**3GPP TSG-RAN WG2 Meeting # *XXXX***

**Chicago, USA, 13th – 17th, Nov. 2023**

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| *CR-Form-v12.2* | | | | | | | | |
| **CHANGE REQUEST** | | | | | | | | |
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|  |  | **CR** | **-** | **rev** | **-** | **Current version:** |  |  |
|  | | | | | | | | |
| *For* [***HE******LP***](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:*** | Introduction of Rel-18 QoE UE capabilites in TS 38.306 | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Source to WG:*** | CMCC | | | | | | | | | |
| ***Source to TSG:*** | R2 | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Work item code:*** | NR\_QoE\_Enh-Core | | | | |  | ***Date:*** | | | 2023-11-23 |
|  |  | | | |  | |  | | |  |
| ***Category:*** | **B** |  | | | | | ***Release:*** | | | Rel-18 |
|  | *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-16 (Release 16) Rel-17 (Release 17) Rel-18 (Release 18) Rel-19 (Release 19)* | |
|  |  | | | | | | | | | |
| ***Reason for change:*** | | Introducing Rel-18 work item QoE enhancement on UE capability of NR QoE management and optimizations for diverse services to 38.306 | | | | | | | | |
|  | |  | | | | | | | | |
| ***Summary of change:*** | | The following agreements related to UE capabilities for Rel-18 QoE enhancement are added:  In RAN2#123:   * Introduce a UE capability indicating whether UE can perform MBS QoE in RRC\_IDLE and RRC\_INACTIVE. FFS whether the same capability can be used for MBS QoE in RRC\_CONNECTED. * Introduce a UE capability for the supported buffer size. It is conditionally mandatory if UE supports MBS QoE. The range is from 64 kB to 1024 kB (exact values can be discussed in RRC running CR discussion). FFS whether this is shared or additional to the Rel-17 buffer size requirement.   In RAN2#123bis:   * For non-RedCap UE, minimum memory requirement for IDLE/INACTIVE reports is 64KB. This memory is in addition to 64KB used for QoE report storage during pause. * Introduce an optional UE capability indicates whether UE supports 128, 256, 512 and 1024KB buffer size. * Introduce UE capability of supporting QoE configuration in NR-DC framework with radio access capability parameter. * Introduce UE capability of supporting SRB5 for QoE reporting with radio access capability parameters.   In RAN2#124:   * Priority-based QoE report discarding is an optional UE capability with UE capability signaling. It applies to both reports stored in IDLE/INACTIVE and in RRC CONNECTED during QoE pause. * Reuse the segmentation capability from Rel-17 QoE also for segmentation over SRB5. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Consequences if not approved:*** | | The network doesn’t know which Rel-18 QoE enhancement feature UE supports. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Clauses affected:*** | | 4.2.2, 4.2.20, 6 | | | | | | | | |
|  | |  | | | | | | | | |
|  | | **Y** | **N** |  | | | |  | | |
| ***Other specs*** | | **X** |  | Other core specifications | | | | TS/TR 38.331 CR ... | | |
| ***affected:*** | |  | **X** | Test specifications | | | | TS/TR ... CR ... | | |
| ***(show related CRs)*** | |  | **X** | O&M Specifications | | | | TS/TR ... CR ... | | |
|  | |  | | | | | | | | |
| ***Other comments:*** | |  | | | | | | | | |
|  | |  | | | | | | | | |
| ***This CR's revision history:*** | |  | | | | | | | | |

*First Modified Subclause*

### 4.2.2 General parameters

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Definitions for parameters | Per | M | FDD-TDD DIFF | **FR1-FR2**  DIFF |
| ***accessStratumRelease***  Indicates the access stratum release the UE supports as specified in TS 38.331 [9]. | UE | Yes | No | No |
| ***crossCarrierSchedulingConfigurationRelease-r17***  Indicates whether the UE supports using *crossCarrierSchedulingConfigRelease* to release the configurations configured by *crossCarrierSchedulingConfig*. | UE | No | No | No |
| ***delayBudgetReporting***  Indicates whether the UE supports delay budget reporting as specified in TS 38.331 [9]. | UE | No | No | No |
| ***dl-DedicatedMessageSegmentation-r16***  Indicates whether the UE supports reception of segmented DL RRC messages. | UE | No | No | No |
| ***drx-Preference-r16***  Indicates whether the UE supports providing its preference of a cell group on DRX parameters for power saving in RRC\_CONNECTED, as specified in TS 38.331 [9]. | UE | No | No | No |
| ***gNB-SideRTT-BasedPDC-r17***  Indicates whether the UE supports gNB-side RTT-based PDC, as specified in TS 38.300 [28]. A UE supporting this feature shall also support *rtt-BasedPDC-CSI-RS-ForTracking-r17* and/or *rtt-BasedPDC-PRS-r17*. | UE | No | No | No |
| ***inactiveState***  Indicates whether the UE supports RRC\_INACTIVE as specified in TS 38.331 [9]. | UE | Yes | No | No |
| ***inactiveStateNTN-r17***  Indicates whether the UE supports RRC\_INACTIVE in NTN as specified in TS 38.331 [9]. It is mandated if the UE indicates the support of *nonTerrestrialNetwork-r17*. | UE | CY | No | No |
| ***inactiveStatePO-Determination-r17***  Indicates whether the UE supports to use the same i\_s to determine PO in RRC\_INACTIVE state as in RRC\_IDLE state. | UE | No | No | No |
| ***inDeviceCoexInd-r16***  Indicates whether the UE supports IDC (In-Device Coexistence) assistance information as specified in TS 38.331 [9]. | UE | No | No | No |
| ***maxBW-Preference-r16, maxBW-Preference-r17***  Indicates whether the UE supports providing its preference of a cell group on the maximum aggregated bandwidth for power saving in RRC\_CONNECTED, as specified in TS 38.331 [9]. | UE | No | No | Yes  (Incl FR2-2 DIFF) |
| ***maxCC-Preference-r16***  Indicates whether the UE supports providing its preference of a cell group on the maximum number of secondary component carriers for power saving in RRC\_CONNECTED, as specified in TS 38.331 [9]. | UE | No | No | No |
| ***maxMIMO-LayerPreference-r16, maxMIMO-LayerPreference-r17***  Indicates whether the UE supports providing its preference of a cell group on the maximum number of MIMO layers for power saving in RRC\_CONNECTED, as specified in TS 38.331 [9]. | UE | No | No | Yes  (Incl FR2-2 DIFF) |
| ***maxMRB-Add-r17***  Indicates the additional maximum number of MRBs that the UE supports for MBS multicast reception as specified in TS 38.331 [9]. | UE | No | No | No |
| ***mcgRLF-RecoveryViaSCG-r16***  Indicates whether the UE supports recovery from MCG RLF via split SRB1 (if supported) and via SRB3 (if supported) as specified in TS 38.331[9]. | UE | No | No | No |
| ***minSchedulingOffsetPreference-r16***  Indicates whether the UE supports providing its preference on the minimum scheduling offset for cross-slot scheduling of the cell group for power saving in RRC\_CONNECTED, as specified in TS 38.331 [9]. | UE | No | No | No |
| ***mpsPriorityIndication-r16***  Indicates whether the UE supports *mpsPriorityIndication* on RRC release with redirect as defined in TS 38.331 [9]. | UE | No | No | No |
| ***musim-GapPreference-r17***  Indicates whether the UE supports providing MUSIM assistance information with MUSIM gap preference and related MUSIM gap configuration, as defined in TS 38.331 [9]. UE supporting this feature supports 3 periodic gaps and 1 aperiodic gap. | UE | No | No | No |
| ***musimLeaveConnected-r17***  Indicates whether the UE supports providing MUSIM assistance information with indication of leaving RRC\_CONNECTED state as defined in TS 38.331 [9]. | UE | No | No | No |
| ***nonTerrestrialNetwork-r17***  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-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. | UE | No | No | No |
| ***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 | No |
| ***overheatingInd***  Indicates whether the UE supports overheating assistance information. | UE | No | No | No |
| ***pei-SubgroupingSupportBandList-r17***  Indicates whether the UE supports receiving paging early indication in DCI format 2\_7 as specified in TS38.304 [21] for a list of frequency band. The UE shall support UEID based subgrouping for a frequency band if it indicates supporting of paging early indication reception for the frequency band. The set of OFDM symbols within a slot where UE can monitor the PEI PDCCH in Type 2A CSS is the same as the requirement for paging PDCCH in Type 2 CSS for IDLE and INACTIVE mode UEs. | UE | No | 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 38.101-2 [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. | UE | No | No | No |
| ***ra-SDT-r17***  Indicates whether the UE supports transmission of data and/or signalling over allowed radio bearers in RRC\_INACTIVE state via Random Access procedure (i.e., RA-SDT) with 4-step RA type and if UE supports *twoStepRACH-r16,* with 2-step RA type, as specified in TS 38.331 [9]. | UE | No | No | No |
| ***ra-SDT-NTN-r17***  Indicates whether the UE supports transmission of data and/or signalling over allowed radio bearers in RRC\_INACTIVE state in NTN via Random Access procedure (i.e., RA-SDT) with 4-step RA type and if UE supports *twoStepRACH-r16* for NTN*,* with 2-step RA type, as specified in TS 38.331 [9]. A UE supporting this feature shall also indicate the support of *nonTerrestrialNetwork-r17*. | UE | No | No | No |
| ***redirectAtResumeByNAS-r16***  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]. | UE | No | No | No |
| ***reducedCP-Latency***  Indicates whether the UE supports reduced control plane latency as defined in TS 38.331 [9] | UE | No | No | No |
| ***referenceTimeProvision-r16***  Indicates whether the UE supports provision of referenceTimeInfo in *DLInformationTransfer* message and in SIB9 and reference time information preference indication via assistance information, as specified in TS 38.331 [9]. | UE | No | No | No |
| ***releasePreference-r16***  Indicates whether the UE supports providing its preference assistance information to transition out of RRC\_CONNECTED for power saving, as specified in TS 38.331 [9]. | UE | No | No | No |
| ***resumeWithStoredMCG-SCells-r16***  Indicates whether the UE supports not deleting the stored MCG SCell configuration when initiating the resume procedure. | UE | No | No | No |
| ***resumeWithStoredSCG-r16***  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*. | UE | No | No | No |
| ***resumeWithSCG-Config-r16***  Indicates whether the UE supports (re-)configuration of an SCG during the resume procedure. | UE | No | No | No |
| ***sliceInfoforCellReselection-r17***  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]. | UE | No | No | No |
| ***splitSRB-WithOneUL-Path***  Indicates whether the UE supports UL transmission via MCG path and DL reception via either MCG path or SCG path, as specified for the split SRB in TS 37.340 [7]. The UE shall not set the FDD/TDD specific fields for this capability (i.e. it shall not include this field in *UE-MRDC-CapabilityAddXDD-Mode*). | UE | No | No | No |
| ***splitDRB-withUL-Both-MCG-SCG***  Indicates whether the UE supports UL transmission via both MCG path and SCG path for the split DRB as specified in TS 37.340 [7]. The UE shall not set the FDD/TDD specific fields for this capability (i.e. it shall not include this field in *UE-MRDC-CapabilityAddXDD-Mode*). | UE | Yes | No | No |
| ***srb3***  Indicates whether the UE supports SRB3 which is a direct SRB between the SN and the UE as specified in TS 37.340 [7]. The UE shall not set the FDD/TDD specific fields for this capability (i.e. it shall not include this field in *UE-MRDC-CapabilityAddXDD-Mode*). This field is not applied to NE-DC. | UE | Yes | No | No |
| ***srb-SDT-NTN-r17***  Indicates whether the UE supports the usage of signalling radio bearer SRB2 over RA-SDT or CG-SDT in NTN, as specified in TS 38.331 [9].  A UE supporting this feature shall also indicate support of *ra-SDT-NTN-r17*, *or cg-SDT-r17* in NTN bands. A UE supporting this feature shall also indicate the support of *nonTerrestrialNetwork-r17*. | UE | No | No | No |
| ***srb-SDT-r17***  Indicates whether the UE supports the usage of signalling radio bearer SRB2 over RA-SDT or CG-SDT, as specified in TS 38.331 [9].  A UE supporting this feature shall also indicate support of *ra-SDT-r17 or cg-SDT-r17*. | UE | No | No | No |
| ***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-Segmentation-r16***  Indicates whether the UE supports uplink RRC segmentation of *UECapabilityInformation* as specified in TS 38.331 [9]. | UE | No | No | No |

*Next Modified Subclause*

### 4.2.20 Application layer measurement parameters

| Definitions for parameters | Per | M | 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-NRDC-MeasReport-r18***  Indicates whether the UE supports to receive QoE configuration(s) via SRB1 and SRB3 (if supported) from SN, and send the corresponding QoE report(s) via SRB4 and 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 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***  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 |

*Next Modified Subclause*

# 6 Conditionally mandatory features without UE radio access capability parameters

| Features | Condition |
| --- | --- |
| Acquisition of SI messages with explicit SI window positions | It is mandatory to support acquisition of SI messages with explicit SI window positions for UEs which support the SIB types in *schedulingInfoList2* 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 | For non-RedCap UE, 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”. |
| Downlink SDAP header | Either NAS reflective QoS or *as-ReflectiveQoS* is supported. |
| Extended values for *drx-HARQ-RTT-TimerDL/UL* | It is mandatory for UEs which support FR2-2 bands with SCS 480kHz and/or 960kHz. |
| IMS emergency call | It is mandatory to support IMS emergency call over PLMN for UEs which are IMS voice capable in NR.  It is mandatory to support IMS emergency call over SNPN for UEs that are SNPN capable and IMS voice capable over SNPNs. |
| Logged measurements suspension due to IDC interference | It is mandatory to support Logged measurements suspension due to IDC interference for UEs which are supporting logged measurements in RRC\_IDLE and RRC\_INACTIVE upon request from the network and in-device coexistence indication as specified in TS 38.331 [9]. |
| MAC subheaders with one-octet eLCID field | It is mandatory to support MAC subheaders with one-octet eLCID field for UEs/IAB-MTs supporting MAC CEs using extended LCID values as specified in TS 38.321 [8]. |
| Paging cause in RAN paging message | It is mandatory for a UE to support paging cause in RAN paging if UE supports paging cause in CN paging. |
| Skipping UL configured grant if no data to transmit, as specified in release-15 version of TS 38.321 [8]. | Either configuredUL-GrantType1 or *configuredUL-GrantType1-v1650* or configuredUL-GrantType2 or *configuredUL-GrantType2-v1650* is supported. |
| TA reporting during initial access | It is mandatory to support TA reporting during initial access for UEs supporting *uplink-TA-Reporting-r17* as specified in TS 38.321 [8]. |

*End of Changes*

# Annex: RAN2 UE capability feature list

### X.X.X NR\_QoE-Core

Table X.X.X-1: Layer-2 and Layer-3 feature list for NR\_QoE-Core

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Features | Index | Feature group | Components | Prerequisite feature groups | Field name in TS 38.331 | Parent IE in TS 38.331 [2] | Need of FDD/TDD differentiation | Need of FR1/FR2 differentiation | Note | Mandatory/Optional |
| X. NR\_QoE-Core | X-1 | QoE measurements in RRC\_IDLE INACTIVE | Indicates which additional AS layer memory size the UE supports. | *qoe-IdleInactiveMeasReport-r18* | *qoe-AdditionalMemoryMeasReport-r18* | *AppLayerMeasParameters-r17* | No | No |  | Optional with capability signalling |
| X-2 | QoE measurements in RRC\_IDLE INACTIVE | Indicates whether the UE supports NR QoE Measurement Collection in RRC\_IDLE and RRC\_INATIVE states. | *qoe-Streaming-MeasReport-r17* or *qoe-MTSI-MeasReport-r17* or *qoe-VR-MeasReport-r17* | *qoe-IdleInactiveMeasReport-r18* | *AppLayerMeasParameters-r17* | No | No |  | Optional with capability signalling |
| X-3 | QoE measurements for NR-DC | Indicates whether the UE supports to receive QoE configuration(s) via SRB1 and SRB3 from SN, and send the corresponding QoE report(s) via SRB4. | *qoe-Streaming-MeasReport-r17* or *qoe-MTSI-MeasReport-r17* or *qoe-VR-MeasReport-r17* | *qoe-NRDC-MeasReport-r18* | *AppLayerMeasParameters-r17* | No | No |  | Optional with capability signalling |
| X-4 | NR QoE measurement collection | Indicates whether the UE supports to discard QoE paused measurement report(s) based on the priority information provided in the QoE configuration(s) in RRC\_CONNECTED during QoE pause RRC\_INACTIVE and RRC\_IDLE. | *qoe-Streaming-MeasReport-r17* or *qoe-MTSI-MeasReport-r17* or *qoe-VR-MeasReport-r17* | *qoe-PriorityBasedDiscardingMeasReport-r18* | *AppLayerMeasParameters-r17* | No | No |  | Optional with capability signalling |
| X-5 | QoE measurements for NR-DC | Indicates whether the UE supports SRB5 which is a direct SRB between the SN and the UE | X-4 | *srb5* | *AppLayerMeasParameters-r17* | No | No |  | Optional with capability signalling |