggered by DCI or MAC CE, but do not require UE capability to resume maintaining power consistency and/or phase continuity as specified in clause 6.1.7 of TS 38.214 [12] are excluded from this feature.				
dualPA-Architecture 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.	ВС	No	N/A	N/A

 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.				
 dynamicPUCCH-CellSwitchSameLengthSingleGroup-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 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), 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.				

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 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, 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
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 configg}. 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-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	BC	No	TDD only	N/A
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-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-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.	BC	No	N/A	N/A

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

 InterFreqL1-MeasConfig-r18 Indicates whether UE supports inter-frequency L1-RSRP measurement and reporting based on SSB(s) of candidate cell(s), regardless whether the candidate cell(s) are inside or outside of the BC (unless the UE also indicates support of Itm-interFreqL1-OnlyInBC-r18). This capability signalling comprises of the following parameters: supportedMaxIntraInterFreqCellsConfig-r18 indicates the maximum number of RRC configured candidate cells for intra- and inter-frequency L1-RSRP measurement; supportedMaxIntraInterFreqCellsPerReport-r18 indicates maximum number of candidate cells in one report where a SSBRI-RSRP pair is used for each beam report for intra- and inter-frequency L1-RSRP measurement; supportedMaxIntraInterFreqBeamsPerCellReports-r18 indicates maximum number of candidate beams per candidate cell in one report where a SSBRI-RSRP pair is used for each beam report for intra- and inter-frequency L1-RSRP measurement; supportedMaxIntraInterFreqBeamsReports-r18 indicates maximum number of candidate cells beams in total across all cells in one report where a SSBRI-RSRP pair is used for each beam report for intra- and inter-frequency L1-RSRP measurement; UE supporting this feature shall also indicate support of intraFreqL1-MeasConfig-r18. 	BC	No	N/A	N/A
interFreqSSB-L1-MeasWithoutGaps-r18 Indicates whether UE supports SSB based inter-frequency L1-RSRP measurements on SSBs within active DL BWP without measurement gaps (without interruption on serving cell(s)) for LTM. UE supporting this feature shall also indicate support of interFreqL1-MeasConfig-r18.	ВС	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
intraBandNR-CA-non-collocated-r18 Indicates whether the UE supports TDD-TDD intra-band non-collocated NR-CA operation with MTTD/MRTD requirements according to Table 7.5.4-1/Table 7.6.4-2 in TS 38.133 [5] and UE RF requirements for intra-band non-collocated NR-CA including 7.10A in TS 38.101-1 [2], and TDD-TDD intra-band NR-CA operation with MRTD according to Table 7.6.4-1 in TS 38.133 [5] and UE RF requirements for intra-band NR-CA except for 7.10A in TS 38.101-1 [2] (i.e. Type 2 UE). If the capability is not reported, the UE only supports TDD-TDD intra-band NR-CA operation with MRTD according to Table 7.6.4-1 in TS 38.133 [5] and UE RF requirements for intra-band NR-CA except for 7.10A in TS 38.101-1 [2] (i.e. Type 1 UE).	ВС	No	N/A	FR1 only
A UE supporting this feature shall also support network controlled indication of the MTTD/MRTD and RF requirements by <i>nonCollocatedTypeNR-CA-r18</i> for intra-band non-collocated NR-CA, as defined in TS 38.331 [9].				

T. =				
intraFreqL1-MeasConfig-r18	ВС	No	N/A	N/A
Indicates whether UE supports intra-frequency L1-RSRP measurement and				
reporting based on SSB(s) of candidate cell(s).				
This capability signalling comprises of the following parameters:				
- supportedMaxIntraFreqCellsConfig-r18 indicates the maximum number of				
RRC configured candidate cells for intra-frequency L1-RSRP measurement;				
 supportedMaxIntraFreqCellsPerReport-r18 indicates the maximum number 				
of candidate cells in one report where a SSBRI-RSRP pair is used for each				
beam report for intra-frequency L1-RSRP measurement;				
 supportedMaxReportBeamsPerReportedCell-r18 indicates the maximum 				
number of candidate beams per candidate cell in one report where a SSBRI-				
RSRP pair is used for each beam report for intra-frequency L1-RSRP				
measurement;				
 supportedMaxReportBeamsReports-r18 indicates the maximum number of 				
candidate beams in total across all cells in one report where a SSBRI-RSRP				
pair is used for each beam report for intra-frequency L1-RSRP				
measurement;				
- supportedMaxAperiodic-LTM-CSI-ReportConfig-r18 indicates maximum				
number of aperiodic LTM-CSI-ReportConfig;				
- supportedMaxPeriodic-LTM-CSI-ReportConfig-r18 indicates maximum				
number of periodic <i>LTM-CSI-ReportConfig</i> ;				
- supportedMaxSemiPersistent-LTM-CSI-ReportConfig-r18 indicates				
maximum number of semi-persistant LTM-CSI-ReportConfig;				
UE supporting this feature shall also indicate support of <i>periodicBeamReport</i> or				
aperiodicBeamReport or sp-BeamReportPUCCH or sp-BeamReportPUSCH.				
jointSearchSpaceSwitchAcrossCells-r16	ВС	No	N/A	N/A
Indicates whether the UE supports being configured with a group of cells and	D0	110	14// (13//
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.				
maxCC-32-DL-HARQ-ProcessFR2-2-r17	ВС	No	N/A	N/A
Indicates the maximum number of component carriers that can be configured with		''	14// (1 17/1
32 DL HARQ processes. Value n1 means maximum 1 component carrier, value n2				
means maximum 2 component carriers, and so on.				
mound maximum 2 domponent earners, and so on.				
UE supporting this feature shall indicate support of support32-DL-HARQ-				
ProcessPerSCS-r17.				
maxCC-32-UL-HARQ-ProcessFR2-2-r17	ВС	No	N/A	N/A
Indicates the maximum number of component carriers that can be configured with		''	1 4// 1	14//
32 UL HARQ processes. Value n1 means 1 component carrier, value n2 means 2				
component carriers, and so on.				
Component current, and co on:				
UE supporting this feature shall indicate support of support32-UL-HARQ-				
ProcessPerSCS-r17.				
maxFreqLayersL1-Meas-r18	ВС	No	N/A	N/A
Indicates the number of frequency layers for L1-RSRP measurement.				
This capability signalling comprises of the following parameters:				
- supportedMaxIntraInterFreqLayersWithoutGaps-r18 indicates the maximum				
number of frequency layers UE can measure for intra- and inter-frequency				
without measurement gaps L1-RSRP measurement. Only frequency layers				
which are configured with SSB-based L1-RSRP measurement on neighbour				
cell(s) by LTM-CSI-ResourceConfig-r18 are counted.				
A UE indicating support for this component shall also indicate support for				
intraFreqL1-MeasConfig-r18 and/or interFreqSSB-L1-MeasWithoutGaps-r18.				
- supportedMaxInterFreqLayersWithGaps-r18 indicates the maximum number				
of frequency layers UE can measure for inter-frequency L1-RSRP				
measurement with measurement gaps. A UE indicating support for this				
component shall also indicate support for <i>ltm-InterFreqMeasGap-r18</i> .				
component snan also indicate support for <i>first-inter-regimeasoap-i</i> 16.		1		l

maxNeighCellsPerFreqLayerL1-Meas-r18	BC	No	N/A	N/A
Indicates the number of neighbouring cells per frequency layer for L1-RSRP				
measurement.				
This capability signalling comprises of the following parameters:				
- supportedMaxNeighCellsPerFreqLayersWithoutGaps-r18 indicates the max				
number of neighbour cells UE can measure for L1-RSRP per frequency layer				
for intra-frequency or inter-frequency without measurement gaps.				
A UE indicating support for this component shall also indicate support for				
intraFreqL1-MeasConfig-r18 or interFreqSSB-L1-MeasWithoutGaps-r18.				
- supportedMaxNeighCellsPerFreqLayersWithGaps-r18 indicates the max				
number of neighbour cells UE can measure for L1-RSRP per frequency layer for inter-frequency with measurement gaps. A UE indicating support for this				
component shall also indicate support for <i>ltm-InterFreqMeasGap-r18</i> .				
maxNumberTAG-AcrossCC-r18	BC	No	N/A	N/A
Indicates the maximum number of TAGs across all CCs in a band combination	ВС	INO	IN/A	IN/A
when UE supports multi-DCI Multi-TRP operation with two TA enhancement.				
when or supports main-bor wain-thir operation with two TA emiliancement.				
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. It is				
mandatory for the UE to support more than one TAG for NR-DC and it is mandatory				
for 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.				
g a marting				
A UE supporting this feature shall indicate support of <i>multiDCI-IntraCellMultiTRP</i> -				
TwoTA-r18 or multiDCI-InterCellMultiTRP-TwoTA-r18.				
NOTE: UE only supports the configuration where all UL CCs of the same				
frequency band are configured with up to 2 Timing Advance Group ID.				
maxSSB-PerFreqLayerL1-Meas-r18	BC	No	N/A	N/A
Indicates the maximum number of SSB resources for L1-RSRP measurement per				
frequency layer UE can measure.				
This capability signalling comprises of the following parameters:				
 supportedMaxSSB-PerFreqLayersWithoutGaps-r18 indicates the max 				
number of SSB resources UE can measure for L1-RSRP per frequency layer				
for intra-frequency or inter-frequency without measurement gaps. LTM				
candidate cells and serving cells are counted regardless of whether SSB L1-				
RSRP measurement on serving cell is configured in <i>LTM-CSI</i> -				
ResourceConfig-r18 or not.				
A UE indicating support for this component shall also indicate support for				
intraFreqL1-MeasConfig-r18 or interFreqSSB-L1-MeasWithoutGaps-r18.				
 supportedMaxSSB-PerFreqLayersWithGaps-r18 indicates the max number of SSB resources UE can measure for L1-RSRP per frequency layer for 				
inter-frequency with measurement gaps. A UE indicating support for this				
component shall also indicate support for <i>ltm-InterFreqMeasGap-r18</i> .				
maxUplinkDutyCycle-interBandCA-PC2-r17	BC	No	N/A	FR1
Indicates the maximum average percentage of symbols during a certain evaluation	50	140	13/73	only
period that can be scheduled for uplink transmission so as to ensure compliance				Jilly
with applicable electromagnetic energy absorption requirements provided by				
regulatory bodies. The average percentage of uplink symbols is specified in				
6.2A.1.3, 6.2H.3.1 and 6.2L.3.1 in TS 38.101-1 [2] and the capability applies to the				
CA combinations listed in table 6.2A.1.3-1, 6.2H.3.1-1 and 6.2L.3.1-1 in TS 38.101-				
1 [2]. If the field is absent, UE may use P-MPR _c as defined in 6.2.4 in TS 38.101-1				
[2] if necessary.				
Value n50 corresponds to 50%, value n60 corresponds to 60% and so on.				
, , , , , , , , , , , , , , , , , , , ,				
NOTE 1: Specific targeted UL duty cycle percentage is not assumed if the field is				
absent.				
NOTE 2: This field is applicable for both power class 2 and power class 1.5 inter-				
band UL CA.	1	l		

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 38.101-1 [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 38.101-1 [2] if necessary. Value n50 corresponds to 50%, value n60 corresponds to 60% and so on.	BC	No	N/A	FR1 only
NOTE: Specific targeted UL duty cycle percentage is not assumed if the field is absent.				
 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 	BC	No	N/A	N/A
for PUCCH transmission. 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.	ВС	No	N/A	N/A
NOTE: When the carrier type of NUL is indicated for PUCCH transmission location, the SUL in the same cell as in the NUL can also be configured for PUCCH transmission.				
mixCodeBookSpatialAdaptationPerBC-r18 Indicates the list of supported CSI-RS resources across all bands in a band combination by referring to codebookVariantsList for the mixed codebook types when UE supports mixed codebook combination for spatial domain adaptation with CSI feedback based on CSI report sub-configuration(s). 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;	ВС	No	N/A	N/A
 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. 				
A UE supporting this feature shall also indicate support of spatialAdaptation-CSI-FeedbackPerBC-r18, or spatialAdaptation-CSI-FeedbackPUSCH-PerBC-r18, or spatialAdaptation-CSI-FeedbackAperiodicPerBC-r18.				
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. 	ВС	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. 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.				
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

multiCell-PDSCH-DCI-1-3-DiffSCS-r18	ВС	No	N/A	N/A
Indicates whether the UE supports monitoring DCI format 1_3 for DL scheduling	_			
where scheduling cell is not included in a set of cells in same PUCCH group and				
supports Type-2 for 'Antenna port(s)' field.				
The number of unicast DL DCIs to process per N consecutive slots of scheduling				
cell for a set of cells configured for multi-cell PDSCH scheduling by DCI format 1_3;				
- One DCI format 1_3 for the set of cells and,				
- One unicast DL DCl formats 1_0/1_1/1_2 (if supported) for each of the cells				
that are not scheduled by DCI 1_3				
- For low-to-high SCS, N = 1.				
- For high-to-low SCS, 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 (60,15), (120,30), N				
= 8 for (120,15)				
The UE monitors SS set(s) for DCI format 1_3 for a set of cells when search space				
set configurations for DCI format 1_3 for the set of cells with the same				
searchSpaceId are provided on both the scheduling cell and a serving cell in the set				
of cells. Scheduling cell is PCell or SCell, and a set of cells includes only SCells.				
The capability signalling comprises the following parameters:				
- coScheduledCellSCS-r18 indicates scheduling cell and co-scheduled cells				
have different SCS. The set of co-scheduled cells share the same SCS and				
carrier type.				
- combinationCarrierType-r18 indicates scheduling cell and co-scheduled cells				
have same or different carrier type (FR1 licensed FDD or FR1 licensed TDD				
or FR1 unlicensed TDD or FR2-1 or FR2-2).				
- maxNumberCoScheduledCell-r18 indicates the max number of co-scheduled				
cells per set of cells supported by UE.				
- maxNumberSetsOfCellAcrossPUCCH-Group-r18 indicates the max number				
of sets of cells supported by UE across PUCCH groups.				
 maxNumberSetsOfCellScheduling-r18 indicates the max number of sets of 				
cells supported by UE for a same scheduling cell.				
 harqFeedbackType-r18 indicates the supported HARQ feedback types. The 				
UE shall report the same value for all BCs supporting <i>multiCell-PDSCH-DCI-</i>				
1-3-DiffSCS-r18, i.e. The UE shall report the same value for all supported				
BCs with multiCell-PDSCH-DCI-1-3-DiffSCS-r18 reported.				
 coScheduledCellIndicationScheme-r18 indicates the supported co- 				
scheduled cell indication schemes.				
NOTE 4. Compared of CCC with DL DOLformante 4.4/4.0 in accomplished				
NOTE 1: Support of CCS with DL DCI formats 1_1/1_2 is according to				
crossCarrierSchedulingDL-DiffSCS-r16.				
NOTE 2: 480/960 kHz SCS is not applicable to multi-cell scheduling with DCI				
format 1_3.				

multiCall DDCCH DCI 4.3 CamaCCC #40	ВС	No	NI/A	NI/A
multiCell-PDSCH-DCI-1-3-SameSCS-r18	ьс	No	N/A	N/A
Indicates whether the UE supports monitoring DCI format 1_3 for DL scheduling				
with same SCS between scheduling cell and cells in the set and supports Type-2 for				
'Antenna port(s)' field.				
The number of unicast DL DCIs to process per slot of scheduling cell for a set of				
cells configured for multi-cell PDSCH scheduling by DCI format 1_3:				
- One DCI format 1_3 for the set of cells and,				
- One unicast DL DCI formats 1_0/1_1/1_2 (if supported) for each of the cells				
that are not scheduled by DCI 1_3.				
Scheduling cell is PCell if set of cells includes PCell, and scheduling cell is PCell or				
an SCell if set of cells includes only SCells.				
The UE monitors SS set(s) for DCI format 1_3 for a set of cells for the following				
cases:				
 Search space set configuration for DCI format 1_3 for the set of cells is 				
provided only on the scheduling cell, or;				
 Search space set configurations for DCI format 1_3 for the set of cells with 				
the same searchSpaceId are provided on both the scheduling cell and a				
serving cell in the set of cells with the scheduling cell being not in the set of				
cells.				
A UE supporting this capability can additionally report				
supportOfSearchSpace-r18 to indicate whether the UE supports search				
space set configurations for DCI format 1_3 for the set of cells with the same				
searchSpaceId are provided on both the scheduling cell and a serving cell in				
the set of cells with the scheduling cell being in the set of cells.				
The capability signalling comprises the following parameters:				
- coScheduledCellSCS-r18 indicates scheduling cell and co-scheduled cells				
have same SCS and carrier type.				
- maxNumberCoScheduledCell-r18 indicates the max number of co-scheduled				
cells per set of cells supported by UE.				
- maxNumberSetsOfCellAcrossPUCCH-Group-r18 indicates the max number				
of sets of cells supported by UE across PUCCH groups.				
- maxNumberSetsOfCellScheduling-r18 indicates the max number of sets of				
cells supported by UE for a same scheduling cell.				
- hargFeedbackType-r18 indicates the supported HARQ feedback types. The				
UE shall report the same value for all BC supporting multiCell-PDSCH-DCI-				
1-3-SameSCS-r18, i.e. The UE shall report the same value for all supported				
BCs with multiCell-PDSCH-DCI-1-3-SameSCS-r18 reported.				
- coScheduledCellIndicationScheme-r18 indicates the supported co-				
scheduled cell indication schemes.				
When multiple values are reported in coScheduledCellSCS-r18 and if scheduling				
cell is not included in the set of cells, the UE supports multi-cell PDSCH scheduling				
by DCI format 1_3 from one carrier type, indicated in coScheduledCellSCS-r18, to				
another carrier type, indicated in coScheduledCellSCS-r18, for the following				
scheduling cases:				
- FR1 licensed TDD to FR1 unlicensed TDD				
- FR2-1 to FR2-2				
- UE can additionally report <i>licensed-fdd-tdd-fr1</i> indicating the support of FR1				
licensed FDD from/to FR1 licensed TDD.				
NOTE 1: Support of CCS with DL DCI formats 1_1/1_2 is according to				
crossCarrierScheduling-SameSCS.				
NOTE 2: 480/960 kHz SCS is not applicable to multi-cell scheduling with DCI				
format 1_3.				
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MO II BUOM BOLO O BIMOOO 10			11/1	21/2
multiCell-PUSCH-DCI-0-3-DiffSCS-r18	BC	No	N/A	N/A
Indicates whether the UE supports monitoring DCI format 0_3 for UL scheduling				
where scheduling cell is not included in a set of cells in same PUCCH group and				
supports Type-2 for 'Antenna port(s)', 'Precoding information and number of layers'				
and 'SRS resource indicator' fields. Scheduling cell is PCell or SCell, and a set of				
cells includes only SCells.				
The number of unicast UL DCIs to process per N consecutive slots of scheduling				
cell for a set of cells configured for multi-cell PUSCH scheduling by DCI format 0_3:				
- For FDD scheduling cell				
 Up to one DCI format 0_3 for the set of cells and, 				
 Up to one unicast UL DCI formats 0_0/0_1/0_2 (if supported) for each of 				
the cells				
 For a cell in a set of cells, no more than one DCI scheduling PUSCH for 				
the cell				
- For TDD scheduling cell				
 Up to two DCI format 0_3 for the set of cells and, 				
 Up to two unicast UL DCI formats 0_0/0_1/0_2 (if supported) for each of 				
the cells				
 For a cell in a set of cells, no more than two DCI scheduling PUSCH for 				
the cell				
- For low-to-high SCS, N = 1.				
 For high-to-low SCS, 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 (60,15), (120,30), N				
= 8 for (120,15).				
The UE monitors SS set(s) for DCI format 0_3 for a set of cells when search space				
set configurations for DCI format 0_3 for the set of cells with the same				
searchSpaceId are provided on both the scheduling cell and a serving cell in the set				
of cells.				
The capability signalling comprises the following parameters:				
 coScheduledCellSCS-r18 indicates scheduling cell and co-scheduled cells 				
have different SCS. The set of co-scheduled cells share the same SCS and				
carrier type.				
 combinationCarrierType-r18 indicates scheduling cell and co-scheduled cells 				
have same or different carrier type (FR1 licensed FDD or FR1 licensed TDD				
or FR1 unlicensed TDD or FR2-1 or FR2-2).				
- maxNumberCoScheduledCell-r18 indicates the max number of co-scheduled				
cells per set of cells supported by UE.				
 maxNumberSetsOfCellAcrossPUCCH-Group-r18 indicates the max number 				
of sets of cells supported by UE across PUCCH groups.				
 maxNumberSetsOfCellScheduling-r18 indicates the max number of sets of 				
cells supported by UE for a same scheduling cell.				
- coScheduledCellIndicationScheme-r18 indicates the supported co-				
scheduled cell indication schemes.				
NOTE 1: Support of CCS with UL DCI formats 0_1/0_2 is according to				
crossCarrierSchedulingUL-DiffSCS-r16.				
NOTE 2: 480/960 kHz SCS is not applicable to multi-cell scheduling with DCI				
format 0_3.				

multicell-PUSCH-DCI-O-3-SameSCS-18 Indicates whether the UE supports monitoring DCI format 0_3 for UL scheduling with same SCS between scheduling cell and cells in the set and supports Type-2 for 7-Interna port(s). Precoding information and number of layers' and 'SRS resource indicator' fields. Scheduling cell is PCell of cells includes PCell, and scheduling cell for a set of cells include sonly SCells. The number of unicast UL DCIs to process per slot of scheduling cell for a set of cells configured for multi-cell PUSCH scheduling by DCI format 0_3: For FDD scheduling cell: - Up to one unicast UL DCI formats 0_0/0_1/0_2 (if supported) for each of the cells - For a cell in a set of cells, no more than one DCI scheduling PUSCH for the cell - For a cell in a set of cells, no more than two DCI scheduling PUSCH for the cell. The UE monitors SS set(s) for DCI format 0_3 for a set of cells for the following cases: - Search space set configuration for DCI format 0_3 for the set of cells with the same search/Spaced are provided on both the scheduling cell cor: - Search space set configurations for DCI format 0_3 for the set of cells with the same search/Spaced are provided on both the scheduling cell and a serving cell in the set of cells with the scheduling cell being not in the set of cells with the same search/Spaced are provided on both the scheduling cell and a serving cell in the set of cells with the scheduling cell being not in the set of cells with the scheduling cell cand a serving cell in the set of cells with the scheduling cell and caserving cell in the set of cells with the scheduling cell and a serving cell in the set of cells with the scheduling cell and caserving cell in the set of cells with the scheduling cell and caserving cell in the set of cells with the scheduling cell and caserving cell in the set of cells with the scheduling cell cand a serving cell in the set of cells with the scheduling cell cand caserving cell in the set of cells supported by UE cards a PUCCH-Group-18 indicates the m	multiCell-PUSCH-DCI-0-3-SameSCS-r18				
with same SCS between scheduling cell and cells in the set and supports Type-2 for /ahnena port(s). Precoding information and number of layers' and TSRS resource indicator fields. Scheduling cell is PCell or an SCell if set of cells includes only SCells. The number of unicast UL DCIs to process per slot of scheduling cell for a set of cells configured for multi-cell PUSCH scheduling by DCI format 0_3: For FDD scheduling cell: Up to one DCI format 0_3 for the set of cells and. Up to one Unicast UL DCI formats 0_0/0_1/0_2 (if supported) for each of the cells For a cell in a set of cells, no more than one DCI scheduling PUSCH for the cell For a cell in a set of cells, no more than one DCI scheduling PUSCH for the cells For a cell in a set of cells, no more than two DCI scheduling PUSCH for the cells For a cell in a set of cells, no more than two DCI scheduling PUSCH for the cells For a cell in a set of cells, no more than two DCI scheduling PUSCH for the cells For a cell in a set of cells, no more than two DCI scheduling PUSCH for the cells For a cell in a set of cells, or one than two DCI scheduling PUSCH for the cells For a cell in a set of cells, or one than two DCI scheduling PUSCH for the cells For a cell in a set of cells, or one than two DCI scheduling cell and a serving cell in the set of cells with the scheduling cell or one search Space at configurations for DCI format 0_3 for the set of cells with the same search/Space/13 to indicate whether the UE supports search space set configurations for DCI format 0_3 for the set of cells with the same search/Space/13 to indicate whether the UE supports search space set configurations for DCI format 0_3 for the set of cells with the same search/Space/13 for indicate whether the UE supports search space set configurations for DCI format 0_3 for the set of cells with the same search/Space/13 for indicates the cell whether the UE supports search space set configurations for DCI format 0_3 for one cell being in the set of cells with the same search/Space/1		BC	No	N/A	N/A
'Antena port(s)'. Precoding information and number of layers' and 'SRS resource indicator' fields. Scheduling cell is PCell if set of cells includes PCell, and scheduling cell is PCell or an SCell if set of cells includes PCell, and scheduling cell is PCell or an SCell if set of cells includes only SCells. For IDD Scheduling cell: - Up to one DCI format 0 3 for the set of cells and, - Up to one uncast UL DCI formats 0_0/0_1/0_2 (if supported) for each of the cells - For a cell in a set of cells, no more than one DCI scheduling PUSCH for the cell - Up to two DCI format 0_3 for the set of cells and, - Up to two DCI format 0_3 for the set of cells and, - Up to two DCI format 0_3 for the set of cells and, - Up to two DCI format 0_3 for the set of cells and, - Up to two DCI format 0_3 for the set of cells and, - Up to two DCI format 0_3 for the set of cells for the following cell: - For a cell in a set of cells, no more than two DCI scheduling PUSCH for the cell. The UE monitors SS set(s) for DCI format 0_3 for a set of cells for the following cases: - Search space set configuration for DCI format 0_3 for the set of cells with the same search/Spaced are provided on both the scheduling cell and a serving cell in the set of cells with the scheduling cell being not in the set of cells with the same search/Space-rl 8 to indicate whether the UE supports search space set configurations for DCI format 0_3 for the set of cells with the same search/Space-rl 8 to indicate whether the UE supports search space set configurations for DCI format 0_3 for the set of cells with the same search/Space-rl 8 to indicate scheduling cell and a serving cell in the set of cells with the scheduling cell and serving cell in the set of cells with the scheduling cell and co-scheduled cells have seame SCS and carrier type. - maxNumber/SetSOfCellsCroberUng-rl8 indicates the max number of co-scheduled cells cells per set of cells supported by UE. - maxNumber/SetSOfCellsCroberUng-rl8 indicates the max number of sets of cells supported by UE fo					
indicator fields. Scheduling cell is PCell or an Scell if set of cells includes only Scells. The number of unicast UL DCIs to process per slot of scheduling cell for a set of cells configured for multi-cell PUSCH scheduling by DCI format 0_3: For FDD scheduling cell: - Up to one DCI format 0_3 for the set of cells and, - Up to one DCI format 0_3 for the set of cells and, - Up to two DCI format 0_3 for the set of cells and, - Up to two DCI format 0_3 for the set of cells and, - Up to two DCI format 0_3 for the set of cells and, - Up to two DCI format 0_3 for the set of cells and, - Up to two unicast UL DCI formats 0_0/0_1/0_2 (if supported) for each of the cells - For a cell in a set of cells, no more than two DCI scheduling PUSCH for the cells - For a cell in a set of cells, no more than two DCI scheduling PUSCH for the cells - For a cell in a set of cells, no more than two DCI scheduling PUSCH for the cells - For a cell in a set of cells, or DCI format 0_3 for the set of cells with the same searchSpaceId are provided on both the scheduling cell set in the set of cells with the same searchSpaceId are provided on both the scheduling cell and a serving cell in the set of cells with the scheduling cell being not in the set of cells. - A UE supporting this capability can additionally report supportO/SearchSpace-178 to indicate whether the UE supports search space set configurations for DCI format 0_3 for the set of cells with the same searchSpaceId are provided on both the scheduling cell and a serving cell in the set of cells with the scheduling cell being not in the set of cells with the scheduling cell being not in the set of cells with the scheduling cell cells in the set of cells with the scheduling cell and co-scheduled cells cells per set of cells supported by UE constituting cell and co-scheduled cells					
cell is PCell or an SCell if set of cells includes only SCells. The number of unicast UL DCI to process per slot of scheduling cell for a set of cells configured for multi-cell PUSCH scheduling by DCI format 0_3: For FDD scheduling cell: - Up to one DCI format 0_3 for the set of cells and, - Up to one unicast UL DCI formats 0_0/0_1/0_2 (if supported) for each of the cells For a cell in a set of cells, no more than one DCI scheduling PUSCH for the cell - Up to two DCI format 0_3 for the set of cells and, - Up to two DCI format 0_3 for the set of cells and, - Up to two DCI format 0_3 for the set of cells and, - Up to two DCI format 0_3 for the set of cells and, - Up to two unicast UL DCI formats 0_0/0_1/0_2 (if supported) for each of the cells The Cell in a set of cells, no more than two DCI scheduling PUSCH for the cells The UE monitors SS set(s) for DCI format 0_3 for a set of cells for the following cases: - Search space set configuration for DCI format 0_3 for the set of cells with the same search/Space/eld are provided on both the scheduling cell and a serving cell in the set of cells with the scheduling cell being not in the set of cells with the same search/Space-rl 8 to indicate whether the UE supports search space set configurations for DCI format 0_3 for the set of cells with the same search/Space-rl 8 to indicate whether the UE supports search space set configurations for DCI format 0_3 for the set of cells with the same search/Space-rl 8 indicates scheduling cell and a serving cell in the set of cells with the scheduling cell being in the set of cells. The capability signalling comprises the following parameters: - coScheduledCellSCS-r18 indicates scheduling cell and co-scheduled cells have same SCS and carrier type. - maxNumberCestolCellacrossPUCCH-Group-r18 indicates the max number of sets of cells supported by UE corrected by					
The number of unicast UL DCIs to process per slot of scheduling cell for a set of cells configured for multi-cell PUSCH scheduling by DCI format 0_3: For FDD scheduling cell: Up to one DCI format 0_3 for the set of cells and, Up to one DCI format 0_3 for the set of cells and, Up to two unicast UL DCI formats 0_0/0_1/0_2 (if supported) for each of the cells For a cell in a set of cells, no more than one DCI scheduling PUSCH for the cell. For a cell in a set of cells, no more than one DCI scheduling PUSCH for the cells For a cell in a set of cells, no more than two DCI scheduling PUSCH for the cells For a cell in a set of cells, no more than two DCI scheduling PUSCH for the cells For a cell in a set of cells, no more than two DCI scheduling PUSCH for the cells For a cell in a set of cells, no more than two DCI scheduling PUSCH for the cells For a cell in a set of cells of the following cases: Search space set configurations for DCI format 0_3 for the set of cells with the same searchSpaceId are provided on both the scheduling cell and a serving cell in the set of cells with the scheduling cell being not in the set of cells. A UE supporting this capability can additionally report supportOiSearchSpace-r18 to indicate whether the UE supports search space set configurations for DCI format 0_3 for the set of cells with the same searchSpaceId are provided on both the scheduling cell being not in the set of cells. The capability signaling comprises the following parameters: ooScheduledCellSCS-r18 indicates scheduling cell and a serving cell in the set of cells with the scheduling cell being in the set of cells. The capability signaling comprises the following parameters: ooScheduledCellSCS-r18 indicates scheduling cell and co-scheduled cells have same SCS and carrier type. maxNumberSetsOfCellAcrossPUCCH-croup-r18 indicates the max number of sets of cells supported by UE cross PUCCH groups. maxNumberSetsOfCellScheduling-sinces scheduling cell. ooScheduled cell indication schemes. When multiple values					
cells configured for multi-cell PUSCH scheduling by DCI format 0_3: For FDD scheduling cell: Up to one DCI format 0_3 for the set of cells and, Up to one DCI format 0_3 for the set of cells and, Up to one unicast UL DCI formats 0_0/0_1/0_2 (if supported) for each of the cells For a cell in a set of cells, no more than one DCI scheduling PUSCH for the cell For TDD scheduling cell: Up to two DCI format 0_3 for the set of cells and, Up to two unicast UL DCI formats 0_0/0_1/0_2 (if supported) for each of the cells For a cell in a set of cells, no more than two DCI scheduling PUSCH for the cells For a cell in a set of cells, no more than two DCI scheduling PUSCH for the cell. The UE monitors SS set(s) for DCI format 0_3 for a set of cells for the following cases: Search space set configuration for DCI format 0_3 for the set of cells with the same search/spacel are provided on both the scheduling cell and a serving cell in the set of cells with the same search/spacel are provided on both the scheduling cell set in the set of cells with the same search/spacel are provided on both the scheduling cell and a serving cell in the set of cells with the scheduling cell being not in the set of cells with the same search/spacel are provided on both the scheduling cell and a serving cell in the set of cells with the same search/spacel are provided on both the scheduling cell and a serving cell in the set of cells with the scheduling cell being in the set of cells with the same search/spacel are provided on both the scheduling cell and a serving cell in the set of cells with the same search/spacel are provided on both the scheduling cell and a serving cell in the set of cells supported by UE. The capability signalling comprises the following parameters: - coScheduledCell/SCS-r18 indicates scheduling cell and co-scheduled cells ce					
For FDD scheduling cell: Up to one DCI format 0_3 for the set of cells and, Up to one DCI format 0_3 for the set of cells and, Up to one unicast UL DCI formats 0_0/0_1/0_2 (if supported) for each of the cells For a cell in a set of cells, no more than one DCI scheduling PUSCH for the cell For TDD scheduling cell: Up to two DCI format 0_3 for the set of cells and, Up to two DCI format 0_3 for the set of cells and, Up to two unicast UL DCI formats 0_0/0_1/0_2 (if supported) for each of the cells For a cell in a set of cells, no more than two DCI scheduling PUSCH for the cell. The UE monitors SS set(s) for DCI format 0_3 for a set of cells for the following cases: Search space set configuration for DCI format 0_3 for the set of cells is provided only on the scheduling cell, or; Search space set configurations for DCI format 0_3 for the set of cells with the same searchSpaceId are provided on both the scheduling cell and a serving cell in the set of cells with the scheduling cell being not in the set of cells. A UE supporting this capability can additionally report supportOiSearchSpace-r18 to indicate whether the UE supports search space set configurations for DCI format 0_3 for the set of cells with the same searchSpaceId are provided on both the scheduling cell and a serving cell in the set of cells with the scheduling cell being cell and as serving cell in the set of cells with the scheduling cell being in the set of cells. The capability signalling comprises the following parameters: coScheduledCellinGcolledCell-r18 indicates the max number of co-scheduled cell set of cells supported by UE. maxNumberSctsOiColledCeroscPulCCH-group-r18 indicates the max number of sets of cells supported by UE for a same scheduling cell and and to-scheduled cell cells colled cells cel					
- Up to one DCI format 0_3 for the set of cells and, - Up to one unicast UL DCI formats 0_0/0_1/0_2 (if supported) for each of the cells - For a cell in a set of cells, no more than one DCI scheduling PUSCH for the cell - For TDD scheduling cell: - Up to two DCI format 0_3 for the set of cells and, - Up to two DCI format 0_3 for the set of cells and, - Up to two unicast UL DCI formats 0_0/0_1/0_2 (if supported) for each of the cells - For a cell in a set of cells, no more than two DCI scheduling PUSCH for the cell. The UE monitors SS set(s) for DCI format 0_3 for a set of cells for the following cases: - Search space set configuration for DCI format 0_3 for the set of cells is provided only on the scheduling cell, or; - Search space set configurations for DCI format 0_3 for the set of cells with the same search/Spaced are provided on both the scheduling cell being not in the set of cells A UE supporting this capability can additionally report supportO/Search/Space-1/8 to indicate whether the UE supports search space set configurations for DCI format 0_3 for the set of cells with the same search/Space-1/8 to indicate whether the UE supports search space set configurations for DCI format 0_3 for the set of cells with the same search/Space-1/8 to indicate whether the UE supports search space set configurations for DCI format 0_3 for the set of cells with the same search/Space-1/8 to indicate whether the UE supports search space set configurations for DCI format 0_3 for the set of cells with the same search/Space-1/8 to indicate whether the UE supports search space set configurations for DCI format 0_3 for the set of cells with the same search/Space-1/8 indicates the set of cells with the same search/Space-1/8 indicates the set of cells supported by UE manNumber/Sechedule/Cell/Cell-Croup-1/8 indicates the max number of sets of cells supported by UE across PUCCH groups. - maxNumber/Sechedule/Cell/Cell-Croup-1/8 indicates the max number of sets of cells supported by UE considered cell indicated in cell cells					
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When multiple values are reported in coScheduledCellSCS-r18 and if scheduling cell is not included in the set of cells, the UE supports multi-cell PUSCH scheduling by DCI format 0_3 from one carrier type, indicated in coScheduledCellSCS-r18, to another carrier type, indicated in coScheduledCellSCS-r18, for the following scheduling cases: - FR1 licensed TDD to FR1 unlicensed TDD - FR2-1 to FR2-2 - UE can additionally report licensed-fdd-tdd-fr1 indicating the support of FR1 licensed FDD from/to FR1 licensed TDD. NOTE 1: Support of CCS with UL DCI formats 0_1/0_2 is according to crossCarrierScheduling-SameSCS. NOTE 2: 480/960 kHz SCS is not applicable to multi-cell scheduling with DCI format 0_3. multiCellL1-measRTD-greaterThan-CP-r18 Indicates the capability of simultaneous L1-RSRP measurements for more than one					
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by DCI format 0_3 from one carrier type, indicated in coScheduledCellSCS-r18, to another carrier type, indicated in coScheduledCellSCS-r18, for the following scheduling cases: - FR1 licensed TDD to FR1 unlicensed TDD - FR2-1 to FR2-2 - UE can additionally report licensed-fdd-tdd-fr1 indicating the support of FR1 licensed FDD from/to FR1 licensed TDD. NOTE 1: Support of CCS with UL DCI formats 0_1/0_2 is according to crossCarrierScheduling-SameSCS. NOTE 2: 480/960 kHz SCS is not applicable to multi-cell scheduling with DCI format 0_3. multiCellL1-measRTD-greaterThan-CP-r18 Indicates the capability of simultaneous L1-RSRP measurements for more than one					
another carrier type, indicated in coScheduledCellSCS-r18, for the following scheduling cases: - FR1 licensed TDD to FR1 unlicensed TDD - FR2-1 to FR2-2 - UE can additionally report licensed-fdd-tdd-fr1 indicating the support of FR1 licensed FDD from/to FR1 licensed TDD. NOTE 1: Support of CCS with UL DCI formats 0_1/0_2 is according to crossCarrierScheduling-SameSCS. NOTE 2: 480/960 kHz SCS is not applicable to multi-cell scheduling with DCI format 0_3. multiCellL1-measRTD-greaterThan-CP-r18 Indicates the capability of simultaneous L1-RSRP measurements for more than one					
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- FR1 licensed TDD to FR1 unlicensed TDD - FR2-1 to FR2-2 - UE can additionally report <i>licensed-fdd-tdd-fr1</i> indicating the support of FR1 licensed FDD from/to FR1 licensed TDD. NOTE 1: Support of CCS with UL DCI formats 0_1/0_2 is according to crossCarrierScheduling-SameSCS. NOTE 2: 480/960 kHz SCS is not applicable to multi-cell scheduling with DCI format 0_3. **multiCellL1-measRTD-greaterThan-CP-r18** BC No N/A N/A Indicates the capability of simultaneous L1-RSRP measurements for more than one					
- FR2-1 to FR2-2 - UE can additionally report <i>licensed-fdd-tdd-fr1</i> indicating the support of FR1 licensed FDD from/to FR1 licensed TDD. NOTE 1: Support of CCS with UL DCI formats 0_1/0_2 is according to crossCarrierScheduling-SameSCS. NOTE 2: 480/960 kHz SCS is not applicable to multi-cell scheduling with DCI format 0_3. <i>multiCellL1-measRTD-greaterThan-CP-r18</i> Indicates the capability of simultaneous L1-RSRP measurements for more than one					
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NOTE 2: 480/960 kHz SCS is not applicable to multi-cell scheduling with DCI format 0_3. **multiCellL1-measRTD-greaterThan-CP-r18** BC No N/A N/A Indicates the capability of simultaneous L1-RSRP measurements for more than one					
format 0_3. multiCellL1-measRTD-greaterThan-CP-r18 Indicates the capability of simultaneous L1-RSRP measurements for more than one					
multiCellL1-measRTD-greaterThan-CP-r18BCNoN/AIndicates the capability of simultaneous L1-RSRP measurements for more than one					
Indicates the capability of simultaneous L1-RSRP measurements for more than one		ВС	No	N/A	N/A
	cell when the max RTD among the cells on the same frequency layer or in the same				
active BWP is larger than CP length of the cell on the frequency layer or in the					
same active BWP.					
A UE supporting this feature shall also indicate support of either intraFreqL1-					
MeasConfig-r18, interFreqSSB-L1-MeasWithoutGaps-r18 or Itm-					
InterFreeMeasCan r19	InterFreqMeasGap-r18.				

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.			N 1/0	N1/A
 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
 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
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: - Up to 4 TBs with NACK-only feedback transmitted in PUCCH by select one PUCCH resource - Supports separate PUCCH resource configurations from unicast; - Supports single TB with NACK-only feedback transmitted in PUCCH; - Supports up to 4TBs with NACK-only feedback transmitted in PUSCH by transforming into ACK/NACK bits. A UE supporting this feature shall also indicate support of nack-OnlyFeedbackForMulticast-r17.	BC	NO	IV/A	IN/A

 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; 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. 	ВС	No	N/A	N/A
UE supporting this feature shall also indicate support of nack-				
OnlyFeedbackForSPS-Multicast-r17. non-AlignedFrameBoundaries-r17	BC	No	N/A	FR1
Indicates whether UE supports carrier aggregation with non-aligned frame boundaries for PCell/PSCell and SCell configured with cross-carrier scheduling to 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 = $x^*(2*L - x - 1)/2 + y - x - 1$.	50		1471	only
UE indicating support of this feature shall indicate support of crossCarrierSchedulingSCell-SpCellTypeA-r17 or crossCarrierSchedulingSCell-SpCellTypeB-r17.				
 nonCodebook-CSI-RS-SRS-PerBC-r18 Indicates the list of supported CSI-RS resources supporting association between CSI-RS and SRS for non-codebook case by referring to codebookVariantsList. The following parameters are included in codebookVariantsList: maxNumberTxPortsPerResource indicates the maximum number of Tx ports in a resource of a feature set per CC, simultaneously. maxNumberResourcesPerBand indicates the maximum number of resources across all CCs in a feature set per CC, simultaneously. totalNumberTxPortsPerBand indicates the total number of Tx ports across all CCs in a feature set per CC, simultaneously. A UE supporting this feature shall indicate support of nonCodebook-8TxPUSCH-r18 	BC	No	N/A	N/A
and nonCodebook-CSI-RS-SRS-r18.				
parallelTxMsgA-SRS-PUCCH-PUSCH-r16 Indicates whether the UE supports parallel transmission of MsgA in PCell and SRS/PUCCH/PUSCH across CCs in an inter-band CA band for NR SA or NR SCG in (NG)EN-DC. A UE supporting this feature shall also indicate support of parallelTxPRACH-SRS-PUCCH-PUSCH.	ВС	No	N/A	N/A
parallelTxMsgA-SRS-PUCCH-PUSCH-intraBand-r17 Indicates whether the UE supports parallel transmission of MsgA in SpCell and SRS/PUCCH/PUSCH across CCs in an intra-band non-contiguous CA band combination for NR SA or NR SCG in (NG)EN-DC or across CCs in an intra-band non-contiguous CA of the Cell Group in which intra-band non-contiguous CA is configured for NR-DC (i.e. the UE capability is applicable to NR-DC band combination where only one of the Cell Groups is configured with intra-band non-contiguous CA and the Cell Group contains a single intra-band non-contiguous CA component). The UE indicating support of this field shall also indicate support of parallelTxMsgA-SRS-PUCCH-PUSCH-r16.	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 for NR SA or NR SCG in (NG)EN-DC.	ВС	No	N/A	N/A

parallelTxSRS-PUCCH-PUSCH-intraBand-r17	ВС	No	N/A	N/A
Indicates whether the UE supports parallel transmission of SRS and PUCCH/				
PUSCH across CCs in an intra-band non-contiguous CA band combination for NR				
SA or NR SCG in (NG)EN-DC or across CCs in an intra-band non-contiguous CA of				
the Cell Group in which intra-band non-contiguous CA is configured for NR-DC (i.e.				
the UE capability is applicable to NR-DC band combination where only one of the				
Cell Groups is configured with intra-band non-contiguous CA and the Cell Group				
contains a single intra-band non-contiguous CA component).				
parallelTxPRACH-SRS-PUCCH-PUSCH	BC	No	N/A	N/A
Indicates whether the UE supports parallel transmission of PRACH and				
SRS/PUCCH/PUSCH across CCs in an inter-band CA band combination for NR SA				
or NR SCG in (NG)EN-DC.				
parallelTxPRACH-SRS-PUCCH-PUSCH-intraBand-r17	BC	No	N/A	N/A
Indicates whether the UE supports parallel transmission of PRACH and				
SRS/PUCCH/PUSCH across CCs in an intra-band non-contiguous CA band				
combination for NR SA or NR SCG in (NG)EN-DC or across CCs in an intra-band				
non-contiguous CA of the Cell Group in which intra-band non-contiguous CA is				
configured for NR-DC (i.e. the UE capability is applicable to NR-DC band				
combination where only one of the Cell Groups is configured with intra-band non-				
contiguous CA and the Cell Group contains a single intra-band non-contiguous CA				
component).				
parallelTxPUCCH-PUSCH-r17	ВС	No	N/A	N/A
Indicates whether the UE supports simultaneous PUCCH and PUSCH			,	
transmissions of different priority across CCs in an inter-band CA band combination				
for NR SA or NR SCG in (NG)EN-DC.				
parallelTxPUCCH-PUSCH-SamePriority-r17	ВС	No	N/A	N/A
Indicates whether the UE supports simultaneous PUCCH and PUSCH			, .	
transmissions of same priority across CCs in an inter-band CA band combination for				
NR SA or NR SCG in (NG)EN-DC as specified in clause 9 of TS 38.213 [11].				
pdcch-BlindDetectionCA-Mixed-r16, pdcch-BlindDetectionCA-Mixed-v16a0	ВС	No	N/A	N/A
This field indicates mixed operation of two variants of the number of blind detections	50	''	14//	1 17/1
in case of CA. UE indicating support of this feature shall also indicate support of				
pdcch-MonitoringMixed-r16. UE indicating support of pdcch-BlindDetectionCA-				
Mixed-v16a0 shall also indicate support of pdcch-MonitoringMixed-r16.				
Only one between pdcch-BlindDetectionCA-Mixed-r16 and pdcch-				
BlindDetectionCA-Mixed-NonAlignedSpan-r16 can be reported by UE.				
pdcch-BlindDetectionCA-Mixed-r18	ВС	No	N/A	N/A
Indicates the supported combinations of the capability on the number of CCs for	ьс	INO	11/7	11/7
CCE/BD scaling with DL CA with mix of Rel-16 and Rel-15 PDCCH monitoring				
capabilities on different carriers.				
The capability signalling comprises the following parameters:				
- blindDetectionCA-Mixed-r18 indicates the supported combination(s) of				
(pdcch-BlindDetectionCA1-r16 (for Rel-15), pdcch-BlindDetectionCA2-r16 (for Rel-16)				
- supportedSpanArrangement-r18 indicates the supported span arrangement				
for CA				
When a UE reports both pdcch-BlindDetectionCA-MixedExt-r16 and this capability,				
the value reported in this capability is used if the configured span pattern of any				
serving cell satisfies pdcch-MonitoringSpan2-2-r18.				
LIE indicating cumpart of this feature shall also indicate cumpart of (7.2) or (4.2) and				
UE indicating support of this feature shall also indicate support of (7,3) or (4,3) span				
based PDCCH monitoring for pdcch-MonitoringMixed-r16 and (2,2) span based				
PDCCH monitoring for <i>pdcch-MonitoringMixed-r18</i> with additional restriction(s).				
The minimum of the summetion of conchility on the number of OCs with Del 45				
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.				
Only one between pdcch-BlindDetectionCA-Mixed-r18 and pdcch-				
I LINIV ONE DEIMEEN DACCH-BUDDI IEIECTION ALVIVOA-1718 2NA DACCH-				
BlindDetectionCA-Mixed-NonAlignedSpan-r18 can be reported by UE.				

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
Indicates the supported combination of the capability on the number of CCs for CCE/BD scaling with DL CA with mix of Rel-16 and Rel-15 PDCCH monitoring capabilities on different carriers with restriction for non-aligned span case. In case of non-aligned span when the configured number of cells 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. When a UE reports both pdcch-BlindDetectionCA-Mixed-NonAlignedSpan-r16 and this capability, the value reported in this capability is used if the configured span pattern of any serving cell satisfies pdcch-MonitoringSpan2-2-r18. UE indicating support of this feature shall also indicate support of (7,3) or (4,3) span based PDCCH monitoring for pdcch-MonitoringMixed-r16 and (2,2) span based PDCCH monitoring for pdcch-MonitoringMixed-r18 with additional restriction(s). 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. Only one between pdcch-BlindDetectionCA-Mixed-r18 and pdcch-BlindDetectionCA-Mixed-NonAlignedSpan-r18 can be reported by UE.	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

ndeeh BlindDetectionMCC SCC List r19	P.C	No	NI/A	NI/A
pdcch-BlindDetectionMCG-SCG-List-r18 Indicates the supported combination of capability on the number of CCs for CCE/BD	BC	No	N/A	N/A
scaling for MCG and for SCG when configured for NR-DC operation with mix of Rel-				
16 and Rel-15 PDCCH monitoring capabilities on different carriers.				
When a LIE was arts bath indeals BlindPatastianCC LIE MissadEst vdC and this				
When a UE reports both pdcch-BlindDetectionCG-UE-MixedExt-r16 and this				
capability, the value reported in this capability is used if the configured span pattern				
of any serving cell satisfies pdcch-MonitoringSpan2-2-r18.				
UE indicating support of this feature shall also indicate support of (7,3) or (4,3) span				
based PDCCH monitoring for <i>pdcch-MonitoringMixed-r16</i> and (2,2) span based				
PDCCH monitoring for <i>pdcch-MonitoringMixed-r18</i> with additional restriction(s).				
One combination of (pdcch-BlindDetectionMCG-UE1 (for Rel-15), pdcch-				
BlindDetectionSCG-UE1 (for Rel-15), pdcch-BlindDetectionMCG-UE2 (for Rel-16),				
pdcch-BlindDetectionSCG-UE2 (for Rel-16)) corresponds to one combination of				
(pdcch-BlindDetectionCA1 (for Rel-15), pdcch-BlindDetectionCA2 (for Rel-16)).				
If the UE reports pdcch-BlindDetectionCA1-r16 (for Rel-15),				
- Candidate values for pdcch-BlindDetectionMCG-UE1 (for Rel-15) is 0)			
to pdcch-BlindDetectionCA1-r16 (for Rel-15),				
- Candidate values for <i>pdcch-BlindDetectionSCG-UE1</i> (for Rel-15) is 0				
to pdcch-BlindDetectionCA1-r16 (for Rel-15),				
- pdcch-BlindDetectionMCG-UE1 (for Rel-15) + pdcch-				
BlindDetectionSCG-UE1 (for Rel-15) >= pdcch-BlindDetectionCA1-				
, , ,				
r16 (for Rel-15).				
Otherwise, if N_(NR-DC,max,r15)^(DL,cells) is a maximum total number of downlink	•			
cells for which the UE is provided monitoringCapabilityConfig-r16 =				
r15monitoringcapability:				
- Candidate values for <i>pdcch-BlindDetectionMCG-UE-r15</i> is [0, 1, 2]				
- Candidate values for pdcch-BlindDetectionSCG-UE-r15 is [0, 1, 2]				
- pdcch-BlindDetectionMCG-UE-r15 + pdcch-BlindDetectionSCG-UE-				
$r15 \ge N_{N-DC,max,r15}^{OL,cells}$				
If the UE reports pdcch-BlindDetectionCA2-r16 (for Rel-16),				
- Candidate values for <i>pdcch-BlindDetectionMCG-UE2</i> (for Rel-16) is 0)			
to pdcch-BlindDetectionCA2-r16 (for Rel-16),				
 Candidate values for pdcch-BlindDetectionSCG-UE2 (for Rel-16) is 0 				
to pdcch-BlindDetectionCA2-r16 (for Rel-16),				
 pdcch-BlindDetectionMCG-UE2 (for Rel-16) + pdcch- 				
BlindDetectionSCG-UE2 (for Rel-16) >= pdcch-BlindDetectionCA2-				
<i>r16</i> (for Rel-16).				
Otherwise, if N_(NR-DC,max,r16)^(DL,cells) is a maximum total number of downlink	: [
cells for which the UE is provided monitoringCapabilityConfig-r16 =				
r16monitoringcapability:				
- Candidate values for <i>pdcch-BlindDetectionMCG-UE</i> 2 (for Rel-16) is				
[0, 1]				
- Candidate values for pdcch-BlindDetectionSCG-UE2 (for Rel-16) is				
[0, 1]				
- pdcch-BlindDetectionMCG-UE2 (for Rel-16) + pdcch-				
BlindDetectionSCG-UE2 (for Rel-16) >= N_(NR-				
DC,max,r16)^(DL,cells)				
NOTE: If a UE supports pdcch-BlindDetectionCA-MixedExt-r18, then the				
capability defined by pdcch-BlindDetectionCA-MixedExt-r18 is applied to				
this feature.				
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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	ВС	No	N/A	N/A
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].				
pdcch-BlindDetectionMixedList1-r17 Indicates the supported combinations of the number of carriers for CCE/BD scaling for MCG and for SCG when configured for NR-DC operation and/or with DL CA with mix of Rel-15 and Rel-17 PDCCH monitoring capabilities on different carriers.	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) + 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 pdcch-BlindDetectionMCG-UE1 (for Rel-15) are {0, 1, 2, 3} - Candidate values for pdcch-BlindDetectionSCG-UE1 (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 pdcch-BlindDetectionMCG-UE2 (for Rel-17) are {0, 1, 2, 3}				
 Candidate values for pdcch-BlindDetectionSCG-UE2 (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.	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>				
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) - 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 pdcch-BlindDetectionMCG-UE2 (for Rel-17) are {0, 1, 2} - Candidate values for pdcch-BlindDetectionSCG-UE2 (for Rel-17) are {0, 1, 2}				

ndoch BlindDotoctionMixed ict2 #17	DC.	No	NI/A	NI/A
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>				
A80kHz-r17 or di-FR2-2-SCS-960kHz-r17 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-BlindDetectionSCG-UE1 (for Rel-15) >= pdcch-BlindDetectionSCG-UE1 (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-BlindDetectionSCG-UE2 (for Rel-16), - Candidate values for pdcch-BlindDetectionMCG-UE2 (for Rel-16) are 0 to pdcch-BlindDetectionCA2-r17 (for Rel-16) + pdcch-BlindDetectionSCG-UE2 (for Rel-16), Otherwise, - Candidate values for pdcch-BlindDetectionMCG-UE2 (for Rel-16) are {0, 1} - Candidate values for pdcch-BlindDetectionMCG-UE2 (for Rel-16) are {0, 1} - Candidate values for pdcch-BlindDetectionMCG-UE2 (for Rel-16) are {0, 1} - Candidate values for pdcch-BlindDetectionSCG-UE2 (for Rel-17), - Candidate values for pdcch-BlindDetectionMCG-UE3 (for Rel-17), - Candidate values for pdcch-BlindDetectionSCG-UE2 (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 <i>pdcch-BlindDetectionMCG-UE3</i> (for Rel-17) are {0, 1} - Candidate values for <i>pdcch-BlindDetectionSCG-UE3</i> (for Rel-17) are				
{0, 1}				

pdcch-BlindDetectionNRDC-r18	ВС	No	N/A	N/A
Indicates the supported combinations of the number of CCs for monitoring a maximum number of BDs and non-overlapped CCEs per span for MCG and for				
SCG when configured for NR-DC operation with Rel-16 PDCCH monitoring on all				
the serving cells.				
When a UE reports both pdcch-BlindDetectionMCG-UE-r16,				
pdcch-BlindDetectionSCG-UE-r16 and this capability, the value reported in this				
capability is used if the configured span pattern of any serving cell satisfies <i>pdcch-MonitoringSpan2-2-r18</i> .				
UE indicating support of this feature shall also indicate support of (7,3) or (4,3) span based PDCCH monitoring for <i>pdcch-Monitoring-r16</i> and (2,2) span based PDCCH				
monitoring for <i>pdcch-MonitoringSpan2-2-r18</i> with additional restriction(s).				
If the UE reports pdcch-BlindDetectionCA2-r16 (for Rel-16),				
- Candidate values for <i>pdcch-BlindDetectionMCG-UE-Mixed-r18</i> (for Rel-				
16 MCG) is 1 to pdcch-BlindDetectionCA2-r16-1.				
 Candidate values for pdcch-BlindDetectionSCG-UE-Mixed-r18 (for Rel- 16 SCG) is 1 to pdcch-BlindDetectionCA2-r16-1. 				
- pdcch-BlindDetectionMCG-UE-Mixed-r18 + pdcch-BlindDetectionSCG-				
UE-Mixed-r18 >= pdcch-BlindDetectionCA2-r16.				
Otherwise, if N_(NR-DC,max,r16)^(DL,cells) is a maximum total number of downlink cells for which the UE is provided monitoringCapabilityConfig-r16 =				
r16monitoringcapability and the UE is configured on both the MCG and the SCG for				
NR-DC:				
 the value of pdcch-BlindDetectionMCG-UE-Mixed-r18 (for Rel-16 MCG) or of pdcch-BlindDetectionSCG-UE-Mixed-r18 (for Rel-16 SCG) is 1, 				
- pdcch-BlindDetectionMCG-UE-Mixed-r18 + pdcch-BlindDetectionSCG-				
UE-Mixed-r18 >= N_(NR-DC,max,r16)^(DL,cells).				
NOTE: If a UE supports pdcch-MonitoringCA-r18 or pdcch-MonitoringCA-				
NonAlignedSpan-r18, then the capability defined by pdcch-MonitoringCA				
r18 or pdcch-MonitoringCA-NonAlignedSpan-r18 is applied to this feature.				
pdcch-MonitoringCA-r16	ВС	No	N/A	N/A
Indicates the number of CCs for monitoring a maximum number of blind detections				
and non-overlapped CCEs per span when configured with DL CA with Rel-16 PDCCH monitoring capability on all the serving cells. This field also indicates				
supported span arrangement for CA. 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.		.	N1/A	N1/0
pdcch-MonitoringCA-r17 Indicates the number of CCs for monitoring a maximum number of blind detections	BC	No	N/A	N/A
and non-overlapped CCEs per span when configured with DL CA with Rel-17				
PDCCH monitoring capability on all the serving cells.				
UE indicating support of this feature shall also indicate support of <i>dl-FR2-2-SCS-</i>				
480kHz-r17 or dl-FR2-2-SCS-960kHz-r17.				

 pdcch-MonitoringCA-r18 Indicates whether the UE supports capability on the number of CCs for monitoring a maximum number of BDs and non-overlapped CCEs per span when configured with DL CA with Rel-16 PDCCH monitoring capability on all the serving cells. This capability signalling comprises the following parameters: maxNumberOfMonitoringCC-r18 indicates the number of CCs for monitoring a maximum number of BDs and non-overlapped CCEs per span when configured with DL CA with Rel-16 PDCCH monitoring capability on all the serving cells; 	BC	No	N/A	N/A
 supportedSpanArrangement-r18 indicates the supported span arrangement for CA. Value alignedOnly indicates the supported span arrangement for CA is aligned spans only, value alignedAndNonAligned indicates the supported span arrangement for CA includes aligned spans and non-aligned spans. 				
When a UE reports both <i>pdcch-MonitoringCA-r16</i> and this capability, the value reported in this capability is used if the configured span pattern of any serving cell satisfies <i>pdcch-MonitoringSpan2-2-r18</i> . Only one between <i>pdcch-MonitoringCA-r18</i> and <i>pdcch-MonitoringCA-NonAlignedSpan-r18</i> can be reported by UE. The UE supporting this feature shall also indicate support of <i>pdcch-Monitoring-r16</i> for (7,3) or (4,3) span based PDCCH monitoring and <i>pdcch-MonitoringSpan2-2-r18</i> for (2,2) span based PDCCH monitoring with additional restriction(s).				
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.	BC	No	N/A	N/A
pdcch-MonitoringCA-NonAlignedSpan-r18 Indicates whether the UE supports capability on the number of CCs for monitoring a maximum number of BDs and non-overlapped CCEs per span when configured with DL CA with pdcch-MonitoringAnyOccasionsWithSpanGap on all the serving cells with restriction for non-aligned span case. It also indicates whether the UE supports aligned span and non-aligned span. In case of non-aligned span when the configured number of cells with Rel-16 PDCCH monitoring capability is larger than the UE reported value, PDCCH monitoring occasion(s) should be configured only on same symbol(s) every slot The UE supporting this feature shall also indicate support of pdcch-Monitoring-r16 for (7,3) or (4,3) span based PDCCH monitoring.	ВС	No	N/A	N/A
The UE supporting this feature shall also indicate support of <i>pdcch-MonitoringSpan2-2-r18</i> for (2, 2) span based PDCCH monitoring with additional restriction(s).				
When a UE reports both <i>pdcch-MonitoringCA-NonAlignedSpan-r16</i> and capability, the value reported in this capability is used if the configured span pattern of any serving cell satisfies <i>pdcch-MonitoringSpan2-2-r18</i> .				
Only one between <i>pdcch-MonitoringCA-r18</i> and <i>pdcch-MonitoringCA-NonAlignedSpan-r18</i> can be reported by UE.				

powerAdaptation-CSI-FeedbackAperiodicPerBC-r18 Indicates whether the UE supports power domain adaptation with CSI feedback based on CSI report sub-configuration(s) for aperiodic CSI reporting and single-panel type1 codebook. The UE supports CSI feedback based on CSI report sub-configuration(s), each containing one power offset for aperiodic CSI reporting. This capability signalling comprises the following parameters: - maxNumberCSI-ResourceAcrossCC-r18 indicates the maximum number of simultaneous NZP-CSI-RS resources in active BWPs across all CCs within a
based on CSI report sub-configuration(s) for aperiodic CSI reporting and single-panel type1 codebook. The UE supports CSI feedback based on CSI report sub-configuration(s), each containing one power offset for aperiodic CSI reporting. This capability signalling comprises the following parameters: - maxNumberCSI-ResourceAcrossCC-r18 indicates the maximum number of simultaneous NZP-CSI-RS resources in active BWPs across all CCs within a
panel type1 codebook. The UE supports CSI feedback based on CSI report sub- configuration(s), each containing one power offset for aperiodic CSI reporting. This capability signalling comprises the following parameters: - maxNumberCSI-ResourceAcrossCC-r18 indicates the maximum number of simultaneous NZP-CSI-RS resources in active BWPs across all CCs within a
configuration(s), each containing one power offset for aperiodic CSI reporting. This capability signalling comprises the following parameters: - maxNumberCSI-ResourceAcrossCC-r18 indicates the maximum number of simultaneous NZP-CSI-RS resources in active BWPs across all CCs within a
capability signalling comprises the following parameters: - maxNumberCSI-ResourceAcrossCC-r18 indicates the maximum number of simultaneous NZP-CSI-RS resources in active BWPs across all CCs within a
- maxNumberCSI-ResourceAcrossCC-r18 indicates the maximum number of simultaneous NZP-CSI-RS resources in active BWPs across all CCs within a
simultaneous NZP-CSI-RS resources in active BWPs across all CCs within a
band combination for SD-type1 and/or SD-type2;
- maxNumberPortsAcrossCC-r18 indicates index N of the maximum number
of total CSI-RS ports in simultaneous NZP-CSI-RS resources in active BWPs
across all CCs within a band combination for SD-type1 and/or SD-type2. The
maximum number total CSI-RS ports in simultaneous NZP-CSI-RS
resources is N^*8 , where $N = \{132\}$.
1000a1000 10 7V 0, While 7V = {102}.
NOTE 1: For maxNumberCSI-ResourceAcrossCC-r18 and
maxNumberOci=NesourceAcrossCC-r18, NZP-CSI-RS resource and CSI-RS
ports are counted for reporting settings with and without sub-
configurations.
NOTE OF 16 and 15 and 16 and 1
NOTE 2: If a UE reports more than one capability from spatialAdaptation-CSI-
FeedbackPerBC-r18, spatialAdaptation-CSI-FeedbackPUSCH-PerBC-
r18, spatialAdaptation-CSI-FeedbackAperiodicPerBC-r18,
spatialAdaptation-CSI-FeedbackPUCCH-PerBC-r18, powerAdaptation-
CSI-FeedbackPerBC-r18, powerAdaptation-CSI-FeedbackPUSCH-
PerBC-r18, powerAdaptation-CSI-FeedbackAperiodicPerBC-r18,
powerAdaptation-CSI-FeedbackPUCCH-PerBC-r18 and if the UE is
configured with CSI report settings with sub-configurations corresponding
to a subset of the above reported features, then the supported maximum
of NZP-CSI-RS resources/ports across all periodic, semi-persistent,
aperiodic CSI report settings with sub-configurations corresponding to all
of spatial and power domain adaptations and without sub-configurations
is determined by the minimum of the reported values from that subset.
NOTE 3: If a UE reports both spatialAdaptation-CSI-FeedbackAperiodicPerBC-r18
and powerAdaptation-CSI-FeedbackAperiodicPerBC-r18, and if the UE is
configured with CSI report settings with sub-configurations corresponding
to both spatialAdaptation-CSI-FeedbackAperiodicPerBC-r18 and
powerAdaptation-CSI-FeedbackAperiodicPerBC-r18, then the supported
total number of periodic CSI reporting settings without sub-configurations
plus the total number of sub-configurations across periodic CSI report
settings with sub-configurations per BWP is determined by the minimum
of the reported values from both spatialAdaptation-CSI-
FeedbackAperiodicPerBC-r18 and powerAdaptation-CSI-
FeedbackAperiodicPerBC-r18.
NOTE 4: If CSI report configuration in active BWP of any CC includes report
setting(s) with sub-configurations, values reported in this capability for
the number of simultaneous NZP-CSI-RS resources and ports across all
CCs are used instead of values reported in <i>csi-RS-IM-</i>
ReceptionForFeedbackPerBandComb.
A UE supporting this feature shall also indicate support of csi-ReportFramework and
powerAdaptation-CSI-FeedbackAperiodic-r18.

powerAd	aptation-CSI-FeedbackPerBC-r18	ВС	No	N/A	N/A
	whether the UE supports power domain adaptation with CSI feedback				
	CSI report sub-configuration(s) for periodic CSI reporting and single-panel				
	ebook. The UE supports CSI feedback based on CSI report sub-				
	ion(s), each containing one power offset for periodic CSI reporting. This				
	signalling comprises the following parameters:				
	axNumberCSI-ResourceAcrossCC-r18 indicates the maximum number of				
	nultaneous NZP-CSI-RS resources in active BWPs across all CCs within a				
	nd combination for SD-type1 and/or SD-type2;				
	axNumberPortsAcrossCC-r18 indicates index N of the maximum number				
	total CSI-RS ports in simultaneous NZP-CSI-RS resources in active BWPs				
	ross all CCs within a band combination for SD-type1 and/or SD-type2. The				
	ximum number total CSI-RS ports in simultaneous NZP-CSI-RS				
res	sources is N *8, where $N = \{132\}$.				
NOTE 1:	For maxNumberCSI-ResourceAcrossCC-r18 and				
	maxNumberPortsAcrossCC-r18, NZP-CSI-RS resource and CSI-RS				
	ports are counted for reporting settings with and without sub-				
	configurations.				
NOTE 2:	If a UE reports more than one capability from spatialAdaptation-CSI-				
	FeedbackPerBC-r18, spatialAdaptation-CSI-FeedbackPUSCH-PerBC-				
	r18, spatialAdaptation-CSI-FeedbackAperiodicPerBC-r18,				
	spatialAdaptation-CSI-FeedbackPUCCH-PerBC-r18, powerAdaptation-				
	CSI-FeedbackPerBC-r18, powerAdaptation-CSI-FeedbackPUSCH-				
	PerBC-r18, powerAdaptation-CSI-FeedbackAperiodicPerBC-r18,				
	powerAdaptation-CSI-FeedbackPUCCH-PerBC-r18 and if the UE is				
	configured with CSI report settings with sub-configurations corresponding				
	to a subset of the above reported features, then the supported maximum				
	of NZP-CSI-RS resources/ports across all periodic, semi-persistent,				
	aperiodic CSI report settings with sub-configurations corresponding to all				
	of spatial and power domain adaptations and without sub-configurations				
	is determined by the minimum of the reported values from that subset.				
NOTE 3:	If a UE reports both spatialAdaptation-CSI-FeedbackPerBC-r18 and				
11012 0.	powerAdaptation-CSI-FeedbackPerBC-r18, and if the UE is configured				
	with CSI report settings with sub-configurations corresponding to both				
	spatialAdaptation-CSI-FeedbackPerBC-r18 and powerAdaptation-CSI-				
	FeedbackPerBC-r18, then the supported total number of periodic CSI				
	reporting settings without sub-configurations plus the total number of				
	sub-configurations across periodic CSI report settings with sub-				
	configurations per BWP is determined by the minimum of the reported				
	values from both spatialAdaptation-CSI-FeedbackPerBC-r18 and				
	powerAdaptation-CSI-FeedbackPerBC-r18.				
NOTE 4:	If CSI report configuration in active BWP of any CC includes report				
INOIL 4.	setting(s) with sub-configurations, values reported in this capability for				
	the number of simultaneous NZP-CSI-RS resources and ports across all				
	CCs are used instead of values reported in <i>csi-RS-IM</i> -				
	ReceptionForFeedbackPerBandComb.				
	·				
	porting this feature shall also indicate support of csi-ReportFramework and				
powerAda	ptation-CSI-Feedback-r18.				

powerAdaptation-CSI-FeedbackPUCCH-PerBC-r18	ВС	No	N/A	N/A
Indicates whether the UE supports power domain adaptation with CSI feedback	-			
based on CSI report sub-configuration(s) for semi-persistent CSI reporting on				
PUCCH and single-panel type1 codebook. The UE also supports CSI feedback				
based on CSI report sub-configuration(s), each containing one power offset for				
semi-persistent CSI reporting on PUCCH (or piggybacked on PUSCH). This				
capability signalling comprises the following parameters:				
- maxNumberCSI-ResourceAcrossCC-r18 indicates the maximum number of				
simultaneous NZP-CSI-RS resources in active BWPs across all CCs within a				
band combination;				
- maxNumberPortsAcrossCC-r18 indicates index N of the maximum number				
of total CSI-RS ports in simultaneous NZP-CSI-RS resources in active BWPs				
across all CCs within a band combination. The maximum number total CSI-				
RS ports in simultaneous NZP-CSI-RS resources is N *8, where $N = \{132\}$.				
NOTE 1: For maxNumberCSI-ResourceAcrossCC-r18 and				
maxNumberPortsAcrossCC-r18, NZP-CSI-RS resource and CSI-RS				
ports are counted for reporting settings with and without sub-				
configurations.				
NOTE 2: If a UE reports more than one capability from spatialAdaptation-CSI-				
FeedbackPerBC-r18, spatialAdaptation-CSI-FeedbackPUSCH-PerBC-				
r18, spatialAdaptation-CSI-FeedbackAperiodicPerBC-r18,				
spatialAdaptation-CSI-FeedbackPUCCH-PerBC-r18, powerAdaptation-				
CSI-FeedbackPerBC-r18, powerAdaptation-CSI-FeedbackPUSCH-				
PerBC-r18, powerAdaptation-CSI-FeedbackAperiodicPerBC-r18,				
powerAdaptation-CSI-FeedbackPUCCH-PerBC-r18 and if the UE is				
configured with CSI report settings with sub-configurations corresponding				
to a subset of the above reported features, then the supported maximum				
of NZP-CSI-RS resources/ports across all periodic, semi-persistent,				
aperiodic CSI report settings with sub-configurations corresponding to all				
of spatial and power domain adaptations and without sub-configurations is determined by the minimum of the reported values from that subset.				
NOTE 3: If a UE reports more than one capability from <i>spatialAdaptation-CSI</i> -				
FeedbackPUSCH-PerBC-r18, spatialAdaptation-CSI-FeedbackPUCCH-				
PerBC-r18, powerAdaptation-CSI-FeedbackPUSCH-PerBC-r18 and				
powerAdaptation-CSI-FeedbackPUCCH-PerBC-r18 and if the UE is				
configured with CSI report settings with sub-configurations corresponding				
to a subset of the reported features, then the supported total number of				
semi-persistent CSI reporting settings without sub-configurations plus the				
total number of sub-configurations across semi-persistent CSI report				
settings with sub-configurations per BWP is determined by the minimum				
of the reported values from that subset.				
NOTE 4: If CSI report configuration in active BWP of any CC includes report				
setting(s) with sub-configurations, values reported in this capability for				
the number of simultaneous NZP-CSI-RS resources and ports across all				
CCs are used instead of values reported in csi-RS-IM-				
ReceptionForFeedbackPerBandComb.				
A LIE supporting this feature shall also indicate support of soi PoportEramowork on				
A UE supporting this feature shall also indicate support of csi-ReportFramework, sp-CSI-ReportPUCCH and powerAdaptation-CSI-FeedbackPUCCH-r18.				
OUT REPORT OCCUPANTE POWER AND ADDITIONAL OCCUPANTE.		<u> </u>		

A	D0		N1/A	N1/A
powerAdaptation-CSI-FeedbackPUSCH-PerBC-r18 Indicates whether the UE supports power domain adaptation with CSI feedback based on CSI report sub-configuration(s) for semi-persistent CSI reporting on PUSCH and single-panel type1 codebook. The UE also supports CSI feedback based on CSI report sub-configuration(s), each containing one power offset for semi-persistent CSI reporting. This capability signalling comprises the following	BC	No	N/A	N/A
parameters: - maxNumberCSI-ResourceAcrossCC-r18 indicates the maximum number of simultaneous NZP-CSI-RS resources in active BWPs across all CCs within a				
 band combination; maxNumberPortsAcrossCC-r18 indicates index N of the maximum number of total CSI-RS ports in simultaneous NZP-CSI-RS resources in active BWPs across all CCs within a band combination. The maximum number total CSI-RS ports in simultaneous NZP-CSI-RS resources is N*8, where N = {132}. 				
NOTE 1: For maxNumberCSI-ResourceAcrossCC-r18 and maxNumberPortsAcrossCC-r18, NZP-CSI-RS resource and CSI-RS ports are counted for reporting settings with and without subconfigurations.				
NOTE 2: If a UE reports more than one capability from spatialAdaptation-CSI- FeedbackPerBC-r18, spatialAdaptation-CSI-FeedbackPUSCH-PerBC- r18, spatialAdaptation-CSI-FeedbackPucch-PerBC-r18, spatialAdaptation-CSI-FeedbackPucch-PerBC-r18, powerAdaptation-				
CSI-FeedbackPerBC-r18, powerAdaptation-CSI-FeedbackPUSCH- PerBC-r18, powerAdaptation-CSI-FeedbackAperiodicPerBC-r18, powerAdaptation-CSI-FeedbackPUCCH-PerBC-r18 and if the UE is				
configured with CSI report settings with sub-configurations corresponding to a subset of the above reported features, then the supported maximum of NZP-CSI-RS resources/ports across all periodic, semi-persistent, aperiodic CSI report settings with sub-configurations corresponding to all of spatial and power domain adaptations and without sub-configurations is determined by the minimum of the reported values from that subset.				
NOTE 3: If a UE reports more than one capability from spatialAdaptation-CSI-FeedbackPUSCH-PerBC-r18, spatialAdaptation-CSI-FeedbackPUCCH-PerBC-r18, powerAdaptation-CSI-FeedbackPUSCH-PerBC-r18 and powerAdaptation-CSI-FeedbackPUCCH-PerBC-r18 and if the UE is configured with CSI report settings with sub-configurations corresponding to a subset of the reported features, then the supported total number of				
semi-persistent CSI reporting settings without sub-configurations plus the total number of sub-configurations across semi-persistent CSI report settings with sub-configurations per BWP is determined by the minimum of the reported values from that subset. NOTE 4: If CSI report configuration in active BWP of any CC includes report setting(s) with sub-configurations, values reported in this capability for the number of simultaneous NZP-CSI-RS resources and ports across all				
CCs are used instead of values reported in csi-RS-IM-ReceptionForFeedbackPerBandComb. A UE supporting this feature shall also indicate support of csi-ReportFramework, sp-				
CSI-ReportPUSCH and powerAdaptation-CSI-FeedbackPUSCH-r18. 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.	BC	No	N/A	N/A
A UE supporting this feature shall also indicate support of ack-NACK- FeedbackForMulticast-r17.				
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.	BC	No	N/A	N/A
A UE supporting this feature shall also indicate support of ack-NACK- FeedbackForSPS-Multicast-r17.				

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.	ВС	No	N/A	N/A
A UE supporting this feature shall also indicate support of ack-NACK-FeedbackForSPS-Multicast-r17.				
qcl-MultiCelIDCl-1-3-r18 Indicates whether the UE can be configured with enabledDefaultBeamForMultiCellScheduling for default QCL assumption for multi- cell scheduling by DCl format 1_3 for same/different numerologies. When value both is reported, the UE supports this capability for same SCS and for different SCS combination(s) (i.e. lowScheduling-highScheduled, highScheduling- lowScheduled, both) reported for multiCell-PDSCH-DCl-1-3-DiffSCS-r18.	BC	No	N/A	N/A
A UE supporting this feature shall also indicate support of at least one of multiCell-PDSCH-DCI-1-3-SameSCS-r18 and multiCell-PDSCH-DCI-1-3-DiffSCS-r18.				
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.	BC	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
 semiStatic PUCCH-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-GroupLargerSCS or both diffNumerologyWithinPUCCH-GroupLargerSCS or both diffNumerologyWithinPUCCH-GroupLargerSCS-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.				

semiStaticPUCCH-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	BC	No	TDD only	N/A
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.				
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; 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. 	BC	No	N/A	N/A
 simul-SRS-MIMO-Trans-BC-r16 Indicates the number of SRS resources for positioning and SRS resource for MIMO on a symbol for a given BC. The UE can include this field only if the UE supports srs-PosResources-r16. Otherwise, the UE does not include this field. 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 intraband 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. 	ВС	No	N/A	N/A

simultaneousCSI-SubReportsAllCC-r18	ВС	No	N/A	N/A
Indicates whether the UE supports CSI report framework and the number of CSI				
report(s) which the UE can simultaneously process across all CCs, and across				
MCG and SCG in case of NR-DC. The CSI report comprises periodic, semi-				
persistent and aperiodic CSI and any latency classes and codebook types, and				
includes the beam report, and CSI report without sub-configurations plus CSI sub-				
report across CSI reports. This capability may further limit simultaneous CSI-				
SubReportsPerCC-r18 in MIMO-ParametersPerBand and Phy-ParametersFRX-				
Diff for each band in a given band combination.				
NOTE 1: UE shall report the value in this capability being equal to or larger than that in simultaneousCSI-ReportsAllCC.				
NOTE 2: UE supporting at least one of spatialAdaptation-CSI-Feedback-r18,				
spatialAdaptation-CSI-FeedbackPUSCH-r18, spatialAdaptation-CSI-				
FeedbackAperiodic-r18, spatialAdaptation-CSI-FeedbackPUCCH-r18,				
powerAdaptation-CSI-Feedback-r18, powerAdaptation-CSI-				
FeedbackPUSCH-r18, powerAdaptation-CSI-FeedbackAperiodic-r18,				
and powerAdaptation-CSI-FeedbackPUCCH-r18 shall report this feature.				
A UE supporting this feature shall also indicate support of <i>csi-ReportFramework</i> .				
simultaneousRxTxInterBandCA	ВС	CY	N/A	N/A
Indicates whether the UE supports simultaneous transmission and reception in	20	•	,, .	','
TDD-TDD, TDD-FDD and TDD-SDL inter-band NR CA. If this field is included in <i>ca</i> -				
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, TDD-FDD and TDD-SDL inter-band NR-DC. It is mandatory for				
certain TDD-FDD, TDD-TDD and TDD-SDL 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, TDD-				
FDD and TDD-SDL 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]).		0)/		
TS 38.101-1 [2]). simultaneousRxTxInterBandCAPerBandPair	ВС	CY	N/A	N/A
TS 38.101-1 [2]). simultaneousRxTxInterBandCAPerBandPair Indicates whether the UE supports simultaneous transmission and reception for	ВС	CY	N/A	N/A
TS 38.101-1 [2]). simultaneousRxTxInterBandCAPerBandPair Indicates whether the UE supports simultaneous transmission and reception for each band pair in the band combination containing at least:	ВС	CY	N/A	N/A
TS 38.101-1 [2]). simultaneousRxTxInterBandCAPerBandPair Indicates whether the UE supports simultaneous transmission and reception for each band pair in the band combination containing at least: - TDD-TDD inter-band NR-CA/NR-DC component;	ВС	CY	N/A	N/A
TS 38.101-1 [2]). simultaneousRxTxInterBandCAPerBandPair Indicates whether the UE supports simultaneous transmission and reception for each band pair in the band combination containing at least: TDD-TDD inter-band NR-CA/NR-DC component; TDD-FDD inter-band NR-CA/NR-DC component;	ВС	CY	N/A	N/A
TS 38.101-1 [2]). simultaneousRxTxInterBandCAPerBandPair Indicates whether the UE supports simultaneous transmission and reception for each band pair in the band combination containing at least: TDD-TDD inter-band NR-CA/NR-DC component; TDD-FDD inter-band NR-CA/NR-DC component; TDD-SDL inter-band NR-CA/NR-DC component.	ВС	CY	N/A	N/A
TS 38.101-1 [2]). simultaneousRxTxInterBandCAPerBandPair Indicates whether the UE supports simultaneous transmission and reception for each band pair in the band combination containing at least: - TDD-TDD inter-band NR-CA/NR-DC component; - TDD-FDD inter-band NR-CA/NR-DC component; - TDD-SDL inter-band NR-CA/NR-DC component. Encoded as a bitmap with size L * (L – 1) / 2, and bit N (leftmost bit is indexed as bit	ВС	CY	N/A	N/A
TS 38.101-1 [2]). simultaneousRxTxInterBandCAPerBandPair Indicates whether the UE supports simultaneous transmission and reception for each band pair in the band combination containing at least: TDD-TDD inter-band NR-CA/NR-DC component; TDD-FDD inter-band NR-CA/NR-DC component; TDD-SDL inter-band NR-CA/NR-DC component. 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	ВС	CY	N/A	N/A
TS 38.101-1 [2]). simultaneousRxTxInterBandCAPerBandPair Indicates whether the UE supports simultaneous transmission and reception for each band pair in the band combination containing at least: TDD-TDD inter-band NR-CA/NR-DC component; TDD-FDD inter-band NR-CA/NR-DC component; TDD-SDL inter-band NR-CA/NR-DC component. 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	ВС	CY	N/A	N/A
TS 38.101-1 [2]). simultaneousRxTxInterBandCAPerBandPair Indicates whether the UE supports simultaneous transmission and reception for each band pair in the band combination containing at least: TDD-TDD inter-band NR-CA/NR-DC component; TDD-FDD inter-band NR-CA/NR-DC component; TDD-SDL inter-band NR-CA/NR-DC component. 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	ВС	CY	N/A	N/A
TS 38.101-1 [2]). simultaneousRxTxInterBandCAPerBandPair Indicates whether the UE supports simultaneous transmission and reception for each band pair in the band combination containing at least: TDD-TDD inter-band NR-CA/NR-DC component; TDD-FDD inter-band NR-CA/NR-DC component; TDD-SDL inter-band NR-CA/NR-DC component. 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.	BC	CY	N/A	N/A
TS 38.101-1 [2]). simultaneousRxTxInterBandCAPerBandPair Indicates whether the UE supports simultaneous transmission and reception for each band pair in the band combination containing at least: - TDD-TDD inter-band NR-CA/NR-DC component; - TDD-FDD inter-band NR-CA/NR-DC component; - TDD-SDL inter-band NR-CA/NR-DC component. 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 ca-ParametersNR-ForDC, each bit of this field indicates	BC	CY	N/A	N/A
TS 38.101-1 [2]). simultaneousRxTxInterBandCAPerBandPair Indicates whether the UE supports simultaneous transmission and reception for each band pair in the band combination containing at least: TDD-TDD inter-band NR-CA/NR-DC component; TDD-FDD inter-band NR-CA/NR-DC component; TDD-SDL inter-band NR-CA/NR-DC component. 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 ca-ParametersNR-ForDC, each bit of this field indicates whether the UE supports simultaneous transmission and reception between each	BC	CY	N/A	N/A
TS 38.101-1 [2]). simultaneousRxTxInterBandCAPerBandPair Indicates whether the UE supports simultaneous transmission and reception for each band pair in the band combination containing at least: - TDD-TDD inter-band NR-CA/NR-DC component; - TDD-FDD inter-band NR-CA/NR-DC component; - TDD-SDL inter-band NR-CA/NR-DC component. 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 ca-ParametersNR-ForDC, 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.	BC	CY	N/A	N/A
TS 38.101-1 [2]). simultaneousRxTxInterBandCAPerBandPair Indicates whether the UE supports simultaneous transmission and reception for each band pair in the band combination containing at least: - TDD-TDD inter-band NR-CA/NR-DC component; - TDD-FDD inter-band NR-CA/NR-DC component; - TDD-SDL inter-band NR-CA/NR-DC component. 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 ca-ParametersNR-ForDC, 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. The UE does not include this field if the UE supports simultaneous transmission and	BC	CY	N/A	N/A
TS 38.101-1 [2]). simultaneousRxTxInterBandCAPerBandPair Indicates whether the UE supports simultaneous transmission and reception for each band pair in the band combination containing at least: - TDD-TDD inter-band NR-CA/NR-DC component; - TDD-FDD inter-band NR-CA/NR-DC component; - TDD-SDL inter-band NR-CA/NR-DC component. 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 ca-ParametersNR-ForDC, 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. 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	BC	CY	N/A	N/A
TS 38.101-1 [2]). simultaneousRxTxInterBandCAPerBandPair Indicates whether the UE supports simultaneous transmission and reception for each band pair in the band combination containing at least: - TDD-TDD inter-band NR-CA/NR-DC component; - TDD-FDD inter-band NR-CA/NR-DC component; - TDD-SDL inter-band NR-CA/NR-DC component. 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 ca-ParametersNR-ForDC, 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. The UE does not include this field if the UE supports simultaneous transmission and	BC	CY	N/A	N/A
TS 38.101-1 [2]). simultaneousRxTxInterBandCAPerBandPair Indicates whether the UE supports simultaneous transmission and reception for each band pair in the band combination containing at least: - TDD-TDD inter-band NR-CA/NR-DC component; - TDD-FDD inter-band NR-CA/NR-DC component; - TDD-SDL inter-band NR-CA/NR-DC component. 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 ca-ParametersNR-ForDC, 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. 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	BC	CY	N/A	N/A
TS 38.101-1 [2]). simultaneousRxTxInterBandCAPerBandPair Indicates whether the UE supports simultaneous transmission and reception for each band pair in the band combination containing at least: - TDD-TDD inter-band NR-CA/NR-DC component; - TDD-SDL inter-band NR-CA/NR-DC component. 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 ca-ParametersNR-ForDC, 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. 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.	BC	CY	N/A	N/A
simultaneousRxTxInterBandCAPerBandPair Indicates whether the UE supports simultaneous transmission and reception for each band pair in the band combination containing at least: - TDD-TDD inter-band NR-CA/NR-DC component; - TDD-FDD inter-band NR-CA/NR-DC component; - TDD-SDL inter-band NR-CA/NR-DC component. 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 ca-ParametersNR-ForDC, 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. 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.	BC	CY	N/A	N/A
simultaneousRxTxInterBandCAPerBandPair Indicates whether the UE supports simultaneous transmission and reception for each band pair in the band combination containing at least: - TDD-TDD inter-band NR-CA/NR-DC component; - TDD-FDD inter-band NR-CA/NR-DC component; - TDD-SDL inter-band NR-CA/NR-DC component. 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 ca-ParametersNR-ForDC, 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. 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				
simultaneousRxTxInterBandCAPerBandPair Indicates whether the UE supports simultaneous transmission and reception for each band pair in the band combination containing at least: - TDD-TDD inter-band NR-CA/NR-DC component; - TDD-FDD inter-band NR-CA/NR-DC component; - TDD-SDL inter-band NR-CA/NR-DC component. 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 ca-ParametersNR-ForDC, 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. 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				
simultaneousRxTxInterBandCAPerBandPair Indicates whether the UE supports simultaneous transmission and reception for each band pair in the band combination containing at least: - TDD-TDD inter-band NR-CA/NR-DC component; - TDD-FDD inter-band NR-CA/NR-DC component; - TDD-SDL inter-band NR-CA/NR-DC component. 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 ca-ParametersNR-ForDC, 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. 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 combination and captured in TS 38.101-1 [2].	ВС	CY	N/A	N/A
simultaneousRxTxInterBandCAPerBandPair Indicates whether the UE supports simultaneous transmission and reception for each band pair in the band combination containing at least: - TDD-TDD inter-band NR-CA/NR-DC component; - TDD-FDD inter-band NR-CA/NR-DC component, - TDD-SDL inter-band NR-CA/NR-DC component. 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 ca-ParametersNR-ForDC, 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. 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 combination and captured in TS 38.101-1 [2].				
simultaneousRxTxInterBandCAPerBandPair Indicates whether the UE supports simultaneous transmission and reception for each band pair in the band combination containing at least: - TDD-TDD inter-band NR-CA/NR-DC component; - TDD-FDD inter-band NR-CA/NR-DC component; - TDD-SDL inter-band NR-CA/NR-DC component. 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 ca-ParametersNR-ForDC, 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. 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 combination and captured in TS 38.101-1 [2]. simultaneousRxTxSULPerBandPair Indicates whether the UE supports simultaneous reception and transmission for a	ВС	CY	N/A	N/A
simultaneousRxTxInterBandCAPerBandPair Indicates whether the UE supports simultaneous transmission and reception for each band pair in the band combination containing at least: - TDD-TDD inter-band NR-CA/NR-DC component; - TDD-FDD inter-band NR-CA/NR-DC component; - TDD-SDL inter-band NR-CA/NR-DC component. 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 ca-ParametersNR-ForDC, 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. 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 combination and captured in TS 38.101-1 [2]. 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.	ВС	CY	N/A	N/A
simultaneousRxTxInterBandCAPerBandPair Indicates whether the UE supports simultaneous transmission and reception for each band pair in the band combination containing at least: - TDD-TDD inter-band NR-CA/NR-DC component; - TDD-FDD inter-band NR-CA/NR-DC component; - TDD-SDL inter-band NR-CA/NR-DC component. 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 ca-ParametersNR-ForDC, 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. 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 combination and captured in TS 38.101-1 [2]. 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.	ВС	CY	N/A	N/A
simultaneousRxTxInterBandCAPerBandPair Indicates whether the UE supports simultaneous transmission and reception for each band pair in the band combination containing at least: - TDD-TDD inter-band NR-CA/NR-DC component; - TDD-SDL inter-band NR-CA/NR-DC component; - TDD-SDL inter-band NR-CA/NR-DC component. 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 ca-ParametersNR-ForDC, 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. 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 combination and captured in TS 38.101-1 [2]. 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. The UE does not include this field if the UE supports simultaneous transmission and	ВС	CY	N/A	N/A
simultaneousRxTxInterBandCAPerBandPair Indicates whether the UE supports simultaneous transmission and reception for each band pair in the band combination containing at least: - TDD-TDD inter-band NR-CA/NR-DC component; - TDD-FDD inter-band NR-CA/NR-DC component; - TDD-SDL inter-band NR-CA/NR-DC component. 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 ca-ParametersNR-ForDC, 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. 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 combination and captured in TS 38.101-1 [2]. 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. 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	ВС	CY	N/A	N/A
simultaneousRxTxInterBandCAPerBandPair Indicates whether the UE supports simultaneous transmission and reception for each band pair in the band combination containing at least: - TDD-TDD inter-band NR-CA/NR-DC component; - TDD-FDD inter-band NR-CA/NR-DC component; - TDD-SDL inter-band NR-CA/NR-DC component. 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 ca-ParametersNR-ForDC, 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. 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 combination and captured in TS 38.101-1 [2]. 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 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 simultaneous reception for any band pair in the	ВС	CY	N/A	N/A
ITS 38.101-1 [2]). simultaneousRxTxInterBandCAPerBandPair Indicates whether the UE supports simultaneous transmission and reception for each band pair in the band combination containing at least: - TDD-TDD inter-band NR-CA/NR-DC component; - TDD-FDD inter-band NR-CA/NR-DC component; - TDD-SDL inter-band NR-CA/NR-DC component. 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 ca-ParametersNR-ForDC, 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. 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 combination and captured in TS 38.101-1 [2]. 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. The UE does not include this field if the UE supports simultaneous transmission and reception for all applicable band pairs in the band combination	ВС	CY	N/A	N/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	ВС	No	N/A	N/A
 simulTX-SRS-AntSwitchingInterBandUL-CA-r16 Indicates whether the UE support simultaneous transmission of SRS on different CCs for inter-band UL CA. The UE indicating support of this feature shall include at least one of the following capabilities: supportSRS-xTyR-xLessThanY-r16 indicates support transmission of SRS for xTyR (x<y) and="" antenna="" based="" bm="" ca.<="" cb="" ccs="" different="" for="" in="" inter-band="" li="" ncb="" on="" overlapped="" srs="" switching="" symbol(s)="" ul=""> 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. </y)> NOTE: For simultaneously antenna switching and antenna switching SRS in 	BC	No	N/A	N/A
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.				
singlePUCCH-ConfigForMulticast-r17 Indicates whether the UE supports a PUCCH-Config for multicast HARQ-ACK feedback, separate from that of unicast configurations. 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.	BC	No	N/A	N/A

spatialAdaptation-CSI-FeedbackAperiodicPerBC-r18 Indicates whether the UE supports spatial domain adaptation with CSI feedback based on CSI report sub-configuration(s) for aperiodic CSI reporting and single-panel type1 codebook. This capability signalling comprises the following parameters:	ВС	No	N/A	N/A
 maxNumberCSI-ResourceAcrossCC-r18 indicates the maximum number of simultaneous NZP-CSI-RS resources in active BWPs across all CCs within a band combination for SD-type1 and/or SD-type2; maxNumberPortsAcrossCC-r18 indicates index N of the maximum number of total CSI-RS ports in simultaneous NZP-CSI-RS resources in active BWPs across all CCs within a band combination for SD-type1 and/or SD-type2. The maximum number total CSI-RS ports in simultaneous NZP-CSI-RS resources is N*8, where N = {132}. 				
NOTE 1: For maxNumberCSI-ResourceAcrossCC-r18 and maxNumberPortsAcrossCC-r18, NZP-CSI-RS resource and CSI-RS ports are counted for reporting settings with and without subconfigurations.				
NOTE 2: If a UE reports more than one capability from spatialAdaptation-CSI-FeedbackPerBC-r18, spatialAdaptation-CSI-FeedbackPUSCH-PerBC-r18, spatialAdaptation-CSI-FeedbackPuCCH-PerBC-r18, spatialAdaptation-CSI-FeedbackPUCCH-PerBC-r18, powerAdaptation-CSI-FeedbackPUSCH-PerBC-r18, powerAdaptation-CSI-FeedbackAperiodicPerBC-r18, powerAdaptation-CSI-FeedbackAperiodicPerBC-r18, powerAdaptation-CSI-FeedbackPUCCH-PerBC-r18 and if the UE is configured with CSI report settings with sub-configurations corresponding to a subset of the above reported features, then the supported maximum of NZP-CSI-RS resources/ports across all periodic, semi-persistent, aperiodic CSI report settings with sub-configurations corresponding to all of spatial and power domain adaptations and without sub-configurations				
is determined by the minimum of the reported values from that subset. NOTE 3: If a UE reports both spatialAdaptation-CSI-FeedbackAperiodicPerBC-r18 and powerAdaptation-CSI-FeedbackAperiodicPerBC-r18, and if the UE is configured with CSI report settings with sub-configurations corresponding to both spatialAdaptation-CSI-FeedbackAperiodicPerBC-r18 and powerAdaptation-CSI-FeedbackAperiodicPerBC-r18, then the supported total number of aperiodic CSI reporting settings without sub-configurations plus the total number of sub-configurations across aperiodic CSI report settings with sub-configurations per BWP is determined by the minimum of the reported values from both spatialAdaptation-CSI-FeedbackAperiodicPerBC-r18 and				
NOTE 4: If a UE reports both for csiFeedbackType-r18 and if the UE is configured with both CSI report setting(s) with sub-configurations corresponding to SD-type 1 and CSI report setting(s) with sub-configurations corresponding to SD-type 2, the supported total number of NZP-CSI-RS resources/ports for maxNumberCSI-ResourcePerCC-r18 and maxNumberTotalCSI-ResourcePerCC-r18 in spatialAdaptation-CSI-Feedback-r18 and maxNumberCSI-ResourceAcrossCC and maxNumberTotalCSI-ResourceAcrossCC-r18 in spatialAdaptation-CSI-FeedbackPerBC-r18 is determined by the minimum of the reported values between SD-type 1 and SD-type 2.				
NOTE 5: If CSI report configuration in active BWP of any CC includes report setting(s) with sub-configurations, values reported in this capability for the number of simultaneous NZP-CSI-RS resources and ports across all CCs are used instead of values reported in csi-RS-IM-ReceptionForFeedbackPerBandComb.				
A UE supporting this feature shall also indicate support of csi-ReportFramework and spatialAdaptation-CSI-FeedbackAperiodic-r18.				

spatialA	daptation-CSI-FeedbackPerBC-r18	ВС	No	N/A	N/A
	whether the UE supports spatial domain adaptation with CSI feedback	ьс	INO	11/7	11/7
	CSI report sub-configuration(s) for periodic CSI reporting and single-panel				
	ebook. This capability signalling comprises the following parameters:				
	axNumberCSI-ResourceAcrossCC-r18 indicates the maximum number of				
	nultaneous NZP-CSI-RS resources in active BWPs across all CCs within a				
ba	nd combination for SD-type1 and/or SD-type2;				
- ma	axNumberPortsAcrossCC-r18 indicates index N of the maximum number				
of	total CSI-RS ports in simultaneous NZP-CSI-RS resources in active BWPs				
	ross all CCs within a band combination for SD-type1 and/or SD-type2. The				
	aximum number total CSI-RS ports in simultaneous NZP-CSI-RS				
	sources is N^*8 , where $N = \{132\}$.				
100	(1.10±).				
NOTE 1:	For maxNumberCSI-ResourceAcrossCC-r18 and				
INOIL I.	maxNumberPortsAcrossCC-r18, NZP-CSI-RS resource and CSI-RS				
	ports are counted for reporting settings with and without sub-				
NOTE O	configurations.				
NOTE 2:	If a UE reports more than one capability from spatialAdaptation-CSI-				
	FeedbackPerBC-r18, spatialAdaptation-CSI-FeedbackPUSCH-PerBC-				
	r18, spatialAdaptation-CSI-FeedbackAperiodicPerBC-r18,				
	spatialAdaptation-CSI-FeedbackPUCCH-PerBC-r18, powerAdaptation-				
	CSI-FeedbackPerBC-r18, powerAdaptation-CSI-FeedbackPUSCH-				
	PerBC-r18, powerAdaptation-CSI-FeedbackAperiodicPerBC-r18,				
	powerAdaptation-CSI-FeedbackPUCCH-PerBC-r18 and if the UE is				
	configured with CSI report settings with sub-configurations corresponding				
	to a subset of the above reported features, then the supported maximum				
	of NZP-CSI-RS resources/ports across all periodic, semi-persistent,				
	aperiodic CSI report settings with sub-configurations corresponding to all				
	of spatial and power domain adaptations and without sub-configurations				
	is determined by the minimum of the reported values from that subset.				
NOTE 3:	If a UE reports both spatialAdaptation-CSI-FeedbackPerBC-r18 and				
NOTE 3.					
	powerAdaptation-CSI-FeedbackPerBC-r18, and if the UE is configured				
	with CSI report settings with sub-configurations corresponding to both				
	spatialAdaptation-CSI-FeedbackPerBC-r18 and powerAdaptation-CSI-				
	FeedbackPerBC-r18, then the supported total number of periodic CSI				
	reporting settings without sub-configurations plus the total number of				
	sub-configurations across periodic CSI report settings with sub-				
	configurations per BWP is determined by the minimum of the reported				
	values from both spatialAdaptation-CSI-FeedbackPerBC-r18 and				
	powerAdaptation-CSI-FeedbackPerBC-r18.				
NOTE 4:	If a UE reports both for csiFeedbackType-r18 and if the UE is configured				
	with both CSI report setting(s) with sub-configurations corresponding to				
	SD-type 1 and CSI report setting(s) with sub-configurations				
	corresponding to SD-type 2, the supported total number of NZP-CSI-RS				
	resources/ports for maxNumberCSI-ResourcePerCC-r18 and				
	maxNumberTotalCSI-ResourcePerCC-r18 in spatialAdaptation-CSI-				
	Feedback-r18 and maxNumberCSI-ResourceAcrossCC and				
	maxNumberTotalCSI-ResourceAcrossCC-r18 in spatialAdaptation-CSI-				
	FeedbackPerBC-r18 is determined by the minimum of the reported				
	values between SD-type 1 and SD-type 2.				
NOTE 5	If CSI report configuration in active BWP of any CC includes report				
INCIE 3.					
	setting(s) with sub-configurations, values reported in this capability for				
	the number of simultaneous NZP-CSI-RS resources and ports across all				
	CCs are used instead of values reported in csi-RS-IM-				
	ReceptionForFeedbackPerBandComb.				
	porting this feature shall also indicate support of csi-ReportFramework and				
∟spatialAd	aptation-CSI-Feedback-r18.				

spatialAdaptation-CSI-FeedbackPUCCH-PerBC-r18	ВС	No	N/A	N/A
Indicates whether the UE supports spatial domain adaptation with CSI feedback				
based on CSI report sub-configuration(s) for semi-persistent CSI reporting on				
PUCCH (or piggybacked on PUSCH) and single-panel type1 codebook. This				
capability signalling comprises the following parameters:				
- maxNumberCSI-ResourceAcrossCC-r18 indicates the maximum number of				
simultaneous NZP-CSI-RS resources in active BWPs across all CCs within a				
band combination;				
- maxNumberPortsAcrossCC-r18 indicates index N of the maximum number				
of total CSI-RS ports in simultaneous NZP-CSI-RS resources in active BWPs				
across all CCs within a band combination. The maximum number total CSI-				
RS ports in simultaneous NZP-CSI-RS resources is N *8, where $N = \{132\}$.				
()				
NOTE 1: For maxNumberCSI-ResourceAcrossCC-r18 and				
maxNumberPortsAcrossCC-r18, NZP-CSI-RS resource and CSI-RS				
ports are counted for reporting settings with and without sub-				
configurations.				
NOTE 2: If a UE reports more than one capability from spatialAdaptation-CSI-				
FeedbackPerBC-r18, spatialAdaptation-CSI-FeedbackPUSCH-PerBC-				
r18, spatialAdaptation-CSI-FeedbackAperiodicPerBC-r18,				
spatialAdaptation-CSI-FeedbackPUCCH-PerBC-r18, powerAdaptation-				
CSI-FeedbackPerBC-r18, powerAdaptation-CSI-FeedbackPUSCH-				
PerBC-r18, powerAdaptation-CSI-FeedbackAperiodicPerBC-r18,				
powerAdaptation-CSI-FeedbackPUCCH-PerBC-r18 and if the UE is				
configured with CSI report settings with sub-configurations corresponding				
to a subset of the above reported features, then the supported maximum				
of NZP-CSI-RS resources/ports across all periodic, semi-persistent,				
aperiodic CSI report settings with sub-configurations corresponding to all				
of spatial and power domain adaptations and without sub-configurations				
is determined by the minimum of the reported values from that subset.				
NOTE 3: If a UE reports more than one capability from spatialAdaptation-CSI-				
FeedbackPUSCH-PerBC-r18, spatialAdaptation-CSI-FeedbackPUCCH-				
PerBC-r18, powerAdaptation-CSI-FeedbackPUSCH-PerBC-r18 and				
powerAdaptation-CSI-FeedbackPUCCH-PerBC-r18 and if the UE is				
configured with CSI report settings with sub-configurations corresponding				
to a subset of the reported features, then the supported total number of				
semi-persistent CSI reporting settings without sub-configurations plus the				
total number of sub-configurations across semi-persistent CSI report				
settings with sub-configurations per BWP is determined by the minimum				
of the reported values from that subset.				
NOTE 4: If CSI report configuration in active BWP of any CC includes report				
setting(s) with sub-configurations, values reported in this capability for				
the number of simultaneous NZP-CSI-RS resources and ports across all				
CCs are used instead of values reported in csi-RS-IM-				
ReceptionForFeedbackPerBandComb.				
A UE supporting this feature shall also indicate support of csi-ReportFramework, sp-				
CSI-ReportPUCCH and spatialAdaptation-CSI-FeedbackPUCCH-r18.				
The state of the s				

spatialAdaptation-CSI-FeedbackPUSCH-PerBC-r18	ВС	No	N/A	N/A
Indicates whether the UE supports spatial domain adaptation with CSI feedback				
based on CSI report sub-configuration(s) for semi-persistent CSI reporting on				
PUSCH and single-panel type1 codebook. This capability signalling comprises the				
following parameters:				
- maxNumberCSI-ResourceAcrossCC-r18 indicates the maximum number of				
simultaneous NZP-CSI-RS resources in active BWPs across all CCs within a				
band combination;				
- maxNumberPortsAcrossCC-r18 indicates index N of the maximum number				
of total CSI-RS ports in simultaneous NZP-CSI-RS resources in active BWPs				
across all CCs within a band combination. The maximum number total CSI-				
RS ports in simultaneous NZP-CSI-RS resources is $N*8$, where $N = \{132\}$.				
NOTE 4 E N. I. COLD A CO. IC				
NOTE 1: For maxNumberCSI-ResourceAcrossCC-r18 and				
maxNumberPortsAcrossCC-r18, NZP-CSI-RS resource and CSI-RS				
ports are counted for reporting settings with and without sub-				
configurations.				
NOTE 2: If a UE reports more than one capability from spatialAdaptation-CSI-				
FeedbackPerBC-r18, spatialAdaptation-CSI-FeedbackPUSCH-PerBC-				
r18, spatialAdaptation-CSI-FeedbackAperiodicPerBC-r18,				
spatialAdaptation-CSI-FeedbackPUCCH-PerBC-r18, powerAdaptation-				
CSI-FeedbackPerBC-r18, powerAdaptation-CSI-FeedbackPUSCH-				
PerBC-r18, powerAdaptation-CSI-FeedbackAperiodicPerBC-r18,				
powerAdaptation-CSI-FeedbackPUCCH-PerBC-r18 and if the UE is				
configured with CSI report settings with sub-configurations corresponding				
to a subset of the above reported features, then the supported maximum				
of NZP-CSI-RS resources/ports across all periodic, semi-persistent,				
aperiodic CSI report settings with sub-configurations corresponding to all				
of spatial and power domain adaptations and without sub-configurations				
is determined by the minimum of the reported values from that subset.				
NOTE 3: If a UE reports more than one capability from spatialAdaptation-CSI-				
FeedbackPUSCH-PerBC-r18, spatialAdaptation-CSI-FeedbackPUCCH-				
PerBC-r18, powerAdaptation-CSI-FeedbackPUSCH-PerBC-r18 and				
powerAdaptation-CSI-FeedbackPUCCH-PerBC-r18 and if the UE is				
configured with CSI report settings with sub-configurations corresponding				
to a subset of the reported features, then the supported total number of				
semi-persistent CSI reporting settings without sub-configurations plus the				
total number of sub-configurations across semi-persistent CSI report				
settings with sub-configurations per BWP is determined by the minimum				
of the reported values from that subset.				
NOTE 4: If CSI report configuration in active BWP of any CC includes report				
setting(s) with sub-configurations, values reported in this capability for				
the number of simultaneous NZP-CSI-RS resources and ports across all				
CCs are used instead of values reported in <i>csi-RS-IM-</i>				
ReceptionForFeedbackPerBandComb.				
A LIE supporting this feature shall also indicate support of sai PanartEramework an				
A UE supporting this feature shall also indicate support of csi-ReportFramework, sp-CSI-ReportPUSCH and spatialAdaptation-CSI-FeedbackPUSCH-r18.				
	DC	No	NI/A	NI/A
stayOnTargetCC-SRS-CarrierSwitch-r17	BC	No	N/A	N/A
Indicates whether the UE supports staying on the target CC when remaining SRS				
resource set(s) for SRS carrier switching exists. UE indicating support of this feature				
shall indicate support of srs-CarrierSwitch.				
NOTE 1. When HE compared this comphility if the times maried historical the ODO				
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.				

	BC	No	N/A	FR1 only
J is the number of aggregated CCs in the band combination				
For the j-th CC, $BW^{(j)}$ is the actual CC bandwidth.				
If scalingFactorSCS-r17 is reported, the reported value represents the maximum supported value for the effective aggregated bandwidth calculated as follows.				
Effective aggregated bandwidth (in MHz) = $\sum_{j=1}^{3} (f^{(j)} \cdot BW^{(j)})$				
wherein				
J is the number of aggregated CCs in the band combination				
For the j-th CC, $BW^{(j)}$ is the actual CC bandwidth.				
$f^{(j)}$ is the scaling factor and takes the following values.				
2, for CC of 15 kHz SCS 1, for CC of 30 kHz SCS				
1/2, for CC of 60 kHz SCS				
This field is only applicable to Bandwidth Combination Set 5 (BCS5). If the UE reports this capability, the UE shall report supportedBandwidthDL-v1780 and supportedBandwidthUL-v1780.				
 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

supportedMaxCellsWithoutGapsL1-Meas-r18 Indicates the max number of total cells of serving cells and neighbouring cells across all frequency layers of intra-frequency and inter-frequency without measurement gaps for L1 measurement. All serving cells are counted regardless of whether SSB L1-RSRP measurement on them are configured in LTM-CSI-ResourceConfig-r18 or not. A UE indicating support for this feature shall also indicate support for intraFreqL1-MassConfig. 118 or interFreqSSR L1 Mass WithoutGaps. 118	BC	No	N/A	N/A
MeasConfig-r18 or interFreqSSB-L1-MeasWithoutGaps-r18. supportedMaxSSB-L1-Meas-r18 Indicates the max number of total SSB resources of serving cells and neighbouring cells across all frequency layers of intra-frequency and inter-frequency without measurement gaps for L1 measurement. All serving cells are counted regardless of whether SSB L1-RSRP measurement on them are configured in LTM-CSI-ResourceConfig-r18 or not. A UE indicating support for this feature shall also indicate support for intraFreqL1-	BC	No	N/A	N/A
MeasConfig-r18 or interFreqSSB-L1-MeasWithoutGaps-r18. supportedMaxSSB-WithinSlotL1-Meas-r18 Indicates the max number of SSB resources for L1-RSRP measurement that UE can measure within a slot across candidate cells for intra- and inter-frequency without gap L1-RSRP measurement. A UE indicating support for this feature shall also indicate support for intraFreqL1-	ВС	No	N/A	N/A
MeasConfig-r18 or interFreqSSB-L1-MeasWithoutGaps-r18. 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	BC	CY	N/A	N/A
 Group ID. tdcp-ReportPerBC-r18 Indicates whether the UE supports Y=1 delay value for TDCP report and amplitude report. The UE also supports to configure K_{TRS} = 1 TRS resource set. The basic delay value <= D_basic = 1 slot. This capability signalling comprises the following parameters: valueX-r18 indicates CPU occupation (O_{CPU}=(Y+1)*X). maxNumberActiveResource-r18 indicates the index N of the maximum number of simultaneously active CSI-RS resources for TDCP across all CCs within a band combination. The maximum number of simultaneously active CSI-RS resources for TDCP across all CCs within a band combination is N*2, where N = {232}. A UE supporting this feature shall also indicate support of csi-ReportFramework and simultaneousCSI-ReportsAllCC. NOTE: Counting of simultaneously active CSI-RS resources follows existing specification TS 38.214 [12]. 	BC	No	N/A	N/A
 tdcp-ResourcePerBC-r18 Indicates the number of CSI-RS resources for TDCP that the UE supports. This capability signalling comprises the following parameters: maxNumberConfigPerCC-r18 indicates the maximum number of configured CSI-RS resources for TDCP per CC. maxNumberConfigAcrossCC-r18 indicates the index N of maximum number of configured CSI-RS resources for TDCP across all CCs within a band combination. The maximum number of configured CSI-RS resources for TDCP across all CCs within a band combination is N*2, where N = {132}. maxNumberSimultaneousPerCC-r18 indicates the maximum number of simultaneously active CSI-RS resources for TDCP per CC. A UE supporting this feature shall indicate support of tdcp-Report-r18. NOTE: Counting of simultaneously active CSI-RS resources follows existing specification TS 38.214 [12]. 	BC	No	N/A	N/A

timelineRelax-CJT-CSI-CA-r18 Indicates whether the UE supports timeline relaxation parameter for regular eType-II-CJT CSI, or for port selection FeType-II-CJT CSI. Value n0 indicates 0, value n2	ВС	CY	N/A	N/A
indicates Z2. A UE supporting this feature shall also indicate support of eType2CJT-r18 or feType2CJT-r18.				
NOTE: A UE that supports <i>eType2CJT-r18</i> or <i>feType2CJT-r18</i> must signal this feature.				
twoPUCCH-Grp-ConfigurationsList-r16	BC	No	N/A	N/A
Indicates one or multiple of supported configuration(s) of {primary PUCCH group config, secondary PUCCH group config} for the band combination where for each 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	IVA	IVA
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.				
type3EnhHARQ-CB-DCI-1-3-r18	BC	No	N/A	N/A
Indicates whether the UE supports feedback of enhanced type 3 HARQ-ACK codebook, triggered by a DCI 1_3, feedback of a dynamically selected enhanced type 3 HARQ-ACK codebook based on triggering information in DCI 1_3 and 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 in simultaneous-2-1-HARQ-ACK-CB-r18).				
This capability signalling comprises the following parameters: - numberOfCodebook-r18 indicates the number of enhanced type 3 HARQ-ACK codebooks.				
 maxNumberPUCCH-Trans-r18 indicates the maximum number of actual PUCCH transmissions for type 3 or enhanced type 3 HARQ-ACK codebook feedback within a slot. 				
The UE only supports feedback of a dynamically selected enhanced type 3 HARQ-ACK codebook based on triggering information in DCI 1_3 if the UE for numberOfCodebook-r18 supports more than one enhanced type 3 HARQ-ACK codebook to be configured.				
If the UE also reports enhancedType3-HARQ-CodebookFeedback-r17, the same value is reported for numberOfCodebook-r18 and maxNumberPUCCH-Trans-r18.				
A UE supporting this feature shall also indicate support of at least one of <i>multiCell-PDSCH-DCI-1-3-SameSCS-r18</i> and <i>multiCell-PDSCH-DCI-1-3-DiffSCS-r18</i> .				

type3HARQ-CB-DCI-1-3-r18 Indicates whether the UE supports feedback of type 3 HARQ-ACK codebook, triggered by a DCI 1_3 scheduling at least a PDSCH and feedback of type 3 HARQ-ACK codebook, triggered by a DCI 1_3 without scheduling a PDSCH using a reserved FDRA value. A UE supporting this feature shall also indicate support of at least one of multiCell-PDSCH-DCI-1-3-SameSCS-r18 and multiCell-PDSCH-DCI-1-3-DiffSCS-r18.	ВС	No	N/A	N/A
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.	ВС	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	CY	N/A	FR1 only
 aperiodic CSI-TimeRelaxation-r18 Indicates whether the UE supports aperiodic CSI report timing relaxation for doppler codebook based on eType-II codebook and feType-II codebook. The capability signalling comprises of the following parameters: valueW-r18 indicates aperiodic CSI report timing relaxation, w, for doppler codebook based on Type-II codebook. UE reports valueW-r18, independently for each SCS in unit of symbols. value1 indicates 14*(Kp-1)*d symbols, value2 indicates 14*Kp*d symbols, where Kp is according to scalingfactor-r18 of feType2Doppler-r18, or according to scalingfactor-r18 of feType2Doppler-r18 and d =4 (minimum periodicity of periodic CSI-RS). timeRelaxation-r18 indicates aperiodic CSI report timing relaxation for doppler codebook based on Type-II codebook. For vectorLengthDD-r18 = 1: 1) For AP CSI-RS: (Z,Z') = (Z₂ + 14*(K-1)*m, Z'₂); 2) For P/SP CSI-RS: (Z,Z') = (Z₂ + 14*(K-1)*m, Z'₂); 2) For P/SP CSI-RS: (Z,Z') = (Z₂ + 14*(K-1)*m, Z'₂); 2) For P/SP CSI-RS: (Z,Z') = (Z₂ + 14*(K-1)*m, Z'₂); 2) For P/SP CSI-RS: (Z,Z') = (Z₂ + 14*(K-1)*m + Z'₂, 2Z'₂); 2) For P/SP CSI-RS: (Z,Z') = (Z₂ + 14*(K-1)*m + Z'₂, 2Z'₂); 2) For P/SP CSI-RS: (Z,Z') = (Z₂ + 14*(K-1)*m + Z'₂, 2Z'₂); 2) For P/SP CSI-RS: (Z,Z') = (Z₂ + 14*(K-1)*m + Z'₂, 2Z'₂); 2) For P/SP CSI-RS: (Z,Z') = (Z₂ + 14*(K-1)*m + Z'₂, 2Z'₂); 2) For P/SP CSI-RS: (Z,Z') = (Z₂ + 14*(K-1)*m + Z'₂, 2Z'₂); 2) For P/SP CSI-RS: (Z,Z') = (Z₂ + 14*(K-1)*m + Z'₂, 2Z'₂); 2) For P/SP CSI-RS: (Z,Z') = (Z₂ + 14*(K-1)*m + Z'₂, 2Z'₂); 2) For P/SP CSI-RS: (Z,Z') = (Z₂ + 14*(K-1)*m + Z'₂, 2Z'₂); 3) For P/SP CSI-RS: (Z,Z') = (Z₂ + 14*(K-1)*m + Z'₂, 2Z'₂); 4) For AP CSI-RS: (Z,Z') = (Z₂ + 14*(K-1)*m + Z'₂, ZZ'₂); 5) For P/SP CSI-RS: (Z,Z') = (Z₂ + 14*(K-1)*m + Z'₂, ZZ'₂); 6) For	FS	CY	N/A	N/A
signal this feature.				

Indicates whether the UE supports RLM/BM/BFD and gapless L3 intra-frequency measurements based on CD-SSB outside active BWP without interruptions. For the UE that is capable of this feature, the bandwidth of UE-specific RRC configured BWP need not include bandwidth of the CORESET#0 (if CORESET#0 is present) and CD-SSB for PCell; the bandwidth of UE-specific RRC configured BWP need not include bandwidth of the CORESET#0 (if CORESET#0 is present) and SSB indicated by absoluteFrequencySSB (either CD-SSB or NCD-SSB) for PSCell (if configured); and the bandwidth of the UE-specific RRC configured BWP need not include CD-SSB for SCell (if configured). CD-SSB outside active DL BWP but within the bandwidth of the corresponding carrier(s) to be measured can be used as the QCL source for other reference signal. UE performs L3 intra-frequency measurements without gaps based on CD-SSB, where the CD-SSB is outside the active DL BWP but is within the bandwidth of the corresponding carrier(s) to be measured.	FS	No	N/A	N/A
NOTE 1: The CD-SSB is still within the bandwidth of the carrier configured by SCS-SpecificCarrier of downlinkChannelBW-PerSCS-List in ServingCellConfig. NOTE 2: If a UE is configured with more than one UE-specific DL BWP configurations, the CD-SSB is within the bandwidth of at least one of the UE-specific DL BWP configurations.				
NOTE 3: Void. NOTE 4: If a UE additionally indicates support of NeedForGap or NeedForGapNCSG and/or NeedForInterruption, the UE shall report no gap and no interruption/no NCSG for intra-frequency measurement.				
This capability is not applicable to RedCap or eRedCap UEs. 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
dmrs-MultiTRP-AdditionRows-r18 Indicates whether the UE supports additional row(s) for antenna ports (0,2,3) for DL DMRS ports for single-DCI based M-TRP. A UE supporting this feature shall also indicate support of dmrs-MultiTRP-SingleDCI-r18.	FS	No	N/A	N/A
dmrs-MultiTRP-MultiDCI-r18 Indicates whether the UE supports Rel-18 DL DMRS with multi-DCI based M-TRP PDSCH operation. A UE supporting this feature shall also indicate support of pdsch-TypeA-DMRS-r18 or pdsch-TypeB-DMRS-r18.	FS	No	N/A	N/A
dmrs-MultiTRP-SingleDCI-r18 Indicates whether the UE supports Rel-18 DL DMRS with single DCI based M-TRP. A UE supporting this feature shall also indicate support of pdsch-TypeA-DMRS-r18 or pdsch-TypeB-DMRS-r18.	FS	No	N/A	N/A

dynamicMulticastPCell-r17	FS	No	N/A	N/A
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.				
dynamicSwitchingA-r18	FS	No	N/A	N/A
Indicates whether the UE supports dynamic switching between single-TRP and				
PDSCH SFN scheme A by TCI selection field in DCI formats 1_1 and 1_2.				
The UE supporting this feature shall also indicate support of tci-SelectionDCI-r18				
and sfn-SchemeA-DynamicSwitching-r17.				
dynamicSwitchingB-r18	FS	No	N/A	N/A
Indicates whether the UE supports dynamic switching between single-TRP and				
PDSCH SFN scheme B by TCI selection field in DCI formats 1_1 and 1_2.				
The UE supporting this feature shall also indicate support of tci-SelectionDCI-r18				
and sfn-SchemeB-DynamicSwitching-r17.				
featureSetListPerDownlinkCC	FS	N/A	N/A	N/A
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.				
intraBandFreqSeparationDL, intraBandFreqSeparationDL-v1620	FS	CY	N/A	FR2
Indicates DL frequency separation class the UE supports, which indicates a	13	01	IN/A	I
				only
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.		 	N 1/4	
intraBandFreqSeparationDL-Only-r16	FS	No	N/A	FR2
Indicates whether the UE supports frequency separation class of DL only extension.				only
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 TS 38.101-2 [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.				
<u></u>				
A UE supporting this feature shall also support intraBandFreqSeparationDL.				

in the Fire and ADO and O		NI-	N1/A	N1/A
intraFreqDAPS-r16	FS	No	N/A	N/A
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.			N1/A	N1/A
mappingTypeA-1SymbolFL-DMRS-Addition2Symbol-r18	FS	No	N/A	N/A
Indicates whether the UE supports 1 symbol FL DMRS and 2 additional DMRS				
symbols for one port for scheduling of mapping type A.				
A UE supporting this feature shall also indicate support of <i>pdsch-TypeA-DMRS-r18</i> .			N1/A	N1/A
maxNumberDMRS-AcrossAllDL-DCl-r18	FS	No	N/A	N/A
Indicates the maximum number of configured DMRS types for PDSCH across all DL				
DCI formats per cell.				
A UE supporting this feature shall also indicate support of supportedDMRS-TypeDL				
and pdsch-DMRS-Type-r18.				
If a UE does not support this feature, the maximum number of configured DMRS				
types for PDSCH across all DL DCI formats per cell is defined as the total number of different DMRS types reported by <i>supportedDMRS-TypeDL</i> and/or <i>pdsch-DMRS-</i>				
Type-r18. mTRP-PDCCH-Repetition-r17	FS	No	N/A	N/A
Indicates the support of intra-slot PDCCH repetition based on two linked SS sets	го	INO	IN/A	IN/A
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.				
(animition) i 20011 cantalante per conceution compensation per cont				
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.				
mTRP-PDCCH-Case2-1SpanGap-r17	FS	No	N/A	N/A
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 <i>limitX-PerCC-r17</i> and <i>limitX-AcrossCC-r17</i> if supportedMode-r17				
is set to <i>inter-span</i> or <i>both</i> . A candidate value " <i>nolimit</i> " does not imply BD limit can				
be exceeded. The LIE indicating support of this facture shall also indicate support of pdeah				
The UE indicating support of this feature shall also indicate support of pdcch-				
MonitoringAnyOccasionsWithSpanGap and mTRP-PDCCH-Repetition-r17.				

Indicates the support of PDCCH repetition with ReI-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-PerCC-r17 indicates de and 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 candicate 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. - The UE indicating support of simultaneous configuration of PDCCH repetition and multi-DCI-Monitoring-r16 and mTRP-PDCCH-Repetition-r17. - The UE indicating support of simultaneous configuration of PDCCH repetition and multi-DCI-Monitoring-r16 and mTRP-PDCCH-Repetition-r17. - The UE indicating support of simultaneous configuration of PDCCH repetition and multi-DCI-Monitoring-r16 and mTRP-PDCCH-Repetition-r17. - Offset/SRS-GB-PUSCH-Ant-Switch-r17-r16 - Indicates the support of simultaneous configuration of PDCCH repetition and multi-DCI-Monitoring-r16 and mTRP-PDCCH-Repetition-r17. - Offset/SRS-GB-PUSCH-PDCH-Repetition-r17. - Offset/SRS-GB-PUSCH					
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 Imitix-PerCC-r17 and Imitix-AcrossCC-r17 if supportedMode-r17 is set to Inter-span or both. A candidate value "nolimit" does not imply BD Imiti can be exceeded. The UE indicating support of this feature shall also indicate support of pdcch-Monitoring-flat and mTRP-PDCCH-Repetition-r17. The UE indicating support of mTRP-PDCCH-Repetition-r17. The UE indicating support of mTRP-PDCCH-Repetition-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 CORESETPOINTER. The UE indicating support of this feature shall also indicate support of multiDCI-MultiTRP-r16 and mTRP-PDCCH-Repetition-r17. offsatSRS-CB-PUSCH-Ant-Switch-f1-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. UE indicating support of this shall indicate support of supportedSRS-Resources. The UE is only allowed to set this field for a band with associated estate-SetUplinkid set to J and when srs-CarmerSwitch is supported on the band. offsatSRS-CB-PUSCH-MonitorAnyOccWithGap-fr1-16 Indicates whether UE requires minimum of 19 symbols offset between aperiodic SRS triggering and transmission for SRS for codebook based PUSCH and antenna switching for the case of PDCCH search space monitoring occasions in any symbol of the slot with minimum time separation of two OFDM symbols for 15 kHz, four OFDM symbols for 30 kHz, seven OFDM symbols for 15 kHz, on a 15 kHz, four OFDM symbols for 10 kHz, seven OFDM symbols for 15 kHz, on a 15 kHz, four OFDM symbols for 10 kHz, seven OFDM decided and search space, or for a UE-specific s	Indicates the support of PDCCH repetition with Rel-16 PDCCH monitoring capability as defined in <i>pdcch-Monitoring-r16</i> for 15kHz and 30kHz SCS with the following parameters: - supportedMode-r17 indicates the supported mode of PDCCH repetition. - limitX-PerCC-r17 indicates the limit (X) per CC.	FS	No	N/A	N/A
The UE indicating support of this feature shall also indicate support of <i>pdcch-Monitoring-r16</i> and <i>mTRP-PDCCH-Repetition-r17</i> . The UE indicating support of <i>mTRP-PDCCH-legacyMonitoring-r18</i> shall also indicate support of <i>pdcch-MonitoringSpan2-2-r18</i> . <i>mTRP-PDCCH-multiTRP-r17</i> Indicates the support of simultaneous configuration of PDCCH repetition and multi-DCI-date multi-TRP-r19 indicate of this feature shall also indicate support of multi-DCI-date multi-TRP-r19 indicate of this feature shall also indicate support of <i>multiDCI-MultITRP-r16</i> and <i>mTRP-PDCCH-Repetition-r17</i> . The UE indicating support of this feature shall also indicate support of <i>multiDCI-MultITRP-r16</i> and <i>mTRP-PDCCH-Repetition-r17</i> . The UE indicates whether UE requires minimum of 19 symbols offset between aperiodic SRS triggering and transmission for SRS for codebook based PUSCH and antenna switching. UE indicating support of this shall indicate support of <i>supportedSRS-Resources</i> . The UE is only allowed to set this field for a band with associated <i>FeatureSetUplinkld</i> set to 0 and when <i>srs-CarrierSwitch</i> is supported on the band. OffsetSRS-CB-PUSCH-PDCCH-MonitorAnyOccWithGap-f1-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 140FDM symbols for 30 kHz, seven OFDM symbols for 15 kHz, four OFDM symbols for 30 kHz, seven OFDM symbols for 15 kHz, four O	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				
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. offsetRSR-GB-PUSCH-Ant-Switch-f17-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. UE indicating support of this shall indicate support of supportedSRS-Resources. The UE is only allowed to set this field for a band with associated FeatureSetUplinkId set to 0 and when srs-CarrierSwitch is supported on the band. offsetSRS-CB-PUSCH-DCCH-MonitorAnyOccWithGap-f11-r16 Indicates whether UE requires minimum of 19 symbols offset between aperiodic SRS triggering and transmission for SRS for codebook based PUSCH and antenna switching for the case of PDCCH search space monitoring occasions in any symbol of the slot with minimum time separation of two OFDM symbols for 15 kHz, four OFDM symbols for 30 kHz, seven OFDM symbols for 15 kHz, four OFDM symbols for 12 kHz between two consecutive transmissions of PDCCH scarach 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 supported SRS-Resources. The UE is only allowed to set this field for a band with associated FeatureSetUplinkId set to 0 and when srs-CarrierSwitch is supported on the band. offsetSRS-CB-PUSCH-PDCCH-MonitorAnyOccWithoutGap-f1-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. OffsetSRS-CB-PUSCH-PDCCH-MonitorAnyOccWithoutGap-f1-r16 Indicates whether UE requires minimum of 19 symbols offset between aperiodic SRS triggering and transmission for t	The UE indicating support of this feature shall also indicate support of <i>pdcch-Monitoring-r16</i> and <i>mTRP-PDCCH-Repetition-r17</i> . The UE indicating support of <i>mTRP-PDCCH-legacyMonitoring-r18</i> shall also				
### AuthTRP-r16 and mTRP-PDCCH-Repetition-r17. ### 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. ### UE indicating support of this shall indicate support of supportedSRS-Resources. The UE is only allowed to set this field for a band with associated FeatureSetUplinkId set to 0 and when srs-CarrierSwitch is supported on the band. ### OffsetSRS-CB-PUSCH-PDCCH-MonitorAnyOccWithGap-fr1-r16	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	FS	No	N/A	N/A
Indicates whether UE requires minimum of 19 symbols offset between aperiodic SRS triggering and transmission for SRS for codebook based PUSCH and antenna switching. UE indicating support of this shall indicate support of supportedSRS-Resources. The UE is only allowed to set this field for a band with associated FeatureSetUplinkId set to 0 and when srs-CarrierSwitch is supported on the band. 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 15 kHz, four OFDM symbols for 30 kHz, seven OFDM symbols for 15 kHz, four OFDM symbols for 120kHz between two consecutive transmissions of PDCCH scarmbled with C-RNTI, MCS-C-RNTI, or CS-RNTI for Type 1-PDCCH common search space, or for a UE-specific search space, with the capability of supporting at least 44, 36, 22, and 20 blind decodes in a slot for 15 kHz, 30 kHz, 60kHz, and 120 kHz subcarrier spacing values respectively. UE indicating support of this shall indicate support of pdcch-MonitoringAnyOccasions with value withDCl-Gap and supportedSRS-Resources. The UE is only allowed to set this field for a band with associated FeatureSetUplinkId set to 0 and when srs-CarrierSwitch is supported on the band. 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 configured by dedicated RRC signalling, for a Type 3-PDCCH common search space configured by dedicated RRC signalling, for a Type 3-PDCCH common search spac					
The UE is only allowed to set this field for a band with associated FeatureSetUplinkId set to 0 and when srs-CarrierSwitch is supported on the band. 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, or for a UE-specific search space, with the capability of supporting at least 44, 36, 22, and 20 blind decodes in a slot for 15 kHz, 30 kHz, 60kHz, and 120 kHz subcarrier spacing values respectively. UE indicating support of this shall indicate support of pdcch-MonitoringAnyOccasions with value withDCl-Gap and supportedSRS-Resources. The UE is only allowed to set this field for a band with associated offsetSRS-CB-PUSCH-PDCCH-MonitorAnyOccWithoutGap-fr1-r16 SRS triggering and transmission for the case of PDCCH search space configured by dedicated RRC signalling, for a Type 3-PDCCH common search space configured by dedicated RRC signalling, for a Type 3-PDCCH common search space configured by dedicated RRC signalling, for a Type 3-PDCCH common search space configured by dedicated RRC signalling, for a Type 3-PDCCH common search space configured by dedicated RRC signalling, for a Type 3-PDCCH common search space configured by dedicated RRC signalling, for a Type 3-PDCCH common search space configured by dedicated RRC signalling, for a Type 3-PDCCH common search space configured by dedicated RRC signalling, for a Type 3-PDCCH common search space configured by dedicated RRC signalling, for a Type 3-PDCCH common search space configured by dedicated RRC signalling for a Type 3-PDCCH commo	Indicates whether UE requires minimum of 19 symbols offset between aperiodic SRS triggering and transmission for SRS for codebook based PUSCH and antenna	FS	No	N/A	FR1 only
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. UE indicating support of this shall indicate support of pdcch-MonitoringAnyOccasions with value withDCI-Gap and supportedSRS-Resources. The UE is only allowed to set this field for a band with associated FeatureSetUplinkId set to 0 and when srs-CarrierSwitch is supported on the band. 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. UE indicating support of this shall indicate support of supportedSRS-Resources. The UE is only allowed to set this field for a band with associated	The UE is only allowed to set this field for a band with associated FeatureSetUplinkId set to 0 and when srs-CarrierSwitch is supported on the band.				
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. UE indicating support of this shall indicate support of supportedSRS-Resources. The UE is only allowed to set this field for a band with associated	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. UE indicating support of this shall indicate support of pdcch-MonitoringAnyOccasions with value withDCI-Gap and supportedSRS-Resources. The UE is only allowed to set this field for a band with associated FeatureSetUplinkId set to 0 and when srs-CarrierSwitch is supported on the band.				FR1 only
Feature Saturing at the Hand when ere-Larrier Switch is supported on the hand	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. UE indicating support of this shall indicate support of <i>supportedSRS-Resources</i> .	FS FS	No	N/A	FR1 only

offsetSRS-CB-PUSCH-PDCCH-MonitorAnyOccWithSpanGap-fr1-r16	FS	No	N/A	FR1
Indicates whether UE requires minimum of 19 symbols offset between aperiodic				only
SRS triggering and transmission for the case of PDCCH search space monitoring				
occasions in any symbol of the slot 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 <i>supportedSRS-Resources</i> .				
The UE is only allowed to set this field for a band with associated				
FeatureSetUplinkId set to 0 and when srs-CarrierSwitch is supported on the band.				
offsetSRS-CB-PUSCH-PDCCH-MonitorSingleOcc-fr1-r16	FS	No	N/A	FR1
Indicates whether UE requires minimum of 19 symbols offset between aperiodic				only
SRS triggering and transmission for SRS for codebook based PUSCH and antenna				
switching for the case of PDCCH monitoring on any span of up to 3 consecutive				
OFDM symbols of a slot.				
UE indicating support of this shall indicate support of <i>supportedSRS-Resources</i> .				
The UE is only allowed to set this field for a band with associated				
FeatureSetUplinkId set to 0 and when srs-CarrierSwitch is supported on the band.				
oneFL-DMRS-ThreeAdditionalDMRS-DL	FS	No	N/A	N/A
Defines whether the UE supports DM-RS pattern for DL transmission with 1 symbol	. •	'''		,, .
front-loaded DM-RS with three additional DM-RS symbols.				
oneFL-DMRS-TwoAdditionalDMRS-DL	FS	Yes	N/A	N/A
Defines support of DM-RS pattern for DL transmission with 1 symbol front-loaded				
DM-RS with 2 additional DM-RS symbols and more than 1 antenna ports.				
pdcch-Monitoring-r16	FS	No	N/A	N/A
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). pdcch-MonitoringAnyOccasions	FS	No	N/A	N/A
Defines the supported PDCCH search space monitoring occasions. without DCI-gap	13	INO	IN/A	IN/A
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, with DCI-gap indicates whether the UE supports PDCCH search				
space monitoring occasions in any symbol of the slot with minimum time separation				
of two OFDM symbols for 15 kHz, four OFDM symbols for 30 kHz, seven OFDM				
symbols for 60 kHz with NCP, and 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.	F0	N/-	NI/A	N1/A
pdcch-MonitoringAnyOccasionsWithSpanGap	FS	No	N/A	N/A
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.				
avinana vi aventuv iv iliee vi tiiv avinava ivi ivu eliv aevett vi tiiv aviilivia.				
Value set1 indicates the supported value set (X,Y) is (7,3), value set2 indicates the		1 '		
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 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
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	FS	No	N/A	N/A

pdcch-MonitoringMixed-r18 Indicates whether the UE support Rel-15 monitoring capability and pdcch-Monitoring-r16 monitoring capability on different serving cells.	FS	No	N/A	N/A
The UE supporting this feature shall also indicate support of <i>pdcch-Monitoring-r16</i> for (7,3) or (4,3) span based PDCCH monitoring.				
The UE supporting this feature shall also indicate support of <i>pdcch-MonitoringSpan2-2-r18</i> for (2, 2) span based PDCCH monitoring with additional restriction(s).				
When a UE reports both <i>pdcch-MonitoringMixed-r16</i> and this capability, the value reported in this capability is used if the configured span pattern of any serving cell satisfies <i>pdcch-MonitoringSpan2-2-r18</i> .				
pdcch-MonitoringSpan2-2-r18 Indicates support of (2, 2) span-based PDCCH monitoring with the additional restriction that there is at least one OFDM symbol gap between two PDCCH monitoring occasions.	FS	No	N/A	N/A
When a UE reports both <i>pdcch-Monitoring-r16</i> and this capability, the union of supported span patterns in <i>pdcch-Monitoring-r16</i> and this capability establishes the multiple combinations (X,Y) used to determine per-span BD/CCE limit as described in Clause 10 of TS 38.213 [11].				
pdcch-RACH-AffectedBands-TargetBandList-r18 Indicates whether interruption may occur on DL slot(s) on serving cells due to PDCCH-ordered RACH transmission towards target bands, as specified in TS 38.133 [5], clause 8.2.2.2.20.	FS	No	N/A	N/A
The band entry of this feature set corresponds to the band of the serving cell(s) that may be affected during PDCCH-ordered RACH transmission toward target band. Each entry in the list corresponds to a target band for RACH transmission.				
The target bands only consist of the bands indicated in appliedFreqBandListFilter. They are listed in the same order as in appliedFreqBandListFilter and the first entry correspond to the first entry on appliedFreqBandListFilter and so on. For those bands indicated in appliedFreqBandListFilter where the UE does not support PDCCH-ordered RACH towards target bands for LTM, it is up to UE implementation to select noInterruption or interruption for that element and this value is ignored, as UE does not report the support for the corresponding band in the capability rach-				
EarlyTA-Measurement-r18. A UE supporting this feature shall also indicate support of rach-EarlyTA-Measurement-r18.				
pdcch-RACH-PrepTime-TargetBandList-r18 Indicates the RF/BB preparation time for PDCCH ordered RACH of which the resources are not fully contained in any of UE's configured UL BWP(s) of active serving cells. If absent, the UE does not support PDCCH ordered RACH if the PRACH bandwidth is outside of any configured UL BWP, as specified in TS 38.133 [5], clause 6.2.2C.2. Each entry in the list corresponds to a target band for RACH transmission. If an entry is set to notSupported, the UE does not support PDCCH ordered RACH if the PRACH bandwidth is outside of any configured UL BWP in that target band. The target bands only consist of the bands indicated in appliedFreqBandListFilter. They are listed in the same order as in appliedFreqBandListFilter and the first entry correspond to the first entry on appliedFreqBandListFilter and so on. A UE supporting this feature shall also indicate support of rach-EarlyTA-Measurement-r18. A UE that sets pdcch-RACH-SwitchingTime-TargetBandList to a value different from notSupported for a target band also sets pdcch-RACH-PrepTime-TargetBandList to a value different from notSupported for that target	FS	No	N/A	N/A
band.				

pdcch-RACH-Switching-TargetBandTimeList-r18 Indicates the interruption length (Y ms) due to RF re-tuning for PDCCH ordered RACH of which the resources are not fully contained in any of UE's configured UL BWP(s) of active serving cells, if absent, the UE does not support PDCCH ordered RACH if the PRACH bandwidth is outside of any configured UL BWP, as specified in TS 38.133 [5], clause 8.2.2.2.20.	FS	No	N/A	N/A
Each entry in the list corresponds to a target band for RACH transmission. If an entry is set to <i>notSupported</i> , the UE does not support PDCCH ordered RACH if the PRACH bandwidth is outside of any configured UL BWP in that target band. The target bands only consist of the bands indicated in <i>appliedFreqBandListFilter</i> . They are listed in the same order as in <i>appliedFreqBandListFilter</i> and the first entry correspond to the first entry on <i>appliedFreqBandListFilter</i> and so on.				
A UE supporting this feature shall also indicate support of rach-EarlyTA-Measurement-r18. A UE that sets pdcch-RACH-PrepTime-TargetBandList to a value different from notSupported for a target band also sets pdcch-RACH-SwitchingTime-TargetBandList to a value different from notSupported for that target band.				
pdsch-1PortDL-PTRS-r18 Indicates whether the UE supports 1 port DL PTRS for enhanced DMRS ports for PDSCH with rank 1-8. A UE supporting this feature shall also indicate support of pdsch-TypeA-DMRS-r18.	FS	No	N/A	N/A
pdsch-2PortDL-PTRS-r18 Indicates whether the UE supports 2 port DL PTRS for enhanced DMRS ports for PDSCH with rank 1-8. A UE supporting this feature shall also indicate support of pdsch-TypeA-DMRS-r18	FS	No	N/A	N/A
or pdsch-TypeB-DMRS-r18. pdsch-1SymbolFL-DMRS-Addition2Symbol-r18 Indicates whether the UE supports 1 symbol FL DMRS and 2 additional DMRS symbols for more than one port for enhanced DMRS ports for PDSCH. A UE supporting this feature shall also indicate support of pdsch-TypeA-DMRS-r18 and mappingTypeA-1SymbolFL-DMRS-Addition2Symbol-r18.	FS	No	N/A	N/A
pdsch-1SymbolFL-DMRS-Addition3Symbol-r18 Indicates whether the UE supports 1 symbol FL DMRS and 3 additional DMRS symbols for enhanced DMRS ports for PDSCH. A UE supporting this feature shall also indicate support of pdsch-TypeA-DMRS-r18.	FS	No	N/A	N/A
pdsch-2SymbolFL-DMRS-r18 Indicates whether the UE supports 2 symbols FL-DMRS for enhanced DMRS ports for PDSCH. A UE supporting this feature shall also indicate support of pdsch-TypeA-DMRS-r18.	FS	No	N/A	N/A
pdsch-2SymbolFL-DMRS-Addition2Symbol-r18 Indicates whether the UE supports 2-symbol FL DMRS + one additional 2-symbols DMRS for enhanced DMRS ports for PDSCH. A UE supporting this feature shall also indicate support of pdsch-TypeA-DMRS-r18.	FS	No	N/A	N/A
pdsch-AlternativeDMRS-Coexistence-r18 Indicates whether the UE supports alternative additional DMRS position for coexistence with LTE CRS for enhanced DMRS ports for PDSCH. A UE supporting this feature shall also indicate support of pdsch-TypeA-DMRS-r18 and rateMatchingLTE-CRS.	FS	No	N/A	N/A
pdsch-DMRS-Type-r18 Indicates whether the UE supports DMRS type for enhanced DMRS ports for PDSCH. A UE supporting this feature shall also indicate support of pdsch-TypeA-DMRS-r18. NOTE: A UE supporting one of pdsch-TypeA-DMRS-r18 and pdsch-TypeB-	FS	CY	N/A	N/A
DMRS-r18 must signal this feature. pdsch-ProcessingType1-DifferentTB-PerSlot 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.	FS	No	N/A	N/A

 pdsch-ProcessingType2 Indicates whether the UE supports PDSCH 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 PDSCH 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; differentTB-PerSlot indicates whether the UE supports processing type 2 for 1, 2, 4 and/or 7 unicast PDSCHs for different transport blocks per slot per CC; and if so, it indicates up to which number of CA serving cells the UE supports that number of unicast PDSCHs for different TBs. The UE shall include at least one of numberOfCarriers for 1, 2, 4 or 7 transport blocks per slot in this field if pdsch-ProcessingType2 is indicated. 	FS	No	N/A	FR1 only
siot in this held if pascin-riocessing typez is indicated.				
 pdsch-ProcessingType2-Limited Indicates whether the UE supports PDSCH processing capability 2 with scheduling limitation for SCS 30kHz. This capability signalling comprises the following parameter. differentTB-PerSlot-SCS-30kHz indicates the number of different TBs per slot. 	FS	No	N/A	FR1 only
 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) N4 based on Table 5.3.2 of TS 38.314 [13] for SCS 30 kHz 				
3) N1 based on Table 5.3-2 of TS 38.214 [12] for SCS 30 kHz.				
pdsch-ReceptionSchemeA-r18 Indicates whether the UE supports reception of PDSCH without the scheduling restriction for Rel-18 eType1 DMRS ports for PDSCH with fdmSchemeA. A UE supporting this feature shall also indicate support of pdsch-TypeA-DMRS-r18 or pdsch-TypeB-DMRS-r18.	FS	No	N/A	N/A
pdsch-ReceptionSchemeB-r18 Indicates whether the UE supports reception of PDSCH without the scheduling restriction for Rel-18 eType1 DMRS ports for PDSCH with fdmSchemeB. A UE supporting this feature shall also indicate support of pdsch-TypeA-DMRS-r18 or pdsch-TypeB-DMRS-r18.	FS	No	N/A	N/A
pdsch-ReceptionWithoutSchedulingRestriction-r18 Indicates whether the UE supports reception of PDSCH without the scheduling restriction for eType1 DMRS ports.	FS	No	N/A	N/A
A UE supporting this feature shall also indicate support of <i>pdsch-TypeA-DMRS-r18</i> . NOTE: If this feature is not supported, UE expects that gNB shall apply at least the following scheduling restriction for PDSCH for FD-OCC 4 in eType 1				
DMRS: 1) The number of consecutively scheduled PRBs for PDSCH is even; 2) The number of PRBs offset of scheduled PDSCH from point A (common resource block 0) is even.			• • • • • • • • • • • • • • • • • • • •	
pdsch-SeparationWithGap 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.	FS	No	N/A	N/A
pdsch-TypeA-DMRS-r18 Indicates whether the UE supports basic feature of Rel-18 enhanced DMRS ports for PDSCH for scheduling of mapping type A, including 1 symbol FL DMRS without additional symbol(s) and 1 symbol FL DMRS and 1 additional DMRS symbol.	FS	No	N/A	N/A

pdsch-TypeB-DMRS-r18 Indicates whether the UE supports basic feature of Rel-18 enhanced DMRS ports for PDSCH for scheduling of mapping type B, including 1 symbol FL DMRS without additional symbol(s) and 1 symbol FL DMRS and 1 additional DMRS symbol.	FS	No	N/A	N/A
prs-AsSpatialRelationRS-For-SRS-r17 Indicates whether the UE supports PRS as spatial relation RS for SRS. A UE supporting this feature shall also indicate support of rtt-BasedPDC-PRS-r17.	FS	No	N/A	FR2 only
rtt-BasedPDC-CSI-RS-ForTracking-r17 Indicates whether the UE supports RTT-based propagation delay compensation for 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.	FS	No	N/A	N/A
 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. 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 supportedSRS-Resources. 	FS	No	N/A	N/A
scalingFactor Indicates the scaling factor to be applied to the serving cell in the max data rate calculation when mcs-Table-r17 and mcs-TableDCI-1-2-r17 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-	FS	No	N/A	FR1 only
FR1-r17 or pdsch-1024QAM-2MIMO-FR1-r17 to the band. scellWithoutSSB Defines whether the UE supports configuration of SCell that does not transmit	FS	CY	N/A	N/A
SS/PBCH block for intra-band CA. This is conditionally mandatory with capability signalling for intra-band CA.				
 scellWithoutSSB-InterBandCA-r18 Indicates whether the UE supports SCell without SS/PBCH block for inter-band CA. For each band within the band combination, UE indicates if it supports the interband SSB-less SCell operation with supportOfSingleGroup or supportOfMultipleGroups: For supportOfSingleGroup, the band indicated as 'referenceBand' can be configured as the reference band for all other band(s) indicated as 'scellWithoutSSB'. The band indicated as 'both' can be configured as either a reference band or an SSB-less band. If the UE indicates "both" for any band, the UE shall not indicate 'referenceBand' or 'scellWithoutSSB' in any other band in the band combination. For supportOfMultipleGroups, the band indicated as 'referenceBand1' can be configured as the reference band for all other band(s) indicated as 'scellWithoutSSB1', and the band indicated as 'referenceBand2' can be configured as the reference band for all other band(s) indicated as 'scellWithoutSSB2'. 	FS	No	N/A	FR1 only
If the field <i>scellWithoutSSB-InterBandCA-r18</i> is absent for a band, this band is not involved in the inter-band SSB-less SCell operation. If the inter-band SSB-less SCell operation is supported between two bands, it is understood that there is no direction between the two bands, which means that the network can configure either band as the reference band and the other band as the SSB-less band.				

searchSpaceSharingCA-DL Defines whether the UE supports DL PDCCH search space sharing for carrier	FS	No	N/A	N/A
aggregation operation. sfn-SchemeA-r17 Indicates whether the UE supports SFN scheme A for PDCCH scheduling SFN	FS	No	N/A	N/A
Scheme A PDSCH. sfn-SchemeA-DynamicSwitching-r17	FS	No	N/A	N/A
Indicates whether the UE supports dynamic switching between single-TRP and PDSCH SFN scheme A by TCI state field in DCI formats 1_1 and 1_2. The UE supporting this feature shall indicate <i>sfn-SchemeA-r17</i> or <i>sfn-SchemeA-PDSCH-only-r17</i> .				
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
simulDMRS-PDSCH-r18 Indicates whether the UE supports Rel-18 DMRS and PDSCH processing capability 2 simultaneously. Additional processing relaxation d₃ independently for each SCS in unit of symbols is reported. A UE supporting this feature shall also indicate support of pdsch-TypeA-DMRS-r18, pdsch-TypeB-DMRS-r18, pdsch-ProcessingType2 and pdsch-ProcessingType2-Limited.	FS	No	N/A	N/A
NOTE: PDSCH processing additional processing relaxation d ₃ follows <i>pdsch-ProcessingType2</i> for UE PDSCH processing capability #2, <i>pdsch-ProcessingType2-Limited</i> , <i>pdsch-ProcessingType2</i> up to 2/4/7 unicast PDSCHs per slot per CC for different TBs for UE processing time capability #2.				
singleDCI-SDM-scheme-r16 Indicates whether the UE supports single DCI based spatial division multiplexing scheme.	FS	No	N/A	N/A
sps-Multicast-r17 Indicates whether the UE supports SPS group-common PDSCH for multicast on PCell, comprised of the following functional components: - Supports one SPS group-common PDSCH configuration for multicast; - Supports {2, 4, 8} times semi-static slot-level repetition for SPS group-	FS	No	N/A	N/A
common PDSCH; - 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 DCF format 4_T with CRC scrambled with G-CS-RNTH 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 <i>dynamicMulticastPCell-</i> r17.				
NOTE: One G-CS-RNTI per UE is supported for multicast reception.				

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. The UE is only allowed to set this field for a band with associated <i>FeatureSetUplinkId</i> set to 0 and when <i>srs-CarrierSwitch</i> is supported on the band.				
srs-AntennaSwitching8T8R2SP-1Periodic-r18 Indicates whether the UE supports maximum 2 SP SRS resource sets and maximum 1 periodic SRS resource set for 8T8R antenna switching. A UE supporting this feature shall also indicate support of srs-AntennaSwitching8T8R-r18.	FS	No	N/A	N/A
NOTE 1: If UE does not support this feature, support maximum one SRS resource set for periodic SRS and maximum one SRS resource set for semi-persistent SRS.				
NOTE 2: The two SP-SRS resource sets are not activated at the same time. The UE is only allowed to set this field for a band with associated FeatureSetUplinkId set to 0 and when srs-CarrierSwitch is supported on the band.				
srs-ExtensionAperiodicSRS-r17 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. The UE is only allowed to set this field for a band with associated FeatureSetUplinkId set to 0 and when srs-CarrierSwitch is supported on the band.	FS	No	N/A	N/A
srs-OneAP-SRS-r17 Indicates whether the UE supports 1 aperiodic SRS resource sets for 1T4R. The UE indicating support of this feature shall also indicate the support of srs-StartAnyOFDM-Symbol-r16 and srs-TxSwitch. The UE is only allowed to set this field for a band with associated FeatureSetUplinkId set to 0 and when srs-	FS	No	N/A	N/A
CarrierSwitch is supported on the band.				

supportedSRS-Resources Defines support of SRS resources for SRS carrier switching for a band without associated FeatureSetuplink. The capability signalling comprising indication of: - maxNumberAperiodicSRS-PerBWP indicates supported maximum number of aperiodic SRS resources that can be configured for the UE per each BWP	FS	FD	N/A	N/A
 maxNumberAperiodicSRS-PerBWP-PerSlot indicates supported maximum number of aperiodic SRS resources per slot in the BWP 				
 maxNumberPeriodicSRS-PerBWP indicates supported maximum number of periodic SRS resources per BWP 				
 maxNumberPeriodicSRS-PerBWP-PerSlot indicates supported maximum number of periodic SRS resources per slot in the BWP 				
 maxNumberSemiPersistentSRS-PerBWP indicate supported maximum number of semi-persistent SRS resources that can be configured for the UE per each BWP 				
 maxNumberSemiPersistentSRS-PerBWP-PerSlot indicates supported maximum number of semi-persistent SRS resources per slot in the BWP 				
 maxNumberSRS-Ports-PerResource indicates supported maximum number of SRS antenna port per each SRS resource 				
If the UE indicates the support of srs-CarrierSwitch for this band and this field is absent, the UE supports one periodic, one aperiodic, no semi-persistent SRS resources per BWP per slot and one SRS antenna port per SRS resource.				
timeDurationForQCL, timeDurationForQCL-v1710 Defines minimum number of OFDM symbols required by the UE to perform PDCCH reception and applying spatial QCL information received in DCI for PDSCH processing as described in TS 38.214 [12] clause 5.1.5. The number of OFDM symbols is measured from the end of the last symbol of the PDCCH reception to the start of the first symbol of the PDSCH reception. UE shall indicate one value of the minimum number of OFDM symbols per each subcarrier spacing of 60kHz, 120kHz, 480kHz and 960kHz.	FS	Yes	N/A	FR2 only
twoFL-DMRS-TwoAdditionalDMRS-DL Defines whether the UE supports DM-RS pattern for DL transmission with 2 symbols front-loaded DM-RS with one additional 2 symbols DM-RS.	FS	No	N/A	N/A
type1-3-CSS Defines whether the UE is able to receive PDCCH in FR2 in a Type1-PDCCH common search space configured by dedicated RRC signalling, in a Type3-PDCCH common search space or a UE-specific search space if those are associated with a CORESET with a duration of 3 symbols.	FS	Yes	N/A	FR2 only
ue-SpecificUL-DL-Assignment Indicates whether the UE supports dynamic determination of UL and DL link direction and slot format based on Layer 1 scheduling DCI and higher layer configured parameter TDD-UL-DL-ConfigDedicated as specified in TS 38.213 [11]. This capability is not applicable to NCR-MT.	FS	No	N/A	N/A
zeroSlotOffsetAperiodicSRS Indicates whether the UE supports 0 slot offset between aperiodic SRS triggering and transmission, for SRS for CB PUSCH and antenna switching on FR1. The UE is only allowed to set this field for a band with associated FeatureSetUplinkId set to 0 and when srs-CarrierSwitch is supported on the band.	FS	No	N/A	N/A

4.2.7.6 FeatureSetDownlinkPerCC parameters

Definitions for parameters	Per	М	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				
broadcastNonServingCell-r18 Indicates whether the UE supports simultaneous MBS broadcast reception on a non-serving cell on this CC and unicast/multicast reception on other CCs within the same band combination in RRC_CONNECTED.	FSPC	No	N/A	N/A
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
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.	FSPC	No	N/A	N/A
NOTE: UE is not expected to be configured simultaneously with more than one component carrier for multicast reception.				
fdm-BroadcastUnicast-r17 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.				
Indicates whether the UE supports overlapping PDSCH reception that one dynamically scheduled unicast PDSCH and one dynamically scheduled group-common PDSCH for multicast in RRC CONNECTED in a slot are partially or fully overlapping in time domain and non-overlapping in frequency domain.	FSPC	No	N/A	N/A
A UE supporting this feature shall also indicate support of <i>dynamicMulticastPCell-</i> r17, or at least one of {ack-NACK-FeedbackForSPS-Multicast-r17, nack-OnlyFeedbackForSPS-Multicast-r17}.				
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) TDMe 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 pdsch-ProcessingType1-DifferentTB-PerSlot; Up to one broadcast PDSCH is supported in a slot. 	d			
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 indicat support of <i>pdsch-ProcessingType1-DifferentTB-PerSlot</i> .	е			
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.				
 maxModulationOrderForMulticastDataRateCalculation-r17 Defines the maximum modulation order used for maximum data rate calculation for multicast PDSCH in RRC_CONNECTED. 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}. 		No	N/A	N/A
A UE supporting this feature shall also indicate support of <i>dynamicMulticastPCell- r17</i> .				
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 (except for FR2-NTN). If supportOf2RxXR is indicated, for single CC standalone NR, it is mandatory with capability signalling to support 2 MIMO layers in the bands specified in Table 7.3.2-2b in TS 38.101-1 [2]. If absent, the UE does not support MIMO on this carrier.		CY	N/A	N/A
For the bands where <i>pdsch-1024QAM-2MIMO-FR1-r17</i> is indicated, MIMO layers for 1024 QAM is the smaller value between 2 and <i>maxNumberMIMO-LayersPDSCH.</i>				
maxNumberMIMO-LayersMulticastPDSCH-r17	FSPC	No	N/A	N/A
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.				
for multicast PDSCH. If not reported, UE supports 1 MIMO layer only for multicast				

multiDCI-InterCellMultiTRP-TwoTA-r18 Indicates whether the UE supports two TA enhancement for multi-DCI based intercell Multi-TRP operation by indicating the maximum number {1,2} of n-TimingAdvanceOffset value per serving cell. A UE supporting this feature shall also indicate support of mTRP-inter-Cell-r17 and	FSPC	No	N/A	N/A
tci-JointTCI-UpdateSingleActiveTCI-PerCC-PerCORESET-r18.				
NOTE: If a UE does not report maxNumberTAG-AcrossCC-r18,				
supportedNumberTAG is applied.				
multiDCI-IntraCellMultiTRP-TwoTA-r18 Indicates whether the UE supports two TA enhancement for multi-DCI based intra-	FSPC	No	N/A	N/A
cell Multi-TRP operation.				
A UE supporting this feature shall also indicate support of <i>multiDCI-MultiTRP-r16</i> .				
NOTE: If a UE does not report maxNumberTAG-AcrossCC-r18,				
supportedNumberTAG is applied.	5000		21/2	21/2
multiDCI-MultiTRP-r16 Indicates whether the UE supports multi-DCI based multi-TRP PDSCH/PUSCH	FSPC	No	N/A	N/A
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:				
many Aliverton and ODECCET and Conditionation are extensive and and an ODECCET				
 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 <i>coresetPoolIndex</i> per BWP per cell in addition to				
CORESET 0 for multi-DCl based multi-TRP PDSCH/PUSCH operation. - maxNumberUnicastPDSCH-PerPool-r16 indicates maximum number of				
unicast PDSCHs per <i>coresetPoolIndex</i> per slot.				
NOTE 1: A UE may assume that its maximum receive timing difference between				
the DL transmissions from two TRPs is within a Cyclic Prefix.				
NOTE 2: Processing capability 2 is not supported in any CC if at least one CC is configured with two values of <i>coresetPoolIndex</i> .				
NOTE 3: If UE reports value N1 for <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 maxNumberCORESETPerPoolIndex-r16, 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.				
multiDCI-MultiTRP-CORESET-Monitoring-r18	FSPC	No	N/A	FR2
Indicates whether the UE supports determining two QCL-TypeD for time-domain				only
overlapping CORESETs in the same CC or for intra-band CA associated with				
coresetPoolIndex value 0 and 1. The UE supporting this feature shall also indicate support of <i>multiDCI-MultiTRP-r16</i> .				
rxTimingDiff-r18	FSPC	No	N/A	N/A
Indicates whether the UE supports the Rx timing difference between the two DL		110	14// 1	''
reference timings is larger than CP length.				
schedulingMeasurementRelaxation-r18	FSPC	No	TDD	FR2-
Indicates whether the UE supports simultaneous reception of CSI-RS for layer 1 measurement and PDSCH with different QCL Type-D on overlapping OFDM			only	only
symbols and simultaneous layer 1 measurement of CSI-RS overlapping with				
another CSI-RS with different QCL Type-D on overlapping OFDM symbol(s).				
A UE supporting this feature shall also indicate support of simultaneousReceptionDiffTypeD-r16, mTRP-GroupBasedL1-RSRP-r17, and at				
least one of multiDCI-MultiTRP-r16, singleDCI-SDM-scheme-r16, supportFDM-				
SchemeA-r16 and supportFDM-SchemeB-r16.				
NOTE: It can be supported for PC3 only.				

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
for multicast for Scell, comprised of the following functional components.				
 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, supportedBandwidthDL-v1780, supportedBandwidthDL-v1840	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] / TS 38.101-5 [34] for FR1 and Table 5.3.5-1 in TS 38.101-2 [3] / Table 5.3.5-2 in TS 38.101-5 [34] for FR2. For FR1, all the bandwidths listed in TS 38.101-1 [2] / TS 38.101-5 [34], Table				
5.3.5-1 for each band shall be mandatory with a single CC unless indicated optional. For FR2 (except for FR2-NTN), the set of mandatory CBW is 50, 100, 200				
MHz. For FR2-NTN, the set of mandatory CBW is 50, 100 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], TS 38.101-2 [3], and TS 38.101-5 [34]. 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-v1710</i> ignores the <i>supportedBandwidthDL</i> .				
When the supportedBandwidthDL and the supportedBandwidthDL-v1840 are reported together for a CC, the network which is able to decode the supportedBandwidthDL-v1840 ignores the supportedBandwidthDL.				
The UE may report a <i>supportedBandwidthDL</i> wider than the <i>channelBWs-DL</i> ; this <i>supportedBandwidthDL</i> may not be included in the Table 5.3.5-1 of TS 38.101-1 [2]				
/ TS 38.101-2[3] / TS 38.101-5 [34] and Table 5.3.5-2 of TS 38.101-5 [34] 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] / TS 38.101-5 [34] and Table 5.3.5-2 of TS 38.101-5 [34]. For each band, (e)RedCap UEs shall indicate its maximum channel bandwidth, which is the maximum of those channel bandwidths				
that are less than or equal to 20 MHz for FR1 and less than or equal to 100 Mhz for FR2, taking restrictions in TS 38.101-1 [2] and TS 38.101-2 [3] into consideration.				
The supportedBandwidthDL-v1780 is only applicable to Bandwidth Combination Set 5 (BCS5) of FR1 NR CA (including NR CA part of (NG)EN-DC and NE-DC) and FR1 NR-DC. If the UE reports supportedAggBW-FR1-r17, the UE shall report supportedBandwidthDL-v1780.				
NOTE: See the note in the field decription of <i>channelBWs-DL</i> for the determination of supported DL channel bandwidth.				

supportedCRS-InterfMitigation-r17	FSPC	No	No	FR1 only
supportedMinBandwidthDL-r17, supportedMinBandwidthDL-v1840 Indicates minimum DL channel bandwidth supported for a given SCS that UE supports within a single CC (and in case of intra-frequency DAPS handover for the source and target cells), which is defined in Table 5.3.5-1 in TS 38.101-1 [2] for FR1 and Table 5.3.5-1 in TS 38.101-2 [3] for FR2. This parameter is only applicable to the Bandwidth Combination Set 5 (BCS5). The UE shall indicate this parameter for at least one CC of a BCS5 band combination. This field does not restrict the bandwidths configured for a single CC (i.e. non-CA case).	FSPC	CY	N/A	N/A

supportedModulationOrderDL Indicates the maximum supported modulation order to be applied for downlink in the carrier in the max data rate calculation as defined in 4.1.2. If included, the network may use a modulation order on this serving cell which is higher than the value indicated in this field as long as UE supports the modulation of higher value for downlink. If not included: - for FR1, the network uses the modulation order signalled per band i.e.	FSPC	No	N/A	N/A
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 (e)RedCap UE, IAB-MT, or NCR-MT.				
- 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 (<i>DataRate</i>) and max data rate per CC (<i>DataRateCC</i>) according to TS 38.214 [12].				
supportedSubCarrierSpacingDL	FSPC	CY	N/A	N/A
Defines the supported sub-carrier spacing for DL by the UE, as defined in clause 4.2-1 of TS 38.211 [6], indicating the UE supports simultaneous reception with same or different numerologies in CA. Support of simultaneous reception with same numerology for intra-band NR CA including both contiguous and non-contiguous is mandatory with capability in both FR1 and FR2. Support of simultaneous reception with two different numerologies between FR1 band(s) and FR2 band(s) in DL is mandatory with capability if UE supports inter-band NR CA including both FR1 band(s) and FR2 band(s). Optional for other cases. Support of simultaneous reception of with different numerologies in CA for other cases is optional.				
supportFDM-SchemeB-r16	FSPC	No	N/A	N/A
Indicates whether UE supports single DCI based FDMSchemeB.				

4.2.7.7 FeatureSetUplink parameters

Definitions for parameters	Per	M	FDD- TDD DIFF	FR1- FR2 DIFF
additionalTime-CB-8TxPUSCH-r18 Indicates whether the UE supports 8Tx PUSCH additional timeline for codebook based 8TxPUSCH. A UE supporting this feature shall also indicate support of codebook-8TxBasic-r18. NOTE: UE reports the processing capability independently for each SCS in unit of symbols, where SCS is the minimum between SCS of the scheduling DCI and SCS of the scheduled PUSCH. This capability is reported by UE only when UE reports {5,6,7,8} as the maximum number of PUSCH MIMO layers.	FS	No	N/A	N/A
additionalTime-NonCB-8TxPUSCH-r18 Indicates whether the UE supports 8Tx PUSCH additional timeline for non-codebook based 8TxPUSCH. A UE supporting this feature shall also indicate support of nonCodebook-8TxPUSCH-r18. NOTE: UE reports the processing capability independently for each SCS in unit of symbols, where SCS is the minimum between SCS of the scheduling DCI and SCS of the scheduled PUSCH. This capability is reported by UE only when UE reports {5,6,7,8} as the maximum number of PUSCH MIMO layers.	FS	No	N/A	N/A
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-Repetition-F0-1-2-3-4-RRC-Config-r17. 	FS	No	N/A	N/A

intraBandFreqSeparationUL, intraBandFreqSeparationUL-v1620 Indicates UL frequency separation class the UE supports, which indicates a	FS	CY	N/A	FR2 only
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. intraFreqDAPS-UL-r16	FS	No	N/A	N/A
Indicates whether UE supports enhanced uplink capabilities for intra-frequency	го	INO	IN/A	IN/A
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:				
signaling comprises of the following parameter.				
- intraFreqTwoTAGs-DAPS-r16 indicates whether the UE supports different				
timing advance groups in source PCell and intra-frequency target PCell. It is				
mandatory with capability signalling. maxDelayValueBeyondD-Basic-r18	FS	No	N/A	N/A
Indicates whether the UE supports maximum delay value larger than D_basic =1	. 0	110	14// (14// (
slot. Value s/2 denotes 2 slots, value s/3 denotes 3 slots, value s/4 denotes 4 slots,				
value <i>sl5</i> denotes 5 slots, value <i>sl6</i> denotes 6 slots, value <i>sl10</i> denotes 10 slots. A UE supporting this feature shall also indicate support of <i>tdcp-Report-r18</i> .				
NOTE: 10 slots is only applicable for SCS >= 30 kHz, and 6 slots is maximum for				
SCS = 15 kHz.				
maxNumberTDCP-PerBWP-r18 Indicates the maximum number of CSI-ReportConfig with reportQuantity configured	FS	No	N/A	N/A
as "tdcp", configured with resourcesForChannelMeasurement linked to a same				
BWP ID.				
A UE supporting this feature shall also indicate support of tdcp-Report-r18. maxNumberTRS-ResourceSet-r18	FS	No	N/A	N/A
Indicates the maximum number of TRS resource sets in a single CSI-RS resource	гъ	INO	IN/A	IN/A
setting.				
A UE supporting this feature shall also indicate support of tdcp-Report-r18. mTRP-PUCCH-IntraSlot-r17		Nia	NI/A	NI/A
Indicates whether the UE supports PUCCH repetition scheme 3 (intra-slot	FS	No	N/A	N/A
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				
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	FS	No	N/A	N/A
PUSCH repetition type A. The value indicates the supported 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 UE indicating support of this feature shall also indicate the support of <i>mimo-CB</i> -				
PUSCH. If the value of supported number of SRS resources is 4 then the UE shall				
also indicate support of ul-FullPwrMode2-MaxSRS-ResInSet set to n4.		Nia	NI/A	NI/A
mTRP-PUSCH-RepetitionTypeA-r17 Indicates whether the UE supports multi-TRP PUSCH repetition for non-codebook	FS	No	N/A	N/A
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 <i>maxNumberMIMO</i> -				
LayersNonCB-PUSCH and mimo-NonCB-PUSCH.				

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
- sub-SlotConfig-ECP-r16 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 supportedSRS-Resources.				
offsetSRS-CB-PUSCH-PDCCH-MonitorSingleOcc-fr1-r16 Indicates whether UE requires minimum of 19 symbols offset between aperiodic SRS triggering and transmission for SRS for codebook based PUSCH and antenna switching for the case of PDCCH monitoring on any span of up to 3 consecutive OFDM symbols of a slot.	FS	No	N/A	FR1 only
UE indicating support of this shall indicate support of supportedSRS-Resources. offsetSRS-CB-PUSCH-PDCCH-MonitorAnyOccWithoutGap-fr1-r16	FS	No	N/A	FR1
Indicates whether UE requires minimum of 19 symbols offset between aperiodic 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.				only
UE indicating support of this shall indicate support of supportedSRS-Resources.				
offsetSRS-CB-PUSCH-PDCCH-MonitorAnyOccWithGap-fr1-r16 Indicates whether UE requires minimum of 19 symbols offset between aperiodic SRS triggering and transmission for SRS for codebook based PUSCH and antenna switching for the case of PDCCH search space monitoring occasions in any symbol of the slot with minimum time separation of two OFDM symbols for 15 kHz, four OFDM symbols for 30 kHz, seven OFDM symbols for 60 kHz with NCP, and 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	FR1 only
UE indicating support of this shall indicate support of pdcch- MonitoringAnyOccasions with value withDCI-Gap and supportedSRS-Resources.				
offsetSRS-CB-PUSCH-PDCCH-MonitorAnyOccWithSpanGap-fr1-r16 Indicates whether UE requires minimum of 19 symbols offset between aperiodic SRS triggering and transmission for the case of PDCCH search space monitoring occasions in any symbol of the slot with minimum time separation between two consecutive transmissions of PDCCH with span up to two OFDM symbols for two OFDM symbols or span up to three OFDM symbols for four and seven OFDM symbols. Value set1 indicates the supported value set (X,Y) is (7,3), value set2 indicates the supported value set (X,Y) is (4,3) and (7,3) and value set 3 indicates the supported value set (X,Y) is (2,2), (4,3) and (7,3).	FS	No	N/A	FR1 only
UE indicating support of this shall indicate support of supportedSRS-Resources.				

pa-PhaseDiscontinuityImpacts Indicates incapability motivated by impacts of PA phase discontinuity with overlapping transmissions with non-aligned starting or ending times or hop boundaries across carriers for intra-band (NG)EN-DC/NE-DC, intra-band CA and FDM based ULSUP.	FS	No	N/A	N/A
 This capability applies to: Intra-band (NG)EN-DC/NE-DC combination without additional inter-band NR and LTE CA component; Intra-band (NG)EN-DC/NE-DC combination supporting both UL and DL intra-band (NG)EN-DC/NE-DC parts with additional inter-band NR/LTE CA component; Inter-band (NG)EN-DC/NE-DC combination, where the frequency range of the E-UTRA band is a subset of the frequency range of the NR band (as specified in Table 5.5B.4.1-1 of TS 38.101-3 [4]). 				
If this capability is included in an "Intra-band (NG)EN-DC/NE-DC combination supporting both UL and DL intra-band (NG)EN-DC/NE-DC parts with additional inter-band NR/LTE CA component", this capability applies to the intra-band (NG)EN-DC/NE-DC BC part.				
 partialCancellationPUCCH-PUSCH-PRACH-TX-r16 Indicates whether UE supports the partial cancellation of the configured PUCCH or PUSCH or PRACH transmission in set of symbols of a slot due to: Detection of a DCI format 2_0 with a slot format value other than 255 that 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
phaseReportMoreThanOne-r18 Indicates whether the UE supports phase report for Y>=1. A UE supporting this feature shall also indicate support of tdcp-Report-r18.	FS	No	N/A	N/A
 phy-PrioritizationHighPriorityDG-LowPriorityCG-r17 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. 	FS	No	N/A	N/A

 phy-PrioritizationLowPriorityDG-HighPriorityCG-r17 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. The value indicates maximum number of supported carriers on the band across a 	FS	No	N/A	N/A
set of contiguous carriers for the reported FS of that band. posSRS-BWA-AffectedBandList-r18 Indicates which other bands in the band combination are affected due to the need of a guard period.	FS	No	N/A	N/A
UE indicating support of this shall indicate support one of posSRS-BWA-IndependentCA-RRC-Connected-r18 and posSRS-BWA-RRC-Inactive-r18.				
NOTE 1: Guard period is needed before and after the aggregated SRS transmissions when SRS resource is configured within a CC without PUSCH/PUCCH is linked for aggregation with an SRS resource configured within an UL active BWP of a UL communication CC.				
NOTE 2: UE may indicate no other bands in the band combination are affected by the SRS switch, in which case, only the band with the aggregated SRS transmissions is affected.				

maximumAggregatedBW-TwoCarriesFR1-r18 indicates the maximum aggregated SRS bandwidth in MHz for two aggregated carriers for FR1, which is supported and reported by UE. maximumAggregatedBW-TwoCarriesFR2-r18 indicates the maximum aggregated SRS bandwidth in MHz for two aggregated carriers for FR2, which is supported and reported by UE. maximumAggregatedBW-TwrecCarriersFR2-r18 indicates the maximum aggregated SRS bandwidth in MHz for three aggregated carriers for FR1, which is supported and reported by UE. maximumAggregatedBW-ThreeCarriersFR2-r18 indicates the maximum aggregated SRS bandwidth in MHz for three aggregated carriers for FR1, which is supported and reported by UE. maximumAggregatedBW-ThreeCarriersFR2-r18 indicates the maximum aggregated SRS resource sets for bree aggregated carriers for FR2, which is supported and reported by UE. maximumAggregatedResourceSet-r18 indicates the max number of aggregated SRS resources ests for positioning supported by UE for SRS bandwidth aggregation, which is supported and reported by UE. maximumAggregatedResourcePeriodic-r18 indicates the maximum number of aggregated periodic SRS resources for bandwidth aggregation, which is supported and reported by UE. maximumAggregatedResourceSemi-r18 indicates the maximum number of aggregated aperiodic SRS resources for bandwidth aggregation, which is supported and reported by UE. maximumAggregatedResourceSemi-r18 indicates the maximum number of aggregated periodic SRS resources for bandwidth aggregation per slot, which is supported and reported by UE. maximumAggregatedResourceSemiPerSlot-r18 indicates the maximum number of aggregated periodic SRS resources for bandwidth aggregation per slot, which is supported and reported by UE. maximumAggregatedResourceSemiPerSlot-r18 indicates the maximum number of aggregated periodic SRS resources for bandwidth aggregation per slot, which is supported and reported by UE. maximumAggregatedResourceSemiPerSlot-r18 indicates the maximum number of aggregated semi-persistent SRS resources f	Indicatindepe	RS-BWA-IndependentCA-RRC-Connected-r18 tes whether the UE supports positioning SRS bandwidth aggregation and the from UL communication CA in RRC_CONNECTED and the support of me SRS power reduction across aggregated carriers. The capability signalling ises the following parameters: numOfCarriersIntraBandContiguous-r18 indicates the number of supported aggregated carriers in intra band contiguous carriers, which is supported and reported by UE.	FS	No	N/A	N/A
aggregated SRS bandwidth in MHz for two aggregated carriers for FR2, which is supported and reported by UE. - maximumAggregatedBW-ThreeCarriersFR1-r18 indicates the maximum aggregated SRS bandwidth in MHz for three aggregated carriers for FR1, which is supported and reported by UE. - maximumAggregatedBW-ThreeCarriersFR2-r18 indicates the maximum aggregated SRS bandwidth in MHz for three aggregated carriers for FR2, which is supported and reported by UE. - maximumAggregatedResourceSet-r18 indicates the max number of aggregated SRS resource sets for positioning supported by UE for SRS bandwidth aggregation, which is supported and reported by UE for SRS bandwidth aggregatedResourcePeriodic-r18 indicates the maximum number of aggregated periodic SRS resources for bandwidth aggregation, which is supported and reported by UE. - maximumAggregatedResourceAperiodic-r18 indicates the maximum number of aggregated aperiodic SRS resources for bandwidth aggregation, which is supported and reported by UE. - maximumAggregatedResourceSemi-r18 indicates the maximum number of aggregated semi-persistent SRS resources for bandwidth aggregation, which is supported and reported by UE. - maximumAggregatedResourcePeriodicPerSlot-r18 indicates the maximum number of aggregated periodic SRS resources for bandwidth aggregation, which is supported and reported by UE. - maximumAggregatedResourcePeriodicPerSlot-r18 indicates the maximum number of aggregated periodic SRS resources for bandwidth aggregation per slot, which is supported and reported by UE. - maximumAggregatedResourceAperiodicPerSlot-r18 indicates the maximum number of aggregated semi-persistent SRS resources for bandwidth aggregation per slot, which is supported and reported by UE. - maximumAggregatedResourceAperiodicPerSlot-r18 indicates the maximum number of aggregated semi-persistent SRS resources for bandwidth aggregation per slot, which is supported and reported by UE. - maximumAggregatedResourceSemiPerSlot-r18 indicates the power class of supported two aggregated	-	aggregated SRS bandwidth in MHz for two aggregated carriers for FR1,				
aggregated SRS bandwidth in MHz for three aggregated carriers for FR1, which is supported and reported by UE. - maximumAggregatedBW-ThreeCarriersFR2-r18 indicates the maximum aggregated SRS bandwidth in MHz for three aggregated carriers for FR2, which is supported and reported by UE. - maximumAggregatedResourceSet-r18 indicates the max number of aggregated SRS resource sets for positioning supported by UE for SRS bandwidth aggregation, which is supported and reported by UE. - maximumAggregatedResourcePeriodic-r18 indicates the maximum number of aggregated periodic SRS resources for bandwidth aggregation, which is supported and reported by UE. - maximumAggregatedResourceAperiodic-r18 indicates the maximum number of aggregated aperiodic SRS resources for bandwidth aggregation, which is supported and reported by UE. - maximumAggregatedResourceSemi-r18 indicates the maximum number of aggregated aperiodic SRS resources for bandwidth aggregation, which is supported and reported by UE. - maximumAggregatedResourcePeriodicPerSlot-r18 indicates the maximum number of aggregated periodic SRS resources for bandwidth aggregation per slot, which is supported and reported by UE. - maximumAggregatedResourceAperiodicPerSlot-r18 indicates the maximum number of aggregated periodic SRS resources for bandwidth aggregation per slot, which is supported and reported by UE. - maximumAggregatedResourceAperiodicPerSlot-r18 indicates the maximum number of aggregated aperiodic SRS resources for bandwidth aggregation per slot, which is supported and reported by UE. - maximumAggregatedResourceAperiodicPerSlot-r18 indicates the maximum number of aggregated semi-persistent SRS resources for bandwidth aggregation per slot, which is supported and reported by UE. - maximumAggregatedResourceSemIPerSlot-r18 indicates the maximum number of aggregated semi-persistent sRS resources for bandwidth aggregation per slot, which is supported and reported by UE. - maximumAggregatedResourceSemIPerSlot-r18 indicates the power class of supported three	-	aggregated SRS bandwidth in MHz for two aggregated carriers for FR2,				
aggregated SRS bandwidth in MHz for three aggregated carriers for FR2, which is supported and reported by UE. - maximumAggregatedResourceSet-r18 indicates the max number of aggregated SRS resource sets for positioning supported by UE for SRS bandwidth aggregation, which is supported and reported by UE. - maximumAggregatedResourcePeriodic-r18 indicates the maximum number of aggregated periodic SRS resources for bandwidth aggregation, which is supported and reported by UE. - maximumAggregatedResourceAperiodic-r18 indicates the maximum number of aggregated aperiodic SRS resources for bandwidth aggregation, which is supported and reported by UE. - maximumAggregatedResourceSemi-r18 indicates the maximum number of aggregated semi-persistent SRS resources for bandwidth aggregation, which is supported and reported by UE. - maximumAggregatedResourcePeriodicPerSlot-r18 indicates the maximum number of aggregated periodic SRS resources for bandwidth aggregation per slot, which is supported and reported by UE. - maximumAggregatedResourceAperiodicPerSlot-r18 indicates the maximum number of aggregated aperiodic SRS resources for bandwidth aggregation per slot, which is supported and reported by UE. - maximumAggregatedResourceAperiodicPerSlot-r18 indicates the maximum number of aggregated aperiodic SRS resources for bandwidth aggregation per slot, which is supported and reported by UE. - maximumAggregatedResourceSemiPerSlot-r18 indicates the maximum number of aggregated semi-persistent SRS resources for bandwidth aggregation per slot, which is supported and reported by UE. - guardPeriod-r18 indicates the guard period in microseconds before and after aggregated SRS transmission. - powerClassForTwcAggregatedCarriers-r18 indicates the power class of supported two aggregated carriers in intra band contiguous carriers. UE indicating support of this feature shall indicate the support of SRS-AllPosResources-r16. NOTE 1: The UE supports the simultaneous transmission in a coherent manner of 2 or 3 SRS resources in 2 or 3 in	-	aggregated SRS bandwidth in MHz for three aggregated carriers for FR1,				
aggregated SRS resource sets for positioning supported by UE for SRS bandwidth aggregation, which is supported and reported by UE. - maximumAggregatedResourcePeriodic-r18 indicates the maximum number of aggregated periodic SRS resources for bandwidth aggregation, which is supported and reported by UE. - maximumAggregatedResourceAperiodic-r18 indicates the maximum number of aggregated aperiodic SRS resources for bandwidth aggregation, which is supported and reported by UE. - maximumAggregatedResourceSemi-r18 indicates the maximum number of aggregated semi-persistent SRS resources for bandwidth aggregation, which is supported and reported by UE. - maximumAggregatedResourcePeriodicPerSlot-r18 indicates the maximum number of aggregated periodic SRS resources for bandwidth aggregation per slot, which is supported and reported by UE. - maximumAggregatedResourceAperiodicPerSlot-r18 indicates the maximum number of aggregated aperiodic SRS resources for bandwidth aggregation per slot, which is supported and reported by UE. - maximumAggregatedResourceAperiodicPerSlot-r18 indicates the maximum number of aggregated aperiodic SRS resources for bandwidth aggregation per slot, which is supported and reported by UE. - maximumAggregatedResourceSemiPerSlot-r18 indicates the maximum number of aggregated semi-persistent SRS resources for bandwidth aggregation per slot, which is supported and reported by UE. - guardPeriod-r18 indicates the guard period in microseconds before and after aggregated SRS transmission. - powerClassForTwoAggregatedCarriers-r18 indicates the power class of supported two aggregated carriers in intra band contiguous carriers. - powerClassForThreeAggregatedCarriers-r18 indicates the power class of supported three aggregated carriers in intra band contiguous carriers. UE indicating support of this feature shall indicate the support of SRS-AllPosResources-r16. NOTE 1: The UE supports the simultaneous transmission in a coherent manner of 2 or 3 SRS resources in 2 or 3 intra-band contiguous CCs.	-	aggregated SRS bandwidth in MHz for three aggregated carriers for FR2,				
of aggregated periodic SRS resources for bandwidth aggregation, which is supported and reported by UE. - maximumAggregatedResourceAperiodic-r18 indicates the maximum number of aggregated aperiodic SRS resources for bandwidth aggregation, which is supported and reported by UE. - maximumAggregatedResourceSemi-r18 indicates the maximum number of aggregated semi-persistent SRS resources for bandwidth aggregation, which is supported and reported by UE. - maximumAggregatedResourcePeriodicPerSlot-r18 indicates the maximum number of aggregated periodic SRS resources for bandwidth aggregation per slot, which is supported and reported by UE. - maximumAggregatedResourceAperiodicPerSlot-r18 indicates the maximum number of aggregated aperiodic SRS resources for bandwidth aggregation per slot, which is supported and reported by UE. - maximumAggregatedResourceAperiodicPerSlot-r18 indicates the maximum number of aggregated aperiodic SRS resources for bandwidth aggregation per slot, which is supported by UE. - maximumAggregatedResourceSemiPerSlot-r18 indicates the maximum number of aggregated semi-persistent SRS resources for bandwidth aggregation per slot, which is supported and reported by UE. - guardPeriod-r18 indicates the guard period in microseconds before and after aggregated SRS transmission. - powerClassForTwoAggregatedCarriers-r18 indicates the power class of supported two aggregated carriers in intra band contiguous carriers. - powerClassForThreeAggregatedCarriers-r18 indicates the power class of supported three aggregated carriers in intra band contiguous carriers. UE indicating support of this feature shall indicate the support of SRS-AllPosResources-r16. NOTE 1: The UE supports the simultaneous transmission in a coherent manner of 2 or 3 SRS resources in 2 or 3 intra-band contiguous CCs.	-	aggregated SRS resource sets for positioning supported by UE for SRS				
of aggregated aperiodic SRS resources for bandwidth aggregation, which is supported and reported by UE. - maximumAggregatedResourceSemi-r18 indicates the maximum number of aggregated semi-persistent SRS resources for bandwidth aggregation, which is supported and reported by UE. - maximumAggregatedResourcePeriodicPerSlot-r18 indicates the maximum number of aggregated periodic SRS resources for bandwidth aggregation per slot, which is supported and reported by UE. - maximumAggregatedResourceAperiodicPerSlot-r18 indicates the maximum number of aggregated aperiodic SRS resources for bandwidth aggregation per slot, which is supported and reported by UE. - maximumAggregatedResourceAperiodicPerSlot-r18 indicates the maximum number of aggregated semi-persistent SRS resources for bandwidth aggregation per slot, which is supported and reported by UE. - maximumAggregatedResourceSemiPerSlot-r18 indicates the maximum number of aggregated semi-persistent SRS resources for bandwidth aggregation per slot, which is supported and reported by UE. - guardPeriod-r18 indicates the guard period in microseconds before and after aggregated SRS transmission. - powerClassForTwoAggregatedCarriers-r18 indicates the power class of supported two aggregated carriers in intra band contiguous carriers. - powerClassForThreeAggregatedCarriers-r18 indicates the power class of supported three aggregated carriers in intra band contiguous carriers. UE indicating support of this feature shall indicate the support of SRS-AllPosResources-r16. NOTE 1: The UE supports the simultaneous transmission in a coherent manner of 2 or 3 SRS resources in 2 or 3 intra-band contiguous CCs. NOTE 2: Each two or three linked SRS resources are counted as 1 resource	-	of aggregated periodic SRS resources for bandwidth aggregation, which is				
aggregated semi-persistent SRS resources for bandwidth aggregation, which is supported and reported by UE. - maximumAggregatedResourcePeriodicPerSlot-r18 indicates the maximum number of aggregated periodic SRS resources for bandwidth aggregation per slot, which is supported and reported by UE. - maximumAggregatedResourceAperiodicPerSlot-r18 indicates the maximum number of aggregated aperiodic SRS resources for bandwidth aggregation per slot, which is supported and reported by UE. - maximumAggregatedResourceSemiPerSlot-r18 indicates the maximum number of aggregated semi-persistent SRS resources for bandwidth aggregation per slot, which is supported and reported by UE. - guardPeriod-r18 indicates the guard period in microseconds before and after aggregated SRS transmission. - powerClassForTwoAggregatedCarriers-r18 indicates the power class of supported two aggregated carriers in intra band contiguous carriers. - powerClassForThreeAggregatedCarriers-r18 indicates the power class of supported three aggregated carriers in intra band contiguous carriers. UE indicating support of this feature shall indicate the support of SRS-AllPosResources-r16. NOTE 1: The UE supports the simultaneous transmission in a coherent manner of 2 or 3 SRS resources in 2 or 3 intra-band contiguous CCs. NOTE 2: Each two or three linked SRS resources are counted as 1 resource	-	of aggregated aperiodic SRS resources for bandwidth aggregation, which is				
number of aggregated periodic SRS resources for bandwidth aggregation per slot, which is supported and reported by UE. - maximumAggregatedResourceAperiodicPerSlot-r18 indicates the maximum number of aggregated aperiodic SRS resources for bandwidth aggregation per slot, which is supported and reported by UE. - maximumAggregatedResourceSemiPerSlot-r18 indicates the maximum number of aggregated semi-persistent SRS resources for bandwidth aggregation per slot, which is supported and reported by UE. - guardPeriod-r18 indicates the guard period in microseconds before and after aggregated SRS transmission. - powerClassForTwoAggregatedCarriers-r18 indicates the power class of supported two aggregated carriers in intra band contiguous carriers. - powerClassForThreeAggregatedCarriers-r18 indicates the power class of supported three aggregated carriers in intra band contiguous carriers. UE indicating support of this feature shall indicate the support of SRS-AllPosResources-r16. NOTE 1: The UE supports the simultaneous transmission in a coherent manner of 2 or 3 SRS resources in 2 or 3 intra-band contiguous CCs. NOTE 2: Each two or three linked SRS resources are counted as 1 resource	-	aggregated semi-persistent SRS resources for bandwidth aggregation,				
number of aggregated aperiodic SRS resources for bandwidth aggregation per slot, which is supported and reported by UE. - maximumAggregatedResourceSemiPerSlot-r18 indicates the maximum number of aggregated semi-persistent SRS resources for bandwidth aggregation per slot, which is supported and reported by UE. - guardPeriod-r18 indicates the guard period in microseconds before and after aggregated SRS transmission. - powerClassForTwoAggregatedCarriers-r18 indicates the power class of supported two aggregated carriers in intra band contiguous carriers. - powerClassForThreeAggregatedCarriers-r18 indicates the power class of supported three aggregated carriers in intra band contiguous carriers. UE indicating support of this feature shall indicate the support of SRS-AllPosResources-r16. NOTE 1: The UE supports the simultaneous transmission in a coherent manner of 2 or 3 SRS resources in 2 or 3 intra-band contiguous CCs. NOTE 2: Each two or three linked SRS resources are counted as 1 resource	-	number of aggregated periodic SRS resources for bandwidth aggregation				
number of aggregated semi-persistent SRS resources for bandwidth aggregation per slot, which is supported and reported by UE. - guardPeriod-r18 indicates the guard period in microseconds before and after aggregated SRS transmission. - powerClassForTwoAggregatedCarriers-r18 indicates the power class of supported two aggregated carriers in intra band contiguous carriers. - powerClassForThreeAggregatedCarriers-r18 indicates the power class of supported three aggregated carriers in intra band contiguous carriers. UE indicating support of this feature shall indicate the support of SRS-AllPosResources-r16. NOTE 1: The UE supports the simultaneous transmission in a coherent manner of 2 or 3 SRS resources in 2 or 3 intra-band contiguous CCs. NOTE 2: Each two or three linked SRS resources are counted as 1 resource	-	number of aggregated aperiodic SRS resources for bandwidth aggregation				
aggregated SRS transmission. - powerClassForTwoAggregatedCarriers-r18 indicates the power class of supported two aggregated carriers in intra band contiguous carriers. - powerClassForThreeAggregatedCarriers-r18 indicates the power class of supported three aggregated carriers in intra band contiguous carriers. UE indicating support of this feature shall indicate the support of SRS-AllPosResources-r16. NOTE 1: The UE supports the simultaneous transmission in a coherent manner of 2 or 3 SRS resources in 2 or 3 intra-band contiguous CCs. NOTE 2: Each two or three linked SRS resources are counted as 1 resource	-	number of aggregated semi-persistent SRS resources for bandwidth				
supported two aggregated carriers in intra band contiguous carriers. - powerClassForThreeAggregatedCarriers-r18 indicates the power class of supported three aggregated carriers in intra band contiguous carriers. UE indicating support of this feature shall indicate the support of SRS-AllPosResources-r16. NOTE 1: The UE supports the simultaneous transmission in a coherent manner of 2 or 3 SRS resources in 2 or 3 intra-band contiguous CCs. NOTE 2: Each two or three linked SRS resources are counted as 1 resource	-					
supported three aggregated carriers in intra band contiguous carriers. UE indicating support of this feature shall indicate the support of SRS-AllPosResources-r16. NOTE 1: The UE supports the simultaneous transmission in a coherent manner of 2 or 3 SRS resources in 2 or 3 intra-band contiguous CCs. NOTE 2: Each two or three linked SRS resources are counted as 1 resource	-					
AllPosResources-r16. NOTE 1: The UE supports the simultaneous transmission in a coherent manner of 2 or 3 SRS resources in 2 or 3 intra-band contiguous CCs. NOTE 2: Each two or three linked SRS resources are counted as 1 resource	-					
2 or 3 SRS resources in 2 or 3 intra-band contiguous CCs. NOTE 2: Each two or three linked SRS resources are counted as 1 resource						
2 or 3 SRS resources in 2 or 3 intra-band contiguous CCs. NOTE 2: Each two or three linked SRS resources are counted as 1 resource	NOTE	1: The UE supports the simultaneous transmission in a coherent manner of				
NOTE 3: Void.	NOTE	2 or 3 SRS resources in 2 or 3 intra-band contiguous CCs.2: Each two or three linked SRS resources are counted as 1 resource				

NOTE 4:	Guard period is needed before and after the aggregated SRS		
	transmissions when SRS resource is configured within a CC without		
	PUSCH/PUCCH is linked for aggregation with an SRS resource		
	configured within an UL active BWP of a UL communication CC.		
NOTE 5:	For a given band, independent of the band combination, the UE must		
	signal the same guard period.		
NOTE 6:	The power class is only applicable for FR1 bands.		

posSRS-BWA-RRC-Connected-r18	FS	No	N/A	N/A
Indicates whether the UE supports positioning SRS bandwidth aggregation in				
RRC_CONNECTED and the support of the same SRS power reduction across				
aggregated carriers. The capability signalling comprises the following parameters: - numOfCarriersIntraBandContiguous-r18 indicates the number of supported				
aggregated carriers in intra band contiguous carriers, which is supported and				
reported by UE.				
Toportod by OL.				
- maximumAggregatedBW-TwoCarriers-FR1-r18 indicates the maximum				
aggregated SRS bandwidth in MHz for two aggregated carriers for FR1,				
which is supported and reported by UE.				
·				
- maximumAggregatedBW-TwoCarriers-FR2-r18 indicates the maximum				
aggregated SRS bandwidth in MHz for two aggregated carriers for FR2, which is supported and reported by UE.				
which is supported and reported by OL.				
- maximumAggregatedBW-ThreeCarriers-FR1-r18 indicates the maximum				
aggregated SRS bandwidth in MHz for three aggregated carriers for FR1,				
which is supported and reported by UE.				
many time use A serve state dRIM. There a Courtie to FDO w40 in diseases the amount of the serve state of th				
 maximumAggregatedBW-ThreeCarriers-FR2-r18 indicates the maximum aggregated SRS bandwidth in MHz for three aggregated carriers for FR2, 				
which is supported and reported by UE.				
which is supported and reported by OL.				
- maximumAggregatedResourceSet-r18 indicates the max number of				
aggregated SRS resource sets for positioning supported by UE for SRS				
bandwidth aggregation, which is supported and reported by UE.				
and the second of the second o				
- maximumAggregatedResourcePeriodic-r18 indicates the maximum number				
of aggregated periodic SRS resources for bandwidth aggregation, which is supported and reported by UE.				
Supported and reported by OL.				
- maximumAggregatedResourceAperiodic-r18 indicates the maximum number				
of aggregated aperiodic SRS resources for bandwidth aggregation, which is				
supported and reported by UE.				
mayimum Aggragatad Daggurga Cami #10 in digates the mayimum number of				
- maximumAggregatedResourceSemi-r18 indicates the maximum number of				
aggregated semi-persistent SRS resources for bandwidth aggregation, which is supported and reported by UE.				
which is supported and reported by OL.				
- maximumAggregatedResourcePeriodicPerSlot-r18 indicates the maximum				
number of aggregated periodic SRS resources for bandwidth aggregation				
per slot, which is supported and reported by UE.				
- maximumAggregatedResourceAperiodicPerSlot-r18 indicates the maximum				
number of aggregated aperiodic SRS resources for bandwidth aggregation				
per slot, which is supported and reported by UE.				
por sios, million to supported and reported by CE.				
- maximumAggregatedResourceSemiPerSlot-r18 indicates the maximum				
number of aggregated semi-persistent SRS resources for bandwidth				
aggregation per slot, which is supported and reported by UE.				
UE indicating support of this feature shall indicate the support of SRS-				
AllPosResources-r16 and supportedBandCombinationList.				
NOTE 1: The UE supports the simultaneous transmission in a coherent manner of				
2 or 3 SRS resources in 2 or 3 intra-band contiguous CCs.				
NOTE 2: Each two or three linked SRS resources are counted as 1 resource NOTE 3: A UE that supports SRS-PosResourceAP-r16 must signal a non-zero				
value for maximumAggregatedResourceAperiodic-r18 and				
maximumAggregatedResourceAperiodicPerSlot-r18;				
NOTE 4: Void.				
NOTE 5: For numOfCarriersIntraBandContiguous-r18, it shall be less than or equal				
to the maximum number of the component carrier associated with ca-				
BandwidthClassUL-NR in TS 38.331 [9].				
NOTE 6: For maximum aggregated UL SRS bandwidth, it shall be less than or				
equal to the maximum aggregated transmission bandwidth associated				
with <i>ca-BandwidthClassUL-NR</i> in TS 38.331 [9]. Additionally, it shall be				
less than or equal to the maximum aggregated bandwidth for the			L	

supported CA configuration in Table 5.5A.1-1 in TS 38.101-1 [2] for FR1 bands or Table 5.5A.1-1 in TS 38.101-2 [3] for FR2 bands for the band where aggregated SRS CCs is configured.				
 powerBoosting-pi2BPSK-QPSK-r18 Indicates whether the UE supports power boosting for DFT-s-OFDM pi/2 BPSK and QPSK without modified spectrum flatness requirement for PC3 and PC2 MPR reduction, when applicable as defined in 6.2 of TS 38.101-1 [2]. The power boosting is only enabled when signalled via powerBoostPi2BPSK-r18 for BPSK and powerBoostQPSK-r18 for QPSK. A UE supporting this feature shall also indicate the support of pusch-HalfPi-BPSK and pucch-F3-4-HalfPi-BPSK. This capability can be supported in any or all scenarios below: Case 1: FR1 single band with single uplink CC configured in the band where power boosting capability is indicated in this band. Case 2: FR1 DL CA with a single uplink CC configured in a band where power boosting capability is indicated. The power boosting feature can be configured in this FR1 NR band. Case 3: FR1 inter-band UL CA/DC, where a single CC is configured in the uplink bands where power boosting capability is indicated. The power boosting feature can be configured only in one of the bands where capability is indicated. Case 4: FR1+FR2 UL CA, FR1+FR2 DC, where a single CC is configured in the uplink bands where power boosting capability is indicated. The power 	FS	No	N/A	FR1 only
 boosting feature can be configured in the FR1 NR band. powerBoosting-pi2BPSK-QPSK-Modified-r18 Indicates whether the UE supports power boosting for DFT-s-OFDM pi/2 BPSK and QPSK with modified spectrum flatness requirement for PC3 and PC2 MPR reduction, when applicable as defined in 6.2 of TS 38.101-1 [2]. The power boosting is only enabled when signalled via powerBoostPi2BPSK-r18 for BPSK and powerBoostQPSK-r18 for QPSK. A UE supporting this feature shall also indicate the support of pusch-HalfPi-BPSK and pucch-F3-4-HalfPi-BPSK. This capability can be supported in any or all scenarios below: Case 1: FR1 single band with single uplink CC configured in the band where power boosting capability is indicated in this band. Case 2: FR1 DL CA with a single uplink CC configured in a band where power boosting capability is indicated. The power boosting feature can be configured in this FR1 NR band. Case 3: FR1 inter-band UL CA/DC, where a single CC is configured in the uplink bands where power boosting capability is indicated. The power boosting feature can be configured only in one of the bands where capability is indicated. Case 4: FR1+FR2 UL CA, FR1+FR2 DC, where a single CC is configured in the uplink bands where power boosting capability is indicated. The power boosting feature can be configured in the FR1 NR band. 	FS	No	N/A	FR1 only
pucch-Repetition-F0-1-2-3-4-DynamicIndication-r17 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.	FS	No	N/A	N/A
NOTE: Dynamic PUCCH repetition factor indication is only supported for HARQ-ACK.				
pucch-Repetition-F0-1-2-3-4-RRC-Config-r17 Indicates whether the UE supports repetitions for PUCCH format 0, 1, 2, 3 and 4 over multiple PUCCH subslots with RRC configured repetition factor K = 2, 4, 8. A UE supporting this feature shall also indicate support of pucch-Repetition-F1-3-4 and multiPUCCH-r16. NOTE: The support of this feature doesn't imply an increase of the maximum number of PUCCHs per slot that supported by the UE.	FS	No	N/A	N/A
pucch-SingleDCI-STx2P-SFN-r18 Indicates whether the UE supports single-DCI based STx2P SFN scheme for	FS	No	N/A	FR2 only
PUCCH and the supported PUCCH formats for STx2P SFN scheme.				",

		0)/	NI/A	NI/A
pusch-DMRS8Tx-r18 Indicates whether the UE supports DMRS port configuration for PUSCH with 8Tx for Rel-15 and Rel-18. Value rel15 indicates the UE supports Rel-15 DMRS. Value both indicates the UE supports Rel-15 DMRS and Rel-18 DMRS. NOTE: A UE supporting 8Tx must support this feature.	FS	CY	N/A	N/A
pusch-DMRS-TypeEnh-r18 Indicates the DMRS type for Rel-18 enhanced DMRS ports for PUSCH. This capability signalling comprises the following parameters:	FS	CY	N/A	N/A
 dmrs-Type-r18 indicates the DMRS type for Rel-18 enhanced DMRS ports for PUSCH. Value etype1 indicates the UE supports eType1 DMRS type. Value both indicates the UE supports both eType1 and eType2 DMRS type. 				
- pusch-TypeA-DMRS-r18 comprises of the following parameters:				
 dmrs-TypeA-r18 indicates whether the UE supports enhanced DMRS ports for PUSCH for scheduling mapping of type A for enhanced DMRS ports, including support of 1 symbol FL DMRS without additional symbol(s), support of 1 symbol FL DMRS and 1 additional DMRS symbols and support of 1 symbol FL DMRS and 2 additional DMRS symbols for one port. 				
 pusch-2SymbolFL-DMRS-r18 indicates whether the UE supports 2 symbols FL-DMRS for enhanced DMRS ports for PUSCH. 				
 pusch-2SymbolFL-DMRS-Addition2Symbol-r18 indicates whether the UE supports 2-symbol FL DMRS + one additional 2-symbols DMRS for enhanced DMRS ports for PUSCH. 				
 pusch-1SymbolFL-DMRS-Addition3Symbol-r18 indicates whether the UE supports 1 symbol FL DMRS and 3 additional DMRS symbols for enhanced DMRS ports for PUSCH. 				
 pusch-1SymbolFL-DMRS-BeyondOnePort-r18 indicates whether the UE supports 1 symbol FL DMRS and 2 additional DMRS symbols for more than one port for enhanced DMRS ports for PUSCH. 				
NOTE: Void				
 pusch-TypeB-DMRS-r18 indicates whether the UE supports basic feature of Rel-18 enhanced DMRS ports for PUSCH for scheduling mapping of type B for Rel-18 enhanced DMRS ports, including support of 1 symbol FL DMRS without additional symbol(s) and support of 1 symbol FL DMRS and 1 additional DMRS symbol. 				
 pusch-rank-1-4-1Port-r18 indicates whether the UE supports 1 port UL PTRS for Rel-18 enhanced DMRS ports for PUSCH with rank 1-4. A UE supporting this feature shall indicate support of at least one of dmrs-TypeA-r18 and pusch-TypeB-DMRS-r18. 				
 pusch-rank-5-8-1Port-r18 indicates whether the UE supports 1 port UL PTRS for Rel-18 enhanced DMRS ports for PUSCH with rank 5-8. A UE supporting this feature shall indicate support of at least one of dmrs-TypeA-r18 and pusch-TypeB-DMRS-r18. 				
 pusch-rank-1-4-2Port-r18 indicates whether the UE supports 2 port UL PTRS for Rel-18 enhanced DMRS ports for PUSCH with rank 1-4. A UE supporting this feature shall indicate support of at least one of dmrs-TypeA-r18 and pusch-TypeB-DMRS-r18. 				
 pusch-rank-5-8-2Port-r18 indicates whether the UE supports 2 port UL PTRS for Rel-18 enhanced DMRS ports for PUSCH with rank 5-8. A UE supporting this feature shall indicate support of at least one of dmrs-TypeA-r18 and pusch-TypeB-DMRS-r18. 				
pusch-ProcessingType1-DifferentTB-PerSlot Indicates whether the UE capable of processing time capability 1 supports transmission of up to two, four or seven unicast PUSCHs for several transport blocks in one serving cell within the same slot per CC that are multiplexed in time domain only.	FS	No	N/A	N/A

 pusch-ProcessingType2 Indicates whether the UE supports PUSCH processing capability 2. The UE supports it only if all serving cells are self-scheduled and if all serving cells in one band on which the network configured processingType2 use the same subcarrier spacing. This capability signalling comprises the following parameters for each subcarrier spacing supported by the UE. 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 	FS	No	N/A	FR1 only
 supports only capability 1, in the band where the value is reported; differentTB-PerSlot indicates whether the UE supports processing type 2 for 1, 2, 4 and/or 7 unicast 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
rach-EarlyTA-BandList-r18 Indicates whether the UE supports simultaneous transmission to handle the overlap between UL transmission on serving cell(s) and PRACH on candidate cell(s). A UE supporting this feature shall also indicate support of rach-EarlyTA-Measurement-r18. Each source-target pair indicates the band pair between the band under UE's current band combination and the target band for RACH transmission. The target bands only consist of the bands indicated in appliedFreqBandListFilter. They are listed in the same order as in appliedFreqBandListFilter and the first entry correspond to the first entry on appliedFreqBandListFilter and so on.	FS	No	N/A	N/A
searchSpaceSharingCA-UL Defines whether the UE supports UL PDCCH search space sharing for carrier	FS	No	N/A	N/A
aggregation operation. 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-2-1-HARQ-ACK-CB-r18 Indicates whether the UE supports two HARQ-ACK codebooks with different priorities to be simultaneously constructed with the restriction up to one sub-slot based HARQ-ACK codebook. This capability also indicates support of separate PUCCH configuration for different HARQ-ACK codebooks, 2-level priority of HARQ-ACK for dynamically scheduled PDSCH and SPS PDSCH, a DCI format 1_3 scheduling PDSCH with different HARQ-ACK priorities when only DCI format 0_3/1_3 is configured per BWP, separate configuration of parameters pdsch-HARQ-ACK-Codebook, uci-OnPUSCH and codeBlockGroupTransmission for different HARQ-ACK codebooks, maximum number of actual PUCCH transmissions for HARQ-ACK within a slot and intra-UE multiplexing/prioritization of UL overlapping channels/signals with two priority levels for HARQ-ACK.	FS	No	N/A	N/A
The supported maximum number of actual PUCCH transmissions for HARQ-ACK within a slot is indicated by <i>sub-SlotConfig-NCP-r16</i> for NCP for 2-symbol*7 sub-slot configuration, and <i>sub-SlotConfig-ECP-r16</i> for ECP for 2-symbol*6 sub-slot configuration. For <i>sub-SlotConfig-NCP-r16</i> and <i>sub-SlotConfig-ECP-r16</i> , if a UE also supports <i>twoHARQ-ACK-Codebook-type1-r16</i> , the UE reports the same values as in <i>twoHARQ-ACK-Codebook-type1-r16</i> .				
If a UE reports both <i>multiPUCCH-r16</i> and this capability, 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 this capability but not <i>multiPUCCH-r16</i> , it can only support two slot-based HARQ-ACK codebooks.				
The number of PUCCHs for CSI reporting per slot is not impacted compared with Rel-15 by introducing the new HARQ-ACK CBs.				
simultaneous-2-1-HARQ-ACK-CB-r18 is applied to the sub-slot HARQ-ACK codebook and only 1 actual PUCCH transmission for HARQ-ACK within a slot for slot-based HARQ-ACK codebook is assumed. It is indicated for 2-symbol*7 sub-slot configuration. For 7-symbol*2 sub-slot configuration, the value of simultaneous-2-1-HARQ-ACK-CB-r18 is {2} for both NCP and ECP cases.				
The value indicated in <i>simultaneous-2-1-HARQ-ACK-CB-r18</i> has no meaning for "slot-based + slot based".				
A UE supporting this feature shall also indicate support of at least one of <i>multiCell-PDSCH-DCI-1-3-SameSCS-r18</i> and <i>multiCell-PDSCH-DCI-1-3-DiffSCS-r18</i> .				

Initial Indicates whether the UE supports two subslot based HARQ-ACK codebooks with different PIOR proprises to be simultaneously constructed. This capability also indicates support of separate PUCCH configuration for different HARQ-ACK codebooks, 2- level priority of HARQ-ACK for dynamically scheduled PDSCH and SFS PDSCH, a DCI format 1,3 scheduling PDSCH with different HARQ-ACK pronifies when only DCI format 0,3/1-3 is configured in USS per BWP, separate configuration of parameters psch-HARQ-ACK Codebook, configuration of parameters psch-HARQ-ACK Codebook, configuration of parameters psch-HARQ-ACK Codebook (Configuration) and codeBlockGroupTransmission for different HARQ-ACK codebooks, and maximum number of actual PUCCH transmissions for HARQ-ACK within a slot is indicated by sub-SlotConfig-NCP-16 for NCP for 2-symbol*7 sub-slot configuration, and sub-SlotConfig-NCP-16 for NCP for 2-symbol*7 sub-slot configuration, and sub-SlotConfig-NCP-16 for NCP for 2-symbol*7 sub-slot configuration, and sub-SlotConfig-NCP-16 for NCP for 2-symbol*2 sub-slot configuration, sub-slot configuration, sub-slot specific provided by sub-SlotConfig-NCP-16 for NCP for 2-symbol*2 sub-slot configuration, sub-slot specific provided by sub-SlotConfig-NCP-16 for NCP for 2-symbol*2 sub-slot specific provided by sub-SlotConfiguration, sub-slot specific provided by sub-SlotConfiguration, sub-slot specific provided by sub-SlotConfiguration, sub-slot specific provided specific provided sub-slot specific provided specific provided specific provided specific provided specific provided specifi					
within a slot is indicated by sub-SinConfig-NCP-r16 for EN NCP for 2-symbol's sub-slot configuration, and sub-SinConfig-ECP-r16 for ECP for 2-symbol's sub-slot configuration, and sub-SinConfig-PCP-r16 and sub-SinConfig-ECP-r16, if a UE also supports worlARO-ACK-Codebook-type2-r16, the UE reports the same values as in worlARO-ACK-Codebook-type2-r16, the UE reports the same values as in worlARO-ACK-Codebook-type2-r16. The number of PUCCHs for CSI reporting per slot is not impacted compared with Rel-15 by introducing the new HARQ-ACK CBs. Simultaneous-2-2-HARQ-ACK-CB-r18 is applied to the two sub-slot HARQ-ACK codebooks, respectively. Simultaneous-2-2-HARQ-ACK-CB-r18 is reported for 2-symbol'7 sub-slot configuration, For 7-symbol'2 sub-slot configuration, the value of simultaneous-2-2-HARQ-ACK-CB-r18 is (2) for both NCP and ECP cases. A UE supporting this feature shall also indicate support of multiPUCCH-r16 and simultaneous-2-1-HARQ-ACK-CB-r18 is (2) for both NCP and ECP cases. A UE supporting this feature shall also indicate support of multiPUCCH-r16 and simultaneous-2-1-HARQ-ACK-CB-r18. Simultaneous-2-1-HARQ-ACK-CB-r18. Simultaneous-2-1-HARQ-ACK-CB-r18 is new simultaneous transmission of SRS on an SUL hand x and a Non-SUL band y if it sets this capability parameter for both band X and band Y. Srs-AntensaSwitching3P-Prefroidc-r17 Indicates whether the UE supports maximum 2 SP SRS resource sets and maximum 1 periodic SRS resource set for amtenna switching. The UE indicating support of this shall indicate support of supportedSRS-resources for periodic SRS and maximum one SRS resource set for semi-persistent SRS. The two SP-SRS resource sets are not activated at the same time. FS No N/A N/A N/A Indicates supporting this feature shall also indicate support not srs-AntennaSwitching3F0R-r18. NOTE 1: If UE does not support this feature, support naximum one SRS resource set for periodic SRS and maximum one SRS resource set for periodic SRS and maximum one SRS resource set for semi-persistent SRS. The two S	different priorities to be simultaneously constructed. This capability also indicates support of separate PUCCH configuration for different HARQ-ACK codebooks, 2-level priority of HARQ-ACK for dynamically scheduled PDSCH and SPS PDSCH, a DCI format 1_3 scheduling PDSCH with different HARQ-ACK priorities when only DCI format 0_3/1_3 is configured in USS per BWP, separate configuration of parameters pdsch-HARQ-ACK-Codebook, uci-OnPUSCH and codeBlockGroupTransmission for different HARQ-ACK codebooks, and maximum	FS	No	N/A	N/A
Rel-15 by introducing the new HARQ-ACK CBs. simultaneous-2-2-HARQ-ACK-CB-r18 is applied to the two sub-slot HARQ-ACK codebooks, respectively. simultaneous-2-2-HARQ-ACK-CB-r18 is reported for 2-symbol*7 sub-slot configuration, For 7-symbol*2 sub-slot configuration, the value of simultaneous-2-2- HARQ-ACK-CB-r18 is (2) for both NCP and ECP cases. A UE supporting this feature shall also indicate support of multiPUCCH-r16 and simultaneous-2-1-HARQ-ACK-CB-r18. Simultaneous-2-1-HARQ-ACK-CB-r18. Indicates whether the UE supports simultaneous transmission of SRS on an SUL/non-SUL carrier and PUSCH/PUCCH/SRS on the other UL carrier in the same cell. The UE supports simultaneous transmission on an SUL band X and a Non- SUL band Y if it sets this capability parameter for both band X and band Y. Srs-AntennaSwitching2Ps-P1eriodic-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. 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-AntennaSwitching8T8R2SP-IPeriodic-r18 Indicates whether the UE supports maximum 2 SP SRS resource sets and maximum 1 periodic SRS resource set for 8TBR antenna switching. A UE supporting this feature shall also indicate support of srs- AntennaSwitching8T8R-r18. NOTE 1: If UE does not support this feature, support maximum one SRS resource set for periodic SRS and maximum one SRS resource set for semi- persistent SRS. NOTE 2: The two SP-SRS resource sets are not activated at the same time. The UE is only allowed to set this field for a band with	within a slot is indicated by <i>sub-SlotConfig-NCP-r16</i> for NCP for 2-symbol*7 sub-slot configuration, and <i>sub-SlotConfig-ECP-r16</i> for ECP for 2-symbol*6 sub-slot configuration. For <i>sub-SlotConfig-NCP-r16</i> and <i>sub-SlotConfig-ECP-r16</i> , if a UE also supports <i>twoHARQ-ACK-Codebook-type2-r16</i> , the UE reports the same values				
codebooks, respectively. simultaneous-2-2-HARQ-ACK-CB-r18 is reported for 2-symbol*7 sub-slot configuration. For 7-symbol*2 sub-slot configuration, the value of simultaneous-2-2-HARQ-ACK-CB-r18 is (2) for both NCP and ECP cases. A UE supporting this feature shall also indicate support of multiPUCCH-r16 and simultaneous-2-1-HARQ-ACK-CB-r18. simultaneous 7xSUL-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. srs-AntennaSwitching2SP-1Periodic-r17 Indicates whether the UE supports amximum 2 SP SRS resource sets and maximum 1 periodic SRS resource set for antenna switching. The UE indicating support of this shall indicate support of supportedSRS-Resources. NOTE: 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 periodic and semi-persistent SRS. The two SP-SRS resource sets are not activated at the same time. srs-AntennaSwitching8T8R2P-1Periodic-r18 Indicates whether the UE supports maximum 2 SP SRS resource sets and maximum 1 periodic SRS resource set for 8T8R antenna switching. A UE supporting this feature shall also indicate support of srs-AntennaSwitching8T8R-r18. NOTE 1: If UE does not support this feature, support maximum one SRS resource set for periodic SRS and maximum one SRS resource set for semi-persistent SRS. NOTE 2: The two SP-SRS resource sets are not activated at the same time. The UE is only allowed to set this field for a band with associated FeatureSetUplinkId set to 0 and when srs-CarrierSwitch is supported on					
configuration. For 7-symbol*2 sub-slot configuration, the value of simultaneous-2-2- HARQ-ACK-CB-r18 is {2} for both NCP and ECP cases. A UE supporting this feature shall also indicate support of multiPUCCH-r16 and simultaneous-2-1-HARQ-ACK-CB-r18. simultaneous 7xSUL-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 it is test this capability parameter for both band X and band Y. 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. 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 periodic and semi-persistent SRS. The two SP-SRS resource sets are not activated at the same time. srs-AntennaSwitching3T8R2SP-1Periodic-r18 Indicates whether the UE supports maximum 2 SP SRS resource sets and maximum 1 periodic SRS resource set for 818R antenna switching. A UE supporting this feature shall also indicate support of srs-AntennaSwitching3T8R-r18. NOTE 1: If UE does not support this feature, support maximum one SRS resource set for periodic SRS and maximum one SRS resource set for semi-persistent SRS. NOTE 2: The two SP-SRS resource sets are not activated at the same time. The UE is only allowed to set this field for a band with associated FoatureSetUplinkId set to 0 and when srs-CarrierSwitch is supported on	· ·				
simultaneous-21-HARQ-ACK-CB-r18. simultaneous TrXSUL-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. STS-AntennaSwitching2SP-1Periodic-r17 Indicates whether the UE supports maximum 2 SP SRS resource sets and maximum 1 periodic SRS resource set for antenna switching. FS No N/A N/A The UE indicating support of this shall indicate support of supportedSRS-Resources. PSRS resource set for all supported xTyR where y<=8;	configuration. For 7-symbol*2 sub-slot configuration, the value of <i>simultaneous-2-2-</i>				
Indicates whether the UE supports simultaneous transmission of SRS on an SUL/non-SUL carrier and PUSCH/PUCCH/SRS on the other UL carrier in the same cell. The UE supports simultaneous transmission on an SUL band X and a Non-SUL band Y if it sets this capability parameter for both band X and band Y. 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. 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-AntennaSwitching8T8R2SP-1Periodic-r18 Indicates whether the UE supports maximum 2 SP SRS resource sets and maximum 1 periodic SRS resource set for 8T8R antenna switching. A UE supporting this feature shall also indicate support of srs-AntennaSwitching8T8R-r18. NOTE 1: If UE does not support this feature, support maximum one SRS resource set for semi-persistent SRS. NOTE 2: The two SP-SRS resource sets are not activated at the same time. The UE is only allowed to set this field for a band with associated FeatureSetUplinkId set to 0 and when srs-CarrierSwitch is supported on					
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. 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.	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-	FS	No	N/A	N/A
- 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 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-AntennaSwitching8T8R2SP-1Periodic-r18 Indicates whether the UE supports maximum 2 SP SRS resource sets and maximum 1 periodic SRS resource set for 8T8R antenna switching. A UE supporting this feature shall also indicate support of srs-AntennaSwitching8T8R-r18. NOTE 1: If UE does not support this feature, support maximum one SRS resource set for periodic SRS and maximum one SRS resource set for semi-persistent SRS. NOTE 2: The two SP-SRS resource sets are not activated at the same time. The UE is only allowed to set this field for a band with associated FeatureSetUplinkId set to 0 and when srs-CarrierSwitch is supported on	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-	FS	No	N/A	N/A
Indicates whether the UE supports maximum 2 SP SRS resource sets and maximum 1 periodic SRS resource set for 8T8R antenna switching. A UE supporting this feature shall also indicate support of srs- AntennaSwitching8T8R-r18. NOTE 1: If UE does not support this feature, support maximum one SRS resource set for periodic SRS and maximum one SRS resource set for semi- persistent SRS. NOTE 2: The two SP-SRS resource sets are not activated at the same time. The UE is only allowed to set this field for a band with associated FeatureSetUplinkId set to 0 and when srs-CarrierSwitch is supported on	 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- 				
Indicates whether the UE supports maximum 2 SP SRS resource sets and maximum 1 periodic SRS resource set for 8T8R antenna switching. A UE supporting this feature shall also indicate support of srs- AntennaSwitching8T8R-r18. NOTE 1: If UE does not support this feature, support maximum one SRS resource set for periodic SRS and maximum one SRS resource set for semi- persistent SRS. NOTE 2: The two SP-SRS resource sets are not activated at the same time. The UE is only allowed to set this field for a band with associated FeatureSetUplinkId set to 0 and when srs-CarrierSwitch is supported on					
set for periodic SRS and maximum one SRS resource set for semi- persistent SRS. NOTE 2: The two SP-SRS resource sets are not activated at the same time. The UE is only allowed to set this field for a band with associated FeatureSetUplinkId set to 0 and when srs-CarrierSwitch is supported on	Indicates whether the UE supports maximum 2 SP SRS resource sets and maximum 1 periodic SRS resource set for 8T8R antenna switching. A UE supporting this feature shall also indicate support of <i>srs</i> -	FS	No	N/A	N/A
UE is only allowed to set this field for a band with associated FeatureSetUplinkId set to 0 and when srs-CarrierSwitch is supported on	set for periodic SRS and maximum one SRS resource set for semi-				
	UE is only allowed to set this field for a band with associated FeatureSetUplinkId set to 0 and when srs-CarrierSwitch is supported on				

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 whether the UE supports 1 aperiodic SRS resource sets for 1T4R.				
T. 115: 1: 0: 0 (10: 0) 1 1: 1: 0 0 0 0 0 0 0 0 0 0				
The UE indicating support of this feature shall also indicate the support of <i>srs</i> -				
StartAnyOFDM-Symbol-r16 and srs-TxSwitch.		N.	N1/A	N1/A
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 persistent, and aperiodic orte,				
- 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	IN/A
only if the UE supports srs-PosResources-r16. Otherwise, the UE does not include				
this field. The capability signalling comprises the following parameters:				
- maxNumberAP-SRS-PosResourcesPerBWP-r16 indicates the max number				
of aperiodic SRS resources for positioning supported by UE per BWP;				
3. aponosio onto roscaroco for positioning supported by or per bivin,				
- maxNumberAP-SRS-PosResourcesPerBWP-PerSlot-r16 indicates the max				
number of aperiodic SRS resources for positioning supported by UE per				
BWP per slot.				
srs-PosResourceSP-r16	FS	No	N/A	N/A
Indicates support of semi-persistent SRS for positioning. The UE can include this				
field only if the UE supports srs-PosResources-r16. Otherwise, the UE does not				
include this field. The capability signalling comprises the following parameters:				
- maxNumberSP-SRS-PosResourcesPerBWP-r16 indicates the max number				
of semi-persistent SRS resources for positioning supported by UE per BWP;				
- maxNumberSP-SRS-PosResourcesPerBWP-PerSlot-r16 indicates the max				
number of semi-persistent SRS resources for positioning supported by UE				
per BWP per slot				

supportedSRS-Resources Defines support of SRS resources. The capability signalling comprising indication	FS	FD	N/A	N/A
of: - maxNumberAperiodicSRS-PerBWP indicates supported maximum number of aperiodic SRS resources that can be configured for the UE per each BWP				
 maxNumberAperiodicSRS-PerBWP-PerSlot indicates supported maximum number of aperiodic SRS resources per slot in the BWP 				
 maxNumberPeriodicSRS-PerBWP indicates supported maximum number of periodic SRS resources per BWP 				
 maxNumberPeriodicSRS-PerBWP-PerSlot indicates supported maximum number of periodic SRS resources per slot in the BWP 				
 maxNumberSemiPersistentSRS-PerBWP indicate supported maximum number of semi-persistent SRS resources that can be configured for the UE per each BWP 				
 maxNumberSemiPersistentSRS-PerBWP-PerSlot indicates supported maximum number of semi-persistent SRS resources per slot in the BWP 				
 maxNumberSRS-Ports-PerResource indicates supported maximum number of SRS antenna port per each SRS resource. 				
If 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.				
tdcp-NumberDelayValue-r18 Indicates whether the UE supports number Y>1 of delay values for which TDCP is reported. A UE supporting this feature shall also indicate support of tdcp-Report-r18.	FS	No	N/A	N/A
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 multiPUCCH-r16 and twoHARQ-ACK-Codebook-type1-r16, 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 twoHARQ-ACK-Codebook-type1-r16 but does not report				
multiPUCCH-r16, 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

txDiversity2Tx-r18	FS	No	N/A	FR1
Indicates whether the UE supports 2Tx Tx diversity for the band configured.			,, .	only
This capability is applicable for both single band (non-CA) case and CA case.				
txDiversity4Tx-r18	FS	No	N/A	FR1
Indicates whether the UE supports 4Tx Tx diversity for the band configured.				only
This capability is applicable for both single band (non-CA) case and CA case.				
tx-Support-UL-GapFR2-r17	FS	No	No	FR2
Indicates whether the UE supports UL transmission in FR2 bands within an FR2 UL				only
gap when the FR2 UL gap is activated in inter-band UL CA. The UE which indicates support for <i>tx-Support-UL-GapFR2-r17</i> shall also indicate support for <i>ul-GapFR2-</i>				
r17 in an FR2 band.				
ue-PowerClassPerBandPerBC-r17, ue-PowerClassPerBandPerBC-v1820	FS	No	N/A	FR1
Indicates the UE power class per band per band combination.			,, .	only
NOTE: Void.				
ul-CancellationCrossCarrier-r16	FS	No	N/A	N/A
Indicates whether the UE supports UL cancellation scheme for cross-carrier	'	110	14// (1 1 1 1
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;				
III II C (DUOQUI Q II C) II II I DUQQUI				
- UL cancellation for PUSCH. Cancellation is applied to each PUSCH				
repetition individually in case of PUSCH repetitions;				
- UL cancellation for SRS symbols that overlap with the cancelled symbols.				
ul-CancellationSelfCarrier-r16	FS	No	N/A	N/A
Indicates whether the UE supports UL cancellation scheme for self-carrier				
comprised of the following functional components:				
 Supports group common DCI (i.e. DCI format 2_4) for cancellation indication 				
on the same DL CC as that scheduling PUSCH or SRS;				
- UL cancellation for PUSCH. Cancellation is applied to each PUSCH				
repetition individually in case of PUSCH repetitions;				
- UL cancellation for SRS symbols that overlap with the cancelled symbols.				
ul-DMRS-SingleDCI-M-TRP-r18	FS	No	N/A	N/A
Indicates whether the UE supports UL DMRS with Single-DCI based M-TRP.				
A UE supporting this feature shall also indicate support of dmrs-TypeA-r18 or				
pusch-TypeB-DMRS-r18.				
ul-DMRS-M-DCI-M-TRP-r18	FS	No	N/A	N/A
Indicates whether the UE supports UL DMRS with M-DCI based M-TRP.				
A UE supporting this feature shall also indicate support of <i>dmrs-TypeA-r18</i> or				
pusch-TypeB-DMRS-r18. ul-FullPwrMode-r16	FS	No	N/A	N/A
Indicates the UE support of UL full power transmission mode of <i>fullpower</i> as	13	INO	11/7	111/7
specified in clause 7.1 of TS 38.213 [11]. If the UE indicates this capability the UE				
also indicates the support of codebook based PUSCH MIMO transmission using				
mimo-CB-PUSCH and the support of PUSCH codebook coherency subset using				
pusch-TransCoherence.				
ul-FullPwrMode1-r16	FS	No	N/A	N/A
Indicates the UE support of UL full power transmission mode of <i>fullpowerMode1</i> . If				
the UE indicates this capability the UE also indicates the support of codebook				
based PUSCH MIMO transmission using <i>mimo-CB-PUSCH</i> and the support of				
PUSCH codebook coherency subset using pusch-TransCoherence.		NI.	NI/A	N1/A
ul-FullPwrMode2-MaxSRS-ResInSet-r16	FS	No	N/A	N/A
		1		
resource set with usage set to 'codebook' for uplink full power Mode 2 operation. If				
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				
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				

 uI-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: 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 	FS	No	N/A	N/A
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-TPMlGroup-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 (<u>1</u>) 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.

 uI-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; 	FS	No	N/A	N/A
 pusch-PreparationHighPriority-r16 indicates the additional number of the preparation time needed for the high priority UL transmission that cancels a low priority UL transmission. 				
The value sym0 denotes 0 symbol, sym1 denotes one symbol, and so on.				
 ul-IntraUE-MuxEnh-r18 Indicates whether the UE supports intra-UE multiplexing/prioritization of overlapping PUCCH/PUCCH and PUCCH/PUSCH with two priority levels in physical layer for DCI format 1_3/0_3, including Configuration of PHY priority level for CG PUSCH and SR, and dynamic indication of priority level for dynamic PUSCH with a single DCI format 0_3 Multiplexing/prioritization between UL channels/signals with the same PHY priority level Prioritization between UL channels/signals with different PHY priority levels. The capability signalling comprises the following parameters: pusch-PreparationLowPriority-r18 indicates the additional number of symbols needed beyond the PUSCH preparation time for cancelling a low priority UL transmission. The UE reports the same value as pusch-PreparationLowPriority-r16 if the UE also supports ul-IntraUE-Mux-r16; pusch-PreparationHighPriority-r18 indicates the additional number of symbols of the preparation time needed for the high priority UL transmission 	FS	No	N/A	N/A
that cancels a low priority UL transmission. The UE reports the same value as pusch-PreparationHighPriority-r16 if the UE also supports ul-IntraUE-Mux-r16. The value sym0 denotes 0 symbol, sym1 denotes one symbol, and so on. A UE supporting this feature shall also indicate support of at least one of multiCell-				
PDSCH-DCI-1-3-SameSCS-r18, multiCell-PDSCH-DCI-1-3-DiffSCS-r18, multiCell-				
PUSCH-DCI-0-3-SameSCS-r18, and multiCell-PUSCH-DCI-0-3-DiffSCS-r18.		ļ		
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	F0	NI-	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.	FS	No	IN/A	IN/A

4.2.7.8 FeatureSetUplinkPerCC parameters

Definitions for parameters	Per	М	FDD- TDD DIFF	FR1- FR2 DIFF
cgb-2CW-PUSCH-r18 Indicates whether the UE supports CBG based transmission for 2 CWs PUSCH. A UE supporting this feature shall also indicate support of nonCodebook-8TxPUSCH-r18 or codebook-8TxBasic-r18.	FSPC	No	N/A	N/A
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

codebookParameter8TxPUSCH-r18 Indicates whether the UE supports codebook-based 8Tx PUSCH.	FSPC	No	N/A	N/A
The basic features of 8Tx PUSCH codebook are included in <i>codebook-8TxBasic-r18</i> . This capability signalling comprises the following parameters: - <i>maxNumberPUSCH-MIMO-Layer-r18</i> defines the maximum number of PUSCH MIMO layers for codebook based PUSCH; - <i>maxNumberSRS-Resource-r18</i> defines the maximum number of 8 port SRS resources per SRS resource set with usage set to ' <i>codebook'</i> for codebook-based 8Tx PUSCH; - <i>srs-8TxPorts-r18</i> defines SRS 8 Tx ports codebook. Value ' <i>noTDM'</i> indicates noTDM. Value ' <i>both</i> ' indicates TDM and noTDM. This parameter only applies to <i>codebook2-8TxPUSCH-r18</i> , <i>codebook3-8TxPUSCH-r18</i> , and <i>codebook4-8TxPUSCH-r18</i> .				
A UE that supports <i>codebook-8TxBasic-r18</i> must support of at least one of <i>codebook1-8TxPUSCH-r18</i> , <i>codebook2-8TxPUSCH-r18</i> , <i>codebook3-8TxPUSCH-r18</i> , and <i>codebook4-8TxPUSCH-r18</i> .				
 codebook1-8TxPUSCH-r18 comprises the following parameters: codebookN1N4-r18 indicates whether the UE supports (N1, N2) codebook-based 8Tx PUSCH codebook1. Value ng1n4n1 corresponds to (4,1) codebook, value ng1n2n2 corresponds to (2,2) codebook, value both corresponds to both codebooks; srs-8TxPorts-r18 defines SRS 8 Tx ports codebook1 codebook. Value 'noTDM indicates noTDM. Value 'both' indicates TDM and noTDM. codebook2-8TxPUSCH-r18 indicates whether the UE supports codebook-based 8Tx PUSCH codebook2; codebook3-8TxPUSCH-r18 indicates whether the UE supports codebook-based 8Tx PUSCH codebook3; codebook4-8TxPUSCH-r18 indicates whether the UE supports codebook-based 8Tx PUSCH codebook4. 				
The UE optionally indicates <i>ul-FullPwrTransMode0-r18</i> to indicate whether the UE supports UL full power transmission mode of fullpower when UE is capable of 8 Tx codebook based PUSCH operation.				
The UE optionally indicates <i>ul-FullPwrTransMode1-r18</i> to indicate whether the UE supports UL full power transmission mode of fullpowerMode1 when UE is capable of 8 Tx codebook based PUSCH operation.				
The UE optionally indicates <i>ul-FullPwrTransMode2-r18</i> to indicate whether the UE supports UL full power transmission mode of fullpowerMode2 when UE is capable of 8 Tx codebook based PUSCH operation. The UE indicates the maximum number of SRS resources in one SRS resource set with usage set to ' <i>codebook</i> ' for 8Tx codebook based PUSCH for Mode 2.				
NOTE 1: A UE that supports <i>ul-FullPwrTransMode2-r18</i> supports at least full power operation with single port.				
The UE optionally indicates <i>ul-SRS-TransMode2-r18</i> to indicate whether the UE supports SRS configurations with different number of antenna ports per SRS resource for Mode 2. The UE indicates a 3-bit bitmap, where the leading / leftmost bit (bit 0) corresponds to whether SRS resource can be configured with 1 port. The next bit (bit 1) corresponds to whether SRS resource can be configured with 2 ports. The rightmost bit (bit 2) corresponds to whether SRS resource can be configured with 4 ports.				
A UE supporting <i>ul-SRS-TransMode2-r18</i> shall also indicate support of <i>ul-FullPwrTransMode2</i> .				
NOTE 2: An SRS resource set supported by the UE for uplink full power Mode 2 must contain at least an 8 port SRS resource. NOTE 3: Any of the above values of <i>ul-SRS-TransMode2-r18</i> can be used if <i>ul-FullPwrTransMode2-r18</i> is reported as value <i>n2</i> or <i>n4</i> .				

The UE optionally indicates <i>tpmi-FullPwrCodebook2-r18</i> to indicate which TPMI group(s) delivers full power when UE is capable of and configured with 8 Tx codebook based PUSCH operation with codebook2. Value <i>first</i> indicates the TPMI group corresponding to only the antenna port group 0. Value <i>second</i> indicates the TPMI group corresponding to only the antenna port group 1. Antenna port group is defined in Table 6.3.1.5-8 of TS 38.211 [6]. A UE supporting <i>tpmi-FullPwrCodebook2-r18</i> shall also indicate support of <i>ul-FullPwrTransMode2</i> .				
maxNumberMIMO-LayersNonCB-PUSCH 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	No	N/A	N/A
 mimo-CB-PUSCH Indicates whether the UE supports codebook based PUSCH MIMO Transmission. If 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. 	FSPC	No	N/A	N/A
mimo-NonCB-PUSCH 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.	FSPC	No	N/A	N/A
mTRP-PUSCH-RepetitionTypeB-r17 Indicates whether the UE supports multi-TRP PUSCH repetition for non-codebook 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.	FSPC	No	N/A	N/A
mTRP-PUSCH-TypeB-CB-r17 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 UE indicating support of this feature shall also indicate the support of mimo-CB-	FSPC	No	N/A	N/A
PUSCH and pusch-RepetitionTypeB-r16. nonCodebook-8TxPUSCH-r18 Indicates whether the UE supports basic features for Non-Codebook-based 8Tx PUSCH. This capability signalling comprises the following parameters: - maxNumberPUSCH-MIMO-Layer-r18 indicates the maximum number PUSCH MIMO layers for non-codebook based PUSCH; - maxNumberSRS-Resource-r18 indicates the maximum number of SRS resources per SRS resource set with usage set to 'nonCodebook'; - maxNumberSimultaneousSRS-r18 indicates the maximum number of simultaneous transmitted SRS resources at one symbol.	FSPC	No	N/A	N/A

nonCodebook-CSI-RS-SRS-r18	FSPC	No	N/A	N/A
Indicates whether the UE supports association between NZP-CSI-RS and SRS resource set via RRC parameter "SRS-ResourceSet" for noncodebook 8Tx PUSCH				
operation.				
operation.				
A UE supporting this feature shall also indicate support of nonCodebook-				
8TxPUSCH-r18 and nonCodebook-CSI-RS-SRS-PerBC-r18.				
pusch-CB-SingleDCI-STx2P-SDM-r18	FSPC	No	N/A	FR2
Indicates whether the UE supports 1) Dynamic switching by DCI 0_1/0_2 between				only
single-DCI STx2P SDM and sTRP for PUSCH codebook; 2) 1 PTRS port for single-				
DCI based STx2P SDM scheme for PUSCH codebook. 3) Support of two SRS				
resource sets with usage set to 'codebook'. The feature also comprises following				
parameters:				
- maxNumberSRS-ResourcePerSet-r18 indicates the maximum number of				
SRS resources in one SRS resource set. If value 4 is reported, UE also				
reports value 4 in ul-FullPwrMode2-MaxSRS-ResInSet;				
- maxNumberLayerPerPanel-r18 indicates the maximum number of layers of				
each panel for Single-DCI STx2P with SDM;				
- maxNumberNZP-PUSCH-PortsPerSet-r18 indicates the max number of NZP				
PUSCH ports associated with one SRS resource set. If a row of the TPMI				
consists of all 0's, the corresponding PUSCH port is not counted;				
- maxNumberSRS-AntennaPortsPerSet-r18 indicates the maximum number of				
SRS antenna ports for each SRS resource in each SRS resource set. A UE indicating support of this feature shall also indicate support of <i>mimo-CB</i> -				
PUSCH.				
pusch-CB-SingleDCI-STx2P-SFN-r18	FSPC	No	N/A	FR2
Indicates whether the UE supports 1) Dynamic switching by DCI 0_1/0_2 between	FSFC	INO	IN/A	only
single-DCI STx2P SFN and sTRP; 2) 1 PTRS port for single-DCI based STx2P SFN				Offiny
scheme for PUSCH codebook; 3) Support of two SRS resource sets with usage set				
to 'codebook'. The feature also comprises following parameters:				
- maxNumberSRS-ResourcePerSet-r18 indicates the maximum number of				
SRS resources in one SRS resource set. If value 4 is reported, UE also				
reports value 4 in ul-FullPwrMode2-MaxSRS-ResInSet;				
- maxNumberLayerPerSet-r18 indicates the maximum number of MIMO layers				
of each SRS resource set for CB PUSCH with SFN scheme;				
- maxNumberSRS-AntennaPortsPerSet-r18 indicates the maximum number of				
SRS antenna ports for each SRS resource in each SRS resource set;				
 maxNumberNZP-PUSCH-PortsPerSet-r18 indicates the max number of NZP 				
PUSCH ports associated with one SRS resource set. If a row of the TPMI				
consists of all 0's, the corresponding PUSCH port is not counted.				
A UE indicating support of this feature shall also indicate support of <i>mimo-CB</i> -				
PUSCH.				
pusch-NonCB-SingleDCI-STx2P-SDM-r18	FSPC	No	N/A	FR2
Indicates whether the UE supports: 1) Dynamic switching by DCI 0_1/0_2 between				only
single-DCI STx2P SDM and sTRP for PUSCH noncodebook; 2) 1 PTRS port for				
single-DCI based STx2P SDM scheme for PUSCH noncodebook; 3) Support of two				
SRS resource sets with usage set to 'noncodebook'. The feature also comprises				
following parameters: - maxNumberSRS-ResourcePerSet-r18 indicates the maximum number of				
SRS resources in one SRS resource set:				
- maxNumberLayerPerPanel-r18 indicates the maximum number of layers of				
each panel for Single-DCI STx2P with SDM;				
- maxNumberSimulSRS-OneResourcePerSet-r18 indicates the maximum				
number of simultaneous transmitted SRS resources from one SRS resource				
set in one symbol;				
- maxNumberSimulSRS-TwoResourcePerSet-r18 indicates the maximum				
number of simultaneous transmitted SRS resources from two SRS resource				
sets in one symbol.				
·- · · · · · · · · · · · · · · · · · ·				
A UE indicating support of this feature shall also indicate support of				
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 pusch-NonCB-SingleDCI-STx2P-SFN-r18 Indicates whether the UE supports: 1) Dynamic switching by DCI 0_1/0_2 between single-DCI STx2P SFN and sTRP, 2) 1 PTRS port for single-DCI based STx2P SFN scheme for PUSCH noncodebook, 3) Support of two SRS resource sets with usage set to 'noncodebook'. The feature also comprises following parameters: maxNumberSRS-ResourcePerSet-r18 indicates the maximum number of SRS resources in one SRS resource set; maxNumberLayerPerSet-r18 indicates the maximum number of MIMO layers of each SRS resource set for NCB PUSCH with SFN scheme; maxNumberSimulSRS-OneResourcePerSet-r18 indicates the maximum number of simultaneous transmitted SRS resources from one SRS resource set in one symbol; maxNumberSimulSRS-TwoResourcePerSet-r18 indicates the maximum number of simultaneous transmitted SRS resources from two SRS resource sets in one symbol. A UE indicating support of this feature shall also indicate support of maxNumbers support of this feature shall also indicate support of maxNumbers support of this feature shall also indicate support of maxNumbers support of this feature shall also indicate support of support suppo	FSPC	No	N/A	FR2 only
maxNumberMIMO-LayersNonCB-PUSCH and mimo-NonCB-PUSCH. supportedBandwidthUL, supportedBandwidthUL-v1710, supportedBandwidthUL-v1780, supportedBandwidthUL-v1780 (Indicates maximum UL channel bandwidth supported for a given SCS that UE supports within a single CC (and in case of DAPS handover for the source or target cell), which is defined in Table 5.3.5-1 in TS 38.101-1 [2] / TS 38.101-5 [34] for FR1 and Table 5.3.5-1 in TS 38.101-2 [3] / Table 5.3.5-2 in TS 38.101-5 [34] for FR2. For FR1, all the bandwidths listed in TS 38.101-1 [2] / TS 38.101-5 [34], Table 5.3.5-1 for each band shall be mandatory with a single CC unless indicated optional. For FR2 (except for FR2-NTN), the set of mandatory CBW is 50, 100 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], TS 38.101-2 [3], and TS 38.101-5 [34]. 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. When the supportedBandwidthUL and the supportedBandwidthUL-v1840 are reported together for a CC, the network which is able to decode the supportedBandwidthUL-v1840 ignores the supportedBandwidthUL. The UE may report a supportedBandwidthUL wider than the channelBWs-UL; this supportedBandwidthUL may not be included in the Table 5.3.5-1 of TS 38.101-1 [2] / TS 38.101-5 [34] and Table 5.3.5-2 of TS 38.101-5 [34], 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 38.101-5 [34] and Table 5.3.5-2 of TS 38.101-5 [34]. For each band, (e)RedCap UEs shall indicate its maximum channel bandwidth, which is the maximum of those channel band	FSPC	CY	N/A	N/A
supportedMinBandwidthUL-r17, supportedMinBandwidthUL-v1840 Indicates minimum UL channel bandwidth supported for a given SCS that UE supports within a single CC (and in case of intra-frequency DAPS handover for the source and target cells), which is defined in Table 5.3.5-1 in TS 38.101-1 [2] for FR1 and Table 5.3.5-1 in TS 38.101-2 [3] for FR2. This parameter is only applicable to the Bandwidth Combination Set 5 (BCS5). The UE shall indicate this parameter for at least one CC of a BCS5 band combination. This field does not restrict the bandwidths configured for a single CC (i.e. non-CA case).	FSPC	CY	N/A	N/A

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	FSPC	No	N/A	N/A
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 				
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. twoPUSCH-CB-MultiDCI-STx2P-AdditionalTime-r18	FSPC	Na	NI/A	EDO
Indicates whether the UE supports additional timeline to process multiple TBs for	F3PC	No	N/A	FR2 only
codebook multi-DCI based STx2P PUSCH+PUSCH for DG+DG.				0,
A UE supporting this feature shall also indicate support of <i>twoPUSCH-CB-MultiDCI-</i>				
STx2P-DG-DG-r18. NOTE: This feature can also be applied for CG+DG if UE can support				
twoPUSCH-CB-MultiDCI-STx2P-CG-DG-r18.				
twoPUSCH-CB-MultiDCI-STx2P-DG-DG-r18	FSPC	No	N/A	FR2
Indicates whether the UE supports multi-DCI based STx2P PUSCH+PUSCH for codebook-based PUSCH with fully overlapping PUSCHs in time and non-				only
overlapping in frequency and two SRS resource sets with usage set to 'codebook'				
associated with two coresetPoolIndex values.				
- maxNumberSRS-ResourcePerSet-r18 indicates the maximum number of				
SRS resources in one SRS resource set. If value <i>n4</i> is reported, the UE also reports value <i>n4</i> in <i>ul-FullPwrMode2-MaxSRS-ResInSet-r16</i> ;				
- maxNumberLayerOverlapping-r18 indicates the maximum number of layers				
of each PUSCH of PUSCH+PUSCH overlapping in time domain;				
 maxNumberNZP-PUSCH-Overlapping-r18 indicates the maximum number of NZP PUSCH ports for each PUSCH of PUSCH+PUSCH overlapping in time 				
domain. If a row of the TPMI consists of all 0's, the corresponding PUSCH				
port is not counted;				
- maxNumberPUSCH-PerCORESET-PerSlot-r18 indicates the maximum				
number of PUSCHs per CORESETPoolIndex per slot; - maxNumberTotalLayerOverlapping-r18 indicates the maximum total number				
of layers across two overlapping PUSCH;				
- maxNumberSRS-AntennaPortsPerSet-r18 indicates the maximum number of				
SRS antenna ports for each SRS resource in each SRS resource set. A UE supporting this feature shall also indicate support of <i>mimo-CB-PUSCH</i> .				
NOTE: Processing support of two SRS resource sets with usage set to				
'codebook' associated with two coresetPoolIndex values is not supported				
in any CC if at least one CC is configured with two values of				
CORESETPoolIndex. twoPUSCH-MultiDCI-STx2P-OutOfOrder-r18	FSPC	No	N/A	FR2
Indicates whether the UE supports out-of-order operation for multi-DCI based		0	,	only
STx2P PUSCH+PUSCH.				
A UE supporting this feature shall also indicate support of <i>twoPUSCH-CB-MultiDCI-STx2P-DG-DG-r18</i> or <i>twoPUSCH-NonCB-MultiDCI-STx2P-DG-DG-r18</i> .				
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twoPUSCH-MultiDCI-STx2P-TwoTA-r18 Indicates whether the UE supports two TAs for multi-DCI STx2P PUSCH+PUSCH. A UE supporting this feature shall also indicate support of multiDCI-IntraCellMultiTRP-TwoTA-r18, multiDCI-InterCellMultiTRP-TwoTA-r18, twoPUSCH-CB-MultiDCI-STx2P-DG-DG-r18 or twoPUSCH-NonCB-MultiDCI-STx2P-DG-DG-r18.	FSPC	No	N/A	N/A
NOTE: A UE that supports this feature can transmit PUSCH in two consecutive slots using different TA without reducing the later slot.				
twoPUSCH-NonCB-MultiDCI-STx2P-AdditionalTime-r18 Indicates whether the UE supports additional timeline to process multiple TBs for non-codebook multi-DCI based STx2P PUSCH+PUSCH for DG+DG. A UE supporting this feature shall also indicate support of twoPUSCH-NonCB-MultiDCI-STx2P-DG-DG-r18. NOTE: This feature can also be applied for CG+DG if UE can support twoPUSCH-NonCB-MultiDCI-STx2P-CG-DG-r18.	FSPC	No	N/A	FR2 only
twoPUSCH-NonCB-MultiDCI-STx2P-DG-DG-r18 Indicates whether the UE supports multi-DCI based STx2P PUSCH+PUSCH for noncodebook-based PUSCH with fully overlapping PUSCHs in time and non-overlapping in frequency and two SRS resource sets with usage set to 'noncodebook' associated with two coresetPoolIndex values. - maxNumberSRS-ResourcePerSet-r18 indicates the maximum number of SRS resources in one SRS resource set; - maxNumberLayerOverlapping-r18 indicates the maximum number of layers of each PUSCH of PUSCH+PUSCH overlapping in time domain; - maxNumberSimulSRS-ResourcePerSet-r18 indicates the maximum number of simultaneously transmitted SRS resources in one symbol per SRS resource set; - maxNumberPUSCH-PerCORESET-PerSlot-r18 indicates the maximum number of PUSCHs per CORESETPoolIndex per slot; - maxNumberTotalLayerOverlapping-r18 indicates the maximum total number of layers across two overlapping PUSCH. A UE supporting this feature shall also indicate support of maxNumberMIMO-LayersNonCB-PUSCH and mimo-NonCB-PUSCH. NOTE: Processing support of two SRS resource sets with usage set to 'codebook' associated with two coresetPoolIndex values is not supported in any CC if at least one CC is configured with two values of CORESETPoolIndex.	FSPC	No	N/A	FR2 only

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 and asynchronous FDD-FDD inter-band (NG)EN-DC/NE-DC where the frequency range of the E-UTRA band is a subset of the frequency range of the NR band, with MRTD and MTTD as specified in clause 7.5 and 7.6 of TS 38.133 [5]. If asynchronous FDD-FDD intra-band (NG)EN-DC is not supported, the UE supports only synchronous FDD-FDD intra-band (NG)EN-DC. For FDD-FDD inter-band (NG)EN-DC/NE-DC combination where the frequency range of the E-UTRA band is a subset of the frequency range of the NR band, if this capability is not supported, the MRTD and MTTD requirements indicated by interBandMRDC-WithOverlapDL-Bands-r16 apply.	BC	No	FDD only	FR1 only
 This capability applies to: Intra-band (NG)EN-DC combination without additional inter-band NR and LTE CA component; Intra-band (NG)EN-DC combination supporting both UL and DL intra-band (NG)EN-DC parts with additional inter-band NR/LTE CA component; Intra-band (NG)EN-DC combination without supporting UL in both the bands of the intra-band (NG)EN-DC UL part; Inter-band (NG)EN-DC/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 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.	ВС	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].	BC	Yes	N/A	FR1 only

higherPowerLimitMRDC-r17	ВС	No	N/A	FR1
Indicates whether UE supports increase in maximum output power above the power				only
class indication for inter-band UL (NG)EN-DC band combinations as defined in				
clause 6.2B of TS 38.101-3 [4].				
intraBandENDC-NominalSpacing-r18	BC	No	N/A	N/A
Indicates whether the UE supports intra-band non-contiguous (NG)EN-DC with				
nominal channel spacing as defined in clause 5.4B.1 in the TS 38.101-3[4].				
If the band combination supports intra-band (NG)EN-DC only in DL, this field				
indicates the DL capability. If the band combination supports intra-band (NG)EN-DC				
in DL and UL, the field indicates the common capability for both DL and UL.				
The UE indicating support of this field shall indicate support of "non-contiguous" in				
intrabandENDC-Support and shall not indicate intrabandENDC-Support-UL.				
intraBandENDC-Support	BC	No	N/A	N/A
Indicates whether the UE supports intra-band (NG)EN-DC with only non-contiguous				
spectrum, or with both contiguous and non-contiguous spectrum for the (NG)EN-DC				
combination as specified in TS 38.101-3 [4].				
If the UE does not include this field for an intra-band (NG)EN-DC combination, the				
UE only supports the contiguous spectrum for all the intra-band (NG)EN-DC				
component(s) in the inter-band (NG)EN-DC band 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 intrabandENDC-Support-UL is included, intraBandENDC-Support				
indicates the DL capability.				
For the inter-band (NG)EN-DC band combination with multiple intra-band (NG)EN-				
DC components as defined in clause 5.5B in the TS 38.101-3 [4]:				
- This field is applicable only if the UE supports the same spectrum contiguity				
capability in DL for all the intra-band (NG)EN-DC components.				
- If the UE supports different spectrum contiguity capabilities for the intra-band				
(NG)EN-DC components, the UE shall not include this field.				
intrabandENDC-Support-UL	BC	No	N/A	N/A
Indicates whether the UE supports intra-band (NG)EN-DC in UL with only non-				
contiguous spectrum, or with both contiguous and non-contiguous spectrum for the				
intra-band (NG)EN-DC combination as specified in TS 38.101-3 [4]. The UE				
includes this field only if the UE supports different UL and DL capabilities for the				
intra-band (NG)EN-DC band combination.				
When 'both' is indicated in intrabandENDC-Support and in intraBandENDC-				
Support-UL, the UE supports the following three cases of intra-band (NG)EN-DC:				
contiguous DL/contiguous UL, non-contiguous DL/non-contiguous UL, contiguous				
DL/non-contiguous UL.				
For the inter-band (NG)EN-DC band combination with multiple intra-band (NG)EN-				
DC components as defined in clause 5.5B in the TS 38.101-3 [4]:				
- This field is applicable only if the UE supports the same spectrum contiguity				
capability in UL for all the intra-band (NG)EN-DC components.				
- If the UE supports different spectrum contiguity capabilities in UL for the				
intra-band (NG)EN-DC components, the UE shall not include this field.				
intrabandENDC-Support-UL-v1790	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				
corresponding intra-band (NG)EN-DC component within the inter-band (NG)EN-DC				
band combination with multiple intra-band (NG)EN-DC components as defined in				
clause 5.5B in the TS 38.101-3 [4].				
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The UE includes this field only if the UE supports different UL and DL capabilities				
for the corresponding intra-band (NG)EN-DC component.				
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When 'both' is indicated in <i>intrabandENDC-Support-v1790</i> and in <i>intraBandENDC-Support-UL-v1790</i> , the UE supports the following three cases of intra-band				
Support-UL-v1790, the UE supports the following three cases of intra-band				
Support-UL-v1790, the UE supports the following three cases of intra-band (NG)EN-DC: contiguous DL/contiguous UL, non-contiguous DL/non-contiguous UL,				
Support-UL-v1790, the UE supports the following three cases of intra-band				

intrabandENDC-Support-v1790 Indicates whether the UE supports only non-contiguous spectrum, or with both	BC	No	N/A	N/A
contiguous and non-contiguous spectrum for the corresponding intra-band (NG)EN-				
DC component within the inter-band (NG)EN-DC band combination with multiple				
intra-band (NG)EN-DC components as defined in clause 5.5B in the TS 38.101-3				
[4].				
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If the UE does not include this field, the UE only supports the contiguous spectrum				
for the corresponding intra-band (NG)EN-DC component.				
If intrabandENDC-Support-UL-v1790 is absent for the corresponding intra-band				
(NG)EN-DC component and the corresponding intra-band (NG)EN-DC component				
supports DL only, this field indicates the DL capability for the corresponding intra-				
band (NG)EN-DC component. If intrabandENDC-Support-UL-v1790 is absent for				
the corresponding intra-band (NG)EN-DC component and the corresponding intra-				
band (NG)EN-DC component supports DL and UL, this field indicates the common				
capability for both DL and UL for the corresponding intra-band (NG)EN-DC				
component. If intrabandENDC-Support-UL-v1790 is included for the corresponding				
intra-band (NG)EN-DC component, intraBandENDC-Support-v1790 indicates the				
DL capability for the corresponding intra-band (NG)EN-DC component.				
interBandContiguousMRDC	BC	CY	N/A	N/A
Indicates for an inter-band (NG)EN-DC/NE-DC combination, where the frequency				
range of the E-UTRA band is a subset of the frequency range of the NR band (as				
specified in Table 5.5B.4.1-1 of TS 38.101-3 [4]), that the UE supports intra-band				
contiguous (NG)EN-DC/NE-DC requirements (see TS 38.101-3 [4]). If the field is				
absent for such an inter-band (NG)EN-DC/NE-DC combination, the UE supports				
intra-band non-contiguous (NG)EN-DC/NE-DC requirements.	50		N1/A	
interBandMRDC-WithOverlapDL-Bands-r16	BC	No	N/A	FR.
Indicates whether the UE supports FDD-FDD or TDD-TDD inter-band (NG)EN-				onl
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 (i.e. Type 2 UE). If the capability is not reported, the UE supports				
FDD-FDD or TDD-TDD inter-band operation with overlapping or partially 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 (i.e. Type 1 UE).				
maxUplinkDutyCycle-interBandENDC-FDD-TDD-PC2-r16	BC	No	N/A	FR′
Indicates the maximum percentage of symbols during a certain evaluation period		110	14/7	only
that can be scheduled for NR uplink transmission and EUTRA FDD uplink				01113
transmission so as to ensure compliance with applicable electromagnetic energy				
absorption requirements provided by regulatory bodies. This field is only applicable				
for inter-band FDD+TDD EN-DC power class 2 UE as specified in TS 38.101-3 [4].				
This capability signalling comprises of <i>maxUplinkDutyCycle-FDD-TDD-EN-DC1</i> and				
maxUplinkDutyCycle-FDD-TDD-EN-DC2 which indicate the maxUplinkDutyCycle				
capability of NR band corresponding to different LTE reference configurations as				
described in TS 38.101-3 [4], clause 6.2B.1.3. Value n30 corresponds to 30%, value				
n40 corresponds to 40% and so on.				
maxUplinkDutyCycle-interBandENDC-TDD-PC2-r16	ВС	No	TDD	FR'
Indicates the maximum percentage of symbols during a certain evaluation period			only	only
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.				
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,				
	I			
it is mandatory to report maxNumberCSI-RS-BFD and maxNumberSSB-BFD for all				

Indicates whether the UE supports activation (with or without RACH) and deactivation on SCG in EN-DC, upon reception of an RRCReconfiguration included in an RRCConnectionResume message, as specified in TS 38.331 [9] and TS 36.331 [17], A UE supporting this feature shall indicate support of EN-DC and support of resumeWithSCG-Config-r16 as specified in TS 36.331 [17]. For the UE supporting this feature, it is mandatory to report maxNumberCSI-RS-BFD and maxNumberSSB-BFD for all NR bands of this band combination where the UE supports SpCell.	ВС	No	N/A	N/A
simultaneousRxTxInterBandENDC Indicates whether the UE supports simultaneous transmission and reception in TDD-TDD, TDD-FDD and TDD-SDL inter-band (NG)EN-DC/NE-DC. It is mandatory for certain TDD-FDD, TDD-TDD and TDD-SDL band combinations defined in TS 38.101-3 [4].	ВС	CY	N/A	N/A
This capability does not apply to the following components within TDD-TDD, TDD-FDD and TDD-SDL 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 Indicates whether the UE supports simultaneous transmission and reception for each band pair in the band combination containing at least: TDD-TDD inter-band (NG)EN-DC/NE-DC component; TDD-FDD inter-band (NG)EN-DC/NE-DC component; TDD-SDL inter-band (NG)EN-DC/NE-DC component. Encoded in the same manner as simultaneousRxTxInterBandCAPerBandPair. 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 simultaneousRxTxInterBandENDC is included) or does not support for any band pair in the band combination. It is mandatory for certain band pairs as specified in TS 38.101-3 [4]. The UE shall consistently set the bits which correspond to the same band pair. Each bit of the capability only applies to TDD-TDD, TDD-FDD and TDD-SDL Interband (NG)EN-DC/NE-DC band pairs, except for the band pairs where the frequency	ВС	CY	N/A	N/A
range of the E-UTRA band is a subset of the frequency range of the NR band (as specified in Table 5.5B.4.1-1 of TS 38.101-3 [4]). singleUL-HARQ-offsetTDD-PCell-r16 Indicate support of HARQ offset for single UL transmission in synchronous (NG)EN-DC with LTE TDD PCell. UE indicates support of this feature shall indicate support	ВС	No	N/A	N/A
of tdm-restrictionTDD-endc-r16. singleUL-Transmission Indicates that the UE does not support simultaneous UL transmissions as defined in TS 38.101-3 [4]. The UE may only include this field for certain band combinations defined in TS 38.101-3 [4]. If included for a particular band combination, the field applies to all fallback band combinations of this band combination that are defined in TS 38.101-3 [4] as being allowed to include this field and does not apply to any other fallback band combinations defined in TS 38.101-3 [4]. The UE shall include this field for band combinations containing a band pair for which single UL transmission is the only specified operation mode in TS 38.101-3 [4] and if the UE supports UL on both bands. Otherwise, this feature is optional.	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.	ВС	СҮ	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.	ВС	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].	ВС	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].	BC	No	N/A	N/A
This capability applies to: - Intra-band contiguous (NG)EN-DC combination without additional inter-band NR and LTE CA component; - Intra-band contiguous (NG)EN-DC combination supporting both UL and DL intra-band (NG)EN-DC parts with additional inter-band NR/LTE CA component;				
 Inter-band (NG)EN-DC combination, where the frequency range of the E- UTRA band is a subset of the frequency range of the NR band (as specified in Table 5.5B.4.1-1 of TS 38.101-3 [4]). 				
If this capability is included in an "Intra-band contiguous (NG)EN-DC combination supporting both UL and DL intra-band (NG)EN-DC parts with additional inter-band NR/LTE CA component", this capability applies to the intra-band (NG)EN-DC BC part.				

4.2.7.10 Phy-Parameters

Definitions for parameters	Per	М	FDD- TDD DIFF	FR1- FR2 DIFF
absoluteTPC-Command Indicates whether the UE supports absolute TPC command mode.	UE	No	No	Yes
additionalSR-Periodicities-r18 Indicates whether the UE supports the following SR periodicities in the periodicityAndOffset parameter as specified in TS 38.331 [9]. The capability signalling comprises the following parameters: - Value scs-30kHz-r18 indicates the support of 5slots for 30 kHz SCS - Value scs-120kHz-r18 indicates the support of 5slots and 10slots for 120 kHz SCS	UE	No	No	No
 advReceiver-MU-MIMO-r18 Indicates whether the UE supports R-ML (reduced complexity ML) receivers with enhanced inter-user interference suppression, for MU-MIMO up to maxNumberMIMO-LayersPDSCH layers across target and co-scheduled UEs with 2RX and 4RX antennas, when co-scheduled UE(s)' modulation order is explicitly signalled by DCI index 1-5 in Table 7.3.1.2.2-12 of TS 38.212 [10]. NOTE: UE supports R-ML on MU-MIMO on single carrier operation. UE optionally supports R-ML on MU-MIMO on one or more carriers in CA, NE-DC, NR-DC and EN-DC operation. 	UE	No	No	FR1 only
A UE supporting this feature shall also support SU-MIMO Interference Mitigation advanced receiver in clause 5.				
aggregationFactorSPS-DL-r16 Indicates whether the UE supports configurable PDSCH aggregation factor ({1, 2, 4, 8}) per DL SPS configuration. The UE can include this feature only if the UE indicates support of downlinkSPS.	UE	No	No	Yes
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. This capability is optional for NCR-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}	UE	No	No	No
The UE indicating support of this feature shall also support bwp-SwitchingDelay, bwp-SameNumerology and/or bwp-DiffNumerology. bwp-SwitchingMultiDormancyCCs-r16	UE	No	No	No
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.	<u> </u>			

 bwp-SwitchingMultiDormancyCC-DCI-0-3-And-1-3-r18 Indicates whether the UE supports incremental delay for BWP switch processing on additional SCells in DCI based simultaneous dormant BWP switching on multiple SCells while DCI format 0_3/1_3 is used as specified in TS 38.133 [5]. The capability signalling comprises the following parameters: type1-r18 indicates the delay value for type 1 BWP switching delay and has values of {100μs, 200μs} type2-r18 indicates the delay value for type 2 BWP switching delay and has values of {200μs, 400μs, 800μs, 1000μs} A UE supporting this feature shall also indicate support of 	UE	No	No	No
scellDormancyWithinActiveTime-DCI-0-3-And-1-3-r18.				
cbg-FlushIndication-DL	UE	No	No	No
Indicates whether the UE supports CBG-based (re)transmission for DL using CBG flushing out information (CBGFI) as specified in TS 38.214 [12].	OL	INO	INO	NO
cbg-TransIndication-DL	UE	No	No	No
Indicates whether the UE supports CBG-based (re)transmission for DL using CBG transmission information (CBGTI) as specified in TS 38.214 [12].	OL		140	140
cbg-TransIndication-UL	UE	No	No	No
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].	OL.	110	110	110
cbg-TransInOrderPUSCH-UL-r16 Indicates whether the UE supports CBG-based re-transmission(s) of a TB using CBG transmission information (CBGTI) as specified in TS 38.214 [12] in the following two cases (both are considered as in-order CBG-based retransmission(s)): 1. if the initial PUSCH transmission was not cancelled due to gNB scheduling/indication/configuration; and 2. if the initial PUSCH transmission was cancelled due to gNB scheduling/indication/configuration and the following condition is satisfied: the UE is scheduled for a re-transmission of a CBG #N in a given TB when CBG #N-1 has been transmitted before or is scheduled in the same UL grant that includes CBG#N.	UE	No	No	No
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
configurable Type-1A-FieldsForDCI-0-3-And-1-3-r18 Indicates whether the UE supports Type-1A for 'Antenna port(s)' field for DCI format 1_3 and Type-1A for 'Antenna port(s)', 'Precoding information and number of layers' and 'SRS resource indicator' fields for DCI format 0_3. A UE supporting this feature shall also indicate support of at least one of multiCell-PDSCH-DCI-1-3-SameSCS-r18, multiCell-PDSCH-DCI-1-3-DiffSCS-r18, multiCell-PUSCH-DCI-0-3-SameSCS-r18 or multiCell-PUSCH-DCI-0-3-DiffSCS-r18.	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. In this release, the same value shall be indicated for the frequency ranges.	UE	No	No	Yes

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	No	No	Yes
UE indicating support of this feature shall also indicate support of <i>csi-ReportFramework</i> .				
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 Indicates whether the UE supports the priority indicator field configured in DCI formats 1_1 and 1_2 in a BWP when configured to monitor both DCI formats 1_1 and 1_2 in the BWP.	UE	No	No	No
dci-Format1-2And0-2-r16 Indicates whether the UE supports monitoring DCI format 1_2 for DL scheduling and monitoring DCI format 0_2 for UL scheduling.	UE	No	No	No
dci-UL-PriorityIndicator-r16 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 ul-IntraUE-Mux-r16 and dci-Format1-2And0-2-r16.	UE	No	No	No
defaultSpatialRelationPathlossRS-r16 Indicates the UE support of default spatial relation and pathloss reference RS for 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.	UE	No	No	FR2 only

deltaPowerClassReporting-r18 Indicates whether the UE supports ΔP _{PowerClass} /ΔP _{PowerClass} , CA/ΔP _{PowerClass} , EN-DC/ΔP _{PowerClass} , NR-DC reporting which is triggered upon uplink duty cycle exceedance or upon return to the power class after the duty cycle exceedance, as specified in TS 38.101-1 [2] and TS 38.101-3 [4]. Value type1 indicates the UE can only report ΔP _{PowerClass} for non-CA operation, value type2 indicates the UE can report ΔP _{PowerClass} for non-CA operation, and the UE can also report ΔP _{PowerClass} / ΔP _{PowerClass} , CA/ΔP _{PowerClass} , EN-DC/ΔP _{PowerClass} , NR-DC for CA operation.	UE	No	No	FR1 only
dI-64QAM-MCS-TableAlt Indicates whether the UE supports the alternative 64QAM MCS table for PDSCH.	UE	No	No	Yes
dl-SchedulingOffset-PDSCH-TypeA Indicates whether the UE supports DL scheduling slot offset (K0) greater than 0 for PDSCH mapping type A.	UE	Yes	Yes	Yes
dl-SchedulingOffset-PDSCH-TypeB Indicates whether the UE supports DL scheduling slot offset (K0) greater than 0 for PDSCH mapping type B.	UE	Yes	Yes	Yes
downlinkSPS Indicates whether the UE supports PDSCH reception based on semi-persistent scheduling. One SPS configuration is supported per cell group. This applies only to non-shared spectrum channel access. For shared spectrum channel access, downlinkSPS-r16 applies.	UE	No	No	No
dynamicBetaOffsetInd-HARQ-ACK-CSI Indicates whether the UE supports indicating beta-offset (UCI repetition factor onto PUSCH) for HARQ-ACK and/or CSI via DCI among the RRC configured beta-offsets.	UE	No	No	No
dynamicHARQ-ACK-Codebook Indicates whether the UE supports HARQ-ACK codebook dynamically constructed by DCI(s). This field shall be set to supported.	UE	Yes	No	No
dynamicHARQ-ACK-CodeB-CBG-Retx-DL Indicates whether the UE supports HARQ-ACK codebook size for CBG-based (re)transmission based on the DAI-based solution as specified in TS 38.213 [11].	UE	No	No	No
dynamicIndicationSchedulingRestriction-r18 Indicates whether the UE supports dynamic indication of applicable minimum scheduling restriction by DCI format 0_3 and 1_3, minimum scheduling offset K0 configuration for PDSCH and aperiodic CSI-RS triggering offset, minimum scheduling offset K2 configuration for PUSCH and extended value range for aperiodic CSI-RS triggering offset. A UE supporting this feature shall also indicate support of at least one of multiCell-PDSCH-DCI-1-3-SameSCS-r18, multiCell-PDSCH-DCI-1-3-DiffSCS-r18, multiCell-	UE	No	No	No
PUSCH-DCI-0-3-SameSCS-r18 and multiCell-PUSCH-DCI-0-3-DiffSCS-r18. dynamicPRB-BundlingDL Indicates whether UE supports DCI-based indication of the PRG size for PDSCH	UE	No	No	No
reception. dynamicSFI Indicates whether the UE supports monitoring for DCI format 2_0 and determination of slot formats via DCI format 2_0. This applies only to non-shared spectrum channel access. For shared spectrum channel access, dynamicSFI-r16 applies. This capability is not applicable to NCR-MT.	UE	No	Yes	Yes
dynamicSwitchRA-Type0-1-PDSCH Indicates whether the UE supports dynamic switching between resource allocation Types 0 and 1 for PDSCH as specified in TS 38.212 [10].	UE	No	No	No
dynamicSwitchRA-Type0-1-PUSCH Indicates whether the UE supports dynamic switching between resource allocation Types 0 and 1 for PUSCH as specified in TS 38.212 [10].	UE	No	No	No
enhancedPowerControl-r16 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.	UE	No	No	Yes
extendedCG-Periodicities-r16 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].	UE	No	No	No

extendedSPS-Periodicities-r16 Indicates that the UE supports extended periodicities for downlink SPS as specified by periodicityExt-r16 field of IE SPS-Config in TS 38.331 [9].	UE	No	No	No
fdd-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 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.	UE	No	FDD only	FR1 only
fdra-Type-1-Gty-2-4-8-16-RBs-RIV-DCI-1-3-And-0-3-r18 Indicates whether the UE supports FDRA Type 1 granularity of 2, 4, 8, or 16 consecutive RBs based RIV for DCI format 0_3 and FDRA Type 1 granularity of 2, 4, 8, or 16 consecutive RBs based RIV for DCI format 1_3. A UE supporting this feature shall also indicate support of at least one of multiCell-PDSCH-DCI-1-3-SameSCS-r18, multiCell-PDSCH-DCI-1-3-DiffSCS-r18, multiCell-PUSCH-DCI-0-3-DiffSCS-r18.	UE	No	No	No
harqACK-CB-SpatialBundlingPUCCH-Group-r16 Indicates whether the UE supports HARQ-ACK codebook type and HARQ-ACK spatial bundling configuration per PUCCH group as specified in TS 38.213 [11]. If the UE indicates support of this, it also supports two NR PUCCH groups with same numerology by setting twoPUCCH-Group to supported.	UE	No	No	No
 harqACK-separateMultiDCI-MultiTRP-r16 Indicates whether the UE support of separate HARQ-ACK. The capability signalling of this feature includes the following: 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 multiDCI-MultiTRP-r16. 	UE	No	No	No
harqACK-jointMultiDCI-MultiTRP-r16 Indicates whether the UE support of joint HARQ-ACK. The UE that indicates support of this feature shall support multiDCI-MultiTRP-r16.	UE	No	No	No
k1-RangeExtensionATG-r18 Indicates whether the UE supports extended K1 value range of (031) for unpaired spectrum. The UE indicating support of this feature shall also indicate support of airToGroundNetwork-r18. NOTE: This capability is applicable only for bands defined in Clause 5.2J in TS 38.101-1 [2].	UE	No	TDD only	FR1 only
pucch-F0-2WithoutFH 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.	UE	Yes	No	Yes
pucch-F1-3-4WithoutFH Indicates whether the UE supports transmission of a PUCCH format 1, 3 or 4 without frequency hopping. When included, the UE does not support PUCCH formats 1, 3 and 4 without frequency hopping. When not included, the UE supports the PUCCH formats 1, 3 and 4 without frequency hopping.	UE	Yes	No	Yes
interleaving VRB-ToPRB-PDSCH Indicates whether the UE supports receiving PDSCH with interleaved VRB-to-PRB mapping as specified in TS 38.211 [6].	UE	Yes	No	No
interSlotFreqHopping-PUSCH Indicates whether the UE supports inter-slot frequency hopping for PUSCH transmissions.	UE	No	No	No
intraSlotFreqHopping-PUSCH 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.	UE	Yes	No	Yes
jointPowerSpatialAdaptation-r18 Indicates whether the UE supports joint operation of power domain and spatial domain adaptation. A UE supporting this feature shall also indicate one of the following capabilities: {spatialAdaptation-CSI-Feedback-r18}, or {spatialAdaptation-CSI-FeedbackPUSCH-r18} and powerAdaptation-CSI-FeedbackPUSCH-r18}, or {spatialAdaptation-CSI-FeedbackPUCCH-r18} and powerAdaptation-CSI-FeedbackPUCCH-r18}, or {spatialAdaptation-CSI-FeedbackAperiodic-r18}.	UE	No	No	No

maxHARQ-ProcessNumberATG-r18 Indicates the maximal supported HARQ process numbers for UL and for DL respectively. For each value of maxHARQ-ProcessNumberATG-r18, 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 16 for DL, value u32d32 indicates the maximal supported HARQ process number is 32 for UL and 32 for DL. The UE indicating support of this feature shall also indicate support of airToGroundNetwork-r18. NOTE: This capability is applicable only for bands defined in Clause 5.2J in TS 38.101-1 [2].	UE	No	No	FR1 only
maxLayersMIMO-Adaptation-r16 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.	UE	No	No	Yes
maxLayersMIMO-Indication Indicates whether the UE supports the network configuration of maxMIMO-Layers as specified in TS 38.331 [9].	UE	Yes	No	No
maxNumberPathlossRS-update-r16 Indicates the maximum number of configured pathloss reference RSs for PUSCH/PUCCH/SRS by RRC that the UE can support for MAC-CE based pathloss reference RS update.	UE	No	No	No
maxNumberSearchSpaces Indicates whether the UE supports up to 10 search spaces in an SCell per BWP.	UE	No	No	No
maxNumberSRS-PosPathLossEstimateAllServingCells-r16 Indicates the maximum number of pathloss estimates that the UE can simultaneously maintain for all the SRS resource sets for positioning across all cells in addition to the up to four pathloss estimates that the UE maintains per serving cell for the PUSCH/PUCCH/SRS transmissions. The UE shall include this field if the UE supports any of olpc-SRS-PosBasedOnPRS-Serving-r16, olpc-SRS-PosBasedOnPRS-Neigh-r16. Otherwise, the UE does not include this field;	UE	No	No	No
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, spatialRelation-SRS-PosBasedOnCSI-RS-Serving-r16, spatialRelation-SRS-PosBasedOnSSB-Neigh-r16 or spatialRelation-SRS-PosBasedOnPRS-Neigh-r16. Otherwise, the UE does not include this field;	UE	No	No	FR2 only

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:	UE	No	No	No
 maxNumberResWithinSlotAcrossCC-AcrossFR-r16 indicates maximum total number of SSB/CSI-RS/CSI-IM resources configured to measure within a slot across all CCs across all frequency ranges for any of L1-RSRP measurement, L1-SINR measurement, pathloss measurement, BFD, RLM and new beam identification. maxNumberResAcrossCC-AcrossFR-r16 indicates maximum total number of SSB/CSI-RS/CSI-IM resources configured across all CCs across all frequency ranges for any of L1-RSRP measurement, 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 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'. 				

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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	UE	CY	No	Yes
CORESET with CORESET-ID 0 in the BWP. It is mandatory with capability signalling for FR2 and optional for FR1.				

multipleCORESET-RedCap-r17 Indicates whether the (e)RedCap UE supports configuration of up to three PDCCH	UE	No	No	Yes
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 (e)RedCap UE				
reporting this capability shall also report multipleCORESET.				
multiPUSCH-DCI-0-1-r18 Indicates whether the UE supports multi-PUSCHs type 2 configured grant release	UE	No	No	No
by DCI format 0_1.				
A UE supporting this feature shall indicate support of <i>configuredUL-GrantType2</i> . A UE supporting this feature and <i>dci-Format1-2And0-2-r16</i> (DCI format 0_2/1_2)				
shall also support <i>type2-CG-ReleaseDCI-0-2-r16</i> (Type 2 configured grant release				
by DCI format 0_2).				
multiPUSCH-DCI-0-2-r18 Indicates whether the UE supports multi-PUSCHs type 2 configured grant release	UE	No	No	No
by DCI format 0_2.				
A UE supporting this feature shall indicate support of <i>configuredUL-GrantType2</i> and <i>type2-CG-ReleaseDCI-0-1-r16</i> .				
multiRxPreferenceIndication-r18	UE	No	TDD	FR2-1
Indicates whether the UE supports providing multi-Rx operation preference for FR2,			only	only
as defined in TS 38.331 [9]. NOTE: It is only supported for power class 3.				
mux-HARQ-ACK-PUSCH-DiffSymbol	UE	Yes	No	Yes
Indicates whether the UE supports HARQ-ACK piggyback on a PUSCH with/without aperiodic CSI once per slot when the starting OFDM symbol of the PUSCH is				
different from the starting OFDM symbols of the PUCCH resource that HARQ-ACK				
would have been transmitted on. This applies only to non-shared spectrum channel access. For shared spectrum channel access, <i>mux-HARQ-ACK-PUSCH-</i>				
DiffSymbol-r16 applies.				
mux-HARQ-ACK-withoutPUCCH-onPUSCH-r16	UE	Yes	No	No
Indicates that the UE is implemented according to the definition in TS 38.213 [11] for multiplexing HARQ-ACK in a PUSCH in a PUCCH slot when the UE has no				
HARQ-ACK for any DL activity to transmit, but it receives UL grant(s) with UL-TDAI				
field indicating HARQ-ACK multiplexing on a PUSCH, and it transmits multiple PUSCHs in the PUCCH slot. In this release of the specification, the UE shall include				
this field.				
mux-MultipleGroupCtrlCH-Overlap Indicates whether the UE supports more than one group of overlapping PUCCHs	UE	No	No	Yes
and PUSCHs per slot per PUCCH cell group for control multiplexing.				
mux-SR-HARQ-ACK-CSI-PUCCH-MultiPerSlot	UE	No	No	Yes
Indicates whether the UE supports multiplexing SR, HARQ-ACK and CSI on a PUCCH or piggybacking on a PUSCH more than once per slot when SR, HARQ-				
ACK and CSI are supposed to be sent with the same or different starting symbol in				
a slot. This applies only to non-shared spectrum channel access. For shared spectrum channel access, <i>mux-SR-HARQ-ACK-CSI-PUCCH-MultiPerSlot-r16</i>				
applies.				
mux-SR-HARQ-ACK-CSI-PUCCH-OncePerSlot sameSymbol indicates the UE supports multiplexing SR, HARQ-ACK and CSI on a	UE	FD	No	Yes
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 <i>sameSymbol</i> in this field and does not support <i>mux-HARQ-ACK-PUSCH-DiffSymbol</i> , the UE supports HARQ-ACK/CSI piggyback on PUSCH once				
per slot, when the starting OFDM symbol of the PUSCH is the same as the starting				
OFDM symbols of the PUCCH resource(s) that would have been transmitted on.				
If the UE indicates <i>sameSymbol</i> in this field and supports <i>mux-HARQ-ACK-PUSCH-DiffSymbol</i> , the UE supports HARQ-ACK/CSI piggyback on PUSCH once per slot				
for which case the starting OFDM symbol of the PUSCH is the different from the				
starting OFDM symbols of the PUCCH resource(s) that would have been transmitted on. This applies only to non-shared spectrum channel access. For				
shared spectrum channel access, mux-SR-HARQ-ACK-CSI-PUCCH-OncePerSlot-				
r16 applies.				

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
nominalRBG-SizeOfConfig-3-FDRA-Type-0-DCI-0-3-r18 Indicates whether the UE supports nominal RBG size of Configuration 3 for FDRA type 0 for DCI format 0_3. A UE supporting this feature shall also indicate support of at least one of multiCell-PUSCH-DCI-0-3-SameSCS-r18 or multiCell-PUSCH-DCI-0-3-DiffSCS-r18.	UE	No	No	No
nominalRBG-SizeOfConfig-3-FDRA-Type-0-DCI-1-3-r18 Indicates whether the UE supports nominal RBG size of Configuration 3 for FDRA type 0 for DCI format 1_3. A UE supporting this feature shall also indicate support of at least one of multiCell-PDSCH-DCI-1-3-DiffSCS-r18	UE	No	No	No
nzp-CSI-RS-IntefMgmt	UE	No	No	No
Indicates whether the UE supports interference measurements using NZP CSI-RS. oneFL-DMRS-ThreeAdditionalDMRS-UL Defines whether the UE supports DM-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 Defines whether UE supports PT-RS with 1 antenna port in DL reception and/or UL transmission. It is mandatory with UE capability signalling for FR2 and optional for FR1. The left most in the bitmap corresponds to DL reception and the right most bit in the bitmap corresponds to UL transmission.	UE	CY	No	Yes
onePUCCH-LongAndShortFormat Indicates whether the UE supports transmission of one long PUCCH format and one short PUCCH format in TDM in the same slot.	UE	No	No	Yes
pathlossEstimation2PortCSI-RS-r16 Indicates whether the UE supports 2 port CSI-RS for pathloss estimation with the same resource counting as in maxTotalResourcesForOneFreqRange-r16 and maxTotalResourcesForAcrossFreqRanges-r16.	UE	No	No	No
pathlossRS-UpdateForType1CG-PUSCH-r18 Indicates whether the UE supports configuration of enablePL-RS- UpdateForType1CG-PUSCH-r18 as specified in TS 38.331 [9]. A UE supporting this feature shall also support configuredUL-GrantType1 and maxNumberPathlossRS-Update-r16.	UE	No	No	No
pCell-FR2 Indicates whether the UE supports PCell operation on FR2.	UE	Yes	No	FR2 only
pdcch-MonitoringSingleOccasion Indicates whether the UE supports receiving PDCCH in a search space configured to be monitored within a single span of any three contiguous OFDM symbols in a slot with the capability of supporting at least 44 blind decodes in a slot for 15 kHz subcarrier spacing.	UE	No	No	FR1 only
pdcch-BlindDetectionCA Indicates PDCCH blind decoding capabilities supported by the UE for CA with more than 4 CCs as specified in TS 38.213 [11]. The field value is from 4 to 16. NOTE: FR1-FR2 differentiation is not allowed in this release, although the	UE	No	No	No
capability signalling is supported for FR1-FR2 differentiation. pdcch-BlindDetectionMCG-UE Indicates PDCCH blind decoding capabilities supported for MCG when in NR-DC. The field value is from 1 to 15. The UE sets the value in accordance with the constraints specified in TS 38.213 [11]. Additionally, if the UE does not report pdcch-BlindDetectionCA, and if X is the maximum number of CCs supported by the UE across all NR-DC band combinations then there is at least one parameter pair (X1, X2) such that X1 + X2 = X and the UE supports at least one NR-DC band combination with X1 CCs in MCG and X2 CCs in SCG and for which X1 <= pdcch-BlindDetectionMCG-UE and X2 <=	UE	No	No	Yes

pdcch-BlindDetectionSCG-UE	UE	No	No	Yes
Indicates PDCCH blind decoding capabilities supported for SCG when in NR-DC.				
The field value is from 1 to 15. The UE sets the value in accordance with the				
constraints specified in TS 38.213 [11].				
Additionally, if the UE does not report <i>pdcch-BlindDetectionCA</i> , and if X is the				
maximum number of CCs supported by the UE across all NR-DC band				
combinations then there is at least one parameter pair (X1, X2) such that X1 + X2 =				
X and the UE supports at least one NR-DC band combination with X1 CCs in MCG				
and X2 CCs in SCG and for which X1 <= pdcch-BlindDetectionMCG-UE and X2 <=				
pdcch-BlindDetectionSCG-UE.				
pdcch-MonitoringAnyOccasionsWithSpanGapCrossCarrierSch-r16	UE	No	No	No
Indicates how the UE supports pdcch-MonitoringAnyOccasionsWithSpanGap in				
case of cross-carrier scheduling with different SCSs in the scheduling cell and the				
scheduled cell.				
Value 'mode2' indicates pdcch-MonitoringAnyOccasionsWithSpanGap is supported				
for the band of the scheduling/triggering/indicating cell.				
Value 'mode3' indicates pdcch-MonitoringAnyOccasionsWithSpanGap is supported				
in both the band of the scheduled/triggered/indicated cell and the band of the				
scheduling/triggering/indicating cell.				
UE indicating support of these feature indicates support of <i>pdcch</i> -				
MonitoringAnyOccasionsWithSpanGap and crossCarrierSchedulingDL-DiffSCS-r16.				
wormoring my occasions warepart cap and cross carrier concading be binded in to.				
NOTE: For pdcch-MonitoringAnyOccasionsWithSpanGap, the supported set				
(set1, set2 or set 3) for cross-carrier scheduling with the different SCSs in				
the scheduling cell and the scheduled cell is still based on the indicated				
value for the band of the scheduling cell.				
pdcch-MonitoringSingleSpanFirst4Sym-r16	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 that				
are within the first four OFDM symbols in a slot with the capability of supporting at				
least 44 blind decodes in a slot for 15 kHz subcarrier spacing.				
pdsch-256QAM-FR1	UE	CY	No	FR1
Indicates whether the UE supports 256QAM modulation scheme for PDSCH for				only
FR1 as defined in 7.3.1.2 of TS 38.211 [6].				
It is optional for (e)RedCap UEs, IAB-MT, and NCR-MT, and mandatory with				
capability signalling for other UEs.				
pdsch-MappingTypeA	UE	Yes	No	No
Indicates whether the UE supports receiving PDSCH using PDSCH mapping type A				
with less than seven symbols. This field shall be set to <i>supported</i> .				
pdsch-MappingTypeB	UE	Yes	No	No
Indicates whether the UE supports receiving PDSCH using PDSCH mapping type	5	169	140	140
B. pdsch-RepetitionMultiSlots	UE	No	No	No
	UE	No	No	No
Indicates whether the UE supports receiving PDSCH scheduled by DCI format 1_1				
when configured with <i>pdsch-AggregationFactor</i> > 1, as defined in 5.1.2.1 of TS				
38.214 [12]. This applies only to non-shared spectrum channel access. For shared				
spectrum channel access, pdsch-RepetitionMultiSlots-r16 applies.				
pdsch-RE-MappingFR1-PerSymbol/pdsch-RE-MappingFR1-PerSlot	UE	Yes	No	FR1
Indicates the maximum number of supported PDSCH Resource Element (RE)				only
mapping patterns for FR1, each described as a resource (including NZP/ZP CSI-				
RS, CRS, CORESET and SSB) or bitmap. The number of patterns coinciding in a				
symbol in a CC and in a slot in a CC are limited by the respective capability				
parameters. Value n10 means 10 RE mapping patterns and n16 means 16 RE				
mapping patterns, and so on. The UE shall set the fields pdsch-RE-MappingFR1-				
PerSymbol and pdsch-RE-MappingFR1-PerSlot to at least n10 and n16,				
respectively. In the exceptional case that the UE does not include the fields, the				
network may anyway assume that the UE supports the required minimum values.				
notwork may arryway assume that the OL supports the required minimum values.				

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	UE	No	No	No
domain as specified in TS 38.211 [6]. 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
priorityIndicationDL-r18 Indicates whether the UE supports priority indicator field configured in DCI formats 1_3 and (1_1 or 1_2) in a BWP when configured to monitor both DCI formats 1_3 and (1_1 or 1_2) in the BWP. A UE supporting this feature shall also indicate support of simultaneous-2-1-HARQ-ACK-CB-r18.	UE	No	No	No
priorityIndicationOneSlotHARQ-r18 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 format 1_3. A UE supporting this feature shall also indicate support of type3HARQ-CB-DCI-1-3-r18 and simultaneous-2-1-HARQ-ACK-CB-r18.	UE	No	No	No
priorityIndicationUL-r18 Indicates whether the UE supports priority indicator field configured in DCI formats 0_3 and (0_1 or 0_2) in a BWP when configured to monitor both DCI formats 0_3 and (0_1 or 0_2) in the BWP. A UE supporting this feature shall also indicate support of ul-IntraUE-MuxEnh-r18.	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 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. For MO-SDT, a UE can include this feature only if the UE indicates the support of cg-SDT-r17. For MT-SDT, a UE can include this feature only if the UE indicates the support of mt-CG-SDT-r18 and mt-SDT-r18/mt-SDT-NTN-r18.	UE	No	No	No
pusch-RepetitionMultiSlots 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	Yes	No	No

pucch-Repetition-F1-3-4 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	UE	Yes	No	No
spectrum channel access. For shared spectrum channel access, <i>pucch-Repetition-F1-3-4-r16</i> applies.				
pusch-HalfPi-BPSK	UE	Yes	No	Yes
Indicates whether the UE supports pi/2-BPSK modulation scheme for PUSCH as defined in 6.3.1.2 of TS 38.211 [6]. It is mandatory with capability signalling for FR1 and FR2. This capability is not applicable to IAB-MT.				
pusch-LBRM	UE	No	No	Yes
Indicates whether the UE supports limited buffer rate matching in UL as specified in TS 38.212 [10].	02		110	
pusch-RepetitionTypeA-r16 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 of at least one of type2-PUSCH-RepetitionMultiSlots and pusch-RepetitionMultiSlots for shared spectrum and non-shared spectrum respectively.	UE	No	No	No
ra-Type0-PUSCH	UE	No	No	No
Indicates whether the UE supports resource allocation Type 0 for PUSCH as specified in TS 38.214 [12].				
rateMatchingCtrlResrcSetDynamic Indicates whether the UE supports dynamic rate matching for DL control resource set.	UE	Yes	No	No
rateMatchingResrcSetDynamic Indicates whether the UE supports receiving PDSCH with resource mapping that excludes the REs corresponding to resource sets configured with RB-symbol level granularity indicated by 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].	UE	No	No	No
rateMatchingResrcSetSemi-Static	UE	Yes	No	No
Indicates whether the UE supports receiving PDSCH with resource mapping that excludes the REs corresponding to resource sets configured with RB-symbol level granularity indicated by <i>bitmaps</i> and <i>controlResourceSet</i> (see <i>patternType</i> in <i>RateMatchPattern</i> in TS 38.331[9]) following the semi-static configuration as specified in TS 38.214 [12].	<u> </u>			
scs-60kHz	UE	No	No	FR1
Indicates whether the UE supports 60kHz subcarrier spacing for data channel in FR1 as defined in clause 4.2-1 of TS 38.211 [6]. This capability is not applicable to eRedCap UEs.	-			only
semiOpenLoopCSI Indicates whether UE supports CSI reporting with report quantity set to 'CRI/RI/i1/CQI' as defined in clause 5.2.1.4 of TS 38.214 [12].	UE	No	No	Yes
semiStaticHARQ-ACK-Codebook Indicates whether the UE supports HARQ-ACK codebook constructed by semistatic configuration.	UE	Yes	No	No
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 <i>tci-StatePDSCH</i> .			-	
simultaneous Spatial Relation Multiple CC-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 maxNumber Configured Spatial Relations and	UE	No	No	FR2 only
maxNumberActiveSpatialRelations. 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	No	No	No
UE indicating support of this feature shall also indicate support of <i>pucch-Repetition-F1-3-4</i> or <i>pucch-Repetition-F0-2-r17</i> .				
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	UE	Yes	No	No
for a DL MIMO data is bundled into a single bit by logical "AND" operation.				

spatialRelationUpdateAP-SRS-r16 Indicates the UE support of spatial relation update for AP-SRS using MAC CE. The UE indicating support of this also indicates the capabilities of supported SRS resources and maximum supported spatial relations for the supported FR2 bands using supportedSRS-Resources and maxNumberConfiguredSpatialRelations.	UE	No	No	FR2 only
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. 	UE	No	TDD only	No
A UE supporting this feature shall also indicate support of <i>downlinkSPS</i> . sp-CSI-IM	UE	No	No	Yes
Indicates whether the UE supports semi-persistent CSI-IM. sp-CSI-ReportPUCCH	UE	No	No	No
Indicates whether UE supports semi-persistent CSI reporting using PUCCH formats 2, 3 and 4. This applies only to non-shared spectrum channel access. For shared spectrum channel access, <i>sp-CSI-ReportPUCCH-r16</i> applies.	UE	NO	INO	INO
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 srs-increasedRepetition-r17.				
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
 support5MHz-ChannelBW-20PRB-CORESET0-r18 Indicates whether the UE supports short RACH preamble formats with 15kHz SCS, and long PRACH formats with 1.25kHz SCS, and the reception of 20 PRB CORESET0. This feature is supported for 15 kHz SCS only (except for the PRACH formats with 1.25kHz SCS). This feature is only applicable when an associated SS/PBCH block is located in band n100 at GSCN 41638 of Table 5.4.3.1-3 in TS 38.101-1 [2]. This feature is not applicable to UEs indicating supportOfRedCap-r17 or supportOfERedCap-r18. NOTE: The UE supporting this feature supports configuration of 20 PRB BWP operation. 	UE	No	FDD only	FR1 only

Support12PRB-CORESTO-GSCN-41637-78 UR No FDD FR1 only associated SSPBCH block located at GSCN 41637. A UE supporting this feature shall also indicate support of support3MHz-ChannelBW-Symmetric-r18. This feature is supported for 15 kHz SCS only (except for the PRACH formats with 125kHz SCS). This feature is only applicable when an associated SSPBCH block is located in band in100 at GSCN 41637 of Table 54.3-13 in TS 38.101-1 [2]. NOTE: The UE supporting this FG supports configuration of 12 PRB BWP operation. This feature is not applicable to UEs indicating support0/RedCap-r17 or support0/RedCap-r18. SupportedActivated/RS-ProcessingWindowNr17 Indicates the number of supported activated PRS-ProcessingWindowNrye14-P17 or prs-Proces					
ChannelBW-Symmetric-r18. This feature is supported for 15 kHz SCS only (except for the PRACH formats with 1.25kHz SCS). This feature is only applicable when an associated SS/PBCH block is located in band n100 at GSCN 41637 of Table 5.4.3.1-3 in TS 38.101-1 [2]. NOTE: The UE supporting this FG supports configuration of 12 PRB BWP operation. This feature is not applicable to UEs indicating supportO/RedCap-r17 or supportO/ERedCap-r18. SupportedCavitade/PRS-ProcessingWindow-r17 Indicates the number of supported advisuated PRS processing windows across all active DL BWPS. The UE can include this field only if the UE supports one of prs-ProcessingWindowType-17. Otherwise, the UE does not include this field. 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 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 apported 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 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. Type 1 is supported to the type 2 is mandatory with capability signalling. If this field is not included in the UE support site value 0 for the parameter sequenceOffsetforRV. The UE indicating support of this capability shall also indicates support of supported. For multi-DCI multi-TRP is not supported programmed delay compensation based on Rel-13 Ta procedure for TN and non-shared spectrum channel access. For multi-DCI multi-TRP is not sup	Indicates whether the UE supports reception of 12 PRB CORESET0 with an associated SS/PBCH block located at GSCN 41637.	UE	No	l	
band n100 at GSCN 41637 of Table 5.4.3.1-3 in TS 38.101-1 [2]. NOTE: The UE supporting this FG supports configuration of 12 PRB BWP operation. This feature is not applicable to UEs indicating supportO/RedCap-r17 or supportO/RedCap-r18. Supported Activated/PRS-Processing/Window-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-Processing/WindowType-14-r17, prs-Processing/WindowType-14-r17, prs-Processing/WindowType-14-r17. Otherwise, the UE does not include this field. Supported DMrRS-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. Supported DM-RS configuration types at the UE for UL transmission. Supported DM-RS configuration types at the UE for UL transmission. Supported DM-RS configuration types at the UE for UL transmission. Supported DM-RS configuration types at the UE for UL transmission. Supported DM-RS configuration types at the UE for UL transmission. Supported DM-RS configuration types at the UE for UL transmission. Supported DM-RS configuration types at the UE for UL transmission. Included the supported DM-RS configuration types at the UE for UL transmission. Supported DM-RS configuration types at the UE for UL transmission. Supported DM-RS configuration types at the UE for UL transmission. Supported DM-RS configuration types at the UE for UL transmission set under the UE supported DM-RS configuration types at the UE for UL transmission set to 12 for at least one band. Supported DM-RS configuration the Stature is reported, UE does not support extransmission scheduled by a different CORESETPoolindex for multi-DCI multi-TRP operation, if this feature is reported, UE does not support extransmission scheduled by PDCCH received in a different CORESETPoolindex that schedules the retransmission set of the UE supports propagation de	ChannelBW-Symmetric-r18. This feature is supported for 15 kHz SCS only (except				
operation. This feature is not applicable to UEs indicating supportOfRedCap-r17 or supportOfRedCap-r18. 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-ProcessingWindowType 2-r17. Otherwise, the UE does not include this field. SupportedDMRS-TypeDL Defines supported DM-RS configuration types at the UE for DL reception. Type 1 is 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 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. Type 1 is 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. SupportRepetitionZeroOffsetRV-r6 Indicates whether UE supports the value 0 for the parameter sequenceOffsetforRV. The UE indicating support of this capability shall also indicate support of Support of Support of Support of Support of this capability shall also indicate support of UE No No No Indicates that retransmission scheduled by a different CORESETPoolIndex for multi-DCI multi-TRP is not supported. Support of Support Notes Note No Indicates that retransmission scheduled by PDCCH received in a different CORESETPoolIndex for multi-DCI multi-TRP operation, if this feature is reported, UE does not support expert of the CORESETPoolIndex of the initial transmission, i.e., the UE is not expected to receive, for the same HARQ process ID, DCI from a different CORESETPoolIndex that schedules the retransmission, i.e., NDI not flipped. This applies to both PDSCH and PUSCH retransmissions. UE indicates whether the UE supports propagation delay compensation based on Rel-15 TA p					
supportOERedCap-r18. IDENTIFY supportedLiviatedPRS-ProcessingWindow-17 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,					
Supported.Activated.PRS-Processing.Window-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-Processing.WindowType2-r17. Otherwise, the UE does not include this field.					
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-Processing/WindowType1A-r17, prs-Processing/WindowType1B-r17, prs-Processing/WindowType1A-r17, prs-Processing/WindowType1B-r17, prs-Processing/WindowType1A-r17, prs-Processing/WindowType1B-r17, prs-Proc		UF	No	No	No
ProcessingWindowType2-r17. Otherwise, the ÜE does not include this field. 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 DM-RS configuration types at the UE for UL transmission. 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. 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. SupportRepettionZeroOffsetRV-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. SupportRev-Diff-CoresetPool-Multi-DCI-TRP-r16 Indicates that retransmission scheduled by a different CORESETPoolIndex for multi-DCI multi-TRP is not supported. For multi-DCI multi-TRP poeration, if this feature is reported, UE does not support retransmission scheduled by PDCCH received in a different CORESETPoolIndex to the coreset ErroolIndex of the initial transmission, i.e., the UE is not expected to receive, for the same HARQ process ID, DCI from a different CORESETPoolIndex to the initial transmission. UE indicates whether the UE supports propagation delay compensation based on Rel-16 TA procedure for TN and non-shared spectrum channel access. ItargetSMTC-SCG-r16 Indicates whether the UE supports more than one switch points in a slot for actual DL/UL transmission(s). ItargetSMTC-SCG-r16 Indicates whether the UE supports more than one switch points in a slot for actual DL/UL transmission(s). ItargetSMTC-SCG-r16 Indicates whether the UE supports more than one switch points in a slot for actual publicating s	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 <i>prs</i> -	02		110	110
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. Supported/DMR-S 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. DMR-S 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. SupportReduct. Type 1 is supported. SupportRepetitionZeroOffsetRV-r16 Indicates whether UE support of this capability shall also indicate support of supportInter-slotTDM-r16 with maxNumberTCI-states-r16 set to 2 for at least one band. SupportRetx-Diff-CoresetPool-Multi-DCI-TRP-r16 Indicates that retransmission scheduled by a different CORESETPoolIndex for multi-DCI multi-TRP is not supported. For multi-DCI multi-TRP operation, if this feature is reported, UE does not support retransmission scheduled by PDCCH received in a different CORESETPoolIndex to the CORESETPoolIndex of the initial transmission, i.e., the UE is not expected to receive, for the same HARQ process ID, DCI from a different CORESETPoolIndex that schedules the retransmission, i.e., the UE is not expected to receive, for the same HARQ process ID, DCI from a different CORESETPoolIndex that schedules the retransmission, i.e., the UE is not expected to receive, for the same HARQ process ID, DCI from a different CORESETPoolIndex that schedules the retransmission, i.e., the UE is not expected to the DRESETPoolIndex that schedules the retransmission, i.e., the UE is not expected to the DRESETPoolIndex that schedules the retransmission, i.e., the UE is not expected to the DRESETPOOLING that schedules the retransmission, i.e., the UE is not expected to the DRESETPOOLING that schedules the retransmission, i.e., the UE is not expected to the DRESETPOOLING that schedules the retransmission of	ProcessingWindowType2-r17. Otherwise, the UE does not include this field.				.,
Supported DMR-S vonfiguration 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.	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,	UE	FD	No	Yes
Defines supported DM-RS configuration types at the UE for UL transmission. Support of both type 1 and type 2 is mandatory with capability signalling. If this field is not included, Type 1 is supported. 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-slottTDM-r16 with maxNumberTCI-states-r16 set to 2 for at least one band. SupportRetx-Diff-CoresetPool-Multi-DCI-TRP-r16 Indicates that retransmission scheduled by a different CORESETPoolIndex for multi-DCI multi-TRP is not supported. For multi-DCI multi-TRP operation, if this feature is reported, UE does not support retransmission scheduled by PDCCH received in a different CORESETPoolIndex compared to the CORESETPoolIndex of the initial transmission, i.e., the UE is not expected to receive, for the same HARQ process ID, DCI from a different CORESETPoolIndex that schedules the retransmissions. UE indicating support of this feature shall indicate support of multiDCI-MultiTRP-r16. Ia-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. IargetSMTC-SCG-16 Indicates the support of configuration of SMTC of target SCG cell with field targetCellSMTC-SCG. UE No No No Mo		LIF	ED	No	Voo
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. SupportRetx-Diff-CoresetPool-Multi-DCI-TRP-r16 UE No No Indicates that retransmission scheduled by a different CORESETPoolIndex for multi-DCI multi-TRP is not supported. The indicates that retransmission scheduled by PDCCH received in a different CORESETPoolIndex compared to the CORESETPoolIndex of the initial transmission, i.e., the UE is not expected to receive, for the same HARQ process ID, DCI from a different CORESETPoolIndex that schedules the retransmission, i.e., NDI not flipped. This applies to both PDSCH and PUSCH retransmissions. UE indicating support of this feature shall indicate support of multiDCI-MultiTRP-r16. UE No No No Indicates whether the UE supports propagation delay compensation based on Rel-15 TA procedure for TN and non-shared spectrum channel access. Ita-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. Ita-BasedPDC-TN-NonSharedSpectrumChAccess-r17 Indicates whether the UE supports more than one switch points in a slot for actual purply continuous propagation of SMTC of target SCG cell with field targetCellsMTC-SCG. Ita-MultiDL-UL-SwitchPerSlot UE No TDD Yes Only	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	UE	FD	INO	res
Indicates whether UE supports the value 0 for the parameter sequenceOffsetforRV. The UE indicating support of this capability shall also indicate support of bund. SupportInter-slotTDM-r16 with maxNumberTCI-states-r16 set to 2 for at least one band. SupportRetx-Diff-CoresetPool-Multi-DCI-TRP-r16 Indicates that retransmission scheduled by a different CORESETPoolIndex for multi-DCI multi-TRP is not supported. For multi-DCI multi-TRP operation, if this feature is reported, UE does not support retransmission scheduled by PDCCH received in a different CORESETPoolIndex compared to the CORESETPoolIndex of the initial transmission, i.e., the UE is not expected to receive, for the same HARQ process ID, DCI from a different CORESETPoolIndex that schedules the retransmissions, i.e., the UE is not expected to receive, for the same HARQ process ID, DCI from a different CORESETPoolIndex that schedules the retransmissions, i.e., the UE is not expected to receive, for the same HARQ process ID, DCI from a different CORESETPoolIndex that schedules the retransmissions. LE indicating support of this feature shall indicate support of multiDCI-MultiTRP-r16. Ita-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. ItargetSMTC-SCG-r16 Indicates support of configuration of SMTC of target SCG cell with field targetCellSMTC-SCG. Ita-MultiDL-UL-SwitchPerSlot Indicates support some than one switch points in a slot for actual DL/UL transmission(s). Ita-PCelIUL-TX-AilUL-Subframe-r16 Indicates whether the UE configured with tim-patternConfig-r16 can be semistatically 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. Ipc-PUCCH-RNTI Indicates whether the UE supports group DC		HE	No	No	No
SupportRetx-Diff-CoresetPool-Multi-DCI-TRP-r16 Indicates that retransmission scheduled by a different CORESETPoolIndex for multi-DCI multi-TRP is not supported. For multi-DCI multi-TRP operation, if this feature is reported, UE does not support retransmission scheduled by PDCCH received in a different CORESETPoolIndex compared to the CORESETPoolIndex of the initial transmission, i.e., the UE is not expected to receive, for the same HARQ process ID, DCI from a different CORESETPoolIndex that schedules the retransmission, i.e., NDI not flipped. This applies to both PDSCH and PUSCH retransmissions. UE indicating support of this feature shall indicate support of multiDCI-MultiTRP-r16. ta-BasedPDC-TN-NonSharedSpectrumChAccess-r17 UE No No No Indicates whether the UE supports propagation delay compensation based on Rel-15 TA procedure for TN and non-shared spectrum channel access. targetSMTC-SCG-r16 UE No No No Indicates the support of configuration of SMTC of target SCG cell with field targetCellSMTC-SCG. tdd-MultiDL-UL-SwitchPerSlot UE No No Indicates whether the UE supports more than one switch points in a slot for actual DL/UL transmission(s). tdd-PCellUL-TX-AllUL-Subframe-r16 UE No IDD Yes only Statically configured with LTE UL transmissions in all UL subframes not limited to the reference tdm-pattern (only for type 1 UE) in case of TDD PCell. UE indicating support can configure LTE TDD PCell with this feature on the band combination which indicates support of tdm-restrictionTDD-endc-r16. tpc-PUCCH-RNTI UE No No Yes IDC-PUCCH-RNTI UE No No No Yes IDC-PUSCH-RNTI UE No No No Yes Indicates whether the UE supports group DCI message based on TPC-PUSCH-	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	OE	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 CORESETPoolIndex compared to the CORESETPoolIndex of the initial transmission, i.e., the UE is not expected to receive, for the same HARQ process ID, DCI from a different CORESETPoolIndex that schedules the retransmission, i.e., NDI not flipped. This applies to both PDSCH and PUSCH retransmissions. UE indicating support of this feature shall indicate support of multiDCI-MultiTRP-r16. 12	supportRetx-Diff-CoresetPool-Multi-DCI-TRP-r16 Indicates that retransmission scheduled by a different CORESETPoolIndex for	UE	No	No	No
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. targetSMTC-SCG-r16 Indicates the support of configuration of SMTC of target SCG cell with field targetCellSMTC-SCG. tdd-MultiDL-UL-SwitchPerSlot Indicates whether the UE supports more than one switch points in a slot for actual DL/UL transmission(s). tdd-PCellUL-TX-AllUL-Subframe-r16 Indicates whether the UE configured with tdm-patternConfig-r16 can be semistatically configured with LTE UL transmissions in all UL subframes not limited to the reference tdm-pattern (only for type 1 UE) in case of TDD PCell. UE indicating support can configure LTE TDD PCell with this feature on the band combination which indicates support of tdm-restrictionTDD-endc-r16. tpc-PUCCH-RNTI Indicates whether the UE supports group DCI message based on TPC-PUCCH-RNTI UE No No Yes Indicates whether the UE supports group DCI message based on TPC-PUSCH-	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				
Indicates whether the UE supports propagation delay compensation based on Rel- 15 TA procedure for TN and non-shared spectrum channel access. targetSMTC-SCG-r16 Indicates the support of configuration of SMTC of target SCG cell with field targetCellSMTC-SCG. tdd-MultiDL-UL-SwitchPerSlot Indicates whether the UE supports more than one switch points in a slot for actual DL/UL transmission(s). 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. tpc-PUCCH-RNTI Indicates whether the UE supports group DCI message based on TPC-PUCCH- RNTI for TPC commands for PUCCH. tpc-PUSCH-RNTI Indicates whether the UE supports group DCI message based on TPC-PUSCH- Indicates whether the UE supports group DCI message based on TPC-PUSCH- Indicates whether the UE supports group DCI message based on TPC-PUSCH-	r16.				
targetSMTC-SCG-r16 Indicates the support of configuration of SMTC of target SCG cell with field targetCellSMTC-SCG. tdd-MultiDL-UL-SwitchPerSlot Indicates whether the UE supports more than one switch points in a slot for actual DL/UL transmission(s). 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. tpc-PUCCH-RNTI Indicates whether the UE supports group DCI message based on TPC-PUCCH- RNTI for TPC commands for PUCCH. tpc-PUSCH-RNTI Indicates whether the UE supports group DCI message based on TPC-PUSCH- Indicates whether the UE supports group DCI message based on TPC-PUSCH-	Indicates whether the UE supports propagation delay compensation based on Rel-	UE	No	No	No
tdd-MultiDL-UL-SwitchPerSlotIndicates whether the UE supports more than one switch points in a slot for actual DL/UL transmission(s).UENoTDDYestdd-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.UENoNoYestpc-PUCCH-RNTI Indicates whether the UE supports group DCI message based on TPC-PUCCH- RNTI for TPC commands for PUCCH.UENoNoYesIndicates whether the UE supports group DCI message based on TPC-PUSCH-UENoNoYes	targetSMTC-SCG-r16 Indicates the support of configuration of SMTC of target SCG cell with field	UE	No	No	No
tdd-PCelIUL-TX-AIIUL-Subframe-r16Indicates 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.UENoNoYestpc-PUCCH-RNTI Indicates whether the UE supports group DCI message based on TPC-PUCCH-RNTI for TPC commands for PUCCH.UENoNoYestpc-PUSCH-RNTI Indicates whether the UE supports group DCI message based on TPC-PUSCH-UENoNoYes	tdd-MultiDL-UL-SwitchPerSlot Indicates whether the UE supports more than one switch points in a slot for actual	UE	No	l	Yes
statically configured with LTE UL transmissions in all UL subframes not limited to the reference tdm-pattern (only for type 1 UE) in case of TDD PCell. UE indicating support can configure LTE TDD PCell with this feature on the band combination which indicates support of tdm-restrictionTDD-endc-r16. tpc-PUCCH-RNTI Indicates whether the UE supports group DCI message based on TPC-PUCCH-RNTI for TPC commands for PUCCH. tpc-PUSCH-RNTI Indicates whether the UE supports group DCI message based on TPC-PUSCH-	tdd-PCellUL-TX-AllUL-Subframe-r16	UE	No	l	
Indicates whether the UE supports group DCI message based on TPC-PUCCH-RNTI for TPC commands for PUCCH. ### UE No No Yes Indicates whether the UE supports group DCI message based on TPC-PUSCH-	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			only	only
tpc-PUSCH-RNTI Indicates whether the UE supports group DCI message based on TPC-PUSCH- UE No No Yes	Indicates whether the UE supports group DCI message based on TPC-PUCCH-	UE	No	No	Yes
	tpc-PUSCH-RNTI Indicates whether the UE supports group DCI message based on TPC-PUSCH-	UE	No	No	Yes

tpc-SRS-RNTI Indicates whether the UE supports group DCI message based on TPC-SRS-RNTI	UE	No	No	Yes
for TPC commands for SRS.				
twoDifferentTPC-Loop-PUCCH	UE	Yes	Yes	Yes
Indicates whether the UE supports two different TPC loops for PUCCH closed loop				
power control.				
twoDifferentTPC-Loop-PUSCH	UE	Yes	Yes	Yes
Indicates whether the UE supports two different TPC loops for PUSCH closed loop				
power control. twoFL-DMRS	UE	Yes	No	Yes
Defines whether the UE supports DM-RS pattern for DL reception and/or UL	OL	103	140	103
transmission with 2 symbols front-loaded DM-RS without additional DM-RS				
symbols.				
The left most in the bitmap corresponds to DL reception and the right most bit in the				
bitmap corresponds to UL transmission.		Vaa	Na	Vaa
twoFL-DMRS-TwoAdditionalDMRS-UL Defines whether the UE supports DM-RS pattern for UL transmission with 2	UE	Yes	No	Yes
symbols front-loaded DM-RS with one additional 2 symbols DM-RS.				
twoPUCCH-AnyOthersInSlot	UE	No	No	Yes
Indicates whether the UE supports transmission of two PUCCH formats in TDM in				
the same slot, which are not covered by twoPUCCH-F0-2-ConsecSymbols and				
onePUCCH-LongAndShortFormat.			.,	
twoPUCCH-F0-2-ConsecSymbols	UE	No	Yes	Yes
Indicates whether the UE supports transmission of two PUCCHs of format 0 or 2 in consecutive symbols in a slot.				
twoStepRACH-r16	UE	No	No	No
Indicates whether the UE supports the following basic structure and procedure of 2-				
step RACH:				
 Fallback procedures from 2-step RA type to 4-step RA type; 				
- 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	UE	CY	No	Yes
Indicates whether the UE supports receiving the Enhanced TCI States				
Activation/Deactivation for UE-specific PDSCH MAC CE (as specified in TS 38.321 [8] clause 6.1.3.24) indicating a serving cell configured as part of <i>simultaneousTCI</i> -				
UpdateList1 or simultaneousTCI-UpdateList2 as specified in TS 38.331 [9].				
If the UE indicates support of simultaneous TCI-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				
of twoTCI-Act-servingCellInCC-List-r16 for this FR. type1-HARQ-ACK-Codebook-r16	UE	No	No	Yes
Indicates whether the UE supports Type 1 HARQ-ACK codebook for TDRA using	UE	INO	INO	res
the starting symbol of the PDCCH monitoring occasion in which the DL assignment				
is detected as the reference of the SLIV. If the UE supports this feature, the UE				
needs to report dci-Format1-2And0-2-r16. Support for FR1/FR2 is differentiated				
from the viewpoint of the scheduled carrier.				

type1-PUSCH-RepetitionMultiSlots 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 Indicates whether the UE supports type 2 configured grant release by DCI format 0_2. If the UE supports this feature, the UE needs to report configuredUL-GrantType2 or configuredUL-GrantType2-v1650 and dci-Format1-2And0-2-r16.	UE	No	No	No
type2-HARQ-ACK-Codebook-r16 Indicates whether the UE supports Type 2 HARQ-ACK codebook when HARQ-ACK feedback in a codebook corresponds to more than one unicast DL DCI for same scheduled cell in a monitoring occasion of a scheduling cell using the PDSCH starting time in addition to the existing monitoring occasion and Cell index to order the HARQ-ACK feedback.	UE	No	No	No
type2-PUSCH-RepetitionMultiSlots 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	No	No	No
type2-SP-CSI-Feedback-LongPUCCH Indicates whether UE supports Type II CSI semi-persistent CSI reporting over PUCCH Formats 3 and 4 as defined in clause 5.2.4 of TS 38.214 [12].	UE	No	No	No
uci-CodeBlockSegmentation Indicates whether the UE supports segmenting UCI into multiple code blocks depending on the payload size.	UE	Yes	No	Yes
ul-64QAM-MCS-TableAlt Indicates whether the UE supports the alternative 64QAM MCS table for PUSCH with and without transform precoding respectively.	UE	No	No	Yes
ul-SchedulingOffset Indicates whether the UE supports UL scheduling slot offset (K2) greater than 12.	UE	Yes	Yes	Yes
 unifiedJointTCI-commonUpdate-r17 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. 	UE	No	No	No

uplinkPreCompensationATG-r18	UE	CY	No	FR1
Indicates whether the UE supports the uplink time and frequency pre-compensation				only
and timing relationship enhancements comprised of the following functional				
components:				
- Support of UE specific TA calculation based on its position and the serving				
ATG base station reference location.				
- For TA update in RRC_CONNECTED state, support of combination of both				
open (i.e. UE autonomous TA estimation) and closed (i.e., received TA				
commands) control loops				
- Support of pre-compensation of the calculated TA in its uplink transmissions				
 Support of frequency pre-compensation to counter shift the Doppler experienced. 				
 Support of determining timing of the scheduling of PUSCH, PUCCH and 				
PDCCH ordered PRACH, CSI reference resource, transmission of aperiodic				
SRS activation of TA command, first PUSCH transmission in CG Type 2 with				
cell-specific K_offset if indicated				
 Support of receiving ATG base station reference location and cell- specific 				
K_offset in system information				
Support of this feature is mandatory for UE supporting airToGroundNetwork-r18.				
NOTE: This capability is applicable only for bands defined in Clause 5.2J in TS				
38.101-1 [2].				
uplinkTA-ReportingATG-r18	UE	No	No	FR1
Indicates whether the UE supports reporting of information related to TA pre-				only
compensation as specified in TS 38.321 [8]. The UE indicating support of this				
feature shall also indicate support of <i>uplinkPreCompensationATG-r18</i> .				
NOTE: This capability is applicable only for bands defined in Clause 5.2J in TS				
38.101-1 [2].				

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

4.2.7.12 NRDC-Parameters

Definitions for parameters	Per	M	FDD- TDD DIFF	FR1- FR2 DIFF
asyncNRDC-r16 Indicates whether the UE supports asynchronous NR-DC with MRTD and MTTD as specified in clause 7.5 and 7.6 of TS 38.133 [5]. If the band combination is comprised of a single band entry for more than two carriers, the UE shall support any permutations of carriers to CGs. If the band combination is comprised of at least two band entries, the carriers corresponding to a band entry shall belong to only one cell group. If the band combination includes both FR1 and FR2 bands, a UE indicating this capability shall support asynchronous NR-DC configuration where all serving cells of the MCG are in FR1 and all serving cells of the SCG are in FR2.	BC	No	No	No
condPSCellAdditionNRDC-r17 Indicates whether the UE supports conditional PSCell addition in NR-DC. The UE supporting this feature shall also support 2 trigger events for same execution condition in conditional PSCell addition in NR-DC.	BC	No	No	No
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.	BC	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.	ВС	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	M	FDD- TDD DIFF	FR1- FR2 DIFF
configuredUL-GrantType1-r16 Indicates whether the UE supports Type 1 PUSCH transmissions with configured grant as specified in TS 38.214 [12] with UL-TWG-repK value of one in shared spectrum channel access.	UE	No	No	No
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, D and E in Annex B.3 of TS 38.300 [28].	UE	СҮ	No	No
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	СҮ	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 OFDM symbol of the <code>PUSCH</code> is the same as the starting OFDM 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 OFDM symbol of the <code>PUSCH</code> is the different from the starting OFDM 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 delict title title topic value of one.				

4.2.8 Void

4.2.9 *MeasAndMobParameters*

Definitions for parameters	Per	М	FDD- TDD DIFF	FR1- FR2 DIFF
bestCellChangeReport-r18 Indicates whether the UE supports the sending of the measurement report if the measured first best cell changed as specified in TS 38.331 [9].	UE	No	No	No
cellIndividualOffsetPerMeasEvent-r18 Indicates whether the UE supports the configuration of a cell individual offset per measurement event within reportConfigNR or reportConfigInterRAT as specified in TS 38.331 [9].	UE	No	No	No
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
concurrentMeasCRS-InsideBWP-EUTRA-r18 Indicates whether the UE supports concurrent inter-RAT measurement on EUTRAN cell in non-DSS and PDCCH or PDSCH reception from the serving cell with a different numerology. A UE supporting this feature shall also indicate support of eutra-NoGapMeasurementInsideBWP-r18 or eutra-NoGapMeasurementOutsideBWP-r18.	UE	No	No	FR1 only
 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 TS 38.133 [5]), or	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
concurrentMeasGapsNCSG-r18 Indicates whether the UE supports multiple per-UE (or per-FR) measurement gap patterns with at least one per-UE (or per-FR) NCSG as specified in TS 38.133 [5]. A UE supporting this feature shall also indicate support of nr-NeedForGapNCSG-Reporting-r17 and concurrentMeasGap-r17.	UE	No	No	No
concurrentMeasGapsPreMG-r18 Indicates whether the UE supports multiple per-UE (or per-FR) measurement gap patterns with at least one per-UE (or per-FR) Pre-MG as specified in TS 38.133 [5]. A UE supporting this feature shall also indicate support of concurrentMeasGap-r17 and one of preconfiguredNW-ControlledMeasGap-r17 and preconfiguredUE-AutonomousMeasGap-r17.	UE	No	No	No

condHandoverFDD-TDD-r16	UE	No	No	No
Indicates whether the UE supports conditional handover between FDD and TDD				
cells. The parameter can only be set if <i>condHandover-r16</i> is set for both FDD and				
TDD. The UE that indicates support of this feature shall also indicate support of				
handoverFDD-TDD.		NI-	NI-	NI-
condHandoverFR1-FR2-r16	UE	No	No	No
Indicates whether the UE supports conditional handover HO between FR1 and FR2. The parameter can only be set if <i>condHandover-r16</i> is set for both FR1 and				
FR2. The UE that indicates support of this feature shall also indicate support of				
handoverFR1-FR2.				
condHandoverWithSCG-NRDC-r17	UE	No	No	No
Indicates whether the UE supports conditional handover with NR SCG	OL	140	140	140
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.				
csi-RS-RLM	UE	Yes	No	Yes
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]. 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.				
csi-RSRP-AndRSRQ-MeasWithSSB	UE	No	No	Yes
Indicates whether the UE can perform CSI-RSRP and CSI-RSRQ measurement				
as specified in TS 38.215 [13], where CSI-RS resource is configured with an				
associated SS/PBCH. If this parameter is indicated for FR1 and FR2 differently,				
each indication corresponds to the frequency range of measured target cell. If the				
UE supports this feature, the UE needs to report <i>maxNumberCSI-RS-RRM-RS-</i>				
SINR. This applies only to non-shared spectrum channel access. For shared				
spectrum channel access, csi-RS-RLM-r16 applies.		NI.	NI-	1/-
csi-RSRP-AndRSRQ-MeasWithoutSSB	UE	No	No	Yes
Indicates whether the UE can perform CSI-RSRP and CSI-RSRQ measurement				
as specified in TS 38.215 [13], where CSI-RS resource is configured for a cell that transmits SS/PBCH block and without an associated SS/PBCH block. If this				
parameter is indicated for FR1 and FR2 differently, each indication corresponds to				
the frequency range of measured target cell. If the UE supports this feature, the				
UE needs to report maxNumberCSI-RS-RRM-RS-SINR. This applies only to non-				
shared spectrum channel access. For shared spectrum channel access, <i>csi</i> -				
RSRP-AndRSRQ-MeasWithoutSSB-r16 applies.				
csi-SINR-Meas	UE	No	No	Yes
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.				
deriveSSB-IndexFromCellInterNon-NCSG-r17	UE	No	No	No
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).		 	N 1	
dynamicCollision-r18	UE	No	No	No
Indicates whether the UE supports RRM requirements for handling dynamic				
collisions between a Pre-MG and another measurement gap or Pre-MG.				
A UE supporting this feature shall also indicate support of concurrentMeasGapsPreMG-r18.				
enterAndLeaveCellReport-r18	UE	No	No	No
Indicates whether the UE supports the report of cell(s) that meet the event leaving	UE	INU	INU	INO
condition and the report of cell(s) that meet the event entering condition as defined				
in TS 38 331 [9] clause 5 5 4 2		No	No	No
		INU	INU	INO
eutra-AutonomousGaps-r16	UE			
eutra-AutonomousGaps-r16 Defines whether the UE supports, upon configuration of useAutonomousGaps by	UE			
in TS 38.331 [9] clause 5.5.4.2. 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	UE			
eutra-AutonomousGaps-r16 Defines whether the UE supports, upon configuration of useAutonomousGaps by	UE			

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 (e)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
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-MeasEMW-r18 Indicates whether the UE supports configuration of effective measurement window for inter-RAT EUTRAN measurements, including offset, duration and periodicity. The leftmost bit in the bitmap corresponds to EMW pattern #0 and the right most bit in the bitmap corresponds to EMW pattern #5. The bitmap for EMW patterns are defined in TS 38.133 [5].	UE	No	No	No
EMW patterns #0 and #1 are mandatory (i.e. the corresponding bits in the bitmap is set to 1) if UE supports EMW feature. Other patterns are optional. A UE supporting this feature shall also indicate support of eutra-NoGapMeasurementOutsideBWP-r18 or eutra-NoGapMeasurementInsideBWP-r18. If a UE does not support this feature, a UE is not allowed to cause scheduling restriction defined in TS 38.133 [5] for eutra-NoGapMeasurementOutsideBWP-r18 or eutra-NoGapMeasurementInsideBWP-r18.				
NOTE: If UE supports eutra-NoGapMeasurementOutsideBWP-r18 or eutra-NoGapMeasurementInsideBWP-r18 and UE requires scheduling restriction, UE should support this feature. eutra-NeedForGapNCSG-Reporting-r17	UE	No	No	No
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].				
eutra-NoGapMeasurementInsideBWP-r18 Indicates whether the UE supports inter-RAT EUTRAN measurements without gap when CRS is completely contained within UE's active DL BWP.	UE	No	No	FR1 only
eutra-NoGapMeasurementOutsideBWP-r18 Indicates whether the UE supports inter-RAT EUTRAN measurements outside active DL BWP for nogap-noncsg. A UE supporting this feature shall also indicate support of eutra-NeedForGapNCSG-Reporting-r17.	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	UE	Yes	Yes	No
measurement when NR-DC is configured, and MN configured measurement when NE-DC is configured, this feature is mandatory supported.				
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. It is mandated if the UE supports locationBasedCondHandoverATG-r18 in any ATG band.	UE	CY	No	No
eventD2-MeasReportTrigger-r18 Indicates whether the UE supports location-based triggered measurement reporting for an NTN Earth-moving cell (i.e., event D2) as specified in TS 38.331 [9]. It is mandated if the UE supports locationBasedCondHandoverEMC-r18 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	CY	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)
handoverFDD-TDD Indicates whether the UE supports HO between FDD and TDD. It is mandated if the UE supports both FDD and TDD. This field only applies to NR SA/NR-DC/NE-DC (e.g. PCell handover). For PSCell change when (NG)EN-DC/NR-DC is configured, this feature is mandatory supported. UEs supporting this shall indicate support of handoverInterF for both FDD and TDD.	UE	Yes	No	No

handoverFR1-FR2	UE	Yes	No	No
Indicates whether the UE supports HO between FR1 and FR2. Support is				
mandatory for the UE supporting both FR1 and FR2. This field only applies to NR				
SA/NR-DC/NE-DC (e.g. PCell handover). For PSCell change when (NG)EN-				
DC/NR-DC is configured, this feature is mandatory supported. UEs supporting this				
shall indicate support of <i>handoverInterF</i> for both FR1 and FR2.				
handoverFR1-FR2-2-r17	UE	No	No	No
Indicates whether the UE supports HO between FR1 and FR2-2. This field only	0_	''		''
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.				
handoverFR2-1-FR2-2-r17	UE	No	No	No
	UE	INO	INO	INO
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.				
handoverInterF, handoverInterF-r17	UE	Yes	Yes	Yes
Indicates whether the UE supports inter-frequency HO. It indicates the support for				(Incl
inter-frequency HO from the corresponding duplex mode and from frequency				FR2-2
range indicated to be supported as described in Annex B. This field only applies to				DIFF)
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.				
handoverLTE-EPC, handoverLTE-EPC-r17	UE	CY	Yes	Yes
Indicates whether the UE supports HO to EUTRA connected to EPC. It is		0'	103	(Incl
mandated if the UE supports EUTRA connected to EPC.				FR2-2
mandated if the OL supports LOTTA conhected to LT C.				DIFF)
idleInactiveNR-MeasReport-r16, idleInactiveNR-MeasReport-r17	UE	No	No	Yes
	UE	INO	INO	1
Indicates whether the UE supports configuration of NR SSB measurements in				(Incl
RRC_IDLE/RRC_INACTIVE and reporting of the corresponding results upon				FR2-2
network request as specified in TS 38.331 [9]. If this parameter is indicated for				DIFF)
FR1 and FR2 differently, each indication corresponds to the frequency range of				
measured target cell.				
idleInactiveNR-MeasBeamReport-r16	UE	No	No	Yes
Indicates whether the UE supports beam level measurements in				
RRC_IDLE/RRC_INACTIVE and reporting of the corresponding beam				
measurement results upon network request as specified in TS 38.331 [9]. A UE				
supports this feature shall also support idleInactiveNR-MeasReport-r16. If this				
parameter is indicated for FR1 and FR2 differently, each indication corresponds to				
the frequency range of measured target cell.				
idleInactiveEUTRA-MeasReport-r16	UE	No	No	No
Indicates whether the UE supports configuration of E-UTRA measurements in	0_	''	110	''
RRC_IDLE/RRC_INACTIVE and reporting of the corresponding results upon				
network request as specified in TS 38.331 [9].				
	ПЕ	No	Nlo	No
idleInactive-ValidityArea-r16	UE	No	No	INO
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].				
increasedNumberofCSIRSPerMO-r16	UE	No	No	Yes
Indicates support of up to 192 CSI-RS resource for L3 mobility configuration per				
measurement object configured with associatedSSB. If this parameter is indicated				
for FR1 and FR2 differently, each indication corresponds to the frequency range of				
the cells to be measured within <i>MeasObjectNR</i> .				
independentGapConfig	UE	No	No	No
This field indicates whether the UE supports two independent measurement gap			-	
configurations for FR1 and FR2 specified in clause 9.1.2 of TS 38.133 [5], in NR				
standalone (when included in <i>measAndMobParameters</i>), in NR-DC (when				
included in measAndMobParametersNRDC), and in (NG)EN-DC and NE-DC				
(when included in measAndMobParametersMRDC). The field in				
measAndMobParametersMRDC also indicates whether the UE supports the FR2 inter-RAT measurement without gaps when (NG)EN-DC is not configured.				
inter E.V. I mecalifroment without gone when /N/ '\ENLIV' is not continued		1 1		1

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 signalling 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	UE	No	No	No
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].	02			
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
intraF-NeighMeasForSCellWithoutSSB Indicates whether the UE supports the configuration of servingCellMO for SCell that does not transmit SS/PBCH block. A UE supporting this feature shall also support NR intra-frequency measurements on neighbour cells based on servingCellMO associated with SCell that does not transmit SS/PBCH block. A UE supporting this feature shall also indicate support of scellWithoutSSB or scellWithoutSSB-InterBandCA-r18 or both.	UE	No	No	No
interFrequencyMeas-NoGap-r16	UE	No	No	Yes
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.	<u> </u>	140	140	103
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
I3-MeasUnknownSCellActivation-r18	UE	No	No	No
Indicates whether the UE supports reporting valid L3 measurement results triggered by the unknown SCell activation command UE is required to meet the shortened SCell activation delay requirement in TS 38.133 [5] if the feature is supported, including single SCell activation, single PUCCH SCell activation, and multiple SCell activation with/without PUCCH SCell.				
Itm-FastUE-Processing-r18 Indicates the reduced TLTM_processing delay of the UE during cell switch. The capability signalling includes the following parameters: - fr1-r18 indicates the reduced TLTM_processing for cell switch from FR1 to FR1. - fr2-r18 indicates the reduced TLTM_processing for cell switch from FR2 to FR2. - fr1-AndFR2-r18 indicates the reduced TLTM_processing for cell switch from FR1/FR2 to FR2/FR1.	UE	No	No	No

Itm-InterFreq-r18 Indicates UE supports inter-frequency MCG LTM on all the bands where the UE indicates support of Itm-MCG-IntraFreq-r18 or inter-frequency SCG LTM on all the bands where the UE indicates support of Itm-SCG-IntraFreq-r18 respectively. A UE supporting this feature shall also indicate support of Itm-MCG-IntraFreq-r18 or Itm-SCG-IntraFreq-r18.	UE	No	No	No
Itm-interFreqL1-OnlyInBC-r18 When included, for each BC in which the UE indicates support of interFreqL1-MeasConfig-r18, the UE only supports inter-frequency L1-RSRP measurement and reporting based on SSB(s) of LTM candidate cell(s) that are inside the BC. When not included, the description in interFreqL1-MeasConfig-r18 is applicable. A UE supporting this feature shall also indicate support of interFreqL1-MeasConfig-r18.	UE	No	No	No
Itm-InterFreqMeasGap-r18 Indicates whether the UE supports SSB based inter-frequency L1-RSRP measurements with measurement gaps for LTM. A UE supporting this feature shall also indicate support of interFreqL1-MeasConfig-r18.	UE	No	No	No
Itm-MCG-NRDC-r18 Indicates whether the UE supports LTM for MCG with RACH with NR-DC configured as defined in TS 38.331 [9] and TS 38.321 [8]. UE indicating support for this feature shall also indicate support of Itm-MCG-IntraFreq-r18.	UE	No	No	No
Itm-MCG-NRDC-Release-r18 Indicates whether the UE supports LTM for MCG with the release of NR-DC configuration as part of LTM execution when LTM cell switch command MAC CE is received. UE indicating support for this feature shall also indicate support of Itm-MCG-IntraFreq-r18.	UE	No	No	No
Itm-RACH-LessCG-r18 Indicates whether the UE supports RACH-less LTM with configured grant for MCG LTM if the UE indicates support of Itm-MCG-IntraFreq-r18 or for SCG LTM if the UE indicates support of Itm-SCG-IntraFreq-r18 respectively. UE indicating support for this feature shall also indicate support of either Itm-BeamIndicationJointTCI-r18 or Itm-BeamIndicationSeparateTCI-r18 for at least one band and either ta-IndicationCellSwitch-r18 or ue-TA-Measurement-r18.	UE	No	No	No
Itm-RACH-LessDG-r18 Indicates whether the UE supports RACH-Less LTM with dynamic grant, for MCG LTM if the UE indicates support of Itm-MCG-IntraFreq-r18 or for SCG LTM if the UE indicates support of Itm-SCG-IntraFreq-r18 respectively. UE indicating support for this feature shall also indicate support of either Itm-BeamIndicationJointTCI-r18 or Itm-BeamIndicationSeparateTCI-r18 for at least one band and TA indication in ta-IndicationCellSwitch-r18 or ue-TA-Measurement-r18.	UE	No	No	No
Itm-Recovery-r18 Indicates whether the UE supports recovery procedure for MCG LTM execution when the selected cell in RRC re-establishment procedure is a LTM candidate as specified in TS 38.331 [9]. UE indicating support for this feature shall also indicate support of Itm-MCG-IntraFreq-r18 for at least one band.	UE	No	No	No
Itm-ReferenceConfig-r18 Indicates whether UE supports a reference configuration for LTM. UE indicating support for this feature shall also indicate support of either Itm-MCG-IntraFreq-r18 or Itm-SCG-IntraFreq-r18 for at least one band.	UE	No	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 cli-SRS-RSRP-Meas-r16, the UE shall report this capability. NOTE 1: A slot is based on minimum SCS among active BWPs across all CCs configured for SRS-RSRP measurement. NOTE 2: A SRS resource occasion that overlaps with the slot is counted as one measurement resource in the slot. 	UE	CY	TDD only	No

maxNumberCSI-RS-RRM-RS-SINR	UE	CY	No	No
Defines the maximum number of CSI-RS resources for RRM and RS-SINR				
measurement across all measurement frequencies per slot. UE indicating support				
of this feature shall also indicate support of csi-RSRP-AndRSRQ-MeasWithSSB,				
csi-RSRP-AndRSRQ-MeasWithoutSSB or csi-SINR-Meas. If UE supports any of				
csi-RSRP-AndRSRQ-MeasWithSSB, csi-RSRP-AndRSRQ-MeasWithoutSSB, and				
csi-SINR-Meas, UE shall report this capability.				
NOTE: A slot is based on minimum SCS among all measurement frequencies				
configured for RRM and RS-SINR measurement.				
maxNumberPerSlotCLI-SRS-RSRP-r16	UE	CY	TDD	No
Defines the maximum number of SRS-RSRP measurement resources per slot for		01	only	INO
SRS-RSRP measurement. If the UE supports <i>cli-SRS-RSRP-Meas-r16</i> , the UE			Office	
shall report this capability.				
maxNumberResource-CSI-RS-RLM	UE	CY	No	Yes
Defines the maximum number of CSI-RS resources within a slot per spCell for		01	140	163
CSI-RS based RLM. UE indicating support of this feature shall also indicate				
support of csi-RS-RLM or ssb-AndCSI-RS-RLM, If UE supports any of csi-RS-				
RLM and ssb-AndCSI-RS-RLM, UE shall report this capability.				
measSequenceConfig-r18	UE	No	No	No
Indicates whether the UE supports configuration of <i>measSequence-r18</i> in		110	INU	INU
MeasObjectNR and MeasObjectEUTRA for recommended sequence for				
intra/inter-RAT intra/inter-frequency measurement.				
ncsg-MeasGapNR-Patterns-r17	UE	No	No	No
Indicates whether the UE supports NR-only NCSG patterns. The left most bit in		INO	INO	INO
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 TS 38.133 [5].				
Specified in 10 30.100 [0].				
NCSG patterns #2 and #3 are mandatory (i.e. the corresponding bits in the bitmap				
is set to 1) if the UE includes this field. NCSG patterns #17 and #18 are mandatory				
(i.e. the corresponding bits in the bitmap is set to 1) if UE includes this field and				
supports a FR2 band. UEs supporting this shall indicate support of <i>nr</i> -				
NeedForGapNCSG-Reporting-r17.				
ncsg-MeasGapPatterns-r17	UE	No	No	No
Indicates whether the UE supports NCSG patterns. The left most bit in the bitmap	0_	''	110	110
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 TS 38.133 [5].				
NCSG patterns #0 and #1 are mandatory (i.e. the corresponding bits in the bitmap				
is set to 1) if the UE includes this field. NCSG patterns #13 and #14 are mandatory				
(i.e. the corresponding bits in the bitmap is set to 1) if UE supports <i>ncsg</i> -				
MeasGapPerFR-r17 or if the UE is NCSG capable and supports FR2 band in				
standalone mode. UEs supporting this shall indicate support of <i>nr</i> -				
NeedForGapNCSG-Reporting-r17 or eutra-NeedForGapNCSG-Reporting-r17.				
ncsg-MeasGapPerFR-r17	UE	No	No	No
Indicates whether the UE supports per-FR NCSG. UEs supporting this shall		-		
indicate support of <i>nr-NeedForGapNCSG-Reporting-r17</i> .				
ncsg-SymbolLevelScheduleRestrictionInter-r17	UE	No	No	FR2
Indicates whether the UE supports performing measurement with NCSG based on		-		only
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 <i>nr-NeedForGapNCSG</i> -				
Reporting-r17.				
nr-AutonomousGaps-r16	UE	No	No	Yes
Defines whether the UE supports, upon configuration of useAutonomousGaps by				
the network, acquisition of relevant information from a neighbouring NR cell by				
reading the SI of the neighbouring cell using autonomous gap and reporting the				
acquired information to the network as specified in TS 38.331 [9] when MR-DC is				
not configured. If this parameter is indicated for FR1 and FR2 differently, each				
indication corresponds to the frequency range of measured target cell.				
, , , , , , , , , , , , , , , , , , , ,				

nr-AutonomousGaps-ENDC-r16 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 (NG)EN-DC is configured. If this parameter is indicated for FR1 and FR2 differently, each indication corresponds to the frequency range of measured target cell.	UE	No	No	Yes
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 (e)RedCap UEs.	UE	СҮ	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
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 (e)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
nr-NeedForInterruptionReport-r18 Indicates whether the UE supports reporting the interruption requirement information for SSB based measurement towards NR target without gap in the UE response to a network configuration RRC message. The UE supporting this feature shall also indicate support of nr-NeedForGap-Reporting-r16.	UE	No	No	No

ntn-NeighbourCellInfoSupport-r18	UE	No	No	No
Indicates whether the UE supports configuration of ntn-NeighbourCellInfo-r18 in				
MeasObjectNR for dedicated ephemeris. A UE supporting this feature shall also				
indicate the support of nonTerrestrialNetwork-r17.				
parallelMeasurementGap-r17	UE	No	FDD	FR1
Indicates whether the UE supports 2 parallel measurement gaps for NTN SSB			only	only
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.				
parallelSMTC-r17	UE	No	FDD	FR1
Indicates whether the UE supports NTN SSB based RRM measurements on target			only	only
cells belonging to 4 SMTC-s on a single frequency carrier. If a UE does not include				
this field but includes <i>nonTerrestrialNetwork-r17</i> , the UE supports NTN SSB based				
RRM measurements on target cells belonging to 2 SMTC-s on a single frequency				
carrier.				
periodicEUTRA-MeasAndReport	UE	CY	No	No
Indicates whether the UE supports periodic EUTRA measurement and reporting. It				
is mandated if the UE supports EUTRA.				
pcellT312-r16	UE	No	No	No
Indicates whether the UE supports T312 based fast failure recovery for PCell.				
preconfiguredUE-AutonomousMeasGap-r17	UE	No	No	No
Indicates whether the UE supports the preconfigured measurement gap with UE-				
autonomous mechanism for activation and deactivation as specified in TS 38.133				
[5].				
preconfiguredNW-ControlledMeasGap-r17	UE	No	No	No
Indicates whether the UE supports the preconfigured measurement gap with	-			
network-controlled mechanism for activation and deactivation as specified in TS				
38.133 [5].				
rach-LessHandoverInterFreg-r18	UE	No	No	No
Indicates whether the UE supports inter-frequency RACH-less handover. The UE	0_	''	110	110
supports inter-frequency RACH-less handover on all the bands where the UE				
indicates support for rach-LessHandoverCG-r18 or rach-LessHandoverDG-r18.				
If the UE does not support rach-LessHandoverInterFreq-r18				
but indicates support of rach-LessHandoverCG-r18 or rach-LessHandoverDG-r18,				
the UE only supports intra-frequency RACH-less handover with configured grant				
or dynamic grant, respectively, on the corresponding bands.				
reportAddNeighMeasForPeriodic-r16	UE	CY	No	No
Defines whether the UE supports periodic reporting of best neighbour cells per	0_	•	110	110
serving frequency, as defined in TS 38.331 [9]. It is optional for (e)RedCap UEs.				
secondBestCellChangeReport-r18	UE	No	No	No
Indicates whether the UE supports the sending of the measurement report if more	0_	''	110	110
than one of two best cells changed as specified in TS 38.331 [9].				
serviceLinkPropDelayDiffReporting-r17	UE	No	No	No
Indicates whether the UE supports the reporting of service link propagation delay	J_	'	'10	110
difference between serving cell and neighbour cell(s). A UE supporting this feature				
shall also indicate the support of <i>nonTerrestrialNetwork-r17</i> .				
strd-MeasPSCell	UE	No	Yes	No
Indicates whether the UE supports SFTD measurements between the PCell and a	OL	140	163	INO
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.				
sttd-MeasPSCell-NEDC	UE	No	Yes	No
Indicates whether the UE supports SFTD measurement between the NR PCell	ΟĽ	INU	162	INO
and a configured E-UTRA PSCell in NE-DC.				
sftd-MeasNR-Cell	UE	No	Yes	No
Indicates whether the SFTD measurement with and without measurement gaps	OE.	INO	162	INO
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.				

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
shortMeasInterval-r18 Indicates whether the UE supports using SSB periodicity instead of SMTC periodicity for the measurement interval during unknown SCell activation when the SMTC is only configured in measurement object for enhanced unknown SCell activation requirement and performing L1-RSRP measurement in non-DRX mode even DRX is configured during unknown SCell activation. UE is required to meet the shortened SCell activation delay requirement in TS 38.133 [5] if the feature is supported.	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
Indicates whether the UE can perform radio link monitoring procedure based on measurement of SS/PBCH block as specified in TS 38.213 [11] and TS 38.133 [5]. This field shall be set to supported. This applies only to non-shared spectrum channel access. For shared spectrum channel access, ssb-RLM-DynamicChAccess-r16 or ssb-RLM-Semi-StaticChAccess-r16 applies.	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]. UE indicating support of this feature shall also indicate support of ssb-RLM and csi-RS-RLM. 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	UE	No	No	No
applies. 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	UE	CY	No	No
independentGapConfig and supports a band in FR2. 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	UE	FD	No	No
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.				
supportedGapPattern-NRonly-NEDC-r16	UE	No	No	No
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.				

4.2.9a MeasAndMobParametersMRDC

Definitions for parameters	Per	M	FDD- TDD DIFF	FR1- FR2 DIFF
condHandoverWithCandSCG-Addition-r18 Indicates whether the UE supports conditional handover with candidate NR PSCell addition. 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
condHandoverWithCandSCG-FDD-TDD-Change-r18 Indicates whether the UE supports conditional handover with candidate SCG, where conditional NR PSCell change is supported between FDD and TDD. The parameter can only be set if condHandoverWithCandSCG-change-r18 is set for both FDD and TDD.	UE	No	No	No
condHandoverWithCandSCG-FR1-FR2-Change-r18 Indicates whether the UE supports conditional handover with candidate SCG, where conditional NR PSCell change is supported between FR1 and FR2. The parameter can only be set if condHandoverWithCandSCG-change-r18 is set for both FR1 and FR2.	UE	No	No	No
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 signalling 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.	UE	No	No	No
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.				
inter-SN-condPSCellChangeFDD-TDD-NRDC-r17	UE	No	No	No
Indicates whether the UE supports inter SN conditional PSCell change between				
FDD and TDD cells in NR-DC. The parameter can only be set if <i>mn</i> -				
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).				.
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 <i>mn-InitiatedCondPSCellChange-FR2TDD-ENDC-r17</i> is supported and at				
least one of mn-InitiatedCondPSCellChange-FR1TDD-ENDC-r17 and mn-				
InitiatedCondPSCellChange-FR1FDD-ENDC-r17 is supported; or				
- if sn-InitiatedCondPSCellChange-FR2TDD-ENDC-r17 is supported and at				
least one of sn-InitiatedCondPSCellChange-FR1TDD-ENDC-r17 and sn-				
InitiatedCondPSCellChange-FR1FDD-ENDC-r17 is supported.				
inter-SN-condPSCellChangeFR1-FR2-NRDC-r17	UE	No	No	No
Indicates whether the UE supports inter SN conditional PSCell change between				
FR1 and FR2 cells. The parameter can only be set if <i>mn-InitiatedCondPSCellChangeNRDC-r17</i> 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-ConfiguredMN-TriggerSCPAC-r18	UE	No	No	No
Indicates whether the UE supports Subsequent CPAC as defined in TS 38.331 [9]				
for MN initiated subsequent conditional PSCell change or addition in NR-DC,				
which is configured by NR conditionalReconfiguration using MN configured				
measurement as the initial triggering condition and using candidate SN configured				
measurement as the following triggering condition.				
The parameter can only be set if sn-InitiatedCondPSCellChangeNRDC-r17, mn-InitiatedCondPSCellChangeNRDC-r17 and condPSCellAdditionNRDC-r17 are				
supported.				
A UE indicating support for this feature and for inter-SN-condPSCellChangeFDD-				
TDD-NRDC-r17, and respectively for inter-SN-condPSCellChangeFR1-FR2-				
NRDC-r17, shall support this feature between FDD and TDD cells, and				
respectively between FR1 and FR2 cells, in NR-DC.				
mn-ConfiguredMN-TriggerSCPAC-afterSCG-release-r18	UE	No	No	No
Indicates whether the UE supports Subsequent CPAC as defined in TS 38.331 [9]				
for MN initiated subsequent conditional PSCell change or addition in NR-DC,				
which is configured by NR conditionalReconfiguration using MN configured				
measurement as the initial triggering condition and using candidate SN configured measurement as the following triggering condition, after the SCG from a previous				
SCPAC configuration is released. UE indicating support for this feature shall				
indicate support of <i>mn-ConfiguredMN-TriggerSCPAC-r18</i> .				
A UE indicating support for this feature and for <i>inter-SN-condPSCellChangeFDD-</i>				
TDD-NRDC-r17, and respectively for inter-SN-condPSCellChangeFR1-FR2-				
NRDC-r17, shall support this feature between FDD and TDD cells, and				
respectively between FR1 and FR2 cells, in NR-DC.				
mn-ConfiguredReferenceConfigSCPAC-r18	UE	No	No	No
Indicates whether the UE supports reference configuration for <i>mn-ConfiguredMN-</i>				
TriggerSCPAC-r18 and mn-ConfiguredSN-TriggerSCPAC-r18 as defined in TS				
38.331 [9].				

mn-ConfiguredSN-TriggerSCPAC-r18 Indicates whether the UE supports Subsequent CPAC as defined in TS 38.331 [9] for initial MN configured subsequent conditional PSCell change in NR-DC, which is	UE	No	No	No
configured by NR conditionalReconfiguration using SN configured measurement as the initial triggering condition. The parameter can only be set if sn-				
InitiatedCondPSCellChangeNRDC-r17 is supported.				
A UE indicating support for this feature and for inter-SN-condPSCellChangeFDD-				
TDD-NRDC-r17, and respectively for inter-SN-condPSCellChangeFR1-FR2-				
NRDC-r17, shall support this feature between FDD and TDD cells, and				
respectively between FR1 and FR2 cells, in NR-DC. mn-InitiatedCondPSCellChange-FR1FDD-ENDC-r17	UE	No	No	No
Indicates whether the UE supports MN initiated conditional PSCell change within	OL	INO	INO	INO
all supported FR1-FDD bands in EN-DC, which is configured by E-UTRA				
conditionalReconfiguration field using MN configured measurement as triggering				
condition. The UE supporting this feature shall also support 2 trigger events for				
same execution condition in MN initiated conditional PSCell change in EN-DC.		.		
mn-InitiatedCondPSCellChange-FR1TDD-ENDC-r17	UE	No	No	No
Indicates whether the UE supports MN initiated conditional PSCell change within all supported FR1-TDD bands in EN-DC, which is configured by E-UTRA				
conditionalReconfiguration field using MN configured measurement as triggering				
condition. The UE supporting this feature shall also support 2 trigger events for				
same execution condition in MN initiated conditional PSCell change in EN-DC.				
mn-InitiatedCondPSCellChange-FR2TDD-ENDC-r17	UE	No	No	No
Indicates whether the UE supports MN initiated conditional PSCell change within				
all supported FR2-TDD bands in EN-DC, which is configured by E-UTRA				
conditionalReconfiguration field using MN configured measurement as triggering				
condition. The UE supporting this feature shall also support 2 trigger events for same execution condition in MN initiated conditional PSCell change in EN-DC.				
pscellT312-r16	UE	No	No	No
Indicates whether the UE supports T312 based fast failure recovery for PSCell.	0_			
sn-ConfiguredReferenceConfigSCPAC-r18	UE	No	No	No
Indicates whether the UE supports reference configuration for <i>sn-Configured-</i>				
SCPAC-r18 as defined in TS 38.331 [9].	UE	No	No	No
sn-ConfiguredSCPAC-r18 Indicates whether the UE supports Subsequent CPAC as defined in TS 38.331 [9]	UE	INO	INO	INO
for SN configured subsequent conditional PSCell change (intra-SN) in NR-DC.				
The parameter can only be set if condPSCellChange-r16 is supported.				
A UE indicating support for this feature and for <i>condPSCellChangeFDD-TDD-r16</i> ,				
and respectively for condPSCellChangeFR1-FR2-r16, shall support this feature				
between FDD and TDD cells, and respectively between FR1 and FR2 cells, in NR-				
DC. sn-InitiatedCondPSCellChange-FR1FDD-ENDC-r17	UE	No	No	No
Indicates whether the UE supports SN initiated inter-SN conditional PSCell change	UE	INO	INO	INO
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.				1
sn-InitiatedCondPSCellChange-FR1TDD-ENDC-r17	UE	No	No	No
Indicates whether the UE supports SN initiated inter-SN conditional PSCell change within all supported FR1-TDD bands in EN-DC, which is configured by E-UTRA				
conditionalReconfiguration field using SN configured measurement as triggering				
condition. The UE supporting this feature shall also support 2 trigger events for				
same execution condition in SN initiated inter-SN conditional PSCell change in				
EN-DC.				
sn-InitiatedCondPSCellChange-FR2TDD-ENDC-r17	UE	No	No	No
Indicates whether the UE supports SN initiated inter-SN conditional PSCell change				
within all supported FR2-TDD bands in EN-DC, which is configured by E-UTRA				
conditionalReconfiguration field using SN configured measurement as triggering condition. The UE supporting this feature shall also support 2 trigger events for				
same execution condition in SN initiated inter-SN conditional PSCell change in				
EN-DC.				

4.2.10 Inter-RAT parameters

Definitions for parameters	Per	М	FDD- TDD DIFF
mfbi-EUTRA	UE	Yes	No
Indicates whether the UE supports the mechanisms defined for cells broadcasting multi band information i.e. comprehending <i>multiBandInfoList</i> defined in TS 36.331 [17].			
modifiedMPR-BehaviorEUTRA	UE	No	No
modifiedMPR-Behavior in 4.3.5.10, TS 36.306 [15].			
multiNS-Pmax-EUTRA	UE	No	No
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 with EPC, the UE shall support IMS voice over E-UTRA via EPC.	UE	No	No	No
voiceOverNR, voiceOverNR-r17 Indicates whether the UE supports IMS voice over NR. It is mandated to the UE if the UE is capable of IMS voice over NR (including SNPN if the UE is SNPN capable). Otherwise, the UE does not include this field. If this field is included and the UE is capable of E-UTRA with EPC, the UE shall support IMS voice over E-UTRA via EPC.	UE	No	No	Yes (Incl FR2-2 DIFF)
voiceOverSCG-BearerEUTRA-5GC Indicates whether the UE supports IMS voice over SCG bearer of NE-DC.	UE	No	No	N/A

NOTE: In this release of specification, IMS voice over split bearer is not supported for NR-DC, NE-DC, and L2 multi-path relay.

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. In addition, it is mandatory for an IAB-MT which is not a mobile IAB-MT to support the following features:

- Cell barring based on *iab-Support*, as specified in TS 38.331 [9].
- Inclusion of *iab-NodeIndication*, as specified in TS 38.331 [9].

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), component2), component3) except paging
	1-3	SS block based RLM	SS-SINR measurement	o, except paging
2. MIMO	2-1	Basic PDSCH	1) Data RE mapping	
		reception	2) Single layer transmission	
		·	3) Support one TCI state	
	2-5	Basic downlink DMRS	1) Support 1 symbol FL DMRS without additional symbol(s)	
		for scheduling type A	2) Support 1 symbol FL DMRS and 1 additional DMRS	
			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 transmission	Data RE mapping Single layer (single Tx) transmission	
		transmission	Single port, single resource SRS transmission (SRS set	
			use is configured as for codebook)	
	2-16	Basic uplink DMRS	Support 1 symbol FL DMRS without additional symbol(s)	
		(uplink) for scheduling	2) Support 1 symbol FL DMRS and 1 additional DMRS	
		type A	symbols	
		3,700	3) Support 1 symbol FL DMRS and 2 additional DMRS	
			symbols	
	2-16a	Basic uplink DMRS	1) Support 1 symbol FL DMRS without additional symbol(s)	
		for scheduling type B	2) Support 1 symbol FL DMRS and 1 additional DMRS	
			symbol	
	2-22	Aperiodic beam report	Support aperiodic report on PUSCH	
	2-32	Basic CSI feedback	1) Type I single panel codebook based PMI (further discuss	
			which mode or both to be supported as mandatory)	
			2) 2Tx codebook for FR1 and FR2	
			3) 4Tx codebook for FR1	
			4) 8Tx codebook for FR1 when configured as wideband	
			CSI report 7) a-CSI on PUSCH (at least Z value >= 14 symbols, detail	
			processing time to be discussed separately)	
			further check a-CSI on p-CSI-RS and/or SP-CSI-RS from	
			component-7	
	2-50	Basic TRS	1) Support of TRS (mandatory)	
			2) All the periodicity are supported.	
	2-52	Basic SRS	1) Support 1 port SRS transmission	
			2) Support periodic/aperiodic SRS transmission	

T				
3. DL	3-1	Basic DL control	One configured CORESET per BWP per cell in addition	
control		channel	to CORESET0	
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	
			FDD	
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	
			9) Semi-static beta-offset configuration for HARQ-ACK	
			10) Single group of overlapping PUCCH/PUCCH and	
			overlapping PUCCH/PUSCH s per slot per PUCCH cell	
	4.15	D : !!!DC : C'	group for control multiplexing	
	4-10	Dynamic HARQ-ACK	Dynamic HARQ-ACK codebook	
		codebook		

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

4.2.15.1a Mandatory mobile IAB-MT features

Mobile IAB-MT shall apply the same capabilities as IAB-MT unless indicated otherwise. In addition, it is mandatory for mobile IAB-MT to support the following features:

- Acquisition of gNB-ID-Length from SIB1, as specified in TS 38.331 [9].
- Cell barring based on *mobileIAB-Support*, as specified in TS 38.331 [9].
- Inclusion of mobileIAB-NodeIndication, as specified in TS 38.331 [9].

All IAB-MT features and corresponding capabilities related to MR-DC and BAP header rewriting are not used by the mobile IAB-MT.

4.2.15.2 General Parameters

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

4.2.15.3 SDAP Parameters

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

4.2.15.4 PDCP Parameters

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

4.2.15.6 MAC Parameters

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

4.2.15.7 Physical layer parameters

4.2.15.7.1 BandNR parameters

Definitions for parameters	Per	M	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
multipleTCI 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
dI-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 Al-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 reporting and ProvidedGuardSymbols 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 TS 38.213 [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 A with less than seven symbols.	IAB -MT	No	No	No
pucch-F2-WithFH Indicates whether the IAB-MT supports transmission of a PUCCH format 2 (2 OFDM symbols in total) with frequency hopping in a slot.	IAB -MT	No	No	Yes
pucch-F3-WithFH Indicates whether the IAB-MT supports transmission of a PUCCH format 3 (4~14 OFDM symbols in total) with frequency hopping in a slot.	IAB -MT	No	No	Yes
restricted-IAB-DU-BeamReception-r17 Indicates the support of restricted IAB-DU beam reception.	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	IAB-	Yes	Yes	No
Indicates whether the IAB-MT supports NR measurements and events A triggered reporting as specified in TS 38.331 [9].	MT			
handoverInterF	IAB-	No	Yes	Yes
Indicates whether the IAB-MT supports inter-frequency HO. It indicates the support for inter-frequency HO from the corresponding duplex mode if this capability is included in fdd-Add-UE-NR-Capabilities or tdd-Add-UE-NR-Capabilities. It indicates the support for inter-frequency HO from the corresponding frequency range if this capability is included in fr1-Add-UE-NR-Capabilities or fr2-Add-UE-NR-Capabilities.	MT			
mfbi-IAB-r16	IAB-	No	No	No
Indicates whether the IAB-MT supports multiple frequency band indication.	MT			
intraAndInterF-MeasAndReport	IAB-	Yes	Yes	No
Indicates whether the IAB-MT supports NR intra-frequency and inter-frequency measurements and at least periodical reporting.	MT			

4.2.15.9 MR-DC Parameters

Definitions for parameters	Per	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	М	FDD- TDD DIFF	FR1- FR2 DIFF
Indicates whether the IAB-MT supports F1-C signalling over DLInformationTransfer and ULInformationTransfer messages via MN when IAB-MT operates in NR-DC and MN is the non-F1-termination node or via SN when IAB-MT operates in NR-DC and SN is the non-F1-termination node, as specified in TS 38.401 [33] and TS 37.340 [7].	IAB- MT	No	No	No
simultaneousRxTx-IAB-MultipleParents-r17 Indicates the support of simultaneous transmission and reception of an IAB-node from multiple parent nodes.	BC	No	No	No

4.2.16 Sidelink Parameters

4.2.16.1 Sidelink Parameters in NR

4.2.16.1.1 Sidelink General Parameters

Definitions for parameters	Per	M	FDD- TDD DIFF	FR1- FR2 DIFF
accessStratumReleaseSidelink-r16 Indicates the access stratum release for NR sidelink communication the UE supports as specified in TS 38.331 [9].	UE	Yes	No	No
multipathRelayUE-N3C-r18 Indicates whether L2 multi-path relay UE operation using non-3GPP connection is supported by the UE.	UE	No	No	No
multipathRemoteUE-N3C-r18 Indicates whether L2 multi-path remote UE operation using non-3GPP connection is supported by the UE.	UE	No	No	No
multipathRemoteUE-PC5L2-r18 Indicates whether L2 multi-path remote UE operation using PC5 connection is supported by the UE. A UE supporting this feature shall also indicate support of remoteUE-Operation-L2-r17.	UE	No	No	No
pdcp-DuplicationMoreThanOneUuRLC-r18 Indicates whether L2 multi-path remote UE supports PDCP duplication with more than one RLC entity over Uu interface in L2 multi-path relay. A UE supporting this feature shall also indicate support of multipathRemoteUE-PC5L2-r18 or multipathRemoteUE-N3C-r18.	UE	No	No	No
pdcp-CADuplicationDirectpath-DRB-r18 Indicates whether L2 multi-path remote UE supports CA-based PDCP duplication over DRB using Uu interface in L2 multi-path relay. A UE supporting this feature shall also indicate support of pdcp-DuplicationMoreThanOneUuRLC-r18.	UE	No	No	No
pdcp-CADuplicationDirectpath-SRB-r18 Indicates whether L2 multi-path remote UE supports CA-based PDCP duplication over SRB1/2 using Uu interface in L2 multi-path relay. A UE supporting this feature shall also indicate support of pdcp-DuplicationMoreThanOneUuRLC-r18.	UE	No	No	No
pdcp-DuplicationMP-SplitDRB-r18 Indicates whether L2 multi-path remote UE supports PDCP duplication over split DRB in L2 multi-path relay. A UE supporting this feature shall also indicate support of multipathRemoteUE-PC5L2-r18 or multipathRemoteUE-N3C-r18.	UE	No	No	No
pdcp-DuplicationMP-SplitSRB-r18 Indicates whether L2 multi-path remote UE supports PDCP duplication over split SRB1/2 in L2 multi-path relay. A UE supporting this feature shall also indicate support of multipathRemoteUE-PC5L2-r18 or multipathRemoteUE-N3C-r18.	UE	No	No	No
directpathRLF-RecoveryViaSRB1-r18 Indicates whether L2 multi-path remote UE supports recovery from direct path RLF via split SRB1 using either PC5 connection or non-3GPP connection (if supported) in TS 38.331 [9].	UE	No	No	No
posSIB-ForwardingSupported-r18 Indicates whether the UE, when operating as an NR L2 sidelink relay UE, supports forwarding of posSIBs. The UE capable of operation as an NR L2 sidelink relay UE shall set this field to supported if it is capable of obtaining posSIBs.	UE	CY	No	No
relayUE-Operation-L2-r17 Indicates whether NR L2 sidelink relay UE operation is supported by the UE. A UE supporting this feature shall also indicate support of supportedBandCombinationListSL-RelayDiscovery-r17.	UE	No	No	No
relayUE-U2U-OperationL2-r18 Indicates whether L2 U2U sidelink relay UE operation is supported by the UE. A UE supporting this feature shall also indicate support of supportedBandCombinationListSL-U2U-RelayDiscovery-r18.	UE	No	No	No
remoteUE-IndirectPathAddChangeToldleInactiveRelay-r18 Indicates whether L2 multi-path remote UE supports indirect path addition or indirect path change with target relay UE in RRC_IDLE or RRC_INACTIVE state. A UE supporting this feature shall also indicate support of multipathRemoteUE-PC5L2-r18 or multipathRemoteUE-N3C-r18.	UE	No	No	No
remoteUE-Operation-L2-r17 Indicates whether NR L2 sidelink remote UE operation is supported by the UE. A UE supporting this feature shall also indicate support of supportedBandCombinationListSL-RelayDiscovery-r17.	UE	No	No	No
remoteUE-PathSwitchToldleInactiveRelay-r17 Indicates whether L2 sidelink remote UE supports direct to indirect path switch with target relay in RRC_IDLE or RRC_INACTIVE state. A UE supporting this feature shall also indicate support of remoteUE-Operation-L2-r17.	UE	No	No	No

remoteUE-U2N-PathSwitchOperationL2-r18 Indicates whether enhanced NR L2 U2N remote UE operation for intra-gNB path switch and inter-gNB path switch including separate SL-RSRP and SD-RSRP	UE	No	No	No
threshold configurations for events X1 and X2 is supported by the UE. A UE supporting this feature shall also indicate support of <i>remoteUE-Operation-L2-r17</i> .				
remoteUE-U2U-OperationL2-r18	UE	No	No	No
Indicates whether L2 U2U sidelink remote UE operation is supported by the UE. A				
UE supporting this feature shall also indicate support of supportedBandCombinationListSL-U2U-RelayDiscovery-r18.				
sfn-DFN-OffsetSupported-r18	UE	No	No	No
Indicates whether the UE, when operating as an NR L2 sidelink relay UE, supports				
indication of the offset between SFN and DFN timelines.				
sI-PRS-CommonProcCapabilityPerUE-r18	UE	No	No	No
Indicates the common SL-PRS processing capability, and comprises the following				
parameters:				
 maxNumOfActiveSL-PRS-Resources-r18: Maximum number of active SL 				
PRS resources across all configured RPs across all bands in a slot assuming				
maximum SL PRS bandwidth in MHz, which is supported and reported by UE;				
 maxNumOfSlotswithActiveSL-PRS-Resources-r18: Maximum number of 				
slots with active SL PRS resources across all configured RPs across all				
bands assuming maximum SL PRS bandwidth in MHz, which is supported				
and reported by UE.				
A UE supporting this feature shall also support sI-PRS-				
CommonProcCapabilityPerBand-r18.				
splitDRB-WithUL-BothDirectIndirect-r18	UE	No	No	No
Indicates whether L2 multi-path remote UE supports UL transmission via both direct				
path and indirect path for split DRB. A UE supporting this feature shall also indicate				
support of multipathRemoteUE-PC5L2-r18 or multipathRemoteUE-N3C-r18.				

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.				
pdcp-DuplicationDRB-sidelink-r18	UE	No	No	No
Indicates whether the UE supports CA-based duplication over sidelink DRB as				
specified in TS 38.323 [16].				
pdcp-DuplicationSRB-sidelink-r18	UE	No	No	No
Indicates whether the UE supports CA-based duplication over sidelink SRB1/2/3 as				
specified in TS 38.323 [16].				

4.2.16.1.3 Sidelink RLC Parameters

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

4.2.16.1.4 Sidelink MAC Parameters

Definitions for parameters	Per	M	FDD- TDD DIFF	FR1- FR2 DIFF
drx-OnSidelink-r17	UE	No	No	No
Indicates whether UE supports sidelink DRX for unicast, groupcast and broadcast.			N	.
Icp-RestrictionSidelink-r16 Indicates whether UE supports the selection of logical channels for each SL grant based on RRC configured restriction.	UE	No	No	No
Indicates whether the UE supports the logicalChannelSR-DelayTimer as specified in TS 38.321 [8] for sidelink logical channel(s).	UE	No	Yes	No
multipleSR-ConfigurationsSidelink-r16 Indicates whether the UE supports 8 SR configurations per PUCCH cell group as specified in TS 38.321 [8] for sidelink.	UE	No	Yes	No
multipleConfiguredGrantsSidelink-r16 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.	UE	No	No	No
sI-LBT-FailureDectectionRecovery-r18 Indicates whether the UE supports sidelink consistent LBT detection and recovery, as specified in TS 38.321 [8], for shared spectrum channel access.	UE	No	No	No

4.2.16.1.5 Other PHY parameters

Definitions for parameters	Per	M	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
supportedBandCombinationListSL-U2U-RelayDiscovery-r18 Defines the supported band combinations of NR U2U 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, supportedBandCombinationListSL-RelayDiscovery-r17 or supportedBandCombinationListSL-U2U-RelayDiscovery-r18, 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 DIFF	FR1- FR2 DIFF
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 CRIimit. 				
 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. 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	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:	Band	INO	IN/A	IN/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.				
enb-Sync-Sidelink-v1710 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 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.				
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.				

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 <i>sl-Reception-r16</i> , sl-				
TransmissionMode1-r16 and sl-TransmissionMode2-r16.				
IowSE-64QAM-MCS-TableSidelink-r16	Band	No	N/A	N/A
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-				
TransmissionMode1-r16 and sl-TransmissionMode2-r16.				
psfch-FormatZeroSidelink-r16	Band	CY	N/A	N/A
Indicates whether UE supports PSFCH format 0. If supported, this parameter indicates the support of the capabilities and includes the parameters as follows:				
- UE can transmit and receive NR PSFCH format 0.				
- psfch-RxNumber which indicates the number of PSFCH(s) resources that				
the UE can receive in a slot. Value n5 corresponds to 5, n15 corresponds to 15, and so on.				
- psfch-TxNumber which indicates the number of PSFCH(s) resources that the				
UE can transmit in a slot. Value n4 corresponds to 4, n8 corresponds to 8,				
and so on.				
This field is only applicable if the UE supports at least one of <i>sl-Reception-r16</i> and <i>sl-TransmissionMode2-r16</i> .				
NOTE: One forwarding by ND the investor and to be assessed in a board				
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.				
indicated with only the PCS interface in 13 36.101-1 [2] Table 5.2E.1-1.				
Support of this feature is mandatory if UE supports NR sidelink.				
rankTwoReception-r16	Band	No	N/A	N/A
Indicates whether UE supports rank 2 PSSCH reception.			,, .	, .
This field is only applicable if the UE supports <i>sl-Reception-r16</i> .				
rx-IUC-Scheme1-NonPreferredMode2Sidelink-r17	Band	No	N/A	N/A
Indicates whether UE supports reception of non-preferred resource set for NR				
sidelink for mode 2. If supported, this parameter indicates the support of the				
capabilities as follows:				
- UE can receive inter-UE coordination information of non-preferred resource				
set and use the 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 <i>sync-Sidelink-r16</i> or <i>sync-Sidelink-v1710</i> .				
NOTE: Configuration by NR Uu is not required to be supported in a band				
indicated with only the PC5 interface in TS 38.101-1 [2] Table 5.2E.1-1.				
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.				
	1			
UE can transmit an explicit request for inter-UE coordination information of preferred resource set only.				
preferred resource set only.				
preferred resource set only. UE supporting this feature shall support receiving NR sidelink of S-SSB or indicate				
preferred resource set only.				
preferred resource set only. UE supporting this feature shall support receiving NR sidelink of S-SSB or indicate				

rx-IUC-Scheme1-SCI-ExplicitReq-r17	Band	No	N/A	N/A
Indicates whether UE can receive an explicit request for inter-UE coordination	Danu	INO	IN/A	IN/A
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.				
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-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.				
UE indicating support of this feature shall indicate support of at least one of <i>rx-IUC</i> -				
Scheme1-Preferred-Mode2Sidelink-r17 and rx-IUC-Scheme1-NonPreferred-				
Mode2Sidelink-r17.				
Wodez Oldellink-111.				
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.	-		N1/A	N1/A
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.				
,				
UE supporting this feature shall support receiving NR sidelink of S-SSB or indicate				
support of sync-Sidelink-r16 or sync-Sidelink-v1710.				
Support of Syrie Gradimit 170 of Syrie Gradimit 1777 for				
NOTE 1: If UE reports more than one capability of <i>psfch-FormatZeroSidelink-r16</i> ,				
rx-sidelinkPSFCH-r17 and rx-IUC-Scheme1-PreferredMode2Sidelink-r17,				
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.				
scheme2-ConflictDeterminationRSRP-r17	Band	No	N/A	N/A
Indicates whether UE can determine a conflict for overlapping resource reservation				
between UE-B and another UE based on RSRP difference of the two reservations.				
UE indicating support of this feature shall indicate support of <i>tx-IUC-Scheme2-</i>				
Mode2Sidelink-r17.				
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.				

 sI-CA-Communication-r18 Indicates whether the UE supports NR SL communication with SL CA. This capability signalling comprises the following parameters: numberOfCarriers-r18 indicates the number of SL carries that a UE supports for transmitting/receiving PSCCH/PSSCH/PSFCH simultaneously. The maximum number of simultaneous PSCCH/PSSCH TX equal to numberOfCarriers-r18, 1 TX per carrier; numberOfPSCCH-DecodeValueZ-r18 indicates the number of value Z for PSCCH decoding. The UE can receive Z* floor (N_{RB,i}/10 RBs) PSCCH in a slot on ith carrier of the carriers. totalBandwidth-r18 indicates the total bandwidth that a UE can aggregate. 	Band	No	N/A	N/A
For the number of non-overlapped PRBs over aggregated SL carriers, the UE can attempt to decode N _{RB,i} non-overlapping RBs in a slot on i th carrier of the carriers. N _{RB,i} is the number of RBs defined per channel bandwidth of i th carrier in TS 38.101-1 [2] Table 5.3.2-1 for FR1. The UE can adjust the transmission power of the PSCCH/PSSCH/PSFCH across aggregated carriers such that its total transmission power does not exceed the maximum transmission power.				
A UE supporting this feature shall also indicate support of sl-TransmissionMode2-r16 and psfch-FormatZeroSidelink-r16.				
NOTE: This feature is supported only in a band indicated with the PC5 interface in TS 38.101-1 [2] Table 5.2E.1A-1 for FR1.				
 sI-CA-PSFCH-r18 Indicates whether the UE supports PSFCH for SL CA. This capability comprises the following parameters: rx-PSFCH-Resource-r18 indicates the number of PSFCH resources that a UE supports to receive in a slot over all aggregated SL carriers. A UE is capable of receiving at least one PSFCH resource on each of the aggregated carriers in a slot. It is up to UE implementation which PSFCH(s) to receive; tx-PSFCH-Resource-r18 indicates the number of PSFCH resources that a UE supports to transmit in a slot over all aggregated SL carriers according to PSFCH procedures. A UE is capable of transmitting at least one PSFCH resource on each of the aggregated carriers. A UE supporting this feature shall also indicate support of sl-CA-Communication-r18. 	Band	No	N/A	N/A
sl-CA-Synchronization-r18	Band	No	N/A	N/A
Indicates whether the UE supports transmitting S-SSB on one selected or all candidate synchronization carriers with the same sync reference from Set-B and receiving S-SSB from all candidate synchronization carriers with the same sync reference from Set-B. The UE can adjust the transmission power of the S-SSB across aggregated carriers such that its total transmission power does not exceed the maximum transmission power. A UE supporting this feature shall also indicate support of sl-CA-Communication-r18 and sync-Sidelink-r16. NOTE 1: Option of UE selection of one selected SL synchronization carrier with the same sync reference from Set-B is not based on limited Tx capability. NOTE 2: Receiving S-SSB from all candidate synchronization carriers with the same sync reference from Set-B does not require simultaneous reception of S-SSB on all candidate synchronization carriers with the same sync				
reference from Set-B. sI-DynamicSharingTxRx-r18 Indicates whether the UE supports avoidance of NR PSCCH/PSSCH/PSFCH overlapping with EUTRA SL resources in dynamic resource pool sharing using LTE sidelink resource reservation information in NR mode2 resource (re)selection. The UE also supports NR sidelink TXs and RXs in a resource pool in 15kHz and 30kHz SCSs and uses the SCS that is (pre)configured for a SL BWP. This does not imply that two different SCSs can be (pre)configured simultaneously in a SL BWP. A UE supporting this feature shall also indicate support of sI-TransmissionMode2-r16, psfch-FormatZeroSidelink-r16 and short-term time-scale TDM for in-device coexistence.	Band	No	N/A	N/A

sl-openLoopPC-RSRP-ReportSidelink-r16				
	Band	CY	N/A	N/A
Indicates whether UE supports sidelink pathloss based open loop power control and	1			
RSRP report in case of unicast.				
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, except for A2X				
services.				
si-PathiossBasedOLPC-SL-RSRP-Report-r18	Band	No	N/A	N/A
Indicates whether UE supports Open loop SL pathloss based power control for SL-	Danu	INO	IN/A	11/7
PRS and associated PSCCH and SL RSRP report for dedicated resource pool for				
unicast transmissions.				
UE supporting this feature shall also support of at least one of <i>sl-PRS</i> -				
TxScheme1InDedicatedResourcePool-r18 or sl-PRS-				
TxScheme2InDedicatedResourcePool-r18.				
sl-PRS-CommonProcCapabilityPerBand-r18	Band	No	N/A	N/A
Indicates the common SL-PRS processing capability per band, and comprises the				
following parameters:				
- maxSL-PRS-Bandwidth-r18 indicates the maximum SL PRS bandwidth in				
MHz in a resource pool for positioning, which is supported and reported by				
UE for SL-PRS measurement;				
- maxNumOfActiveSL-PRS-ResourcesInOneSlot-r18 indicates the maximum				
number of active SL PRS resources across all configured RPs in a slot				
assuming maximum SL PRS bandwidth in MHz, which is supported and				
reported by UE;				
- maxNumOfSlotsWithActiveSL-PRS-Resources-r18 indicates the maximum				
number of slots with active SL PRS resources across all configured RPs				
assuming maximum SL PRS bandwidth in MHz, which is supported and				
reported by UE; - minTimeAfterEndofSlotCarryActiveSL-PRS-Resources-r18 indicates the				
minimum time after the end of a slot carrying the active SL-PRS resource(s)				
assuming maximum number of symbols and maximum bandwidth for a UE to	,			
finish the SL-PRS resource and the associated PSCCH processing which is	,			
supported and reported by UE;				
, , , , , , , , , , , , , , , , , , ,				
NOTE: A SL PRS resource is considered as active starting at the end of the last				
symbol of the PSCCH carrying the SCI trigger and the occupancy is				
released at the end of timeline indicated				
minTimeAfterEndofSlotCarryActiveSL-PRS-Resources-r18.				
sI-PRS-CongestionCtrl-r18	Band	No	N/A	N/A
Indicates whether UE supports SL-PRS congestion control in a dedicated resource				
pool, and is comprised of the following functional components:				
- Support reporting SL PRS CBR measurement to gNB when operating in				
mode 1 and mode 2 (NOTE 1);				
Support adjusting its radio parameters based on SL PRS CBR measurement	I			
I mad CL DDC CD limits				
and SL PRS CR limit;			l	
This capability signalling indicates the congestion process time within which the UE				
This capability signalling indicates the congestion process time within which the UE can process SL PRS CBR and SL PRS CR. Value 'cpt1' denotes 2, 2, 4, 8 slots for				
This capability signalling indicates the congestion process time within which the UE can process SL PRS CBR and SL PRS CR. Value 'cpt1' denotes 2, 2, 4, 8 slots for 15, 30, 60, 120 kHz subcarrier spacing, value 'cpt2' denotes 2, 4, 8, 16 slots for 15,				
This capability signalling indicates the congestion process time within which the UE can process SL PRS CBR and SL PRS CR. Value 'cpt1' denotes 2, 2, 4, 8 slots for 15, 30, 60, 120 kHz subcarrier spacing, value 'cpt2' denotes 2, 4, 8, 16 slots for 15, 30, 60, 120 kHz subcarrier spacing, and value 'cpt3' denotes 3, 6, 12, 24 slots for				
This capability signalling indicates the congestion process time within which the UE can process SL PRS CBR and SL PRS CR. Value 'cpt1' denotes 2, 2, 4, 8 slots for 15, 30, 60, 120 kHz subcarrier spacing, value 'cpt2' denotes 2, 4, 8, 16 slots for 15, 30, 60, 120 kHz subcarrier spacing, and value 'cpt3' denotes 3, 6, 12, 24 slots for 15, 30, 60, 120 kHz subcarrier spacing.				
This capability signalling indicates the congestion process time within which the UE can process SL PRS CBR and SL PRS CR. Value 'cpt1' denotes 2, 2, 4, 8 slots for 15, 30, 60, 120 kHz subcarrier spacing, value 'cpt2' denotes 2, 4, 8, 16 slots for 15, 30, 60, 120 kHz subcarrier spacing, and value 'cpt3' denotes 3, 6, 12, 24 slots for 15, 30, 60, 120 kHz subcarrier spacing. A UE supporting this feature shall also support sl-PRS-				
This capability signalling indicates the congestion process time within which the UE can process SL PRS CBR and SL PRS CR. Value 'cpt1' denotes 2, 2, 4, 8 slots for 15, 30, 60, 120 kHz subcarrier spacing, value 'cpt2' denotes 2, 4, 8, 16 slots for 15, 30, 60, 120 kHz subcarrier spacing, and value 'cpt3' denotes 3, 6, 12, 24 slots for 15, 30, 60, 120 kHz subcarrier spacing.				
This capability signalling indicates the congestion process time within which the UE can process SL PRS CBR and SL PRS CR. Value 'cpt1' denotes 2, 2, 4, 8 slots for 15, 30, 60, 120 kHz subcarrier spacing, value 'cpt2' denotes 2, 4, 8, 16 slots for 15, 30, 60, 120 kHz subcarrier spacing, and value 'cpt3' denotes 3, 6, 12, 24 slots for 15, 30, 60, 120 kHz subcarrier spacing. A UE supporting this feature shall also support sl-PRS-RxInDedicatedResourcePool-r18, and at least one of sl-PRS-				
This capability signalling indicates the congestion process time within which the UE can process SL PRS CBR and SL PRS CR. Value 'cpt1' denotes 2, 2, 4, 8 slots for 15, 30, 60, 120 kHz subcarrier spacing, value 'cpt2' denotes 2, 4, 8, 16 slots for 15, 30, 60, 120 kHz subcarrier spacing, and value 'cpt3' denotes 3, 6, 12, 24 slots for 15, 30, 60, 120 kHz subcarrier spacing. A UE supporting this feature shall also support sl-PRS-RxInDedicatedResourcePool-r18, and at least one of sl-PRS-TxScheme1InDedicatedResourcePool-r18 and sl-PRS-				
This capability signalling indicates the congestion process time within which the UE can process SL PRS CBR and SL PRS CR. Value 'cpt1' denotes 2, 2, 4, 8 slots for 15, 30, 60, 120 kHz subcarrier spacing, value 'cpt2' denotes 2, 4, 8, 16 slots for 15, 30, 60, 120 kHz subcarrier spacing, and value 'cpt3' denotes 3, 6, 12, 24 slots for 15, 30, 60, 120 kHz subcarrier spacing. A UE supporting this feature shall also support sl-PRS-RxInDedicatedResourcePool-r18, and at least one of sl-PRS-TxScheme1InDedicatedResourcePool-r18 and sl-PRS-				

sl-PRS-RxForBandWithSL-CA-r18	Band	No	N/A	N/A
Indicates whether UE supports SL PRS reception in a single carrier for a shared SL				
PRS resource pool and/or a dedicated SL PRS resource pool for a band configured				
with SL CA.				
UE supporting this feature shall also support sI-CA-Communication-r18, and one of				
sl-PRS-RxInSharedResourcePool-r18 or sl-PRS-RxInDedicatedResourcePool-r18.				
NOTE 1: In a shared SL PRS resource pool in a single SL carrier, Tx power				
control follows the rule defined for SL CA in NR Rel-18.				
NOTE 2: In a dedicated SL PRS resource pool in a single SL carrier when the				
slots (pre)configured for the dedicated SL PRS resource pool do not				
collide with the slots (pre)configured for any other resource pool or S-				
SSB resource(s) in other carriers.				
sI-PRS-RxInDedicatedResourcePool-r18	Band	No	N/A	N/A
Indicates whether UE supports receiving SL-PRS in dedicated resource pool and				
receiving SCI format 1B.				
This field comprises the following parameters:				
- numOfSupportedRxPSCCH-PerSlot-r18 indicates the number of PSCCH UE				
can receive in a slot. value1 corresponds to floor (N _{RB} /10 RBs), value2				
corresponds to 2*floor (N _{RB} /10 RBs). N _{RB} is the number of RBs defined per				
channel bandwidth in TS 38.101-1 [2] Table 5.3.2-1 for FR1 and TS 38.101-				
2 [3] Table 5.3.2-1 for FR2.				
- supportedCP-TypeFor60kHzSCS-r18 indicates the supported CP type for 60				
kHz SCS.				
UE supporting this feature shall also support sI-PRS-				
CommonProcCapabilityPerBand-r18.	D 1		N1/A	N1/A
si-PRS-RxinSharedResourcePool-r18	Band	No	N/A	N/A
Indicates whether UE supports receiving SL-PRS in shared resource pool and				
receiving SCI format 2D.				
A UE supporting this feature shall also support sI-PRS-				
CommonProcCapabilityPerBand-r18 and sl-Reception-r16 as specified in TS				
38.331 [9]. sl-PRS-TxForBandWithSL-CA-r18	Band	No	N/A	N/A
Indicates whether UE supports SL PRS transmission in a single carrier for a shared	Danu	INO	IN/A	IN/A
SL PRS resource pool and/or a dedicated SL PRS resource pool for a band				
configured with SL CA.				
UE supporting this feature shall also support <i>sl-CA-Communication-r18</i> , and one of				
sl-PRS-TxInSharedResourcePool-r18, sl-PRS-				
TxScheme1InDedicatedResourcePool-r18, or sI-PRS-				
TxScheme2InDedicatedResourcePool-r18.				
TXOCHEMEZINDEGICALEGICET CONTINU.				
NOTE 1: In a shared SL PRS resource pool in a single SL carrier: Tx power				
control follows the rule defined for SL CA in NR Rel-18.				
NOTE 2: In a dedicated SL PRS resource pool in a single SL carrier when the				
slots (pre)configured for the dedicated SL PRS resource pool do not				
collide with the slots (pre)configured for any other resource pool or S-				
SSB resource(s) in other carriers.				
si-PRS-TxinSharedResourcePool-r18	Band	No	N/A	N/A
Indicates whether UE supports transmitting SL-PRS in a shared resource pool, and	Dana		,, .	,, .
is comprised of the following functional components:				
Support transmitting SL-PRS in shared resource pool;				
- Support transmitting SCI format 2D;				
- Support downlink pathloss based open loop power control.				
The supported resource allocation modes are the same as for communication and				
signaled in sl-TransmissionMode1-r16 and sl-TransmissionMode2-r16.				
UE supporting this feature shall also support s/-TransmissionMode1-r16 or s/-				
TransmissionMode2-r16, and sl-PRS-RxInSharedResourcePool-r16.				
NOTE: If UE indicates support of <i>p0-OLPC-Sidelink-r17</i> , the range of P0 values				
associated with p0-OLPC-Sidelink-r17 is used for SL PRS transmission.				
associated with po-olfo-sidelifik-fit is used for 5L PRS transmission.				

sl-PRS-TxRandomSelection-r18	Band	No	N/A	N/A
Indicates whether UE supports random selection in a dedicated resource pool, and				
is comprised of the following functional components:				
Support transmitting SL-PRS and associated PSCCH using random				
selection in a dedicated resource pool;				
 Support DL pathloss based open loop power control when configured by NR 				
Uu (NOTE 2).				
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: It 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.				
sI-PRS-TxScheme1InDedicatedResourcePool-r18	Band	No	N/A	N/A
Indicates whether UE supports transmitting SL-PRS scheme 1 in a dedicated				
resource pool, and is comprised of the following functional components:				
 Support transmitting SL-PRS and PSCCH within a slot without PSSCH in 				
dedicated resource pool;				
- Support transmitting SL-PRS according to the mapping rule between				
PSCCH and SL-PRS;				
 Support transmitting SCI format 1B; 				
- Support receiving DCI format 3_2;				
 Support downlink pathloss based open loop power control of SL-PRS (NOTE) 	≣			
1).				
UE supporting this feature shall also support sI-PRS-RxInDedicatedResourcePool- r18.				
NOTE: It 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.				
sI-PRS-TxScheme2InDedicatedResourcePool-r18	Band	No	N/A	N/A
Indicates whether UE supports transmitting SL-PRS scheme 2 in a dedicated	Dana		,, .	''''
resource pool, and is comprised of the following functional components:				
- Support transmitting SL-PRS and PSCCH within a slot without PSSCH in				
dedicated resource pool;				
- Support transmitting SL-PRS according to the mapping rule between				
PSCCH and SL-PRS;				
- Support transmitting SCI format 1B.				
UE supporting this feature shall also support of at least one of sI-PRS-				
TxRandomSelection-r18 or sl-PRS-TxUsingFullSensing-r18.				
sl-PRS-TxUsingFullSensing-r18	Band	No	N/A	N/A
Indicates whether UE supports full sensing in a dedicated resource pool, and is				
comprised of the following functional components:				
- UE can transmit SL-PRS and associated PSCCH using full sensing;				
 Support DL pathloss based open loop power control when configured by NR 				
UU. This concludes indicated the number of DCCCU UE can receive in a class Value				
This capability also indicates the number of PSCCH UE can receive in a slot. Value				
'value1' corresponds to floor (N _{RB} /10 RBs), value 'value2' corresponds to 2*floor (N _{RB} /10 RBs). 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 5.3.2-1 for FR2.				
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: Component 2 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 3: UE supporting this feature also support receiving SCI format 1B.		<u></u>		
sl-ReceptionIntraCarrierGuardBand-r18	Band	No	N/A	FR1
Indicates whether the UE supports reception in the non-zero intra-cell guardband				only
	1	I	I	I
between contiguous RB sets in SL wideband carrier operation wider than 20MHz				
between contiguous RB sets in SL wideband carrier operation wider than 20MHz when LBT is successful only in a subset of RB sets, where intra-cell guardband is specified in TS 38.101-1 [2].				

sl-Reception-r16	Band	CY	N/A	N/A
Indicates whether receiving NR sidelink communication is supported. If supported, this parameter indicates the support of the capabilities and includes the parameters as follows:	Dand	O1	IV/A	IV/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> , <i>supportedBandCombinationListSL-RelayDiscovery-r17</i> or <i>supportedBandCombinationListSL-U2U-RelayDiscovery-r18</i> , it indicates whether receiving non-relay/relay NR sidelink discovery is supported.				
sI-Rx-256QAM-r16 Indicates UE can receive PSSCH according to the 256QAM MCS table.	Band	No	N/A	FR1 only
This field is only applicable if the UE supports sl-Reception-r16.				Office

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sI-TransmissionMode1-r16 Indicates whether transmitting NR sidelink mode 1 scheduled by Uu is supported. If supported, this parameter indicates the support of the capabilities and includes the parameters as follows:	Band	CY	N/A	N/A
 UE can transmit PSCCH/PSSCH using configured grant type 1. For NR sidelink mode 1 scheduled by NR Uu, UE can additionally transmit PSCCH/PSSCH using dynamic scheduling or configured grant type 2. Up to 8 configured grants can be configured for a UE. 				
 harq-TxProcessModeOneSidelink, which indicates the number of sidelink HARQ processes across all links that the UE supports for NR PSSCH transmission using mode 1, including those for configured grants. Value n8 corresponds to 8, n16 corresponds to 16, and so on. 				
- UE can transmit PSSCH according to the normal 64QAM MCS OFDM table.				
- UE supports PT-RS transmission in FR2.				
 For NR sidelink mode 1 scheduled by NR Uu, UE can monitor DCI format 3_0 for NR sidelink dynamic scheduling and configured grant type 2 on the same carrier as sidelink. 				
- scs-CP-PatternTxSidelinkModeOne, which indicates the subcarrier spacing with normal CP and the corresponding bandwidth that the UE supports for NR sidelink communication transmission using NR sidelink mode 1. Value scs-15kHz corresponds to 15kHz, scs-30kHz corresponds to 30kHz, and so on. For FR1, the bits in scs-XXkHz starting from the leading / leftmost bit indicate 5, 10, 15, 20, 25, 30, 40, 50, 60, 70, 80, 90 and 100MHz. For FR2, the bits in scs-XXkHz starting from the leading / leftmost bit indicate 50, 100 and 200MHz. For a band indicated with only the PC5 interface in 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 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, except for A2X services. If a band is included in <i>supportedBandCombinationListSL-NonRelayDiscovery-r17</i> , <i>supportedBandCombinationListSL-RelayDiscovery-r17</i> or <i>supportedBandCombinationListSL-U2U-RelayDiscovery-r18</i> ,, it indicates whether receiving non-relay/relay NR sidelink discovery is supported.				

al Tura a mile sia a Maria O mac	D	0)/	NI/A	NI/A
sI-TransmissionMode2-r16 Indicates whether transmitting NR sidelink mode 2 is supported. If supported, this	Band	CY	N/A	N/A
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 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.				
- 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, 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.				
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.				
indicated with only the Foo interface in Fo 50. For Fig.				
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	Danu	INO	IN/A	IN/A
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.				
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,				
supportedBandCombinationListSL-RelayDiscovery-r17 or				
supportedBandCombinationListSL-U2U-RelayDiscovery-r18, it indicates whether				
transmitting NR sidelink mode 2 with random resource selection is supported for				
non-relay/relay NR sidelink discovery.				
NOTE 4. Configuration by ND III, is not required to be appropried in a first				
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. sI-Tx-256QAM-r16	Band	No	N/A	FR1
Indicates UE can transmit PSSCH according to the 256QAM MCS table.	Jana	. 10	. 4// 1	only
This field is only applicable if the UE supports at least one of sl-				
TransmissionMode1-r16 and sl-TransmissionMode2-r16.				
sI-UE-COT-Sharing-r18	Band	No	N/A	N/A
Indicates whether the UE supports using <i>ue-ToUE-COT-sharingED-Threshold-r18</i>				
for Type 1 channel access for UE to UE COT sharing and indicating COT sharing information in SCI. The capability is only expected for a band where shared				
spectrum channel access must be used.				
A UE supporting this feature shall also indicate support of sl-				
DynamicChannelAccess-r18.				

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 sI-SyncPriority set to GNSS and sI-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 TS 38.101-1 [2], Table 5.2E.1-1. Otherwise, it is mandatory. 				
 gNB-GNSS-UE-SyncWithPriorityOnGNSS, which indicates whether UE additionally supports gNB, GNSS and SyncRef UE as the synchronization reference according to the synchronization procedure with 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 <i>sl-Reception-r16</i> , <i>sl-TransmissionMode1-r16</i> and <i>sl-TransmissionMode2-r16</i> .				
NOTE: Configuration by NR Uu is not required to be supported in a band indicated with only the PC5 interface in TS 38.101-1 [2] Table 5.2E.1-1.				
Support of this feature is mandatory if UE supports NR sidelink.				

sync-Sidelink-v1710	Band	No	N/A	N/A
Indicates whether UE supports synchronization sources for NR sidelink. If				
supported, this parameter indicates the support of the capabilities and includes the				
parameters as follows:				
 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 sI-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 sl-TransmissionMode1-				
r16 or sI-TransmissionMode2-r16 or sI-TransmissionMode2-PartialSensing-				
r17 or sI-TransmissionMode2-RandomResourceSelection-r17.				
- UE supports synchronization to a reference UE if it supports sl-Reception-				
r16.				
<u></u>				
NOTE: Configuration by NR Uu is not required to be supported in a band				
indicated with only the PC5 interface in TS 38.101-1 [2] Table 5.2E.1-1.				
ue-PowerClassSidelink-r16	Band	No	N/A	N/A
This parameter indicates the supported power class for this band used for sidelink.				
The power class <i>pc5</i> is only applicable for sidelink band of shared spectrum				
channel access. If the field is absent, the UE supports the default power class in TS				
38.101-1 [2], Table 6.2E.1.2-2 and Table 6.2E.1F-1.				

4.2.16.1.6a SharedSpectrumChAccessParamsSidelinkPerBand Parameters

Definitions for parameters	Per	M	FDD- TDD DIFF	FR1- FR2 DIFF
sI-ContiguousRB-TxRx-r18 Indicates whether the UE supports contiguous RB-based PSCCH/PSSCH	Band	No	N/A	N/A
transmission/reception and resource (re-)selection for contiguous RB-based PSCCH/PSSCH transmission.				
A UE supporting this feature shall also support of at least one of sl- CrossCarrierScheduling-r16, sl-TransmissionMode2-r16, sl-TransmissionMode2-				
PartialSensing-r17, and sl-TransmissionMode2- RandomResourceSelection-r17.				
NOTE 1: If UE supports sl-CrossCarrierScheduling-r16, the UE is not required to support PT-RS transmission in FR2 and monitoring DCI format 3_0 for NR sidelink dynamic scheduling and configured grant type 2 on the same carrier as sidelink in sl-TransmissionMode1-r16.				
NOTE 2: If UE supports sl-TransmissionMode2-r16, the UE is not required to support PT-RS transmission in FR2 and transmission using 120 kHz				
subcarrier spacing with normal CP FR2 in sl-TransmissionMode2-r16. sl-DynamicChannelAccess-r18	Band	CY	N/A	N/A
Indicates whether the UE supports the following components in a band where	Dana		14/71	14// (
shared spectrum channel access is used: - SL Type 1 channel access and contention window size adjustment				
SL Type 2A channel accessSL Type 2B channel access				
- SL Type 2B channel access - SL Type 2C channel access				
 20MHz LBT bandwidth CP extension up to 1 symbol in 15kHz SCS if the UE supports 15 kHz SCS 				
- CP extension up to 2 symbols in 30kHz SCS				
 CP extension up to 2 symbols if the UE supports 60kHz SCS when regions without OCB requirements. 				
For UE supports NR SL in shared spectrum and when shared spectrum channel access must be used for a band, UE must support this feature.				
A UE supporting this feature shall also indicate support of at least one of sl-				
CrossCarrierScheduling-r16, sl-TransmissionMode2-r16, sl-TransmissionMode2-RandomResourceSelection-r17, and sl-TransmissionMode2-PartialSensing-r17.				
sl-DynamicMultiChannelAccess-r18	Band	No	N/A	N/A
Indicates the number of channels with 20MHz LBT bandwidth for multi-channel access procedures for PSCCH/PSSCH/S-SSB/PSFCH transmission(s) in multiple				
RB sets in a slot.				
A UE supporting this feature shall also indicate support of sl- DynamicChannelAccess-r18.				
NOTE: Support of S-SSB/PSFCH transmission(s) in multiple RB-sets in a slot is according to the support of {sI-PSFCH-MultiContiguousRB-r18, sI-				
PSFCH-MultiNonContiguousRB-r18} and {S-SSB transmissions in				
multiple contiguous RB sets, S-SSB transmissions in multiple non- contiguous RB sets }.				
sI-Interlace-RB-TxRx-r18 Indicates whether the UE supports interlace RB-based SL transmissions for the	Band	CY	N/A	N/A
physical layer channels that it is capable of transmit and interlace RB-based SL receptions for the physical layer channels that it is capable of receive.				
A UE supporting this feature shall also indicate support of at least one of sl- CrossCarrierScheduling-r16, sl-TransmissionMode2-r16, sl-TransmissionMode2-				
RandomResourceSelection-r17, and sl-TransmissionMode2-PartialSensing-r17.				
The UE supports NR sidelink in shared spectrum where PSD and/or OCB requirements are defined by regulation must support this feature.				
sI-LBT-Option1-r18 Indicates whether the UE supports to avoid selection of N consecutive resource(s)	Band	No	N/A	N/A
before a reserved resource when the L1 SL priority value for the transmission is				
higher than the L1 SL priority value of the reserved resource and avoid selection of M consecutive resource(s) after a reserved resource when the transmitting symbols				
of the reserved resource overlap with LBT of the selected resource.				
It is up to UE whether to do it. A UE supporting this feature shall also indicate support of s/-				
DynamicChannelAccess-r18.				

				
sl-LBT-Option2-r18	Band	No	N/A	N/A
Indicates whether the UE supports to prioritize / select resource(s) in the slot(s) for				
transmission if transmission in slot(s) at least T_proc,0 before a reserved resource is				
able to share its initiated COT to the reservation. It is up to UE whether to do it.				
A UE supporting this feature shall also indicate support of sl-				
DynamicChannelAccess-r18.				
si-MultiplePRB-CommonInterlacePSFCH-r18	Band	CY	N/A	N/A
Indicates whether the UE supports transmissions/receptions of multiple dedicated				
PRBs in common interlace-based PSFCH.				
This capability signalling comprises the following parameters:				
- tx-TotalPRB-PSFCH-r18 indicates the maximum total number of dedicated				
PRBs for PSFCH in a slot that a UE can transmit PSFCH(s), in addition to				
common PRBs.				
- rx-TotalPRB-PSFCH-r18 indicates the maximum total number of dedicated				
PRBs for PSFCH in a slot that a UE can receive PSFCH(s).				
For UE supports NR sidelink in shared spectrum, where PSD and/or OCB				
requirements are defined by regulation, UE must support this feature.				
A UE supporting this feature shall also indicate support of <i>sl-Interlace-RB-TxRx-r18</i> .				
sl-MultiplePRB-DedicatedInterlacePSFCH-r18	Band	No	N/A	N/A
Indicates whether the UE supports transmissions/receptions of multiple dedicated			,, .	,, .
PRBs in dedicated interlace-based PSFCH.				
This capability signalling comprises the following parameters:				
- <i>tx-TotalPRB-PSFCH-r18</i> indicates the maximum total number of dedicated				
interlaces for PSFCH in a slot that a UE can transmit PSFCH(s).				
- rx-TotalPRB-PSFCH-r18 indicates the maximum total number of dedicated				
interlaces for PSFCH in a slot that a UE can receive PSFCH(s).				
A UE supporting this feature shall also indicate support of <i>sl-Interlace-RB-TxRx-r18</i> .				
sl-PowerClassUnlicensed-r18	Band	No	N/A	FR1
	Danu	INO	IN/A	
Indicates the supported power class of UE for this band used for sidelink				only
unlicensed. If the field is absent, the UE supports the default power class in TS				
38.101-1 [2], Table 6.2E.1F-1.		N.	N1/A	N1/A
sI-PSFCH-MultiContiguousRB-r18	Band	No	N/A	N/A
Indicates whether the UE supports PSFCH transmissions in multiple contiguous RB				
sets.				
A UE supporting this feature shall at least indicate support of sl-				
DynamicMultiChannelAccess-r18 or support transmitting PSFCH/S-SSB on a subset				
of the intended number of RB sets based on the outcome of channel access on				
individual RB sets.				
sl-PSFCH-MultiNonContiguousRB-r18	Band	No	N/A	N/A
Indicates whether the UE supports PSFCH transmissions in multiple non-contiguous				
RB sets.				
A UE supporting this feature shall also indicate support of sI-PSFCH-				
MultiContiguousRB-r18.				
sI-PSFCH-MultiOccasion-r18	Band	No	N/A	N/A
Indicates the number of PSFCH occasion(s) per PSCCH/PSSCH that a UE supports				
for PSFCH transmission/reception.				
A UE supporting this feature shall also indicate support of psfch-				
FormatZeroSidelink-r16.				
sI-ResourceAllocMode1-r18	Band	No	N/A	N/A
Indicates whether the UE supports monitoring DCI format 3_0 on a licensed band				
for NR sidelink dynamic scheduling and configured grant type 2 for transmitting				
PSCCH/PSSCH on a shared spectrum and reporting NACK to gNB when				
transmitting PSCCH/PSSCH on scheduled resource(s) is failed due to LBT failure.				
A UE supporting this feature shall also indicate support of <i>sl</i> -				
DynamicChannelAccess-r18.				
DynamiconalineiAccess-i io.]			

4.2.16.1.7 BandCombinationListSidelinkEUTRA-NR Parameters

Definitions for parameters	Per	M	FDD- TDD DIFF	FR1- FR2 DIFF
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
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.				
sl-CrossCarrierScheduling-r16 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

s/-TransmissionMode2-PartialSensing-r17 Indicates transmitting NR sidelink mode 2 with partial sensing 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 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	
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. - harg-TxProcessModeTwoSidelink-r17, which indicates the number of	
parameters as follows: - UE can transmit PSCCH/PSSCH using NR sidelink mode 2 with partial sensing configured by NR Uu or preconfiguration. - harg-TxProcessModeTwoSidelink-r17, which indicates the number of	
- UE can transmit PSCCH/PSSCH using NR sidelink mode 2 with partial sensing configured by NR Uu or preconfiguration harg-TxProcessModeTwoSidelink-r17, which indicates the number of	
sensing configured by NR Uu or preconfiguration. - harq-TxProcessModeTwoSidelink-r17, which indicates the number of	
- harg-TxProcessModeTwoSidelink-r17, which indicates the number of	
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 symbol SE \$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.	
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, supportedBandCombinationListSL-RelayDiscovery-r17 or	
supportedBandCombinationListSL-U2U-RelayDiscovery-r18, it indicates whether transmitting NR sidelink mode 2 with partial sensing is supported for non-relay/relay	
NR sidelink discovery.	
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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.	

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. NOTE: Configuration by NR Uu is not required to be supported in a band	FS	No	N/A	N/A
indicated with only the PC5 interface in TS 38.101-1 [2] Table 5.2E.1-1. tx-IUC-Scheme2-Mode2Sidelink-r17	FS	No	N/A	N/A
Indicates whether UE supports transmission of inter-UE coordination scheme 2 for NR sidelink for mode 2. If supported, this parameter indicates the support of the capabilities and includes the parameters as follows: - UE can transmit inter-UE coordination information of presence of expected/potential resource conflict in NR sidelink mode 2. - UE can transmit up to M PSFCH(s) resources in a slot where M takes the values of {4, 8, 16}		INO	14/74	IVA
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 of 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.				
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

4.2.16.2 Sidelink Parameters in E-UTRA

4.2.16.2.0 General

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

4.2.16.2.1 BandSideLinkEUTRA parameters

Descriptions for parameters	Per	М	FDD- TDD DIFF
 gnb-ScheduledMode3SidelinkEUTRA-r16 Indicates whether transmitting V2X sidelink communication mode 3 scheduled by NR Uu is supported. If supported, this parameter indicates the support of the capabilities and includes the parameters as follows: the UE can be scheduled by gNB using DCI format 3_1 for V2X sidelink mode 3 transmission. gnb-ScheduledMode3DelaySidelinkEUTRA, which indicates the minimum value UE supports for the additional time indicated in the NR DCI scheduling V2X sidelink mode 3. Value ms0 corresponds to 0 ms, ms0dot25 corresponds to 0.25 ms, and so on. 	Band	No	N/A
This field is only applicable if the UE supports V2X sidelink communication. qnb-ScheduledMode4SidelinkEUTRA-r16	Band	No	N/A
Indicates whether the UE can be scheduled by gNB for V2X sidelink mode 4 transmission. This field is only applicable if the UE supports V2X sidelink communication.	Bana	140	14/74

4.2.17 SON parameters

Definitions for parameters	Per	M	FDD- TDD DIFF	FR1- FR2 DIFF
onDemandSI-Report-r17	UE	No	No	No
Indicates whether the UE supports delivery of on-Demand SI information upon request from the network as specified in TS 38.331 [9].				
pscell-MHI-Report-r17	UE	No	No	No
Indicates whether the UE supports the storage of PSCell mobility history information and the reporting in <i>UEInformationResponse</i> message as specified in TS 38.331 [9].				
rach-Report-r16	UE	No	No	No
Indicates whether the UE supports delivery of 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.				
spr-Report-r18	UE	No	No	No
Indicates whether the UE supports the storage and delivery of Successful PScell Change/Addition Report upon request from the network.				
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].				
successIRAT-HO-Report-r18	UE	No	No	No
Indicates whether the UE supports the storage and delivery of Successful Handover Report for Handover from NR to E-UTRA, upon request from the network.				
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	M	FDD- TDD DIFF	FR1- FR2 DIFF
barometerMeasReport-r16	UE	No	No	No
Indicates whether the UE supports uncompensated barometeric pressure				
measurement reporting upon request from the network.				
earlyMeasLog-r17	UE	No	No	No
Indicates whether the UE supports the storage of Early Measurement Logging in				
logged measurements and the reporting upon request from the network as specified				
in TS 38.331 [9].				
excessPacketDelay-r17	UE	No	No	No
Indicates whether the UE supports the UL PDCP excess packet delay measurement				
per DRB as specified in TS 38.314 [26]. A UE that supports the UL PDCP excess				
packet delay measurement shall also support the measurement configuration and				
reporting as specified in TS 38.331 [9].				
gnss-Location-r16	UE	CY	No	No
Indicates whether the UE is equipped with a GNSS or A-GNSS receiver that may be				
used to provide detailed location information along with SON, MDT, and NTN related				
measurements in RRC_CONNECTED, RRC_IDLE and RRC_INACTIVE state. A UE				
shall set this field to <i>supported</i> if it indicates the support of <i>nonTerrestrialNetwork-r17</i> .				
immMeasBT-r16	UE	No	No	No
Indicates whether the UE supports Bluetooth measurements in RRC_CONNECTED				
state.				
immMeasWLAN-r16	UE	No	No	No
Indicates whether the UE supports WLAN measurements in RRC_CONNECTED				
state.				
loggedMDT-PNI-NPN-r18	UE	No	No	No
Indicates whether the UE supports Logged MDT for PNI-NPN(s).				
loggedMDT-SNPN-r18	UE	No	No	No
Indicates whether the UE supports Logged MDT for SNPN(s).				
loggedMeasBT-r16	UE	No	No	No
Indicates whether the UE supports Bluetooth measurements in RRC_IDLE and				
RRC_INACTIVE state.				
loggedMeasurements-r16	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. For eRedCap UE supporting this feature, the				
minimum memory size of MDT logged measurements is 16KB.				
loggedMeasWLAN-r16	UE	No	No	No
Indicates whether the UE supports WLAN measurements in RRC_IDLE and				
RRC_INACTIVE state.				
multipleCEF-Report-r17	UE	No	No	No
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].				
orientationMeasReport-r16	UE	No	No	No
Indicates whether the UE supports orientation information reporting upon request from				
the network.				
sigBasedLogMDT-OverrideProtect-r17	UE	No	No	No
Indicates whether the UE supports the override protection of the signalling based				
logged measurements configured in NR.				
speedMeasReport-r16	UE	No	No	No
Indicates whether the UE supports speed information reporting upon request from the	"-			
network.				
ulPDCP-Delay-r16	UE	No	No	No
Indicates whether the UE supports UL PDCP Packet Average Delay measurement (as	5_	10	10	'10
specified in TS 38.314 [26]) and reporting in RRC_CONNECTED state.				
oposition in the desire (Log) and reporting in the Contract of Lo diate.				

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	Per	М	FDD- TDD DIFF	FR1- FR2 DIFF
qoe-AdditionalMemoryMeasReport-r18 Indicates the minimum AS layer memory size the UE supports for QoE measurement in RRC_IDLE and RRC_INACTIVE in addition to the "AS layer memory size for QoE paused measurement reports". Value kB128 means the UE supports at least 128 kilobytes for this purpose, and so on. A UE supporting this feature shall also support qoe-IdleInactiveMeasReport-r18.	UE	No	No	No
qoe-IdleInactiveMeasReport-r18 Indicates whether the UE supports NR QoE Measurement Collection in RRC_IDLE and RRC_INACTIVE states for the services indicated with qoe-Streaming-MeasReport-r17 or qoe-MTSI-MeasReport-r17 or qoe-VR-MeasReport-r17.	UE	No	No	No
qoe-MTSI-MeasReport-r17 Indicates whether the UE supports NR QoE Measurement Collection for MTSI services, see TS 26.114 [30].	UE	No	No	No
qoe-NRDC-MeasReport-r18 Indicates whether the UE supports to receive QoE configuration(s) via SRB1 and/or SRB3 (if supported) from SN, and send the corresponding QoE report(s) via SRB4 and/or SRB5 (if the UE supports srb5). A UE supporting this feature shall also support qoe-Streaming-MeasReport-r17 or qoe-MTSI-MeasReport-r17 or qoe-VR-MeasReport-r17.	UE	No	No	No
qoe-PriorityBasedDiscarding-r18 Indicates whether the UE supports to discard QoE report(s) stored during QoE pause for UE in RRC_CONNECTED and stored in RRC_IDLE/RRC_INACTIVE based on the priority information gNB provides. A UE supporting this feature shall also support qoe-Streaming-MeasReport-r17 or qoe-MTSI-MeasReport-r17 or qoe-VR-MeasReport-r17, and conditionally support qoe-IdleInactiveMeasReport-r18 for QoE measurement reports in RRC_IDLE/RRC_INACTIVE.	UE	No	No	No
qoe-Streaming-MeasReport-r17 Indicates whether the UE supports NR QoE Measurement Collection for streaming services, see TS 26.247 [29].	UE	No	No	No
qoe-MTSI-MeasReport-r17 Indicates whether the UE supports NR QoE Measurement Collection for MTSI services, see TS 26.114 [30].	UE	No	No	No
qoe-VR-MeasReport-r17 Indicates whether the UE supports NR QoE Measurement Collection for VR services, see TS 26.118 [31].	UE	No	No	No
ran-VisibleQoE-Streaming-MeasReport-r17 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.	UE	No	No	No
ran-VisibleQoE-VR-MeasReport-r17 Indicates whether the UE supports RAN visible QoE Measurement Collection for VR services. A UE supporting this feature shall also support qoe-VR-MeasReport-r17.	UE	No	No	No
srb5-r18 Indicates whether the UE supports SRB5 which is a direct SRB between the SN and the UE as specified in TS 37.340 [7]. A UE supporting this feature shall also indicate support of qoe-NRDC-MeasReport-r18.	UE	No	No	No
ul-MeasurementReportAppLayer-Seg-r17 Indicates whether the UE supports RRC segmentation of the MeasurementReportAppLayer message in UL over SRB4 and SRB5 (if supported), as specified in TS 38.331 [9].	UE	No	No	No

4.2.21 RedCap Parameters

4.2.21.1 Definition of RedCap UE

RedCap UE is the UE with reduced capability:

- The maximum bandwidth is 20 MHz for FR1, and is 100 MHz for FR2. UE features and corresponding capabilities related to UE bandwidths wider than 20 MHz in FR1 or wider than 100 MHz in FR2 are not supported by RedCap UEs;
- The mandatory support (with capability signalling, *enhancedChannelRaster-r18*) of the channel raster as specified in TS 38.101-1 [2], clause 5.4I, for all bands supported by the UE;
- 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, IAB (i.e., the RedCap UE is not expected to act as IAB node), and NCR (i.e., the RedCap UE is not expected to act as NCR-MT) 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 other 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. For MO-SDT, UE supporting this feature shall indicate support of supportOfRedCap-r17 or supportOfERedCap-r18, and ra-SDT-r17 and/or cg-SDT-r17. For MT-SDT, UE supporting this feature shall indicate support of supportOfRedCap-r17 or supportOfERedCap-r18 and mt-SDT-r18 and/or mt-CG-SDT-r18.	UE	No	No
supportOf16DRB-RedCap-r17 Indicates whether the (e)RedCap UE supports 16 DRBs. This capability is only applicable for (e)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;	UE	CY	No

4.2.21.3 PDCP parameters

Definitions for parameters	Per	M	FDD- TDD DIFF
IongSN-RedCap-r17	UE	No	No
Indicates whether the (e)RedCap UE supports 18 bit length of PDCP sequence number.			
This capability is only applicable for (e)RedCap UEs.			

4.2.21.4 RLC parameters

Definitions for parameters	Per	М	FDD- TDD DIFF
am-WithLongSN-RedCap-r17	UE	No	No
Indicates whether the (e)RedCap UE supports AM DRB with 18 bit length of RLC			
sequence number. This capability is only applicable for (e)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 (e)RedCap 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	M	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 or supportOfERedCap-r18.	Band	No	N/A	N/A
dl-PRS-MeasurementWithRxFH-RRC-ConnectedForRedCap-r18 Indicates whether UE supports DL-PRS measurement with Rx frequency hopping within a MG and measurement reporting in RRC_CONNECTED for RedCap UEs and comprises the following parameters: - maximumPRS-BandwidthAcrossAllHopsFR1-r18 indicates the maximum DL PRS bandwidth across all hops in MHz for FR1, which is supported and reported by UE.	Band	No	N/A	N/A
 maximumPRS-BandwidthAcrossAllHopsFR2-r18 indicates the maximum DL PRS bandwidth across all hops in MHz for FR2, which is supported and reported by UE. 				
 maximumFH-Hops-r18 indicates the maximum number of hops, which is supported and reported by UE. 				
 processingDuration-r18 indicates the duration of DL PRS symbols N3 in units of ms a UE can process every T3 ms. 				
 processingPRS-SymbolsDurationN3-r18 indicates the values for N3. Enumerated values indicate 0.125, 0.25, 0.5, 1, 2, 4, 6, 8, 12, 16, 20, 25, 30, 32, 35, 40, 45, 50 ms. 				
- processingDurationT3-r18 indicates the values for T3. Enumerated values indicate 8, 16, 20, 30, 40, 80, 160, 320, 640, 1280ms.				
 rf-RxRetuneTimeFR1-r18 indicates the RF Rx retune times between consecutive hops for FR1. Enumerated values indicate 70, 140, 210µs. 				
- rf-RxRetuneTimeFR2-r18 indicates the RF Rx retune times between consecutive hops for FR2. Enumerated values indicate 35, 70, 140µs.				
 numOfOverlappingPRB-r18 indicates the overlapping PRB(s) between adjacent hops. Enumerated values indicate 0,1,2,4 PRBs. 				
UE indicating support of this feature shall also indicate support of supportedBandwidthPRS-r16, dl-PRS-BufferType-r16, durationOfPRS-Processing-r16, maxNumOfDL-PRS-ResProcessedPerSlot-r16 defined in TS 37.355 [22] and one of supportOfRedCap-r17 and supportOfERedCap-r18 defined in TS 38.331 [35].				
NOTE 1: The maximum DL-PRS bandwidth per hop follows component 1 of supportedBandwidthPRS-r16 defined in TS 37.355 [22]. NOTE 2: DL PRS buffering capability follows component 2 of dl-PRS-BufferType-r16 defined in TS 37.355 [22].				
dI-PRS-MeasurementWithRxFH-RRC-IdleForRedCap-r18 Indicates whether UE supports PRS measurement with Rx frequency hopping in RRC_IDLE for RedCap UEs. A UE supporting this feature shall also indicate the support of dI-PRS-MeasurementWithRxFH-RRC-ConnectedForRedCap-r18.	Band	No	N/A	N/A
dI-PRS-MeasurementWithRxFH-RRC-InactiveForRedCap-r18 Indicates whether UE supports PRS measurement with Rx frequency hopping in RRC_INACTIVE for RedCap UEs. A UE supporting this feature shall also indicate the support of dI-PRS-MeasurementWithRxFH-RRC-ConnectedForRedCap-r18 and prs-ProcessingRRC-Inactive-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 (e)RedCap UE. The UE can include this field only if the UE supports supportOfRedCap-r17 or supportOfERedCap-r18.	Band	No	FDD only	FR1 only

Indicat	RS-TxFH-RRC-ConnectedForRedCap-r18 tes whether UE supports positioning SRS with Tx frequency hopping in CONNECTED for RedCap UEs and comprises the following eters: maximumSRS-BandwidthAcrossAllHopsFR1-r18 indicates the	Band	No	N/A	N/A
-	maximum positioning SRS bandwidth across all hops in MHz for FR1, which is supported and reported by UE.				
-	maximumSRS-BandwidthAcrossAllHopsFR2-r18 indicates the maximum positioning SRS bandwidth across all hops in MHz for FR2, which is supported and reported by UE.				
-	maximumTxFH-Hops-r18 indicates the maximum number of transmission hops, which is supported and reported by UE.				
-	rf-TxRetuneTimeFR1-r18 indicates the RF Tx retune times between consecutive hops for FR1. Enumerated values indicate 70, 140, 210µs.				
-	rf-TxRetuneTimeFR2-r18 indicates the RF Tx retune times between consecutive hops for FR2. Enumerated values indicate 35, 70, 140μs.				
-	switchTimeBetweenActiveBWP-FrequencyHop-r18 indicates the switching time between active BWP and frequency hop. Enumerated values indicate 100, 140, 200, 300, 500μs.				
-	numOfOverlappingPRB-r18 indicates the overlapping PRB(s) between adjacent hops. Enumerated values indicate 0,1,2,4 PRBs.				
-	maximumSRS-ResourcePeriodic-r18 indicates the maximum number of periodic positioning SRS resources with Tx frequency hopping.				
-	maximumSRS-ResourceAperiodic-r18 indicates the maximum number of aperiodic positioning SRS resources with Tx frequency hopping.				
-	maximumSRS-ResourceSemipersistent-r18 indicates maximum number of Semi-persistent positioning SRS resources with Tx frequency hopping.				
<i>AllPos</i>	licating support of this feature shall also indicate the support of SRS- Resources-r16 and one of supportOfRedCap-r17 and rtOfERedCap-r18.				
NOTE	No additional UE requirements shall be specified for the case of Tx hopping with non-overlapping hops compared to the case of Tx hopping with overlapping hops, e.g., a UE is not responsible for keeping phase continuity across the hops in either case of overlapping or non-overlapping hops.				

posSRS-TxFH-RRC-InactiveForRedCap-r18 Indicates the UE capability for support of positioning SRS with Tx frequency hopping in RRC_INACTIVE for RedCap UEs and comprises the following parameters:	Band	No	N/A	N/A
 maximumSRS-BandwidthAcrossAllHopsFR1-r18 indicates the maximum positioning SRS bandwidth across all hops in MHz for FR1, which is supported and reported by UE. 				
 maximumSRS-BandwidthAcrossAllHopsFR2-r18 indicates the maximum positioning SRS bandwidth across all hops in MHz for FR2, which is supported and reported by UE. 				
 maximumTxFH-Hops-r18 indicates the maximum number of transmission hops, which is supported and reported by UE. 				
 rf-TxRetuneTimeFR1-r18 indicates the RF Tx retune times between consecutive hops for FR1. Enumerated values indicate 70, 140, 210µs. 				
- rf-TxRetuneTimeFR2-r18 indicates the RF Tx retune times between consecutive hops for FR2. Enumerated values indicate 35, 70, 140µs.				
- switchTimeBetweenActiveBWP-FrequencyHop-r18 indicates the switching time between active BWP and frequency hop. Enumerated values indicate 100, 140, 200, 300, 500µs.				
 numOfOverlappingPRB-r18 indicates the overlapping PRB(s) between adjacent hops. Enumerated values indicate 0,1,2,4 PRBs. 				
 maximumSRS-ResourcePeriodic-r18 indicates the maximum number of periodic positioning SRS resources with Tx frequency hopping. 				
 maximumSRS-ResourceSemipersistent-r18 indicates maximum number of Semi-persistent positioning SRS resources with Tx frequency hopping. 				
UE indicating support of this feature shall also indicate the support of posSRS-RRC-Inactive-OutsideInitialUL-BWP-r17 and one of supportOfRedCap-r17 and supportOfERedCap-r18.				
NOTE: No additional UE requirements shall be specified for the case of Tx hopping with non-overlapping hops compared to the case of Tx hopping with overlapping hops, e.g., a UE is not responsible for keeping phase continuity across the hops in either case of overlapping or non-overlapping hops.				

4.2.21.7 SON parameters

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

4.2.22 eRedCap Parameters

4.2.22.1 Definition of eRedCap UE

eRedCap UE is the UE with reduced peak data rate and, with or without reduced baseband bandwidth in FR1:

- The maximum bandwidth is 20 MHz for FR1. UE features and corresponding capabilities related to UE bandwidths wider than 20 MHz in FR1 are not supported by eRedCap UEs. eRedCap UEs do not support operation in FR2 and in FR1 60kHz SCS.
- The mandatory support (with capability signalling, *enhancedChannelRaster-r18*) of the channel raster as specified in TS 38.101-1 [2], clause 5.4I, for all bands supported by the UE;
- The maximum mandatory supported DRB number is 8;
- The mandatory supported PDCP SN length is 12 bits while 18 bits being optional;
- The mandatory supported RLC AM SN length is 12 bits while 18 bits being optional;
- 1 DL MIMO layer if 1 Rx branch is supported, and 2 DL MIMO layers if 2 Rx branches are supported. UE features and corresponding capabilities related to more than 2 UE Rx branches 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 eRedCap UEs;
- CA, MR-DC, DAPS, CPAC, IAB (i.e., the eRedCap UE is not expected to act as IAB node), and NCR (i.e., the eRedCap UE is not expected to act as NCR-MT) related UE features and corresponding capabilities are not supported by eRedCap 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 eRedCap UEs same as other UEs, unless indicated otherwise.

4.2.22.2 General parameters

Definitions for parameters	Per	M	FDD- TDD DIFF	FR1- FR2 DIFF
eRedCapIgnoreCapabilityFiltering-r18 Indicates that the eRedCap UE ignores the capability filtering enquiry and conveys all the supported bands in the appliedFreqBandListFilter, as specified in TS 38.331 [9]. A UE indicating this field shall also indicate the support of supportOfERedCap-r18.	UE	No	No	FR1 only
eRedCapNotReducedBB-BW-r18 Indicates that the UE is an eRedCap UE without reduced baseband bandwidth in FR1. DL/UL peak data rate of 10 Mbps corresponding to v_{Layers} · Q_{m} · $f = 0.75$ when $v_{Layers} = 1$ and v_{Layers} · Q_{m} · $f = 0.8$ when $v_{Layers} = 2$.	UE	No	No	FR1 only
UE supporting this feature shall also indicate the support of supportOfERedCap-r18.				

supportOfERedCap-r18	UE	CY	No	FR1
Indicates that the UE is an eRedCap UE with reduced peak data rate and reduced				only
baseband bandwidth in FR1. This capability comprises of at least the following functional				-
components:				
The following functional components are the same as for <i>supportOfRedCap-r17</i> : - Maximum FR1 bandwidth is 20 MHz;				
- Support of RedCap early indication based on Msg1 for 4-step RACH, and MsgA				
PRACH (if UE indicates the support of twoStepRACH-r16);				
- Separate initial UL BWP (NOTE-1):				
 It includes the configuration(s) needed to perform random access 				
- Enabling/disabling of frequency hopping for common PUCCH resources				
- Separate initial DL BWP (NOTE-1);				
 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 (as specified in Annex B2 in TS 38.331 [9]), CD-SSB is included				
- 1 UE-specific RRC configured DL BWP per carrier;				
- 1 UE-specific RRC configured UL BWP per carrier;				
 UE-specific RRC-configured DL BWP with CD-SSB or NCD-SSB; 				
 NCD-SSB based measurements in RRC-configured DL BWP. 				
The following functional components are new compared to supportOfRedCap-r17:				
 DL/UL peak data rate of 10 Mbps corresponding to v_{Layers}· Q_m· f = 3.2. 				
- If UE supporting this feature also indicates eRedCapNotReducedBB-BW-r18,				
this component is not applicable.				
- Maximum number of PDSCH/PUSCH PRBs that can be scheduled/configured for				
unicast is 25 PRBs for 15 kHz SCS and is 12 PRBs for 30 kHz SCS.				
 If UE supporting this feature also indicates eRedCapNotReducedBB-BW-r18, 				
this component is not applicable Relaxed processing timeline of 1/0.5 ms for 15/30 kHz SCS when the RAR				
PDSCH and MsgB PDSCH (if supported) is larger than 25/12 PRBs for 15/30 kHz				
SCS.				
- If UE supporting this feature also indicates eRedCapNotReducedBB-BW-r18,				
this component is only applicable during contention based random access.				
- Network-configurable separate eRedCap early indication in Msg1.				
- Support of eRedCap early indication based on MsgA PUSCH, if UE indicates the				
support of <i>twoStepRACH-r16</i> , and Msg3. - Maximum number of Msg4 PDSCH PRBs, which is scheduled by DCI scrambled				
by a TC-RNTI, that can be decoded and maximum number of Msg 3 PUSCH				
PRBs and Msg A PUSCH PRBs (if supported), which is scheduled by RAR UL				
grant or by a DCI scrambled by a TC-RNTI, or is configured for a Type-2 random				
access procedure, that can be transmitted is 25 PRBs for 15 kHz SCS and is 12				
PRBs for 30 kHz SCS.				
- If UE supporting this feature also indicates <i>eRedCapNotReducedBB-BW-r18</i> ,				
this component is only applicable during contention based random access.				
An eRedCap UE shall set this field to supported but shall not indicate support of				
supportOfRedCap-r17.				
NOTE 1: The Separate initial DL/UL BWP is shared by RedCap UEs and eRedCap				
UEs when the access of both UEs is allowed and RedCap-specific initial BWP				
is configured.				

4.2.23 NCR Parameters

4.2.23.1 Mandatory NCR-MT features

Table 4.2.23.1-1, Table 4.2.23.1-2 and Table 4.2.23.1-3 capture feature groups, which are mandatory for an NCR-MT. In addition, it is mandatory for an NCR-MT to support the following features:

- Cell barring based on *ncr-Support*, as specified in TS 38.331 [9].

- Inclusion of ncr-NodeIndication, as specified in TS 38.331 [9].

CA, MR-DC, handover (e.g. CHO, DAPS, CPAC, etc), unlicensed band, HPUE Duty cycle, MPR related UE features and corresponding capabilities are not supported by an NCR-MT. 7.5kHz UL raster shift is not applicable to NCR-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 NCR-MT, unless indicated otherwise.

Table 4.2.23.1-1: Layer-1 mandatory features for NCR-MT

Features	Index	Feature group	Components
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
access and		channels and	2) SS block based RRM measurement
mobility		procedures	Broadcast SIB reception including RMSI/OSI and paging
2. MIMO	2-1	Basic PDSCH	1) Data RE mapping
		reception	2) Single layer transmission
			3) Support one TCI state
	2-5	Basic downlink DMRS	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	Support 1 symbol FL DMRS without additional symbol(s)
		for scheduling type B	2) Support 1 symbol FL DMRS and 1 additional DMRS symbol
	2-12	Basic PUSCH	Data RE mapping
		transmission	Single layer (single Tx) transmission
			Single port, single resource SRS transmission (SRS set use is
	0.40	Dania waliala DMDO	configured as for codebook)
	2-16	Basic uplink DMRS	1) Support 1 symbol FL DMRS without additional symbol(s)
		(uplink) for scheduling	2) Support 1 symbol FL DMRS and 1 additional DMRS symbols
	0.40-	type A Basic uplink DMRS	3) Support 1 symbol FL DMRS and 2 additional DMRS symbols
	2-16a	for scheduling type B	Support 1 symbol FL DMRS without additional symbol(s) Support 1 symbol FL DMRS and 1 additional DMRS symbol
	2-32	Basic CSI feedback	Type I single panel codebook based PMI (further discuss which
	2-32	Basic CSI leedback	mode or both to be supported as mandatory)
			2) 2Tx codebook for FR1 and FR2
			3) 4Tx codebook for FR1
			4) 8Tx codebook for FR1 when configured as wideband CSI report
			7) a-CSI on PUSCH (at least Z value >= 14 symbols, detail
			processing time to be discussed separately)
			further check a-CSI on p-CSI-RS and/or SP-CSI-RS from
			component-7
	2-50	Basic TRS	1) Support of TRS (mandatory)
			2) All the periodicity are supported.
	2-52	Basic SRS	1) Support 1 port SRS transmission
			2) Support periodic/aperiodic SRS transmission

3.D L control channel and procedure Basic DL control channel 1) One configured CORESET per BWP per cell in addition to CORESET or CORESET resource allocation of 6RB bit-map and duration of 1 – 3 OPDM symbols for FR1 - For type 1 CSS without dedicated RRC configuration and for type 0, 0A, and 2 CSSs, CORESET resource allocation of 6RB bit-map and duration 1-3 OFDM symbols for FR2 - For type 1 CSS with dedicated RRC configuration and for type 3 CSS. UE specific SS, CORESET resource allocation of 6RB bit-map and duration 1-2 OFDM symbols for FR2 - REG-bundle sizes of 2/3 RBs or 6 RBs - Interleaved and non-interleaved CCE-to-REG mapping - Precode-granularity of REG-bundle size - PDCCH DMRS scrambling determination - Tricl state(s) for a CORESET configuration, type 3 CSS, and UE-SS, and UE-SS configurations for unicast PDCCH transmission per BWP per cell - PDCCH aggregation levels 1, 2, 4, 8, 16 - For type 1 CSS without 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 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 single span of three consecutive OFDM symbols within a single span of three consecutive OFDM symbols within a single span of three consecutive OFDM symbols within a single span of three consecutive OFDM symbols within a single span of three consecutive OFDM symbols once per slot with a given SCS follows case 1-1 table 4. UL control channel - Basic UL control channel - Basic UL control channel - AUL control	0.01	104	I D . DI	1.00 C 1.00 PEOFT 5145
channel and procedure		3-1		,
and 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 - 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 - For type 1 CSS with dedicated RRC configuration, type 3 CSS, and UE-SS with dedicated RRC configuration, type 3 CSS, and UE-SS without dedicated RRC configuration and for type 0, 0A, and 2 CSS, the monitoring occasion is within the first 3 OFDM symbols 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 slot and the symbol within a slot an			channel	
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9) Semi-static beta-offset configuration for HARQ-ACK				
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PUCCH/PUSCH s per slot per PUCCH cell group for control				
multiplexing				
4-10 Dynamic HARQ-ACK Dynamic HARQ-ACK codebook		4-10	Dynamic HARQ-ACK	
codebook			codebook	

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

Table 4.2.23.1-2: Layer-2 and Layer-3 mandatory features for NCR-MT

Features	Index	Feature group	Components	Additional information
0. General	0-0	NCR procedures	1) Side control information over MAC CE and RRC, as specified in TS 38.321 [8] and TS 38.331 [9], respectively. 2) Switching OFF NCR-Fwd during radio link failure in TS 38.331 [9], beam failure recovery in TS 38.321 [8].	
1. PDCP	1-0	Basic PDCP procedures	1) (de)Ciphering on SRB 2) Integrity protection on SRB 4) Re-ordering and in-order delivery 6) Duplicate discarding 7) 12bits SN	
2. RLC	2-0	Basic RLC procedures	1) RLC TM 2) RLC AM with 12bits SN	
	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) NCR-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 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 8) Initial security activation 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 8) 5ms 10) 80ms

Table 4.2.23.1-3: RF and RRM mandatory features for NCR-MT

Features	Index	Feature group	Components
System parameter	1-3	64QAM for PUSCH	64QAM for PUSCH
2. UE RF	2-10	Multiple frequency band indication	Multiple frequency band indication

4.2.23.2 General Parameters

Definitions for parameters	Per	M	FDD- TDD DIFF	FR1- FR2 DIFF
inactiveStateNCR-r18	NCR-	No	No	No
Indicates whether the NCR-MT supports RRC_INACTIVE as specified in TS 38.331	MT			
[9].				
supportedNumberOfDRBs-NCR-r18	NCR-	No	No	No
Indicates the number of DRB that NCR-MT supports. If absent, NCR-MT does not	MT			
support DRB. If absent, NCR-MT also does not support SDU discard in PDCP and				
RLC, and counter check in RRC.				
Value <i>n1</i> indicates support of 1 DRB, value <i>n16</i> indicates the support of 16 DRBs.				

4.2.23.3 SDAP Parameters

Definitions for parameters	Per	M	FDD- TDD DIFF	FR1- FR2 DIFF
sdap-HeaderNCR-r18 Indicates whether the NCR-MT supports UL SDAP header and SDAP End-marker, as specified in TS 37.324 [25].	NCR- MT	No	No	No
sdap-QOS-NCR-r18 Indicates whether the NCR-MT supports flow-based QoS and multiple flows to 1 DRB mapping, as specified in TS 37.324 [25].	NCR- MT	No	No	No

4.2.23.4 PDCP Parameters

Definitions for parameters	Per	M	FDD- TDD DIFF	FR1- FR2 DIFF
IongSN-NCR-r18	NCR-	No	No	No
Indicates whether the NCR-MT supports 18 bit length of PDCP sequence number.	MT			

4.2.23.5 RLC Parameters

Definitions for parameters	Per	M	FDD- TDD DIFF	FR1- FR2 DIFF
am-WithLongSN-NCR-r18	NCR-	No	No	No
Indicates whether the NCR-MT supports AM DRB with 18 bit length of RLC	MT			
sequence number.				

4.2.23.6 Physical layer Parameters

4.2.23.6.1 Phy-Parameters

Definitions for parameters	Per	М	FDD- TDD DIFF	FR1- FR2 DIFF
ncr-AdaptiveBeamBackhaulAndC-Link-r18	NCR-	No	No	No
Indicates whether NCR supports backhaul link beam determination based on	MT			
predefined rule.				
The UE indicating support of this feature shall also indicate support of				
timeDurationForQCL, tci-StatePDSCH and additionalActiveTCI-StatePDCCH.				
ncr-AperiodicBeamInd-AccessLink-r18	NCR-	No	No	No
Indicates whether NCR supports aperiodic beam indication for access link. The UE	MT			
indicates the value of supported slot-offset for reference slot. The value is selected				
based on the SCS of the PDCCH received by the NCR-MT. If 0 is reported, the				
NCR expects that the time resource in NCR-AperiodicFwdConfig of the aperiodic				
beam indication is at least after the end of time resource for PDCCH carrying the				
DCI for aperiodic beam indication.				
ncr-BackhaulBeamInd-r18	NCR-	No	No	No
Indicates whether NCR supports dedicated signalling for backhaul link beam	MT			
indication.				
The UE indicating support of this feature shall also indicate support of <i>ncr-</i>				
AdaptiveBeamBackhaulAndC-Link-r18.				
ncr-dft-S-OFDM-WaveformUL-r18	NCR-	No	No	No
Indicates whether the NCR-MT supports DFT-S-OFDM waveform for UL and	MT			
transform precoding for single-layer PUSCH.				
ncr-Semi-PersistentBeamInd-AccessLink-r18	NCR-	No	No	No
Indicates whether NCR supports semi-persistent beam indication for access link,	MT			
priority flag for semi-persistent indication and MAC CE override of the RRC				
configured of the beam index(es) at activation of semi-persistent beam indication.				
ncr-SimultaneousUL-BackhaulAndC-Link-r18	NCR-	No	No	No
Indicates whether NCR supports simultaneous UL transmission of backhaul link and	MT			
C-link.				

4.2.23.6.2 BandNR parameters

Definitions for parameters	Per	М	FDD- TDD DIFF	FR1- FR2 DIFF
ncr-PDSCH-64QAM-FR2-r18	Band	No	N/A	FR2
Indicates whether the NCR-MT supports 64QAM modulation scheme for PDSCH for				only
FR2 as defined in 7.3.1.2 of TS 38.211 [6].				

4.2.24 Aerial UE Parameters

Definitions for parameters	Per	М	FDD- TDD DIFF	FR1- FR2 DIFF
aerialUE-Capability-r18 Indicates whether the UE supports aerial UE communication as described in TS 38.300 [28] clause 16.18.	UE	No	No	No
altitudeMeas-r18 Indicates whether the UE supports altitude based measurement reporting as specified in TS 38.331 [9]. It is mandatory if the UE supports aerialUE-Capability-r18.	UE	CY	No	No
altitudeBasedSSB-ToMeasure-r18 Indicates whether the UE supports altitude based ssb-ToMeasure as specified in TS 38.331 [9].	UE	No	No	No
eventAxHy-r18 Indicates whether the UE supports events A3H1, A3H2, A4H1, A4H2, A5H1, and A5H2 as specified in TS 38.331 [9]. If the UE indicates support of eventAxHy-r18, then the UE additionally supports multipleCellsMeasExtension-r18 for eventA3H1, eventA3H2, eventA4H1, eventA4H2, eventA5H1, and eventA5H2 as specified in TS 38.331 [9].	UE	No	No	No
flightPathReporting-r18 Indicates whether the UE supports reporting of the flight path plan through the procedure defined in TS 38.331 [9].	UE	No	No	No
flightPathAvailabilityIndicationUAI-r18 Indicates whether the UE supports indication of the flight path availability through the UAI message as defined in TS 38.331 [9]. If a UE supports this capability, the UE shall also support flightPathReporting-r18.	UE	No	No	No
multipleCellsMeasExtension-r18 Indicates whether the UE supports measurement reporting triggered based on a number of cells for eventA3, eventA4, and eventA5 as specified in TS 38.331 [9]. It is mandatory if the UE supports aeriaIUE-Capability-r18.	UE	CY	No	No
nr-NS-PmaxListAerial-r18 Indicates whether the UE supports the mechanisms defined for cells broadcasting nr-NS-PmaxListAerial and frequencyBandListAerial as specified in TS 38.331 [9]. It is mandatory if the UE supports aerialUE-Capability-r18.	UE	CY	No	No
simulMultiTriggerSingleMeasReport-r18 Indicates whether the UE supports, for all the events of the same type for which the measurement reporting was triggered, measurement reporting considering only the configuration of the event with the smallest value between the altitude of the UE and the corresponding altitude threshold, as specified in TS 38.331 [9].	UE	No	No	No
sI-A2X-Service-r18 Indicates whether the UE supports A2X service(s) which include BRID, DAA or both using A2X communication as specified in TS 38.331 [9]. This field also indicates whether the UE supports the dedicated resource pools as specified in TS 38.331 for the corresponding A2X service(s). A UE supporting this feature shall also support NR sidelink in at least one sidelink band.	UE	No	No	No

Optional features without UE radio access capability parameters

5.1 PWS features

Definitions for feature

CMAS

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

FTWS

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

KPAS

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

EU-Alert

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

5.2 UE receiver features

Definitions for feature

MU-MIMO Interference Mitigation advanced receiver with modulation order detection

R-ML (reduced complexity ML) receivers with enhanced inter-user interference suppression for MU-MIMO for 2 layers across target and co-scheduled UEs with 2RX and 4RX in FR1 when the co-scheduled UE information with DCI index 6 or 7 in Table 7.3.1.2.2-12 of TS 38.212 [10] is signalled.

UE supporting the feature is required to indicate the support of *advReceiver-MU-MIMO-r18* and meet the Enhanced Receiver Type 2 requirements in TS 38.101-4 [18].

MU-MIMO Interference Mitigation advanced receiver with modulation order detection Enh

R-ML (reduced complexity ML) receivers with enhanced inter-user interference suppression for MU-MIMO for 2 layers across target and co-scheduled UEs with 2RX and *maxNumberMIMO-LayersPDSCH* layers across target and co-scheduled UEs with 4RX in FR1 when the co-scheduled UE information with DCI index 6 in Table 7.3.1.2.2-12 of TS 38.212 [10] is signalled.

UE supporting the feature is required to indicate the support of *advReceiver-MU-MIMO-r18* and meet the Enhanced Receiver Type 2 requirements in TS 38.101-4 [18].

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

UE supporting the feature is required to meet the Enhanced Receiver Type 1 requirements in TS 38.101-4 [18].

SU-MIMO 8Rx receiver

- Baseline SU-MIMO 8Rx receiver: 8Rx receivers for SU-MIMO transmissions with support of up to 8 layers with joint 8Rx MIMO detector in FR1
- Simplified SU-MIMO 8Rx receiver: 8Rx receivers for SU-MIMO transmissions with support of up to 4 layers with two joint 4Rx MIMO detectors in FR1.

5.3 RRC connection

Definitions for feature

RRC connection release with deprioritisation

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

RRC connection establishment failure with temporary offset

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

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

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

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

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

5.4 Other features

Definitions for feature

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].

Barring exemption for emergency call

It is optional for UE to support the barring exemption for emergency call, as specified in TS 38.331 [9] and in TS 38.304 [21].

Beam Failure recovery for SDT

It is optional for UE to support Beam failure recovery for RA-SDT initiated for MO-SDT and MT-SDT as specified in TS 38.321 [8] and TS 38.331 [9].

eCall over IMS

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

Equivalent SNPNs for cell (re)selection

It is optional for UE in SNPN access mode to support cell (re)selection for equivalent SNPNs as specified in TS 38.304 [21].

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].

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].

Mobile IAB cell reselection

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

PUCCH repetition on common PUCCH resource

It is optional for UE to support repetition transmission of PUCCH for Msg4 HARQ-ACK on common PUCCH resource (i.e., PUCCH resource before dedicated configuration is provided). The UE supports receiving repetition factor in system information, receiving repetition factor in DCI format 1_0 with CRC scrambled by TC-RNTI scheduling Msg4 PDSCH, Msg3 to report capability for PUCCH Msg4 HARQ-ACK repetition, extension of the repetition transmission of PUCCH before dedicated PUCCH resource configuration and RSRP threshold for Msg4 HARQ-ACK repetition on common PUCCH resources.

A UE that includes LCID codepoint = one of {2, 3, 4, 5, 6, 7} for UL CCCH when the LX field is set to 1 must support this feature.

NOTE: This capability is applicable only for bands in Tables 5.2.2-1 and 5.2.3-1 in TS 38.101-5 [34] and HAPS operation bands in Clause 5.2 of TS 38.104 [35].

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].

Random access prioritisation for Slicing

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

Random access partitioning for Slicing

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

Relaxed cell reselection on GSO

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

Support of polarization signalling in NR NTN

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.

TRS occasions from SIB17 for idle mode and RRC_INACTIVE UEs

It is optional for UE to support reading TRS configuration from SIB17 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.

TRS occasions from SIB17bis for idle mode and RRC_INACTIVE UEs

It is optional for UE to support reading TRS configuration from SIB17bis 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.

5.5 Sidelink Features

Definitions for feature

CW autonomous update for SL transmission without HARQ feedback

It is optional for UE to support autonomous update of the CW_p to the next higher allowed value when the same $CW_p \ne CW_{max,p}$ value is consecutively used for X times for generation of N_{init} for PSCCH/PSSCH transmission without HARQ feedback for a band where shared spectrum channel access must be used.

A UE supporting this feature shall also indicate the support of sl-DynamicChannelAccess-r18.

Rank 2 PSSCH transmission

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

Receiving NR sidelink of S-SSB

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

Receiving PSCCH/PSSCH from 2nd starting symbol in a slot

It is optional for UE to support receiving PSCCH/PSSCH from 2nd starting symbol in a slot in addition to the first starting symbol for a band where shared spectrum channel access is used.

A UE supporting this feature shall also indicate support of sl-Reception-r16.

Receiving S-SSB on additional S-SSB occasion(s)

It is optional for UE to support receiving S-SSB on additional S-SSB occasion(s).

A UE supporting this feature shall also indicate support of sync-Sidelink-r16.

Resource allocation for multi-consecutive slots transmission

It is optional for UE to support resource (re-)selection for PSCCH/PSSCH transmission on multiple consecutive slots. A UE supporting this feature shall also indicate support of at least one of *sl-TransmissionMode2-r16* and *sl-TransmissionMode2-PartialSensing-r17*.

S-SSB transmissions in multiple contiguous RB sets

It is optional for UE to support S-SSB transmissions in multiple contiguous RB sets.

A UE supporting this feature shall at least indicate support of *sl-DynamicMultiChannelAccess-r18* or support transmitting PSFCH/S-SSB on a subset of the intended number of RB sets based on the outcome of channel access on individual RB sets.

S-SSB transmissions in multiple non-contiguous RB sets

It is optional for UE to support S-SSB transmissions in multiple non-contiguous RB sets.

A UE supporting this feature shall also support S-SSB transmissions in multiple contiguous RB sets.

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 feature 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.

SL multi-channel access allowing PSFCH/S-SSB transmission

It is optional for UE to support Type A and Type B multi-channel access procedures for PSFCH/S-SSB transmissions on a subset of intended number of RB sets based on the outcome of channel access on individual RB sets in a slot. A UE supporting this feature shall also indicate support of *sl-DynamicMultiChannelAccess-r18*.

Transmitting PSCCH/PSSCH from 2nd starting symbol in a slot

It is optional for UE to support transmitting PSCCH/PSSCH from 2nd starting symbol in a slot in addition to the first starting symbol for a band where shared spectrum channel access is used.

A UE supporting this feature shall also indicate support of *sl-DynamicChannelAccess-r18*, at least one of *sl-CrossCarrierScheduling-*r16, *sl-TransmissionMode2-r16*, *sl-TransmissionMode2-RandomResourceSelection-r17*, and *sl-TransmissionMode2-PartialSensing-r17*.

Transmitting SSB repetitions within one RB set

It is optional for UE to support transmitting S-PSS/S-SSS/PSBCH multiple times by repetition in frequency domain within one RB set.

The UE supports NR sidelink in shared spectrum where PSD and/or OCB requirements are defined by regulation must support this feature.

A UE supporting this feature shall also indicate support of sync-Sidelink-r16.

Transmitting S-SSB on additional S-SSB occasion(s)

It is optional for UE to support transmitting S-SSB on additional S-SSB occasion(s) per band.

A UE supporting this feature shall also indicate support of sync-Sidelink-r16.

5.6 RRM measurement features

Definitions for feature

Cell reselection from TN to NTN

It is optional for the UE in RRC_IDLE or in RRC_INACTIVE in a TN cell to support the measurement of NTN neighbour cells for cell reselection based on the information acquired in SIB19 as specified in TS 38.304 [21] and in TS 38.133 [5]. This feature is only applicable if the UE supports *nonTerrestrialNetwork-r17*.

Enhanced inter-frequency IDLE/INACTIVE measurements for HST FR2

It is optional for UE to support RRM requirement for inter-frequency measurements in idle and inactive mode to support FR2 high speed up to 350 km/h, as specified in TS 38.133 [5].

A UE supporting this feature shall also indicate support of PC6 in ue-PowerClass-v1700.

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.

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

It is optional for the UE in RRC_IDLE/RRC_INACTIVE to support the enhanced inter-frequency cell re-selection requirements for ATG (as specified in TS 38.133 [5], Table 4.2D.2.4-2). If UE does not support this feature, other measurement requirements as specified in TS 38.133 [5], Table 4.2D.2.4-1 are applied.

Enhanced RRM requirements for measurements in IDLE and INACTIVE modes for FR2-NTN

It is optional for UE to support enhanced RRM requirements for measurements for FDD FR2-NTN bands 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.

High speed inter-frequency IDLE/INACTIVE measurements

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

Location-based measurement initiation

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

Location-based measurement initiation for NTN Earth-moving cell

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

Relaxed measurement

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

Rel-17 relaxed measurement for RRC IDLE/RRC INACTIVE

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

Skipping TN measurements

It is optional for the UE in RRC_IDLE/RRC_INACTIVE to support skipping the neighbour cell measurements for TN neighbour cells in an area where there is no TN network coverage as specified in TS 38.304 [21].

SMTC adjustment for RRC IDLE/RRC INACTIVE

It is optional for the UE in RRC_IDLE/RRC_INACTIVE to support SMTC adjustment based on propagation delay difference between serving and neighbour cells.

Time-based measurement initiation

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

Time-based measurement initiation for NTN Earth-moving cell

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

5.7 MDT and SON features

Definitions for feature

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.

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].

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.

RACH Partitioning Information

It is optional for UE to support the delivery of RACH partitioning related information via RACH report procedure, upon request from the network.

RLF report after successful fast MCG recovery

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

RLF Report for Fast MCG Recovery

It is optional for UE to support the delivery of the Fast MCG recovery related information in the RLF-Report.

RLF Report for Inter-system HO for Voice Fallback

It is optional for UE to support the delivery of an explicit indication in the RLF-report when mobility from NR due to voice fallback fails.

SCG Failure Report for CPAC

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

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.

SON enhancements for NR-U

It is optional for UE to support the delivery of NR-U related information (FR1 only) in RA-report/SHR/RLF/SPR/SCGFailureInformation report, upon request from the network.

SON Report in SNPN

It is optional for UE to support collection and delivery of SON reports in SNPN. UE is not required to support all SON reports if it supports collection and delivery of the SON reports in SNPN, it may support one or more SON report for SNPN.

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.

Uplink PDCP delay measurements upon MO update

It is optional for UE to support not resetting the UL PDCP Packet Average Delay measurement or UL PDCP excess packet delay measurement when the associated measurement object is modified. A UE supporting this feature shall also indicate the support of at least one of *ulPDCP-Delay-r16* and *excessPacketDelay-r17*.

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

L2 PC5-RRC trigger

It is optional for L2 sidelink relay UE or L2 sidelink remote UE to support the PC5-RRC trigger in L2 multi-path relay.

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].

L3 sidelink U2U relay UE operation

It is optional for UE to support L3 sidelink U2U relay UE operation as specified in TS 38.331 [9].

L3 sidelink U2U remote UE operation

It is optional for UE to support L3 sidelink U2U remote UE operation as specified in TS 38.331 [9].

MUSIM paging cause forward

It is optional for L2 sidelink relay UE or L2 sidelink remote UE to support forwarding MUSIM paging cause as defined 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].

An (e)RedCap UE supporting Broadcast reception also supports CFR and MCCH configuration for (e)RedCap UE.

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].

5.12 NCR features

Definitions for feature

Basic NCR support

It is optional for UE to support the NCR-MT feature as specified in TS 38.213 [11]. An NCR node for which the NCR-MT includes *ncr-NodeIndication* in *RRCSetupComplete* as specified in TS 38.331 [9] must support these feature components:

- Support of fixed beam for C-link/backhaul link
- Support of TDMed UL transmission of C-link and backhaul link
- Support of ON-OFF operation for NCR-Fwd based on access link beam indication
- Support of TDD UL/DL determination for backhaul/access link based on TDD UL/DL configuration of C-link
- Support of Tx/Rx timing determination for backhaul/access link based on Tx/Rx timing of C-link
- Support of beam correspondence of the DL/UL of the access link at NCR-Fwd
- Support periodic beam indication for access link
- Priority flag for periodic indication
- Support of simultaneous and TDMed DL reception of C-link and backhaul link

6 Conditionally mandatory features without UE radio access capability parameters

Features	Condition
Acquisition of positioning SI messages with 80 milliseconds offset position compared to SI messages in <i>schedulingInfoList</i>	It is mandatory to support acquisition of positioning SI messages with 80 milliseconds offset position compared to SI messages in <i>schedulingInfoList</i> for UEs which support the acquisition of the posSIB types in <i>posSchedulingInfoList</i> as specified in TS 38.331 [9].
Acquisition of SI messages with explicit SI window positions	It is mandatory to support acquisition of SI messages with explicit SI window positions for UEs which support the SIB types in <i>schedulingInfoList2</i> as specified in TS 38.331 [9].
AS layer memory size for QoE paused measurement reports	It is mandatory to support the minimum AS layer memory size of 64KB for QoE paused measurement reports for UEs which support qoe-Streaming-MeasReport-r17, qoe-MTSI-MeasReport-r17 or qoe-VR-MeasReport-r17.
AS layer memory size for QoE measurement reports in RRC_IDLE and RRC_INACTIVE	It is mandatory to support the minimum AS layer memory size of 64KB for QoE measurement reports stored in RRC_IDLE/RRC_INACTIVE for UEs which support qoe-IdleInactiveMeasReport-r18 and any of qoe-Streaming-MeasReport-r17 or qoe-MTSI-MeasReport-r17 or qoe-VR-MeasReport-r17. This memory size is additional to "AS layer memory size for QoE paused measurement reports"
ATG specific P-max	It is mandatory to support the ATG specific P-max configured by network for UEs supporting airToGroundNetwork-r18.
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 LX field	It is mandatory to support MAC subheaders with LX field for UEs supporting MAC SDU(s) using the LCID value(s) as specified in Table 6.2.1-2c in TS 38.321 [8].
MAC subheaders with one-octet eLCID field	It is mandatory to support MAC subheaders with one-octet eLCID field for UEs/IAB-MTs/NCR-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.
Receiving PSCCH/PSSCH from 2 nd starting symbol in a slot	It is mandatory for a UE supporting NR sidelink in shared spectrum and when shared spectrum channel access must be used to support receiving PSCCH/PSSCH transmitted from 2nd starting symbol in a slot in addition to the first starting symbol and monitor a total up to the number reported in pscch-RxSidelink-r16 of PSCCHs in a slot in the 1st and 2nd starting symbols. A UE supporting this feature shall indicate support of sl-Reception-r16.
Receiving UE to UE COT sharing information	It is mandatory for a UE supporting NR SL in shared spectrum where shared spectrum channel access must be used to support monitoring SCI to read COT sharing information and transmitting NR SL based on COT sharing information subject to COT sharing conditions. A UE supporting this feature shall indicate support of sl-DynamicChannelAccess-r18.
SON report in PNI-NPN	It is mandatory for a UE to support a SON report in PNI-NPN if UE supports PNI-NPN and supports the SON report in PLMN.
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.

Features	Condition
Acquisition of positioning SI messages with 80 milliseconds offset position compared to SI messages in <i>schedulingInfoList</i>	It is mandatory to support acquisition of positioning SI messages with 80 milliseconds offset position compared to SI messages in <i>schedulingInfoList</i> for UEs which support the acquisition of the posSIB types in <i>posSchedulingInfoList</i> as specified in TS 38.331 [9].
TA reporting during initial access	It is mandatory to support TA reporting during initial access for UEs supporting <i>uplink-TA-Reporting-r17</i> or <i>uplinkTA-ReportingATG-r18</i> as specified in TS 38.321 [8].
Inter-frequency configuration for less than 5MHz in SIB4	It is mandatory to support configuration of dl-CarrierFreq-r18 and frequencyBandList-r18 as specified in TS 38.331 [9] for UEs supporting support5MHz-ChannelBW-20PRB-CORESET0-r18, support3MHz-ChannelBW-Symmetric-r18 or support3MHz-ChannelBW-Asymmetric-r18.

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 (e)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
RLC entity(i NOTE 2: In case of C UE is reque (# minCellpo NOTE 3: This require	C entity, the maximum number of DRBs configured es) associated with this MAC entity is 8. GI reporting, the limit regarding the cells configure sted to report CGI i.e. the amount of neighbour celerMeasObjectRAT - 1), where RAT represents NR ment is applicable in NR SA, NR-DC and NE-DC. If parameter #DRBs defines the total number of mu	d includes the cell for which the ls that can be included is at most and EUTRA.

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 including	ng the serving cell(s) configured		
with configured grant.			
NOTE 2: For a given logical channel, the associated serving cells including the			
	PUCCH cell(s) associated with this logical channel (via		
schedulingRequestID).			
	3		
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-ToSCellRestriction capability, the		
associated serving cells includes all serving cells in the CG; for a UE		
that supports Ich-ToSCellRestriction capability, the associated		
serving cells includes the serving cells indicated by		

serving cells includes the serving cells 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 associated serving cells including the PUCCH cell(s) associated with this logical channel (via schedulingRequestID).		

A.4: Sidelink capabilities applicable to Uu and PC5

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

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

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

Sidelink Parameter	UECapabilityInformation	UECapabilityInformationSidelink
accessStratumReleaseSi	-	X
delink		
outOfOrderDeliverySideli		X
nk am-WithLongSN-Sidelink	X	X
um-WithLongSN-Sidelink	X	X
Icp-RestrictionSidelink	X	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- PartialSensing	X	
sl-TransmissionMode2-	X	
RandomResourceSelecti	^	
on		
sync-Sidelink	X	
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		V
rx-IUC-Scheme1- NonPreferredMode2Sidel	X	X
ink		
rx-IUC-Scheme2-	X	X
Mode2Sidelink	<u> </u>	
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		
rvoluy	<u>I</u>	1

supportedBandCombinati onListSL-RelayDiscovery	X	
supportedBandCombinati	X	
onListSL- NonRelayDiscovery		
rx-IUC-Scheme1-SCI-	X	Х
ExplicitReq scheme2-		X
ConflictDeterminationRS		
RP tx-IUC-Scheme2-	X	X
Mode2Sidelink		
tx-IUC-Scheme1- Mode2Sidelink	X	X
rx-sidelinkPSFCH	X	
p0-OLPC-Sidelink sl-LBT-	X	
FailureDectectionRecove	^	
ry	V	V
pdcp-DuplicationSRB- sidelink	X	X
pdcp-DuplicationDRB- sidelink	X	X
supportedBandCombinati	X	
onListSL-U2U-		
RelayDiscovery relayUE-U2U-	X	
OperationL2		
remoteUE-U2U- OperationL2	X	
remoteUE-U2N-	X	
PathSwitchOperationL2	V	
multipathRemoteUE- PC5L2	X	
multipathRelayUE-N3C	X	
multipathRemoteUE-N3C	X	
remoteUE- IndirectPathAddChangeT	X	
oldlelnactiveRelay		
pdcp-	X	
DuplicationMoreThanOn eUuRLC		
sl-	X	X
ReceptionIntraCarrierGu ardBand		
sl-PowerClassUnlicensed		X
pdcp- CADuplicationDirectpath-	X	
DRB		
pdcp-	X	
CADuplicationDirectpath- SRB		
pdcp-DuplicationMP-	X	
SplitDRB pdcp-DuplicationMP-	X	
SplitSRB		
directpathRLF- RecoveryViaSRB1	X	
sl- DynamicChannelAccess	X	
sl-	X	
DynamicMultiChannelAc cess		
sl-UE-COT-Sharing		X
sl-LBT-Option1	X	
sl-LBT-Option2	X	
sl-ResourceAllocMode1	X	

sl-Interlace-RB-TxRx	X	
sl-PSFCH-MultiOccasion	X	
sl-ContiguousRB-TxRx		
	X	V
sl-PSFCH-	^	X
MultiContiguousRB	V	V V
-PSFCH-	X	X
MultiNonContiguousRB		
sl-DynamicSharingTxRx	X	
sl-CA-Basic	X	X
sl-CA-Synchronization	X	
sl-MultiplePRB-	X	
CommonInterlacePSFCH		
sl-PathlossBasedOLPC-	X	X
SL-RSRP-Report		
sI-PRS-	X	
CommonProcCapabilityP		
erUE		
sl-PRS-	X	
CommonProcCapabilityP		
erBand		
sl-PRS-	Х	
RxInDedicatedResource		
Pool		
sl-PRS-CongestionCtrl	Х	
sl-PRS-	X	
TxUsingFullSensing		
sl-PRS-	Х	
RxForBandWithSL-CA		
sl-PRS-	Х	
TxForBandWithSL-CA	^	
sl-PRS-	X	
RxInSharedResourcePoo	X	
1		
sl-PRS-	X	
TxInSharedResourcePoo	 ^	
sl-PRS-	X	
TxInSharedResourcePoo	 ^	
sl-PRS-	X	
TxScheme1InDedicated	<u> </u>	
ResourcePool		
sl-PRS-	X	
TxScheme2InDedicated	^	
ResourcePool sl-PRS-	X	
	^	
TxRandomSelection	V	
splitDRB-WithUL-	X	
BothDirectIndirect		

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

UE-NR-Capability	Classification		
activeConfiguredGrant-r16	Triggered serving cell		
aperiodicTRS	Triggered serving cell		
beamSwitchTiming, beamSwitchTiming-r16	Triggered serving cell		
bwp-DiffNumerology (NOTE 1)	Triggering&Triggered serving cells		
bwp-SameNumerology (NOTE 1)	Triggering&Triggered serving cells		
crossCarrierScheduling-SameSCS	Triggering&Triggered serving cells		
crossCarrierSchedulingProcessing-DiffSCS-r16	Triggering&Triggered serving cells		
(NOTE 2)			
dynamicSFI-r16	Triggering&Triggered serving cells		
jointReleaseConfiguredGrantType2-r16	Triggered serving cell		
jointReleaseDCI-r18	Triggered serving cell		
jointReleaseSPS-r16	Triggered serving cell		
multiPUSCH-ActiveConfiguredGrant-r18	Triggered serving cell		
pdcch-MonitoringAnyOccasionsWithSpanGap (NOTE 3)	Triggering&Triggered serving cells		
sps-r16	Triggered serving cell		
ue-SpecificUL-DL-Assignment	Triggering&Triggered serving cells		
ul-CancellationCrossCarrier-r16	Triggering&Triggered serving cells		
NOTE 1: For bwp-DiffNumerology and bwp-Sam			
	ated number for this band regardless of		
whether it is a scheduling cell or sched	uled 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

5	Support for the feature			Setting of UE	capability fields		
		Common UE capability (with suffix '- XDD-Diff')	Common UE capability (with suffix '- FRX-diff')	fdd-Add-UE- NR/MRDC- Capabilities	tdd-Add-UE- NR/MRDC- Capabilities	fr1-Add-UE- NR/MRDC- Capabilities	fr2-Add-UE- NR/MRDC- Capabilities
Case 1	FR1 FDD: 'supported' FR1 TDD: 'supported' FR2 TDD: 'supported'	Included	Included	Not included	Not included	Not included	Not included
Case 2	FR1 FDD: 'not supported' FR1 TDD: 'not supported' FR2 TDD: 'not supported'	Not included	Not included	Not included	Not included	Not included	Not included
Case 3	FR1 FDD: 'not supported' FR1 TDD: 'supported' FR2 TDD: 'supported'	Not included	Included	Not included	Included	Not included	Not included
	FRZ 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' FR2 TDD: 'not supported'	Included	Not included	Not included	Not included	Included	Not included
	T NZ TDD. Hot 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
	RAN2#9 8	R2-1704810				First version	0.0.1
	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		R2-1714141					0.0.5
12/2017		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
	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 additional Active Spatial Relation PUCCH	15.6.0
	RP-84	RP-191378	0111	1	F	Clarification on csi-RS-CFRA-ForHO	15.6.0
	RP-84	RP-191379	0114	2	F	CR on capability of maxUplinkDutyCycle for FR2	15.6.0
	RP-84	RP-191380	0115	2	F	38.306 miscellaneous corrections	15.6.0
	RP-84	RP-191378	0116	1	В	38.306 CR for late drop	15.6.0
		RP-191381	0118	4	F	Clarification on supported modulation order capability	15.6.0
	RP-84			_			
	RP-84	RP-191374	0119	-	F	Correction to PDCP parameters	15.6.0
				_			

	RP-84	RP-191380	0124	3	F	Clarification on pdsch-ProcessingType2	15.6.0
	RP-84	RP-191378	0125	1	F	Clarification on present of tci-StatePDSCH	15.6.0
	RP-84	RP-191378	0126	1	F	Clarification on SA fallback BC support	15.6.0
	RP-84	RP-191375	0128	-	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	15.6.0
00/0040	DD 05	DD 100100	0400		_	numerology between PDCCH and CSI-RS"	45.7.0
09/2019		RP-192196	0136	1	С	Additional capability signalling for 1024QAM support	15.7.0
	RP-85	RP-192191	0142	1	В	Introduction of SFTD measurement to neighbour cells for NR SA	15.7.0
	RP-85	RP-192193	0146	1	F	MR-DC measurement gap pattern capability	15.7.0
	RP-85	RP-192194	0151	3	F	Clarifying UE capability freqHoppingPUCCH-F0-2 and freqHoppingPUCCH-F1-3-4	15.7.0
	RP-85	RP-192190	0152	-	F	Clarification to dynamic power sharing capability	15.7.0
	RP-85	RP-192192	0153	2	F	Miscellaneous corrections	15.7.0
	RP-85	RP-192190	0154	-	F	Capability of measurement gap patterns	15.7.0
	RP-85	RP-192193	0155	2	F	Correction to IMS capability	15.7.0
	RP-85	RP-192194	0156	3	F	UE Capabilities covering across all serving cells	15.7.0
	RP-85	RP-192190	0167	-	F	Clarification on UE capability on different numerologies within the same PUCCH group	15.7.0
	RP-85	RP-192193	0168	1	F	Correction on CA parameters in NR-DC	15.7.0
	RP-85	RP-192346	0169	-	С	Introduction of UE capability for NR-DC with SFN synchronization between PCell and PSCell	15.7.0
12/2019	RP-86	RP-192934	0185	1	F	Clarification on the restriction of maximum SRS resource sets configuration for uplink beam management.	15.8.0
	RP-86	RP-192936	0186	3	F	Miscellaneous corrections on UE capability fields	15.8.0
	RP-86	RP-192935	0191	1	F	Corrections on PDCCH blind decoding in NR-DC	15.8.0
	RP-86	RP-192937	0200	1	F	Clarification on ne-DC capability	15.8.0
	RP-86	RP-192935	0202	1	F	Correction to channelBWs	15.8.0
	RP-86	RP-192936	0204	1	F	Use of splitSRB-WithOneUL-Path capability (38.306)	15.8.0
	RP-86	RP-192935	0205	-	F	Correction to pdsch-RepetitionMultiSlots and pusch-RepetitionMultiSlots	15.8.0
	RP-86	RP-192937	0215	1	F	Correction on initial BWP bandwidth capabilities	15.8.0
	RP-86	RP-192937	0216	1	F	NE-DC dynamic power sharing capability	15.8.0
	RP-86	RP-192935	0219	-	F	Clarification on crossCarrierScheduling-OtherSCS in R15	15.8.0
	RP-86	RP-192937	0220	-	F	Correction on ambiguity of UE FDD/TDD FR1/FR2 capabilities	15.8.0
03/2020	RP-87	RP-200334	0194	2	F	Correction on parameter description of beamManagementSSB-CSI-RS	15.9.0
	RP-87	RP-200335	0208	3	F	CR on BWCS for inter-ENDC BC with intra-ENDC BC (38.306)	15.9.0
	RP-87	RP-200335	0209	5	F	CR to 38.306 on support of 70MHz channel bandwidth	15.9.0
	RP-87	RP-200334	0236	-	F	Correction on SRB capability in NR-DC	15.9.0
	RP-87	RP-200335	0248	2	F	Data rate for the case of single carrier standalone operation	15.9.0
	RP-87	RP-200334	0254	1	F	CR on the maximum stored number of deprioritisation frequencies	15.9.0
	RP-87	RP-200335	0255	2	F	Miscellaneous Corrections to UE capability parameters	15.9.0
	RP-87	RP-200335	0259	1	F	UE capability of intra-band requirements for inter-band EN-DC/NE-DC	15.9.0
03/2020	RP-87	RP-200356	0145	1	F	CR on capability of maxUplinkDutyCycle for inter-band EN-DC PC2 UE	16.0.0
	RP-87	RP-200335	0214	2	F	Correction on beamSwitchTiming values of 224 and 336	16.0.0
	RP-87	RP-200335	0223	1	С	Inclusion of 90MHz UE Bandwidth	16.0.0
	RP-87	RP-200358	0226	2	В	Introducing autonomous gap in CGI reporting	16.0.0
	RP-87	RP-200357	0229	-	В	UE capability for IDC	16.0.0
	RP-87	RP-200340	0230	-	В	Introduction of Cross Link Interference (CLI) handling and Remote Interference Management (RIM)	16.0.0
	RP-87	RP-200358	0233	1	С	Introduction of EPS voice fallback enhancement	16.0.0
	RP-87	RP-200350	0235	-	В	Introduction of SRVCC from 5G to 3G	16.0.0
	RP-87	RP-200358	0243	1	В	Introduction of DL RRC segmentation	16.0.0
	RP-87	RP-200358	0258	1	В	Introduction of downgraded configuration for SRS antenna switching	16.0.0
	RP-87	RP-200359	0260	-	В	Recommended Bit Rate/Query for FLUS and MTSI	16.0.0
	RP-87	RP-200358	0261	-	В	Introduction of UE capability indicator of supporting inter-RAT handover from NR to EN-DC in 38.306.	16.0.0
07/2020	RP-88	RP-201163	0288	2	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)	_
	RP-88	RP-201160	0295	1	Α	SRS Capability report for SRS only Scell	16.1.0
	RP-88	RP-201159	0299	-	Α	Clarification on L1 feature of NGEN-DC and NE-DC	16.1.0
	RP-88	RP-201161	0304	2	Α	Default values for UE capability	16.1.0
	RP-88	RP-201163	0312	1	Α	Invalidating bandwidth class F for FR1	16.1.0
	RP-88	RP-201163	0318	1	Α	Missing "Optional features without UE radio access capability	16.1.0

	RP-88	RP-201163	0320	1	Α	Missing UE capability requirements	16.1.0
	RP-88	RP-201103	0320	1	C	Introduction of secondary DRX group CR 38.306	16.1.0
	RP-88	RP-201196	0324	2	A	Correction on UE capability constraints	16.1.0
	RP-88	RP-201183	0324	2	В	UE capability of supporting UL Tx switching	16.1.0
	RP-88	RP-201217	0329	2	В	Release-16 UE capabilities based on RAN1, RAN4 feature lists and	16.1.0
	111 00	10.201211	0020	-		RAN2	10.1.0
	RP-88	RP-201163	0330	1	Α	Corrections on the number of DRBs	16.1.0
	RP-88	RP-201166	0333	1	F	On the capability of Basic CSI feedback (2-32)	16.1.0
	RP-88	RP-201162	0339	1	Α	Clarification on the support of IMS voice over split bearer for NR-DC	16.1.0
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	RP-88	RP-201162	0343	1	Α	Clarification on maximum number of supported PDSCH Resource	16.1.0
						Element mapping patterns	
	RP-88	RP-201164	0344	2	Α	Introduction of CGI reporting capabilities	16.1.0
	RP-88	RP-201165	0346	2	Α	UE Capability Enhancement for FR1(TDD/FDD) / FR2 CA and DC	16.1.0
	RP-88	RP-201161	0353	-	Α	CR on unnecessary XDD FRX differentiation	16.1.0
	RP-88	RP-201162	0355	-	Α	Clarification to maxUplinkDutyCycle-FR2	16.1.0
	RP-88	RP-201162	0357	-	Α	Clarification on L2 and RAN4 feature of NGEN-DC and NE-DC	16.1.0
	RP-88	RP-201163	0360	1	Α	Correction on UE capability signalling for simultaneous SRS antenna	16.1.0
	RP-88	RP-201163	0362	-	Α	and carrier switching Correction on UE capabilities with xDD and FRx differentiations	16.1.0
	RP-88	RP-201166	0363	+ -	C	Missing reportAddNeighMeas in periodic measurement reporting	16.1.0
09/2020		RP-201100	0370	2	В	Release-16 UE capabilities based on RAN1, RAN4 feature lists and	16.1.0
00/2020	111 03	101902	0070			RAN2 corrections	10.2.0
	RP-89	RP-201938	0378	1	Α	Corrections on UE capability constraints	16.2.0
	RP-89	RP-201932	0382	1	F	Correction on beamSwitchTiming values of 224 and 336	16.2.0
	RP-89	RP-201924	0383	2	F	Update to IAB-MT capabilities	16.2.0
	RP-89	RP-201937	0387	1	F	Clarification on PDSCH rate-matching capabilities	16.2.0
	RP-89	RP-201937	0389	2	Α	Corrections on the capabilities associated with multiple bands/Cells	16.2.0
	RP-89	RP-201989	0393	2	F	Correction on PRS measurement gap capability	16.2.0
	RP-89	RP-201938	0402	2	F	Clarification on the extended capability of NGEN-DC	16.2.0
	RP-89	RP-201962	0407	1	F	Miscellaneous corrections on UL Tx switching	16.2.0
	RP-89	RP-201922	0408	-	F	NR-DC UE capabilities	16.2.0
12/2020	RP-90	RP-202790	0419	2	Α	CR to clarify UE capability in case of Cross-Carrier operation	16.3.0
	RP-90	RP-202778	0422	1	В	Release-16 UE capabilities based on RAN1, RAN4 feature lists and	16.3.0
		DD 000000	2121	_		RAN2 corrections	1000
	RP-90	RP-202767	0424	3	F	Correction on description for extendedRAR-Window	16.3.0
	RP-90 RP-90	RP-202789 RP-202789	0439 0441	1	F A	Clarification on the inter-frequency handover capability Clarification on NE-DC for bandwidth combination set	16.3.0
	RP-90	RP-202769 RP-202790	0441	1	A	Removing contradiction on number of FSpUCC and FSpDCC	16.3.0 16.3.0
	RP-90	RP-202790	0455	-	F	Clarification on UE capabilities with FDD/TDD differentiation	16.3.0
	RP-90	RP-202771	0472	4	F	Introduction of capability bit for multi-CC simultaneous TCI activation	16.3.0
	101 -30	101 -202771	0472	"	'	with multi-TRP	10.5.0
	RP-90	RP-202770	0476	-	Α	Dummify UE capability of crossCarrierScheduling-OtherSCS	16.3.0
	RP-90	RP-202789	0479	1	Α	Clarification for multipleCORESET	16.3.0
	RP-90	RP-202882	0481	-	Α	CR to 38.306 on handling of fallbacks for FR2 CA	16.3.0
03/2021	RP-91	RP-210689	0482	-	F	Update on V2X UE capability	16.4.0
	RP-91	RP-210693	0483	1	F	CR for the supported max date rate for uplink Tx switching	16.4.0
	RP-91	RP-210697	0485	-	F	UE capability of NR to UTRA-FDD CELL_DCH CS handover	16.4.0
	RP-91	RP-210697	0489	2	Α	Correction on beamSwitchTiming capability	16.4.0
	RP-91	RP-210697	0490	1	F	Correction on beamSwitchTiming-r16 capability	16.4.0
	RP-91	RP-210697	0491	1	F	Correction on TPMI grouping capability	16.4.0
	RP-91	RP-210692	0501	-	F	Dummifying intraFreqMultiUL-TransmissionDAPS-r16 capability	16.4.0
	RP-91	RP-210694	0502	1	F	Corrections on UE capability for NR-U	16.4.0
	RP-91	RP-210703	0503	2	F	Release with Redirect for connection resume triggered by NAS	16.4.0
	RP-91	RP-210703	0505	2	Α	Clarification to LCP restrictions	16.4.0
	RP-91	RP-210691	0506	1	F	Introduction of the UE Capability for SpCell BFR Enhancement	16.4.0
	RP-91	RP-210697	0509	2	F	Clarification on UE capabilities with FDD/TDD differentiation	16.4.0
	RP-91	RP-210805	0512	3	В	Support of 35 MHz and 45 MHz channel bandwidth for FR1	16.4.0
	RP-91	RP-210697	0513	1	F	Clarification on UE capabilities for enhanced MIMO	16.4.0
	RP-91 RP-91	RP-210703 RP-210695	0516 0520	2	A F	CR on the SupportedBandwidth and channelBWs(R16) Correction to PUSCH skipping with UCI without LCH-based	16.4.0 16.4.0
	131 -91	111-210093	0320	-	'	prioritization	10.4.0
	RP-91	RP-210697	0521	1	F	CR on the Capability of PUCCH Transmissions for HARQ-ACK-38306	16.4.0
	RP-91	RP-210703	0523	2	F	Clarfication on FDD-TDD differentiation for SUL band	16.4.0
	RP-91	RP-210702	0525	1	Α	Clarification on single uplink operation capability report	16.4.0
	RP-91	RP-210697	0528	-	F	Addition of TEI16 features	16.4.0
	RP-91	RP-210702	0529	-	Α	CR to clarify the definition of fallback per CC feature set	16.4.0
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	RP-91	RP-210697	0530	-	F	Capability for dormant BWP switching of multiple SCells	16.4.0
			0530 0533	- - 2	F A	Capability for dormant BWP switching of multiple SCells Dummy the capability bit v2x-EUTRA Clarification on the capability of supportedNumberTAG	16.4.0 16.4.0

	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
	RP-92	RP-211483	0550	2	Α	Correction to BWP capabilities	16.5.0
	RP-92	RP-211482	0566	2	Α	CR on the supportedBandwidthCombinationSet-R16	16.5.0
	RP-92	RP-211477	0568	3	Α	CR on the 35M45M supporting-R16	16.5.0
	RP-92	RP-211484	0571	2	F	UL Config Grant capability differentiation for FR1(TDD/FDD) / FR2	16.5.0
	RP-92	RP-211474	0572	2	F	Corrections on the UE capability of indication on supporting the extension of SRS resourceID	16.5.0
	RP-92	RP-211478	0573	3	В	Release-16 UE capabilities based on RAN1 and RAN4 feature lists	16.5.0
	RP-92	RP-211480	0575	3	F	Corrections to directional collision handling in half-duplex operation	16.5.0
	RP-92	RP-211478	0578	1	F	Introduction of the intra-NR and inter-RAT HST Capabilities	16.5.0
	RP-92	RP-211483	0594	-	Α	Correction to the use of simultaneous CSI-RS resources	16.5.0
	RP-92	RP-211478	0596	1	Α	Clarification on BCS of a fallback band combination	16.5.0
	RP-92	RP-211478	0599	1	Α	Further clarification on supportedNumberTAG	16.5.0
	RP-92	RP-211478	0608	1	Α	Clarification on maximum number of TCI-state for PDSCH	16.5.0
	RP-92	RP-211475	0609	-	F	Capability bit for extending search space switching trigger configuration	16.5.0
	RP-92	RP-211471	0610	1	С	NR-DC Cell Group capability filtering	16.5.0
09/2021		RP-212439	0518	4	Α	CR on the Intra-band and Inter-band EN-DC Capabilities -R16	16.6.0
	RP-93	RP-212439	0562	3	А	Clarification on the simultaneousRxTxInterBandCA capability in NR-DC	16.6.0
	RP-93	RP-212438	0613	1	Α	Correction to the description of additional Active TCI-State PDCCH	16.6.0
	RP-93	RP-212439	0619	1	Α	Definition of fallback per CC feature set	16.6.0
	RP-93	RP-212443	0626	1	F	Miscellaneous corrections to UE capability descriptions	16.6.0
	RP-93	RP-212439	0631	1	Α	Support of newly introduced 100M bandwidth for band n40	16.6.0
	RP-93	RP-212438	0633	-	Α	Correction on fallback band combination for SUL	16.6.0
	RP-93	RP-212440	0641	-	F	FR1/FR2 differentiation for enhanced UL grant skipping capabilities	16.6.0
	RP-93	RP-212597	0643	2	С	Distinguishing support of extended band n77	16.6.0
12/2021		RP-213341	0640	2	Α	Simultaneous Rx/Tx UE capability per band pair	16.7.0
	RP-94	RP-213344	0645	2	F	Updates based on RAN1 NR positioning features list	16.7.0
	RP-94	RP-213342	0646	1	С	Duty cycle signalling for power class 1.5	16.7.0
	RP-94	RP-213343	0647	1	F	Correction on R16 UE capability of supportedSINR-meas-r16	16.7.0
	RP-94	RP-213341	0656	1	Α	Clarification on intraAndInterF-MeasAndReport capability	16.7.0
	RP-94	RP-213341	0658	-	Α	Miscellaneous corrections for Rel-15 UE capabilities	16.7.0
	RP-94	RP-213346	0659	-	F	Miscellaneous corrections for Rel-16 UE capabilities	16.7.0
	RP-94	RP-213345	0660	1	С	CR on 38.306 for introducing UE capability of txDiversity	16.7.0
	RP-94	RP-213346	0661	1	F	Clarification on UL MIMO layer reporting for 1Tx-2Tx switching	16.7.0
	RP-94	RP-213346	0664	-	F	Correction on two HARQ-ACK codebooks capability	16.7.0
03/2022		RP-220835	0635	3	F	Adding UE capability of UL MIMO coherence for UL Tx switching	16.8.0
00/2022	RP-95	RP-220473	0677	1	F	Correction on DAPS capability	16.8.0
	RP-95	RP-220473	0688	1	F	Introduction of sidelink power class capability indication	16.8.0
	RP-95	RP-220473	0695	1	F	Correction on ssb-csirs-SINR-measurement-r16 capability	16.8.0
03/2022	RP-95	RP-220499	0532	2	C	Remove the maximum number of MIMO layers restrictions for SUL	17.0.0
03/2022	RP-95	RP-220837	0650	2	В	Introduction of mobility-state-based cell reselection for NR HSDN [NR_HSDN]	17.0.0
	RP-95	RP-220921	0667	2	С	Pi/2-BPSK specification updates for the merger of 5Gi into 3GPP	17.0.0
	RP-95	RP-220472	0679	1	F	Correction on PO determination for UE in inactive state	17.0.0
	RP-95	RP-220838	0685	1	В	Release-17 UE capabilities based on R1 and R4 feature lists (TS38.306)	17.0.0
	RP-95	RP-220506	0686	1	D	Inclusive Language Review for TS 38.306	17.0.0
	RP-95	RP-220510	0698	1	В	Capability for Explicit Indication of SI Scheduling window position [SI-SCHEDULING]	17.0.0
06/2022		RP-221721	0690	2	В	CR on the CBM/IBM reporting-38306	17.1.0
	RP-96	RP-221756	0703	2	В	Release-17 UE capabilities based on R1 and R4 feature lists (TS38.306)	17.1.0
	RP-96	RP-221756	0710	1	Α	Clarification on simultaneous Rx/Tx capability per band pair	17.1.0
]	RP-96	RP-221736	0714	2	С	Distinguishing support of band n77 restrictions in Canada [n77	17.1.0
	RP-96	RP-221756	0715	1	F	Canada] Correction on the UE capability of extension of TDRA indication for	17.1.0
	RP-96	RP-221756	0716	1	Α	Configured UL Grant type 1 Correction on the UE capability description of the overlapping PDSCH	17.1.0
	RP-96	RP-221756	0710	1	C	Adding UE capability of CSI reporting cross PUCCH SCell group	17.1.0
L	171 -90	111 221/30	0/01	<u> </u>	, U	producting of our reporting cross Fuccin Soen group	17.1.0

	RP-96	RP-221756	0722	1	IΛ	Clarification on miscellaneous UE capabilities	17.1.0
	RP-96	RP-221756	0733 0741	1	A A	Clarification on miscellaneous DE capabilities Clarification on the applicability of mixed numerology on UE capability	17.1.0
	KP-90	KP-221750	0/41	'	Α	maxNumberCSI-RS-RRM-RS-SINR	17.1.0
	RP-96	RP-221756	0743	-	Α	Correction to multi-DCI multi-TRP and new UE capability to limit	17.1.0
	RP-96	RP-221756	0744		Α	PDCCH monitoring Clarification on configuredUL-GrantType1-v1650	17.1.0
	RP-96	RP-221756	0744	1	C	Introduction UE capability for CHO with SCG configuration	17.1.0
					_	[CHOwithDCkept]	
	RP-96	RP-221736	0747	1	В	Introduction of gNB ID length reporting in the NR CGI report [gNB_ID_Length]	17.1.0
	RP-96	RP-221756	0750	-	С	Introduction of uplink RRC Segmentation capability	17.1.0
	RP-96	RP-221756	0751	-	Α	bwp-SwitchingDelay conditionally mandatory capability	17.1.0
	RP-96	RP-221792	0756	2	Α	HARQ-ACK multiplexing on PUSCH in the absence of PUCCH	17.1.0
09/2022	RP-97	RP-222519	0761	1	Α	Clarification on power sharing UE capability	17.2.0
	RP-97	RP-222527	0764	1	В	Release-17 UE capabilities based on R1 and R4 feature lists (TS38.306)	17.2.0
	RP-97	RP-222526	0769	-	F	Corrections to the description of gNB ID length reporting capabilities [gNB_ID_Length]	17.2.0
	RP-97	RP-222526	0774	1	В	38306 CR for Early measurement for EPS fallback [IdleMeaEPSFB]	17.2.0
	RP-97	RP-222521	0781	1	Α	Correction for the capability of SRS-PeriodicityAndOffset	17.2.0
	RP-97	RP-222519	0786	1	Α	Correction on crossCarrierA-CSI-trigDiffSCS-r16 (38.306)	17.2.0
	RP-97	RP-222526	0788	1	F	Ensuring consistent support of capability bits and associated NS-	17.2.0
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	RP-97	RP-222520	0790	1	Α	Correction on PDCCH blind detection capability in CA	17.2.0
	RP-97	RP-222520	0792	1	Α	Clarification on pusch-RepetitionTypeA-r16 capability	17.2.0
	RP-97	RP-222518	0798	2	Α	Correction on sidelink capability	17.2.0
	RP-97	RP-222526	0802	-	В	Start drx-HARQ-RTT-TimerUL after last repetition [ulHARQ_RTT_Timer]	17.2.0
	RP-97	RP-222522	0803	-	F	Corrections on CRS-IM network assistance information	17.2.0
	RP-97	RP-222552	0805	1	В	38.306 CR for introduction of MBS PDSCH FDM capabilities	17.2.0
12/2022	RP-98	RP-223408	0699	2	Α	Corrections to SON/MDT capabilities	17.3.0
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History

	Document history								
V18.1.0	August 2024	Publication							
V18.2.0	August 2024	Publication							
V18.3.0	October 2024	Publication							
V18.4.0	January 2025	Publication							
V18.5.0	April 2025	Publication							
V18.6.0	July 2025	Publication							
V18.7.0	October 2025	Publication							