**3GPP TSG-RAN WG2 Meeting #131 *R2-250xxxx***

**Bangalore, India, 25 – 29 Augugst 2025**

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| *CR-Form-v12.3* | | | | | | | | |
| **DRAFT CHANGE REQUEST** | | | | | | | | |
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|  |  | **CR** |  | **rev** |  | **Current version:** |  |  |
|  | | | | | | | | |
| *For* [***HELP***](http://www.3gpp.org/3G_Specs/CRs.htm#_blank)*on using this form: comprehensive instructions can be found at* [*http://www.3gpp.org/Change-Requests*](http://www.3gpp.org/Change-Requests)*.* | | | | | | | | |
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| ***Proposed change affects:*** | UICC apps |  | ME | **X** | Radio Access Network | **X** | Core Network |  |

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| ***Title:*** | Draft 38.306 CR for Rel-19 XR UE capabilities | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Source to WG:*** | Xiaomi | | | | | | | | | |
| ***Source to TSG:*** | R2 | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Work item code:*** |  | | | | |  | ***Date:*** | | |  |
|  |  | | | |  | |  | | |  |
| ***Category:*** | **B** |  | | | | | ***Release:*** | | |  |
|  | *Use one of the following categories:* ***F*** *(correction)* ***A*** *(mirror corresponding to a change in an earlier release)* ***B*** *(addition of feature),* ***C*** *(functional modification of feature)* ***D*** *(editorial modification)*  Detailed explanations of the above categories can be found in 3GPP [TR 21.900](http://www.3gpp.org/ftp/Specs/html-info/21900.htm). | | | | | | | | *Use one of the following releases: Rel-8 (Release 8) Rel-9 (Release 9) Rel-10 (Release 10) Rel-11 (Release 11) … Rel-17 (Release 17) Rel-18 (Release 18) Rel-19 (Release 19)  Rel-20 (Release 20)* | |
|  |  | | | | | | | | | |
| ***Reason for change:*** | | Introduce UE capabilities for Rel-19 XR. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Summary of change:*** | | Following UE capabilities for Rel-19 XR are defined:   1. Dynamic logical channel priority based on remaining time of buffered data. 2. Enhanced delay status report of the buffered data. 3. Including non-delay-reporting data ahead of delay-reporting data for enhanced delay status report. 4. Remaining time based RLC retransmission. 5. Remaining time based RLC polling. 6. UL rate control MAC CE from the gNB to the UE. 7. Bit rate query (in UL Rate Control MAC CE) from the UE to the gNB. 8. Discarding RLC SDU based on RLC timer at receiving side. 9. Stopping RLC transmission and retransmission of discarded SDUs at the transmitting side. 10. Reporting the ratio of gap occasions. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Consequences if not approved:*** | | UE capabilities for Rel-19 XR are not introduced. | | | | | | | | |
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| ***Clauses affected:*** | | 4.2.5, 4.2.6.1, 4.2.9 | | | | | | | | |
|  | |  | | | | | | | | |
|  | | **Y** | **N** |  | | | |  | | |
| ***Other specs*** | | **X** |  | Other core specifications | | | | TS/TR 38.331 CR XXXX | | |
| ***affected:*** | |  | **X** | Test specifications | | | | TS/TR ... CR ... | | |
| ***(show related CRs)*** | |  | **X** | O&M Specifications | | | | TS/TR ... CR ... | | |
|  | |  | | | | | | | | |
| ***Other comments:*** | |  | | | | | | | | |
|  | |  | | | | | | | | |
| ***This CR's revision history:*** | | R2-2503436: 1st version in RAN2#130. | | | | | | | | |

*First change*

### 4.2.5 RLC parameters

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| Definitions for parameters | Per | M | FDD-TDD DIFF |
| ***am-WithShortSN***  Indicates whether the UE supports AM DRB with 12 bit length of RLC sequence number. | UE | Yes | No |
| ***extendedT-PollRetransmit-r16***  Indicates whether the UE supports the additional values of *T-PollRetransmit timer*. The supported additional values are 1ms, 2ms, 3ms and 4ms, as specified in TS 38.331 [9]. | UE | No | No |
| ***extendedT-StatusProhibit-r16***  Indicates whether the UE supports the additional values of *T-StatusProhibit timer*. The supported additional values are 1ms, 2ms, 3ms and 4ms, as specified in TS 38.331 [9]. | UE | No | No |
| ***remainingTimeBasedRetransmission-r19***  Indicates whether the UE supports remaining time based RLC retransmission, as specified in TS 38.322 [36] and TS 38.323 [16]. | UE | No | No |
| ***remainingTimeBasedPolling-r19***  Indicates whether the UE supports remaining time based RLC polling, as specified in TS 38.322 [36] and TS 38.323 [16]. | UE | No | No |
| ***rxRLC-Discard-r19***  Indicates whether the UE supports discarding RLC SDU based on timer *t-RxDiscard* at the receiving side of an AM RLC entity, as specified in TS 38.322 [36]. | UE | No | No |
| ***txStopDiscardedSDU-r19***  Indicates whether the UE supports stopping RLC transmission and retransmission of discarded SDUs at the transmitting side of an AM RLC entity, as specified in TS 38.322 [36].  [Editor’s note] FFS a UE supporting this feature shall also indicate support of *rxRLC-Discard-r19*. | UE | No | No |
| ***um-WithLongSN***  Indicates whether the UE supports UM DRB with 12 bit length of RLC sequence number. | UE | Yes | No |
| ***um-WithShortSN***  Indicates whether the UE supports UM DRB with 6 bit length of RLC sequence number. | UE | Yes | No |

Next Change

#### 4.2.6.1 *MAC-Parameters*

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| 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 |
| ***autonomousTransmission-r16***  Indicates whether the UE supports autonomous transmission of the MAC PDU generated for a deprioritized configured uplink grant as specified in TS 38.321 [8]. A UE supporting this feature shall also support *lch-priorityBasedPrioritization-r16*. | UE | No | No | No |
| ***cg-RetransmissionMonitoringDisabling-r18***  Indicates whether the UE supports disabling of waking-up to monitor possible grants for UL retransmissions of 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) |
| ***directSCellActivationWithTCI-r17***  Indicates whether the UE supports direct NR SCell activation with activated TCI 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 |
| ***delayStatusReportNonDelayReportingData-r19***  Indicates whether the UE supports including non-delay-reporting data ahead of delay-reporting data in the buffer size calculation for enhanced delay status report, as specified in TS 38.321 [8], TS 38.331 [9], TS 38.323 [16] and TS 38.322 [36]. A UE supporting this feature shall also indicate support of *enhancedDelayStatusReport-r19*. | 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 EN-DC or support of NGEN-DC as specified in TS 36.331 [17] or support of NR-DC as specified in TS 38.331 [9]. | UE | No | No | Yes (Incl FR2-2 DIFF) |
| ***directSCG-SCellActivationResume-r16, directSCG-SCellActivationResume-r17***  Indicates whether the UE supports direct NR SCG SCell activation, as specified in TS 38.321 [8]:  - upon reception of an *RRCReconfiguration* included in an *RRCConnectionResume* message, as specified in TS 38.331 [9] and TS 36.331 [17], if the UE indicates support of EN-DC or NGEN-DC, and support of *resumeWithSCG-Config-r16* as specified in TS 36.331 [17],  - upon reception of an *RRCReconfiguration* included in an *RRCResume* message, as specified in TS 38.331 [9], if the UE indicates support of NR-DC and of *resumeWithSCG-Config-r16* as specified in TS 38.331 [9].  A UE indicating support of *directSCG-SCellActivationResume-r16* shall indicate support of EN-DC or NGEN-DC and support of *resumeWithSCG-Config-r16* as specified in TS 36.331 [17] or indicate support of NR-DC and of *resumeWithSCG-Config-r16* as specified in TS 38.331 [9]. | UE | No | No | Yes (Incl FR2-2 DIFF) |
| ***drx-Adaptation-r16, drx-Adaptation-r17***  Indicates whether the UE supports DRX adaptation comprised of the following functional components:  - Configured *ps-Offset* for the detection of DCI format 2\_6 with CRC scrambling by *ps*-RNTI and reported *MinTimeGap* or *MinTimeGapFR2-2* before the start of *drx-onDurationTimer* of Long DRX  - 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 *drx-onDurationTimer* of Long DRX for each SCS. The value *sl1* indicates 1 slot. The value *sl2* indicates 2 slots, and so on. Support of this feature is reported for licensed and unlicensed bands, respectively. When *drx-Adaptation-r16* is reported, either of *sharedSpectrumChAccess-r16* or *non-SharedSpectrumChAccess-r16* shall be reported, at least. When *drx-Adaptation-r17* is reported, either of *sharedSpectrumChAccess-r17* or *non-SharedSpectrumChAccess-r17* shall be reported, at least. | UE | No | No | Yes  (Incl FR2-2 DIFF) |
| ***enhancedDelayStatusReport-r19***  Indicates whether the UE supports the delay status report of the buffered data using multiple reporting thresholds, as specified in TS 38.321 [8], TS 38.331 [9], TS 38.323 [16] and TS 38.322 [36].  [Editor’s note] FFS a UE supporting this feature shall also indicate support of *delayStatusReport-r18*. | UE | No | No | No |
| ***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-FeedbackForSPS-Multicast-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 *jointPrioritizationCG-Retx-Timer-r17*. | UE | No | No | No |
| ***jointPrioritizationCG-Retx-Timer-r17***  Indicates whether the UE supports simultaneous configuration of LCH based prioritization and *cg-RetransmissionTimer-r16* as specified in TS 38.321 [8]. A UE supporting this feature shall also support *lch-priorityBasedPrioritization-r16* and *configuredGrantWithReTx-r16*. | UE | No | No | No |
| ***lastTransmissionUL-r17***  Indicates whether the UE supports starting the *drx-HARQ-RTT-TimerUL* after the end of the last transmission within a bundle as specified in TS 38.321 [8]. | UE | No | No | No |
| ***lch-PriorityBasedPrioritization-r16***  Indicates whether the UE supports prioritization between overlapping grants and between scheduling request and overlapping grants based on LCH priority as specified in TS 38.321 [8]. | UE | No | No | No |
| ***lch-ToConfiguredGrantMapping-r16***  Indicates whether the UE supports restricting data transmission from a given LCH to a configured (sub-) set of configured grant configurations (see *allowedCG-List-r16* in *LogicalChannelConfig* in TS 38.331 [9]) as specified in TS 38.321 [8]. | UE | No | No | No |
| ***lch-ToGrantPriorityRestriction-r16***  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]. | UE | No | No | No |
| ***lch-ToSCellRestriction***  Indicates whether the UE supports restricting data transmission from a given LCH to a configured (sub-) set of serving cells (see *allowedServingCells* in *LogicalChannelConfig*). A UE supporting *pdcp-DuplicationMCG-OrSCG-DRB* or *pdcp-DuplicationSRB* (see *PDCP-Config*) shall also support *lch-ToSCellRestriction*. | UE | No | No | No |
| ***lcp-PriorityAdjustment-r19***  Indicates whether the UE supports logical channel priority adjustment based on remaining time of buffered data, as specified in TS 38.321 [8]. | UE | No | No | No |
| ***lcp-Restriction***  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]. | UE | No | No | No |
| ***logicalChannelSR-DelayTimer***  Indicates whether the UE supports the *logicalChannelSR-DelayTimer* as specified in TS 38.321 [8]. | UE | No | Yes | No |
| ***longDRX-Cycle***  Indicates whether UE supports long DRX cycle as specified in TS 38.321 [8]. | UE | Yes | Yes | No |
| ***mg-ActivationCommPRS-Meas-r17***  Indicates whether UE supports preconfiguration of MGs in RRC signalling for PRS measurements and the use of DL MAC CE from the gNB, as specified in TS 38.321 [8], to activate/deactivate the preconfigured MG for PRS measurements. | UE | No | No | No |
| ***mg-ActivationRequestPRS-Meas-r17***  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 *mg-ActivationCommPRS-Meas-r17*. | UE | No | No | No |
| ***mTRP-PUSCH-PHR-Type1-Reporting-r17***  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. | UE | CY | No | No |
| ***multipleConfiguredGrants***  Indicates whether UE supports more than one configured grant configurations (including both Type 1 and Type 2) in a cell group. For each cell, the UE supports at most one configured grant per BWP and the maximum number of configured grant configurations per cell group is 2. If absent, for each configured cell group, the UE only supports one configured grant configuration on one serving cell. | UE | No | Yes | No |
| ***multipleSR-Configurations***  Indicates whether the UE supports 8 SR configurations per PUCCH cell group as specified in TS 38.321 [8]. | UE | No | Yes | No |
| ***non-IntegerDRX-r18***  Indicates whether the UE supports non-integer DRX periodicity as specified in TS 38.331 [9] and TS 38.321 [8]. | UE | No | No | No |
| ***recommendedBitRate***  Indicates whether the UE supports the bit rate recommendation message from the gNB to the UE as specified in TS 38.321 [8]. | UE | No | No | No |
| ***recommendedBitRateMultiplier-r16***  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*. | UE | No | No | No |
| ***recommendedBitRateQuery***  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*. | UE | No | No | No |
| ***secondaryDRX-Group-r16***  Indicates whether UE supports secondary DRX group as specified in TS 38.321 [8]. | UE | No | Yes | No |
| ***shortDRX-Cycle***  Indicates whether UE supports short DRX cycle as specified in TS 38.321 [8]. | UE | Yes | Yes | No |
| ***simultaneousSR-PUSCH-DiffPUCCH-groups-r17***  Indicates whether the UE supports simultaneous transmission of SR and PUSCH in different PUCCH groups as specified in TS 38.321 [8]. | UE | No | No | No |
| ***singlePHR-P-r16***  Indicates whether UE supports the P bit in single PHR MAC CE as specified in TS 38.321 [8]. | UE | No | No | No |
| ***skipUplinkTxDynamic***  Indicates whether the UE supports skipping of UL transmission for an uplink grant indicated on PDCCH if no data is available for transmission as specified in TS 38.321 [8]. | UE | No | Yes | No |
| ***spCell-BFR-CBRA-r16***  Indicates whether the UE supports sending BFR MAC CE for SpCell BFR as specified in TS 38.321 [8]. | UE | No | No | No |
| ***srs-ResourceId-Ext-r16***  Indicates whether the UE supports the extended 6-bit (Positioning) SRS resource ID in SP Positioning SRS Activation/Deactivation MAC CE, as specified in TS 38.321 [8]. | UE | No | No | No |
| ***sr-TriggeredBy-TA-Report-r17***  Indicates whether the UE supports triggering of SR when a TA report is triggered and there are no available UL-SCH resources. A UE supporting this feature shall also indicate the support of *nonTerrestrialNetwork-r17*. | UE | No | No | No |
| ***sr-TriggeredByTA-ReportATG-r18***  Indicates whether the UE supports triggering of SR when a TA report is triggered and there are no available UL-SCH resources. A UE supporting this feature shall also indicate the support of *uplinkTA-ReportingATG-r18*. | UE | No | No | FR1 only |
| ***survivalTime-r17***  Indicates whether the UE supports services with survival time requirement using configured grant resource and PDCP duplication, as specified in TS 38.321 [8]. A UE supporting this feature shall support *pdcp-DuplicationMCG-orSCG-DRB* or *pdcp-DuplicationSplitDRB*. A UE supporting this feature shall also support of at least one of *configuredUL-GrantType1*, *configuredUL-GrantType2*, *configuredUL-GrantType1-v1650* or *configuredUL-GrantType2-v1650*. | UE | No | No | No |
| ***tdd-MPE-P-MPR-Reporting-r16***  Indicates whether the UE supports P-MPR reporting for Maximum Permissible Exposure, as specified in TS 38.321 [8]. | UE | No | TDD only | FR2 only |
| *ul-LBT-FailureDetectionRecovery-r16*  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. | UE | No | No | No |
| *ul-RateControl-r19*  Indicates whether the UE supports UL Rate Control MAC CE from the gNB to the UE, as specified in TS 38.321 [8]. | UE | No | No | No |
| *ul-RateQuery-r19*  Indicates whether the UE supports transmission of bit rate query in UL Rate Control MAC CE to the gNB, as specified in TS 38.321 [8]. A UE supporting this feature shall also indicate the support of *ul-RateControl-r19*. | UE | No | No | No |
| ***uplink-Harq-ModeB-r17***  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*. | UE | No | No | No |

Next Change

### 4.2.9 *MeasAndMobParameters*

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| Definitions for parameters | Per | M | 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  *-* *concurrentPerUE-PerFRCombMeasGap-r17* indicates whether the UE supports all concurrent gap combination configurations as specified in TS 38.133 [5] including support of more than 1 per-UE measurement gap configurations. For UE capable of Rel-15 per-FR gap (*independentGapConfig*), this field indicates whether the UE supports more than 1 per-FR gap measurement gap configurations in an FR, or simultaneous 1 per UE measurement gap plus 1 per-FR measurement gap configurations in an FR, or more than 1 per-UE measurement gap configurations (i.e. gap combination configuration id = 2 as specified in TS 38.133 [5]). | 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***  Indicates whether the UE supports conditional handover between FDD and TDD cells. The parameter can only be set if *condHandover-r16* is set for both FDD and TDD. The UE that indicates support of this feature shall also indicate support of *handoverFDD-TDD*. | UE | No | No | No |
| ***condHandoverFR1-FR2-r16***  Indicates whether the UE supports conditional handover HO between FR1 and FR2. The parameter can only be set if *condHandover-r16* is set for both FR1 and FR2. The UE that indicates support of this feature shall also indicate support of *handoverFR1-FR2*. | UE | No | No | No |
| ***condHandoverWithSCG-NRDC-r17***  Indicates whether the UE supports conditional handover with NR SCG configuration for NR-DC. The UE indicating support of this feature shall also indicate the support of *condHandover-r16* and support of at least one NR-DC band combination. | UE | No | No | No |
| ***csi-RS-RLM***  Indicates whether the UE can perform radio link monitoring procedure based on measurement of CSI-RS as specified in TS 38.213 [11] and TS 38.133 [5]. If the UE supports this feature, the UE needs to report *maxNumberResource-CSI-RS-RLM*. This applies only to non-shared spectrum channel access. For shared spectrum channel access, *csi-RS-RLM-r16* applies. | UE | Yes | No | Yes |
| ***csi-RSRP-AndRSRQ-MeasWithSSB***  Indicates whether the UE can perform CSI-RSRP and CSI-RSRQ measurement as specified in TS 38.215 [13], where CSI-RS resource is configured with an associated SS/PBCH. If this parameter is indicated for FR1 and FR2 differently, each indication corresponds to the frequency range of measured target cell. If the UE supports this feature, the UE needs to report *maxNumberCSI-RS-RRM-RS-SINR*. This applies only to non-shared spectrum channel access. For shared spectrum channel access, *csi-RS-RLM-r16* applies. | UE | No | No | Yes |
| ***csi-RSRP-AndRSRQ-MeasWithoutSSB***  Indicates whether the UE can perform CSI-RSRP and CSI-RSRQ measurement as specified in TS 38.215 [13], where CSI-RS resource is configured for a cell that transmits SS/PBCH block and without an associated SS/PBCH block. If this parameter is indicated for FR1 and FR2 differently, each indication corresponds to the frequency range of measured target cell. If the UE supports this feature, the UE needs to report *maxNumberCSI-RS-RRM-RS-SINR*. This applies only to non-shared spectrum channel access. For shared spectrum channel access, *csi-RSRP-AndRSRQ-MeasWithoutSSB-r16* applies. | UE | No | No | Yes |
| ***csi-SINR-Meas***  Indicates whether the UE can perform CSI-SINR measurements based on configured CSI-RS resources as specified in TS 38.215 [13]. If this parameter is indicated for FR1 and FR2 differently, each indication corresponding to the frequency range of measured target cell. If the UE supports this feature, the UE needs to report *maxNumberCSI-RS-RRM-RS-SINR*. This applies only to non-shared spectrum channel access. For shared spectrum channel access, *csi-SINR-Meas-r16* applies. | UE | No | No | Yes |
| ***deriveSSB-IndexFromCellInterNon-NCSG-r17***  Indicates whether the UE supports configuration of *deriveSSB-IndexFromCellInter-r17* in *MeasObjectNR*. This field applies to NR SA, MN configured measurements when NR-DC or NE-DC is configured, and SN configured measurements when NR-DC or (NG)EN-DC is configured. UE supporting this feature is required to meet the measurement requirements in TS 38.133 [5]. This field applies only to non-NCSG capable UEs (i.e. UEs not supporting *ncsg-MeasGapNR-Patterns-r17*). | UE | No | No | No |
| ***dynamicCollision-r18***  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*. | UE | No | No | No |
| ***enterAndLeaveCellReport-r18***  Indicates whether the UE supports the report of cell(s) that meet the event leaving 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. | UE | No | No | No |
| ***eutra-AutonomousGaps-r16***  Defines whether the UE supports, upon configuration of *useAutonomousGaps* by the network, acquisition of relevant information from a neighbouring E-UTRA cell by reading the SI of the neighbouring cell using autonomous gap and reporting the acquired information to the network as specified in TS 38.331 [9] when MR-DC is not configured. | UE | No | No | No |
| ***eutra-AutonomousGaps-NEDC-r16***  Defines whether the UE supports, upon configuration of *useAutonomousGaps* by the network, acquisition of relevant information from a neighbouring E-UTRA cell by reading the SI of the neighbouring cell using autonomous gap and reporting the acquired information to the network as specified in TS 38.331 [9] when NE-DC is configured. | UE | No | No | No |
| ***eutra-AutonomousGaps-NRDC-r16***  Defines whether the UE supports, upon configuration of *useAutonomousGaps* by the network, acquisition of relevant information from a neighbouring E-UTRA cell by reading the SI of the neighbouring cell using autonomous gap and reporting the acquired information to the network as specified in TS 38.331 [9] when NR-DC is configured. | UE | No | No | No |
| ***eutra-CGI-Reporting***  Defines whether the UE supports acquisition of relevant CGI-information from a neighbouring E-UTRA cell by reading the SI of the neighbouring cell and reporting the acquired information to the network as specified in TS 38.331 [9] when the (NG)EN-DC and NE-DC are not configured or, when consistent DRX is configured in NR-DC. The consistent DRX configuration implies that MN and SN have the same DRX cycle and on-duration configured by MN completely contains on-duration 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 theNE-DCis 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 theNR-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].  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. | UE | No | No | No |
| ***eutra-NeedForGapNCSG-Reporting-r17***  Indicates whether the UE supports reporting of the NCSG and measurement gap requirement information for E-UTRA target bands in the UE response to a network configuration RRC message as specified in TS 38.331 [9]. | UE | No | No | No |
| ***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 measurement when NR-DC is configured, and MN configured measurement when NE-DC is configured, this feature is mandatory supported. | UE | Yes | Yes | No |
| ***eventB-MeasAndReport***  Indicates whether the UE supports EUTRA measurement and event B triggered reporting as specified in TS 38.331 [9]. It is mandated if the UE supports EUTRA. | UE | CY | No | No |
| ***eventD1-MeasReportTrigger-r17***  Indicates whether the UE supports location-based triggered measurement reporting (i.e., event D1) as specified in TS 38.331 [9]. It is mandated if the UE supports *locationBasedCondHandover-r17* in any NTN band. 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 |
| ***gapOccasionRatioReporting-r19***  Indicates whether the UE supports reporting recommended ratio of measurement gap occasions for cancelation, as specified in TS 38.331 [9]. A UE supporting this feature shall also indicate the support of [enabling TX/RX during measurement gap scheduling restrictions by DCI]. | UE | No | 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 | CY | 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***  Indicates whether the UE supports HO between FR1 and FR2. Support is mandatory for the UE supporting both FR1 and FR2. This field only applies to NR SA/NR-DC/NE-DC (e.g. PCell handover). For PSCell change when (NG)EN-DC/NR-DC is configured, this feature is mandatory supported. UEs supporting this shall indicate support of *handoverInterF* for both FR1 and FR2. | UE | Yes | No | No |
| ***handoverFR1-FR2-2-r17***  Indicates whether the UE supports HO between FR1 and FR2-2. This field only applies to NR SA/NR-DC/NE-DC (e.g. PCell handover) and PSCell change when (NG)EN-DC/NR-DC is configured. UEs supporting this shall indicate support of *handoverInterF* for both FR1 and FR2-2. | UE | No | No | No |
| ***handoverFR2-1-FR2-2-r17***  Indicates whether the UE supports HO between FR2-1 and FR2-2. This field only applies to NR SA/NR-DC/NE-DC (e.g. PCell handover) and PSCell change when (NG)EN-DC/NR-DC is configured. UEs supporting this shall indicate support of *handoverInterF* for both FR2-1 and FR2-2. | UE | No | No | No |
| ***handoverInterF, handoverInterF-r17***  Indicates whether the UE supports inter-frequency HO. It indicates the support for inter-frequency HO from the corresponding duplex mode and from frequency range indicated to be supported as described in Annex B. This field only applies to NR SA/NR-DC/NE-DC (e.g. PCell handover). For PSCell change when (NG)EN-DC/NR-DC is configured, this feature is mandatory supported. | UE | Yes | Yes | Yes  (Incl FR2-2 DIFF) |
| ***handoverLTE-EPC, handoverLTE-EPC-r17***  Indicates whether the UE supports HO to EUTRA connected to EPC. It is mandated if the UE supports EUTRA connected to EPC. | UE | CY | Yes | Yes  (Incl FR2-2 DIFF) |
| ***idleInactiveNR-MeasReport-r16, idleInactiveNR-MeasReport-r17***  Indicates whether the UE supports configuration of NR SSB measurements in RRC\_IDLE/RRC\_INACTIVE and reporting of the corresponding results upon network request as specified in TS 38.331 [9]. If this parameter is indicated for FR1 and FR2 differently, each indication corresponds to the frequency range of measured target cell. | UE | No | No | Yes  (Incl FR2-2 DIFF) |
| ***idleInactiveNR-MeasBeamReport-r16***  Indicates whether the UE supports beam level measurements in RRC\_IDLE/RRC\_INACTIVE and reporting of the corresponding beam measurement results upon network request as specified in TS 38.331 [9]. A UE supports this feature shall also support *idleInactiveNR-MeasReport-r16*. If this parameter is indicated for FR1 and FR2 differently, each indication corresponds to the frequency range of measured target cell. | UE | No | No | Yes |
| ***idleInactiveEUTRA-MeasReport-r16***  Indicates whether the UE supports configuration of E-UTRA measurements in RRC\_IDLE/RRC\_INACTIVE and reporting of the corresponding results upon network request as specified in TS 38.331 [9]. | UE | No | No | No |
| ***idleInactive-ValidityArea-r16***  Indicates whether the UE supports configuration of a validity area for NR measurements in RRC\_IDLE/RRC\_INACTIVE as specified in TS 38.331 [9]. | UE | No | No | No |
| ***increasedNumberofCSIRSPerMO-r16***  Indicates support of up to 192 CSI-RS resource for L3 mobility configuration per measurement object configured with *associatedSSB*. If this parameter is indicated for FR1 and FR2 differently, each indication corresponds to the frequency range of the cells to be measured within *MeasObjectNR*. | UE | No | No | Yes |
| ***independentGapConfig***  This field indicates whether the UE supports two independent measurement gap configurations for FR1 and FR2 specified in clause 9.1.2 of TS 38.133 [5]. The field also indicates whether the UE supports the FR2 inter-RAT measurement without gaps when (NG)EN-DC is not configured. | UE | No | No | No |
| ***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.  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 *fr1-Only-r17* or *fr2-Only-r17* field indicates that per-FR gap is not supported when only FR1 or FR2 serving cells are configured. Absence of the *fr1-AndFR2* field indicates that per-FR-gap is not supported when both FR1 and FR2 serving cells are configured. Value "1" for *fr1-Only-r17* or *fr2-Only-r17* indicates support of the per-FR gap when only PCell is configured (no additional CC). Value "2" for *fr1-Only-r17* or *fr2-Only-r17* indicates support of the per-FR gap when PCell and 1 additional CC are configured, and so on. Value "1" or "2" for *fr1-AndFR2-r17* indicates the support of per-FR gap when PCell and "1" additional CC are configured.  UE indicating support of this feature in *UE-NR-Capability* shall not indicate support of *independentGapConfig* in *UE-NR-Capability*. | UE | No | No | No |
| ***independentGapConfigPRS-r17***  Indicates whether the UE supports two independent measurement gap configurations for FR1 and FR2 for PRS measurement, as specified in clause 9.1.2 of TS 38.133 [5]. | UE | No | No | No |
| ***intraAndInterF-MeasAndReport***  Indicates whether the UE supports NR intra-frequency and inter-frequency measurements and at least periodical reporting. This field only applies to SN configured measurement when (NG)EN-DC is configured. For NR SA, MN and SN configured measurement when NR-DC is configured, and MN configured measurement when NE-DC is configured, this feature is mandatory supported. | UE | Yes | Yes | No |
| ***interFrequencyMeas-NoGap-r16***  Indicates whether the UE can perform inter-frequency SSB based measurements without measurement gaps if the SSB is completely contained in the active BWP of the UE as specified in TS 38.133 [5]. If this parameter is indicated for FR1 and FR2 differently, each indication corresponds to the frequency range of cells to be measured. | UE | No | No | Yes |
| ***interSatMeas-r17***  Indicates whether the UE supports inter-satellite measurement as specified in TS 38.331 [9]. It is mandatory if the UE supports *nonTerrestrialNetwork-r17*. | UE | CY | No | No |
| ***l3-MeasUnknownSCellActivation-r18***  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. | UE | No | No | No |
| ***ltm-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 |
| ***ltm-InterFreq-r18***  Indicates UE supports inter-frequency MCG LTM on all the bands where the UE indicates support of *ltm-MCG-IntraFreq-r18* or inter-frequency SCG LTM on all the bands where the UE indicates support of *ltm-SCG-IntraFreq-r18* respectively.  A UE supporting this feature shall also indicate support of *ltm-MCG-IntraFreq-r18* or *ltm-SCG-IntraFreq-r18.* | UE | No | No | No |
| ***ltm-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 |
| ***ltm-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 |
| ***ltm-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 *ltm-MCG-IntraFreq-r18.* | UE | No | No | No |
| ***ltm-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 *ltm-MCG-IntraFreq-r18.* | UE | No | No | No |
| ***ltm-RACH-LessCG-r18***  Indicates whether the UE supports RACH-less LTM with configured grant for MCG LTM if the UE indicates support of *ltm-MCG-IntraFreq-r18* or for SCG LTM if the UE indicates support of *ltm-SCG-IntraFreq-r18* respectively.  UE indicating support for this feature shall also indicate support of either *ltm-BeamIndicationJointTCI-r18* or *ltm-BeamIndicationSeparateTCI-r18* for at least one band and either *ta-IndicationCellSwitch-r18* or *ue-TA-Measurement-r18*. | UE | No | No | No |
| ***ltm-RACH-LessDG-r18***  Indicates whether the UE supports RACH-Less LTM with dynamic grant, for MCG LTM if the UE indicates support of *ltm-MCG-IntraFreq-r18* or for SCG LTM if the UE indicates support of *ltm-SCG-IntraFreq-r18* respectively.  UE indicating support for this feature shall also indicate support of either *ltm-BeamIndicationJointTCI-r18* or *ltm-BeamIndicationSeparateTCI-r18* for at least one band and TA indication in *ta-IndicationCellSwitch-r18* or *ue-TA-Measurement-r18*. | UE | No | No | No |
| ***ltm-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 *ltm-MCG-IntraFreq-r18* for at least one band. | UE | No | No | No |
| ***ltm-ReferenceConfig-r18***  Indicates whether UE supports a reference configuration for LTM.  UE indicating support for this feature shall also indicate support of either *ltm-MCG-IntraFreq-r18* or *ltm-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 *cli-RSSI-Meas-r16*, 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***  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. | UE | CY | No | No |
| ***maxNumberPerSlotCLI-SRS-RSRP-r16***  Defines the maximum number of SRS-RSRP measurement resources per slot for SRS-RSRP measurement. If the UE supports *cli-SRS-RSRP-Meas-r16*, the UE shall report this capability. | UE | CY | TDD only | No |
| ***maxNumberResource-CSI-RS-RLM***  Defines the maximum number of CSI-RS resources within a slot per spCell for CSI-RS based RLM. 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. | UE | CY | No | Yes |
| ***measSequenceConfig-r18***  Indicates whether the UE supports configuration of *measSequence-r18* in *MeasObjectNR* and *MeasObjectEUTRA* for recommended sequence for intra/inter-RAT intra/inter-frequency measurement. | UE | No | No | No |
| ***ncsg-MeasGapNR-Patterns-r17***  Indicates whether the UE supports NR-only NCSG patterns. The left most bit in the bitmap corresponds to NCSG pattern #0 and the right most bit in the bitmap corresponds to NCSG pattern #23. A bit in the bitmap is set to 1 if the corresponding pattern is supported by the UE. NCSG patterns #0 to #23 are as specified in TS 38.133 [5].  NCSG patterns #2 and #3 are mandatory (i.e. the corresponding bits in the bitmap is set to 1) if the UE includes this field. NCSG patterns #17 and #18 are mandatory (i.e. the corresponding bits in the bitmap is set to 1) if UE includes this field and supports a FR2 band. UEs supporting this shall indicate support of *nr-NeedForGapNCSG-Reporting-r17*. | UE | No | No | No |
| ***ncsg-MeasGapPatterns-r17***  Indicates whether the UE supports NCSG patterns. The left most bit in the bitmap corresponds to NCSG pattern #0 and the right most bit in the bitmap corresponds to NCSG pattern #23. A bit in the bitmap is set to 1 if the corresponding pattern is supported by the UE. NCSG patterns #0 to #23 are as specified in 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 *ncsg-MeasGapPerFR-r17* or if the UE is NCSG capable and supports FR2 band in standalone mode. UEs supporting this shall indicate support of *nr-NeedForGapNCSG-Reporting-r17* or *eutra-NeedForGapNCSG-Reporting-r17*. | UE | No | No | No |
| ***ncsg-MeasGapPerFR-r17***  Indicates whether the UE supports per-FR NCSG. UEs supporting this shall indicate support of *nr-NeedForGapNCSG-Reporting-r17*. | UE | No | No | No |
| ***ncsg-SymbolLevelScheduleRestrictionInter-r17***  Indicates whether the UE supports performing measurement with NCSG based on flag *deriveSSB-IndexFromCell-inter* and meeting the following requirements that the scheduling restriction in FR2 serving cell during NCSG ML is on SSB symbol level. UEs supporting this shall indicate support of *nr-NeedForGapNCSG-Reporting-r17*. | UE | No | No | FR2 only |
| ***nr-AutonomousGaps-r16***  Defines whether the UE supports, upon configuration of *useAutonomousGaps* by the network, acquisition of relevant information from a neighbouring NR cell by reading the SI of the neighbouring cell using autonomous gap and reporting the acquired information to the network as specified in TS 38.331 [9] when MR-DC is not configured. If this parameter is indicated for FR1 and FR2 differently, each indication corresponds to the frequency range of measured target cell. | UE | No | No | Yes |
| ***nr-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 | CY | No | No |
| ***nr-CGI-Reporting-ENDC***  Defines whether the UE supports acquisition of relevant CGI-information from a neighbouring intra-frequency or inter-frequency NR cell by reading the SI of the neighbouring cell and reporting the acquired information to the network as specified in TS 38.331 [9] when the (NG)EN-DC is configured. | UE | Yes | No | No |
| ***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 on-duration 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***  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*. | UE | No | No | No |
| ***parallelMeasurementGap-r17***  Indicates whether the UE supports 2 parallel measurement gaps for NTN SSB based RRM measurements. If a UE does not include this field but includes *nonTerrestrialNetwork-r17*, the UE supports 1 measurement gap for NTN SSB based RRM measurements. If this parameter is indicated, a UE shall also support that two parallel measurement gaps with the same gap type can be associated to one frequency layer. A UE supporting this feature shall also indicate the support of *nonTerrestrialNetwork-r17*. | UE | No | FDD only | FR1 only |
| ***parallelSMTC-r17***  Indicates whether the UE supports NTN SSB based RRM measurements on target cells belonging to 4 SMTC-s on a single frequency carrier. If a UE does not include this field but includes *nonTerrestrialNetwork-r17*, the UE supports NTN SSB based RRM measurements on target cells belonging to 2 SMTC-s on a single frequency carrier. | UE | No | FDD only | FR1 only |
| ***periodicEUTRA-MeasAndReport***  Indicates whether the UE supports periodic EUTRA measurement and reporting. It is mandated if the UE supports EUTRA. | UE | CY | No | No |
| ***pcellT312-r16***  Indicates whether the UE supports T312 based fast failure recovery for PCell. | UE | No | No | No |
| ***preconfiguredUE-AutonomousMeasGap-r17*** Indicates whether the UE supports the preconfigured measurement gap with UE-autonomous mechanism for activation and deactivation as specified in TS 38.133 [5]. | UE | No | No | No |
| ***preconfiguredNW-ControlledMeasGap-r17*** Indicates whether the UE supports the preconfigured measurement gap with network-controlled mechanism for activation and deactivation as specified in TS 38.133 [5]. | UE | No | No | No |
| ***rach-LessHandoverInterFreq-r18***  Indicates whether the UE supports inter-frequency RACH-less handover. The UE 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. | UE | No | No | No |
| ***reportAddNeighMeasForPeriodic-r16***  Defines whether the UE supports periodic reporting of best neighbour cells per serving frequency, as defined in TS 38.331 [9]. It is optional for (e)RedCap UEs. | UE | CY | No | No |
| ***secondBestCellChangeReport-r18***  Indicates whether the UE supports the sending of the measurement report if more than one of two best cells changed as specified in TS 38.331 [9]. | UE | No | No | No |
| ***serviceLinkPropDelayDiffReporting-r17***  Indicates whether the UE supports the reporting of service link propagation delay difference between serving cell and neighbour cell(s). A UE supporting this feature shall also indicate the support of *nonTerrestrialNetwork-r17*. | UE | No | No | No |
| ***sftd-MeasPSCell***  Indicates whether the UE supports SFTD measurements between the PCell and a configured PSCell. If this capability is included in UE-MRDC-Capability, it indicates that the UE supports SFTD measurement between PCell and PSCell in (NG)EN-DC. If this capability is included in UE-NR-Capability, it indicates that the UE supports SFTD measurement between PCell and PSCell in NR-DC. | UE | No | Yes | No |
| ***sftd-MeasPSCell-NEDC***  Indicates whether the UE supports SFTD measurement between the NR PCell and a configured E-UTRA PSCell in NE-DC. | UE | No | Yes | No |
| ***sftd-MeasNR-Cell***  Indicates whether the SFTD measurement with and without measurement gaps between the EUTRA PCell and the NR cells is supported by the UE which is capable of EN-DC/NGEN-DC when EN-DC/NGEN-DC is not configured. The SFTD measurement without gaps can be used when the UE supports at least one EN-DC band combination consisting of the set of the current E-UTRA serving frequencies and the NR frequency where SFTD measurement is configured. In UE-NR-Capability, this field is not used, and UE does not include the field. | UE | No | Yes | No |
| ***sftd-MeasNR-Neigh***  Indicates whether the inter-frequency SFTD measurement with and without measurement gaps between the NR PCell and inter-frequency NR neighbour cells is supported by the UE when MR-DC is not configured. The SFTD measurement without gaps can be used when the UE supports at least one DC or CA band combination consisting of the set of the current NR serving frequencies and the NR frequency where SFTD measurement is configured. | UE | No | Yes | No |
| ***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 |
| ***ssb-RLM***  Indicates whether the UE can perform radio link monitoring procedure based on measurement of SS/PBCH block as specified in TS 38.213 [11] and TS 38.133 [5]. This field shall be set to *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* applies. | UE | No | No | No |
| ***ss-SINR-Meas***  Indicates whether the UE can perform SS-SINR measurement as specified in TS 38.215 [13]. If this parameter is indicated for FR1 and FR2 differently, each indication corresponds to the frequency range of measured target cell. This applies only to non-shared spectrum channel access. For shared spectrum channel access, *ss-SINR-Meas-r16* applies. | UE | No | No | Yes |
| ***supportedGapPattern***  Indicates measurement gap pattern(s) optionally supported by the UE for NR SA, for NR-DC, for NE-DC and for independent measurement gap configuration on FR2 in (NG)EN-DC. The leading / leftmost bit (bit 0) corresponds to the gap pattern 2, the next bit corresponds to the gap pattern 3, as specified in TS 38.133 [5] and so on. The UE shall set the bits corresponding to the measurement gap pattern 13, 14, 17, 18 and 19 to 1 if the UE is an NR standalone capable UE that supports a band in FR2 or if the UE is an (NG)EN-DC capable UE that supports *independentGapConfig* and supports a band in FR2. | UE | CY | No | No |
| ***supportedGapPattern-r16***  Indicates measurement gap pattern(s) optionally supported by the UE for NR SA, for NR-DC for PRS measurement and NR/E-UTRA RRM measurement. The leading / leftmost bit (bit 0) corresponds to the gap pattern 24, the next bit corresponds to the gap pattern 25, as specified in TS 38.133 [5]. The applicability of the gap patterns 24 and 25 is defined in clause 9.1.2 of TS 38.133 [5]. A UE that indicates support of this capability shall indicate support of *NR-DL-PRS-ProcessingCapability-r16* defined in TS 37.355 [22]. | UE | No | No | No |
| ***supportedGapPattern-NRonly-r16***  Indicates measurement gap pattern(s) optionally supported by the UE for NR SA and NR-DC when the frequencies to be measured within this measurement gap are all NR frequencies. The leading / leftmost bit (bit 0) corresponds to the gap pattern 2, the next bit corresponds to the gap pattern 3 and so on. The UE shall set the bits corresponding to the measurement gap pattern 2, 3 and 11 to 1. | UE | FD | No | No |
| ***supportedGapPattern-NRonly-NEDC-r16***  Indicates whether the UE supports gap patterns 2, 3 and 11 in NE-DC when the frequencies to be measured within this measurement gap are all NR frequencies. | UE | No | No | No |

End of Change

# Annex: RAN2 UE capability feature list

According to the following agreements made in RAN2#129bis (R2-2502767), RAN2 determined UE capabilities in the feature list format for TR 38.822 is included.

The 306 CRs shall include an annex containing the RAN2 determined UE capabilities in the feature list format (similar to annex containing RAN2 agreements), for easy compilation into the TR38.822 in the later stage (as agreed in RAN2 #116-e). The annex of RAN2 determined UE capabilities feature list should align with field description.

### 8.2.x NR\_XR\_Ph3-Core

Table 8.2.x-1: Layer-2 and Layer-3 feature list for NR\_XR\_Ph3-Core

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Features | Index | Feature group | Components | Prerequisite feature groups | Field name in TS 38.331 [2] | Parent IE in TS 38.331 [2] | Need of FDD/TDD differentiation | Need of FR1/FR2 differentiation | Note | Mandatory/Optional |
| X. NR\_XR\_Ph3-Core | x-1 | Dynamic logical channel priority based on remaining time | Indicates whether the UE supports logical channel priority adjustment based on remaining time of buffered data, as specified in TS 38.321. |  | *lcp-PriorityAdjustment-r19* | *MAC-ParametersCommon* | No | No |  | Optional with capability signalling |
| x-2 | Enhanced delay status report | Indicates whether the UE supports the delay status report of the buffered data using multiple reporting thresholds, as specified in TS 38.321, TS 38.331, TS 38.323 and TS 38.322. |  | *enhancedDelayStatusReport-r19* | *MAC-ParametersCommon* | No | No |  | Optional with capability signalling |
| x-3 | Including non-delay-reporting data ahead of delay-reporting data for enhanced delay status report | Indicates whether the UE supports including non-delay-reporting data ahead of delay-reporting data in the buffer size calculation for enhanced delay status report, as specified in TS 38.321, TS 38.331, TS 38.323 and TS 38.322. | *enhancedDelayStatusReport-r19* | *delayStatusReportNonDelayReportingData-r19* | *MAC-ParametersCommon* | No | No |  | Optional with capability signalling |
| x-4 | UL rate control | Indicates whether the UE supports UL Rate Control MAC CE from the gNB to the UE, as specified in TS 38.321. |  | *ul-RateControl-r19* | *MAC-ParametersCommon* | No | No |  | Optional with capability signalling |
| x-5 | UL rate query | Indicates whether the UE supports transmission of bit rate query in UL Rate Control MAC CE to the gNB, as specified in TS 38.321. | *ul-RateControl-r19* | *ul-RateQuery-r19* | *MAC-ParametersCommon* | No | No |  | Optional with capability signalling |
| x-6 | Remaining time based RLC retransmission | Indicates whether the UE supports remaining time based RLC retransmission, as specified in TS 38.322 and TS 38.323. |  | *remainingTimeBasedRetransmission-r19* | *RLC-Parameters* | No | No |  | Optional with capability signalling |
| x-7 | Remaining time based RLC polling | Indicates whether the UE supports remaining time based RLC polling, as specified in TS 38.322 and TS 38.323. |  | *remainingTimeBasedPolling-r19* | *RLC-Parameters* | No | No |  | Optional with capability signalling |
| x-8 | Discarding RLC SDU based on RLC timer at receiving side | Indicates whether the UE supports discarding RLC SDU based on timer *t-RxDiscard* at the receiving side of an AM RLC entity, as specified in TS 38.322. |  | *rxRLC-Discard-r19* | *RLC-Parameters* | No | No |  | Optional with capability signalling |
| x-9 | Stopping RLC transmission and retransmission of discarded SDUs at the transmitting side | Indicates whether the UE supports stopping RLC transmission and retransmission of discarded SDUs at the transmitting side of an AM RLC entity, as specified in TS 38.322. |  | *txStopDiscardedSDU-r19* | *RLC-Parameters* | No | No |  | Optional with capability signalling |
| x-10 | Recommended ratio of gap occasions for cancelation report | Indicates whether the UE supports reporting recommended ratio of measurement gap occasions for cancelation, as specified in TS 38.331. | [enabling TX/RX during measurement gap scheduling restrictions by DCI] | *gapOccasionRatioReporting-r19* | *MeasAndMobParametersCommon* | No | No |  | Optional with capability signalling |