**3GPP TSG-****RAN2 Meeting#118e R2-22xxxxx**

**May, 2022**

**Agenda Item:** XXX

**Source:** Ericsson

**Title:** NR Rel-17 38331 ASN.1 Review, Class 0 issues

**Document for:** Discussion and decision

# Guidelines

* This file is used to log NR 38331 ASN:1 Review Class 0.
  + **- Typo, minor wording improvement etc.**
  + **- ASN.1 field not following naming rules (e.g. incorrect suffix, capitalization, “-“, etc).**
* Fill in the columns, see example.
  + Make sure the inserted specification text is unique, such that the location of the issue is simple to find.
  + Avoid indicating duplicated issues by checking if the concerned specification text is already reported in the table.
  + Step the file name v(x) -> v(x+1) and upload to ftp server.
* The “status” column will be filled in by the ASN.1 review moderator.

# Class 0 issues

| **Issue** | **ASN1?**  **Y/N** | **Copied existing specification text.**  **Text should be unique, so that it can be easily found in the specification.**  **If needed, add also the new text.** | **Comment/description/**  **correction** | **Email address** | **Status** |
| --- | --- | --- | --- | --- | --- |
| Ex 1 | N  N | 2> derive the KUPint key associated with the *integrityProtAlgorithm* indicated in the SecurityModeCommand message, as specified in TS 33.501 [11]; | Missing italics. | hakan.l.palm@ericsson.com |  |
| Ex 2 | N | PUSCH scheduled by RAR UL grant (see 38.213 clause 8.3 and 38.214 clause 6.1.2.2) and uses interlaced PUCCH Format 0, 1, 2, and 3 for cell-specific PUCCH (see TS 38.213 [13], clause 9.2.1). | Incorrect reference, should be 9.2.101. | hakan.l.palm@ericsson.com |  |
| Ex 3 | Y | RbSetGroup, rbSetGroups | RB-SetGroup, rb-SetGroups | hakan.l.palm@ericsson.com |  |
| 4 | Y | UEAssistanceInformation-v1700-IEs ::= SEQUENCE {  ul-GapFR2-Preference-r17 UL-GapFR2-Preference-r17 OPTIONAL,  musim-Assistance-r17 MUSIM-Assistance-r17 OPTIONAL,  overheatingAssistance-r17 OverheatingAssistance-r17 OPTIONAL,  maxBW-PreferenceFR2-2-r17 MaxBW-PreferenceFR2-2-r17 OPTIONAL,  maxMIMO-LayerPreferenceFR2-2-r17 MaxMIMO-LayerPreferenceFR2-2-r17 OPTIONAL,  minSchedulingOffsetPreferenceExt-r17 MinSchedulingOffsetPreferenceExt-r17 OPTIONAL,  rlm-MeasRelaxationState-r17 BOOLEAN OPTIONAL,  bfd-MeasRelaxationState-r17 BIT STRING (SIZE (32)) OPTIONAL,  nonSDT-DataIndication-r17 SEQUENCE {  resumeCause-r17 ResumeCause OPTIONAL  } OPTIONAL,  scg-DeactivationPreference ENUMERATED { scgDeactivationPreferred, noPreferrence } OPTIONAL,  uplinkData-r17 ENUMERATED { true } OPTIONAL,  rrm-MeasRelaxationFulfilment-r17 BOOLEAN OPTIONAL,  nonCriticalExtension SEQUENCE {} OPTIONAL  } | The yellow should be replaced with "(maxNrofServingCells)" | Mattias.a.bergstrom@ericsson.com |  |
| 5 | Y | SIB12-IEs-r16 ::= SEQUENCE {  sl-ConfigCommonNR-r16 SL-ConfigCommonNR-r16,  lateNonCriticalExtension OCTET STRING OPTIONAL,  ...,  [[  sl-DRX-ConfigCommon-GC-BC-r17 SL-DRX-Config-GC-BC-r17 OPTIONAL, -- Need R  sl-DiscConfigCommon-r17 SL-DiscConfigCommon-r17 OPTIONAL, -- Need R  sl-L2U2N-Relay ENUMERATED {support} OPTIONAL, -- Need R  sl-NonRelayDiscovery ENUMERATED {support} OPTIONAL, -- Need R  sl-L3U2N-RelayDiscovery ENUMERATED {support} OPTIONAL -- Need R  ]]  } | "support" here should be "enabled". Usually we talk about what the gNB has enabled/disabled not what the gNB supports/doesn't support. For example, the gNB may support these features but the operator has not enabled the feature (e.g. at the moment). | Mattias.a.bergstrom@ericsson.com |  |
| 6 | N | In 5.3.7.2  2> if the PC5-RRC connection with the U2N Relay UE is determined to be released:  3> perform the PC5-RRC connection release as specified in 5.8.9.5;  3>perform either cell selection in accordance with the cell selection process as specified in TS 38.304 [20], or relay selection as specified in clause 5.8.x3.3, or both;  2> else maintain the PC5 RRC connection and stop T311 if running; | The else branch should be split into two levels for condition and operation  2> else  3> maintain the PC5 RRC connection and stop T311 if running; | qianxi.lu@oppo.com |  |
| 7 | N | In 5.3.13.6  1> else if cell selection or reselection occurs while T390 is running, or cell change due to relay selection or reselection occurs while T390 is running:  2> stop T390 for all access categories;  2> perform the actions as specified in 5.3.14.4. | It would be clearer if split the long else-if into two-level condition as follows  1> else  2> if cell selection or reselection occurs while T390 is running, or  2> if cell change due to relay selection or reselection occurs while T390 is running:  3> stop T390 for all access categories;  3> perform the actions as specified in 5.3.14.4. | qianxi.lu@oppo.com |  |
| 8 | N | In 5.5.5.1  5> else:  6> include the applicable cells for which the new measurement results became available since the last periodical reporting or since the measurement was initiated or reset; | Indentation error  5> else:  6> include the applicable cells for which the new measurement results became available since the last periodical reporting or since the measurement was initiated or reset; | qianxi.lu@oppo.com |  |
| 9 | N | In 5.8.15.3  NOTE 2: If multiple suitable candidate Relay UEs which meet all AS-layer & higher layer criteria are available, it is up to Remote UE implementation to choose one Relay UE. The details of the interaction with upper layers are up to UE implementation. | Suggest to change & to and  NOTE 2: If multiple suitable candidate Relay UEs which meet all AS-layer and higher layer criteria are available, it is up to Remote UE implementation to choose one Relay UE. The details of the interaction with upper layers are up to UE implementation. | qianxi.lu@oppo.com |  |
| 10 | N | In 5.8.9.7.2,  Upon PC5-RRC connection is established between the L2 U2N Relay UE and L2 U2N Relay UE, the L2 U2N Relay UE shall: | One of the relay UE should be remote UE, i.e., to correct the typo  Upon PC5-RRC connection is established between the L2 U2N Remote UE and L2 U2N Relay UE, the L2 U2N Relay UE shall: | qianxi.lu@oppo.com |  |
| 11 | Y | *– DRX-ConfigSL*  The IE *DRX-ConfigSL* is used to configure additional DRX parameters for the UE performing sidelink operation with resource allocation mode 1, as specified in TS 38.321 [3].  ***DRX-ConfigSL information element***  -- ASN1START  -- TAG-DRX-CONFIGSL-START  DRX-ConfigSL ::= SEQUENCE {  drx-HARQ-RTT-TimerSL INTEGER (0..56),  drx-RetransmissionTimerSL ENUMERATED {sl0, sl1, sl2, sl4, sl6, sl8, sl16, sl24, sl33, sl40, sl64, sl80, sl96, sl112, sl128, sl160,  sl320, spare15, spare14, spare13, spare12, spare11, spare10, spare9, spare8, spare7, spare6,  spare5, spare4, spare3, spare2, spare1}  }  -- TAG-DRX-CONFIGSL-STOP  -- ASN1STOP   |  | | --- | | ***DRX-ConfigSL field descriptions*** | | ***drx-HARQ-RTT-TimerSL***  Value in number of symbols of the BWP where the PDCCH was transmitted. | | ***drx-RetransmissionTimerSL***  Value in number of slot lengths of the BWP where the PDCCH was transmitted. *sl0* corresponds to 0 slots, *sl1* corresponds to 1 slot, *sl2* corresponds to 2 slots, and so on. | | Missing -r17 suffix for the following IEs  ***DRX-ConfigSL information element***  -- ASN1START  -- TAG-DRX-CONFIGSL-START  DRX-ConfigSL ::= SEQUENCE {  drx-HARQ-RTT-TimerSL INTEGER (0..56),  drx-RetransmissionTimerSL ENUMERATED {sl0, sl1, sl2, sl4, sl6, sl8, sl16, sl24, sl33, sl40, sl64, sl80, sl96, sl112, sl128, sl160,  sl320, spare15, spare14, spare13, spare12, spare11, spare10, spare9, spare8, spare7, spare6,  spare5, spare4, spare3, spare2, spare1}  }  -- TAG-DRX-CONFIGSL-STOP  -- ASN1STOP | qianxi.lu@oppo.com |  |
| 12 | Y | RRCReconfiguration-v1700-IEs ::= SEQUENCE {  otherConfig-v1700 OtherConfig-v1700 OPTIONAL, -- Need M  ul-GapFR2-Config-r17 SetupRelease { UL-GapFR2-Config-r17 } OPTIONAL, -- Need M  sl-L2RelayUEConfig-r17 SetupRelease { SL-L2RelayUEConfig-r17 } OPTIONAL, -- Cond L2RelayUE  sl-L2RemoteUEConfig-r17 SetupRelease { SL-L2RemoteUEConfig-r17 } OPTIONAL, -- Cond L2RemoteUE  dedicatedPagingDelivery-r17 OCTET STRING (CONTAINING Paging) OPTIONAL, -- L2U2NRelay  needForNCSG-ConfigNR-r17 SetupRelease {NeedForNCSG-ConfigNR-r17} OPTIONAL, -- Need M  needForNCSG-ConfigEUTRA-r17 SetupRelease {NeedForNCSG-ConfigEUTRA-r17} OPTIONAL, -- Need M  musim-GapConfig-r17 SetupRelease {MUSIM-GapConfig-r17} OPTIONAL, -- Need M  scg-State-r17 ENUMERATED { deactivated } OPTIONAL, -- Need S  appLayerMeasConfig-r17 AppLayerMeasConfig-r17 OPTIONAL, -- Need M  nonCriticalExtension SEQUENCE {} OPTIONAL  } | Missing “-”  (this error is applicable to all places for the IE definition and usage) | qianxi.lu@oppo.com |  |
| 13 | N | In 5.8.9.8.2  When entering RRC\_CONNECTED, if L2 U2N remote UE had send *sl-Requested-SI-List* and *sl-PagingInfo-RemoteUE,* the L2 U2N Remote UE shall: | send => sent | qianxi.lu@oppo.com |  |
| 14 | N | In 5.3.5.16.2  The L2 U2N Relay UE shall:  1> if the release is triggered by reception of the *sl-RemoteUE-ToReleaseList*:  2> for each *sl-L2Identity-Remote* value included in the *sl-RemoteUE-ToReleaseList*:  3> if the current UE has a PC5 RRC connection to a L2 U2N Remote UE with *sl-L2Identity-Remote*:  4> perform the PC5-RRC connection release as specified in 5.8.9.5. | For the level-1 condition, since the only place that this sub-clause is called is as follows  1> if the *sl-L2RelayUEConfig* contains the *sl-RemoteUE-ToReleaseList*:  2> perform the L2 U2N Remote UE release as specified in 5.3.5.16.2;  There is no need to further check the condition of “if the release is triggered by reception of the *sl-RemoteUE-ToReleaseList*”, so can be removed. | qianxi.lu@oppo.com |  |
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