3GPP TSG RAN WG2 Meeting #109bis-e R2-200xxxx

**Electronic, 20th – 30th April 2020**

**Agenda item:** 6.0.1

**Source:** Lenovo

**Title:** Report from email discussion [AT109bis-e][071][NR RIL] DiscMail10

**Document for:**  Discussion and decision

# Introduction

This contribution summarizes the discussion and result of the email discussion below that took place during RAN2#109bis-e:

* [AT109bis-e][071][NR RIL] DiscMail10 (Lenovo)

Scope: Discussion and implementation of review issues.

Wanted outcome: a) Agreed RIL Status update in the email discussion report b) Agreed ASN.1/procedure text proposal included in the email discussion report.
After email discussion report is agreed, the TPs will be included in the ASN.1 Review file, for the continued ASN.1 review.

Deadline: Email discussion Stop at EOM, April 30 (short extension 1 week could be considered if needed).

In detail, the following issues from [1] and [2] were discussed in the email discussion:

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| **RIL #** | **Issue** | **Feature** |
| Q001 | SIB validity check for non-NPN-only / NPN-only cell | NPN |
| Z101 | Description of SIB1 reception | NPN |
| Z102 | Definition for selected NPN | NPN |
| H233 | Changes for MRDC-SecondaryCellGroupConfig in RRCReconfiguration and mrdc-SecondaryCellGroup-r16 in RRCResume | DCCA |
| I675 | Issues with availableCombToAddModList-r16, availableCombToReleaseList-r16 and iabDuCellId-AI-r16 | IAB |
| H199 | Description of the condition AsyncCA | DCCA |
| I644 | Need code for field monitoringCapabilityConfig-r16 | URLLC |
| B002 | IE DL-AM-RLC-v16xy in RLC-Config | URLLC |
| I654 | IE DL-AM-RLC-v16xy in RLC-Config | URLLC |
| I653 | IE DL-AM-RLC-v16xy in RLC-Config | URLLC |
| M004 | Need code for field t316-r16 | DCCA |
| S206 | Unused IE SchedulingRequestResourceConfig-v16xy | IIOT |
| Z016 | Missing field description for enableConfiguredUL-r16 | NR-U |

# Discussion

## RIL #Q001

Issue #Q001 is related to the description of SIB validity check for non-NPN-only / NPN-only cell, see highlighted part in the procedure text of 5.2.2.2.1 below. The description of the issue is shown below.

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| **RIL #** | **Description** | **Proposed Change** |
| Q001 | These bullets are related to legacy behaviour, but addtion of this text somehow implies that the UE not supporting NPN needs to check if the cell is NPN-only cell. It is clear from the following defition in section 3.1 that only NPN capable UE can identify NPN-only cell. ***NPN-only Cell:*** *A cell that is only available for normal service for NPNs' subscriber. An NPN-capable UE determines that a cell is NPN-only Cell by detecting that the cellReservedForOtherUse IE is set to true while the npn-IdentityInfoList IE is present in CellAccessRelatedInfo.* | The following structure could be used. > if the UE is NPN capable and the cell is an NPN-only cell […new text…]> else […legacy text…] |

5.2.2.2.1 SIB validity

<Text omitted>

The UE shall:

1> delete any stored version of a SIB after 3 hours from the moment it was successfully confirmed as valid;

1> for each stored version of a SIB:

2> if the *areaScope* is associated and its value for the stored version of the SIB is the same as the value received in the *si-SchedulingInfo* for that SIB from the serving cell:

3> if the cell is non-NPN-only cell and the first *PLMN-Identity* included in the *PLMN-IdentityInfoList*, the *systemInformationAreaID* and the v*alueTag* that are included in the *si-SchedulingInfo* for the SIB received from the serving cell are identical to the *PLMN-Identity*, the *systemInformationAreaID* and the *valueTag* associated with the stored version of that SIB:

4> consider the stored SIB as valid for the cell;

3> if the cell is an NPN-only cell and the first *NPN-Identity* included in the *NPN-IdentityInfoList*, the *systemInformationAreaID* and the v*alueTag* that are included in the *si-SchedulingInfo* for the SIB received from the serving cell are identical to the *NPN-Identity*, the *systemInformationAreaID* and the *valueTag* associated with the stored version of that SIB:

4> consider the stored SIB as valid for the cell;

2> if the *areaScope* is not present for the stored version of the SIB and the *areaScope* value is not included in the *si-SchedulingInfo* for that SIB from the serving cell:

3> if the cell is non-NPN-only cell and the first *PLMN-Identity* in the *PLMN-IdentityInfoList,* the *cellIdentity* and *valueTag* that are included in the *si-SchedulingInfo* for the SIB received from the serving cell are identical to the *PLMN-Identity,* the *cellIdentity* and the *valueTag* associated with the stored version of that SIB:

4> consider the stored SIB as valid for the cell;

3> if the cell is an NPN-only cell and the first *NPN-Identity* in the *NPN-IdentityInfoList,* the *cellIdentity* and *valueTag* that are included in the *si-SchedulingInfo* for the SIB received from the serving cell are identical to the *NPN-Identity,* the *cellIdentity* and the *valueTag* associated with the stored version of that SIB:

4> consider the stored SIB as valid for the cell;

**Question 1:** Do you agree with the intention for restructuring the description of SIB validity check for non-NPN-only / NPN-only cell as proposed by #Q001?

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| **Company** | **Agree/Disagree** | **Additional comments** |
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## RIL #Z101, Z102

Issues #Z101, Z102 are related to the description of SIB1 reception and definition for selected NPN, see highlighted part in the procedure text of 5.2.2.4.2 below. The description of the issues is shown below.

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| **RIL #** | **Description** | **Proposed Change** |
| Z101 | Since the upper layer will provide either a selected NPN or a selected PLMN to AS layer, there is no need for UE to differentiate between a NPN-only cell and a non NPN-only cell in this case. | The following changes in the procedural text are proposed for simplicity: Upon receiving the SIB1 the UE shall: 1> store the acquired *SIB1*;1> if ~~the cell is not an NPN-only cell and~~ the *cellAccessRelatedInfo* contains an entry with the *PLMN-Identity* of the selected PLMN:2> in the remainder of the procedures use *plmn-IdentityList*, *trackingAreaCode*, and *cellIdentity* for the cell as received in the corresponding *PLMN-IdentityInfo* containing the selected PLMN;1> else if the *cellAccessRelatedInfo* contains an entry with the *NPN-Identity* of the selected NPN:2> in the remainder of the procedures use *npn-IdentityList*, *trackingAreaCode*, and *cellIdentity* for the cell as received in the corresponding *NPN-IdentityInfo* containing the selected NPN; |
| Z102 | There has been clear definition for selected PLMN in TS38.304 (see below) but there is no definition for selected NPN, we suggest to add one. Selected PLMN: This is the PLMN that has been selected by the NAS, either manually or automatically. | Add definition for selected NPN as follows: *Selected NPN: This is the SNPN or PNI-NPN that has been selected by the NAS, either manually or automatically. The selected SNPN is identified by a NID in combination with a PLMN ID. The selected PNI-NPN is identified by a CAG-ID in combination with a PLMN ID.* |

5.2.2.4.2 Actions upon reception of the *SIB1*

Upon receiving the *SIB1* the UE shall:

1> store the acquired *SIB1*;

1> if the cell is not an NPN-only cell and the *cellAccessRelatedInfo* contains an entry with the *PLMN-Identity* of the selected PLMN:

2> in the remainder of the procedures use *plmn-IdentityList*, *trackingAreaCode*, and *cellIdentity* for the cell as received in the corresponding *PLMN-IdentityInfo* containing the selected PLMN;

1> if the *cellAccessRelatedInfo* contains an entry with the *NPN-Identity* of the selected NPN:

2> in the remainder of the procedures use *npn-IdentityList*, *trackingAreaCode*, and *cellIdentity* for the cell as received in the corresponding *NPN-IdentityInfo* containing the selected NPN;

<Text omitted>

**Question 2:** Do you agree with the changes for the description of SIB1 reception and to add a definition for selected NPN as proposed by #Z101, Z102?

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| **Company** | **Agree/Disagree** | **Additional comments** |
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## RIL #H233

Issue #H233 is related to the *mrdc-SecondaryCellGroup-r16* in *RRCResume* that was introduced in the context of DCCA. The description of the issue is shown below.

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| **RIL #** | **Description** | **Proposed Change** |
| H233 | In RRCReconfiguration there is:  mrdc-SecondaryCellGroupConfig SetupRelease { MRDC-SecondaryCellGroupConfig } OPTIONAL, -- Need Mand MRDC-SecondaryCellGroupConfig ::= SEQUENCE { mrdc-ReleaseAndAdd ENUMERATED {true} OPTIONAL, -- Need N mrdc-SecondaryCellGroup CHOICE { nr-SCG OCTET STRING (CONTAINING RRCReconfiguration),  eutra-SCG OCTET STRING }}These two "nr-SCG" and "nr-SCG-r16" should be considered as the same parameter, so that it is possible to use the RRCReconfiguration message to modify what was configured with RRCResume. In order to achieve this RRCResume should have a SetupRelese of MRDC-SecondaryCellGroup, which needs to be made an IE. | Move the MRDC-SecondaryCellGroupConfig in RRCReconfiguration to an IE and use this IE for mrdc-SecondaryCellGroup-r16. |

RRCResume-v16xy-IEs ::= SEQUENCE {

 idleModeMeasurementReq-r16 ENUMERATED {ffs} OPTIONAL, -- Need N

 restoreMCG-SCells-r16 ENUMERATED {true} OPTIONAL, -- Need N

 restoreSCG-r16 ENUMERATED {true} OPTIONAL, -- Need N

 mrdc-SecondaryCellGroup-r16 CHOICE {

 nr-SCG-r16 OCTET STRING (CONTAINING RRCReconfiguration),

 eutra-SCG-r16 OCTET STRING

 } OPTIONAL, -- Need M

 nonCriticalExtension SEQUENCE{} OPTIONAL

}

**Question 3:** Do you agree with the changes for *MRDC-SecondaryCellGroupConfig* in *RRCReconfiguration* and *mrdc-SecondaryCellGroup-r16* in *RRCResume* as proposed by #H233?

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| **Company** | **Agree/Disagree** | **Additional comments** |
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## RIL #I675

Issue #I675 is related to the *availableCombToAddModList-r16*, *availableCombToReleaseList-r16* and *iabDuCellId-AI-r16* which were introduced in the context of IAB. The description of the issue is shown below.

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| **RIL #** | **Description** | **Proposed Change** |
| I675 | There seems to be few issues with this addMod and Release list. 1) We normally have an index in the list and use it in the release list. CellID doesn’t look like an index 2) the list size for the addMod and Release are different – should be the same normally 3) In the IE definition of IAB-DU-CellID-AI-r16, abDuCellId-AI-r16 can directly refet to CellIdentity (i.e., there is no need to define IAB-DU-CellID-AI-r16) | Add an index to the list AvailabilityCombinationsPerCell-r16 and refer to it here. Change the size of the addMod and Release list to the same size. In the IE definition of IAB-DU-CellID-AI-r16, update as follows: iabDuCellId-AI-r16 CellIdentity |

AvailabilityIndicator-r16 ::= SEQUENCE {

 ai-RNTI-r16 AI-RNTI-r16,

 dci-PayloadSize-AI-r16 INTEGER (1..maxAI-DCI-PayloadSize-r16),

 availableCombToAddModList-r16 SEQUENCE (SIZE(1..maxNrofAssociatedDUCellsPerMT-r16)) OF AvailabilityCombinationsPerCell-r16 OPTIONAL, -- Need FFS

 availableCombToReleaseList-r16 SEQUENCE (SIZE(1..maxNrofDUCells-r16)) OF CellIdentity OPTIONAL, -- Need FFS

 ...

}

AI-RNTI-r16 ::= RNTI-Value

AvailabilityCombinationsPerCell-r16 ::= SEQUENCE {

 iabDuCellId-AI-r16 IAB-DU-CellID-AI-r16,

 positionInDCI-AI-r16 INTEGER(0..maxAI-DCI-PayloadSize-r16-1) OPTIONAL, -- Need FFS (M)

 availabilityCombinations-r16 SEQUENCE (SIZE (1..maxNrofAvailabilityCombinationsPerSet-r16)) OF AvailabilityCombination-r16,

 ...

}

AvailabilityCombination-r16 ::= SEQUENCE {

 availabilityCombinationId-r16 AvailabilityCombinationId-r16,

 resourceAvailability-r16 SEQUENCE (SIZE (1..maxNrofResourceAvailabilityPerCombination-r16)) OF INTEGER (0..7)

}

IAB-DU-CellID-AI-r16 ::= CellIdentity

AvailabilityCombinationId-r16 ::= INTEGER (0..maxNrofAvailabilityCombinationsPerSet-r16-1)

**Question 4:** Do you agree with the changes for *availableCombToAddModList-r16*, *availableCombToReleaseList-r16* and *iabDuCellId-AI-r16* as proposed by #I675?

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| **Company** | **Agree/Disagree** | **Additional comments** |
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## RIL #H199

Issue #H199 is related to the description of the condition *AsyncCA* in *MeasGapConfig* that was introduced in the context of DCCA. The description of the issue is shown below.

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| **RIL #** | **Description** | **Proposed Change** |
| H199 | The statement it is unclear what the following statement exactly refers to "when configuring FR2 gap pattern to UE in (NG)EN-DC / NR SA with asynchronous CA involving FR2 carrier(s) , and NE-DC / NR-DC with asynchronous CA involving FR2 carrier(s))". In our understanding,"if the field" (not IE) "refServCellIndicator is set to mcg-FR2" is sufficient. Also, need code is missing in case of absence. | 1) Remove " when configuring FR2 gap pattern to UE in (NG)EN-DC / NR SA with asynchronous CA involving FR2 carrier(s), and NE-DC / NR-DC with asynchronous CA involving FR2 carrier(s)" 2) change "IE" to "the field" 3) add ",Need R" after "absent". |

MeasGapConfig ::= SEQUENCE {

 gapFR2 SetupRelease { GapConfig } OPTIONAL, -- Need M

 ...,

 [[

 gapFR1 SetupRelease { GapConfig } OPTIONAL, -- Need M

 gapUE SetupRelease { GapConfig } OPTIONAL -- Need M

 ]]

}

GapConfig ::= SEQUENCE {

 gapOffset INTEGER (0..159),

 mgl ENUMERATED {ms1dot5, ms3, ms3dot5, ms4, ms5dot5, ms6},

 mgrp ENUMERATED {ms20, ms40, ms80, ms160},

 mgta ENUMERATED {ms0, ms0dot25, ms0dot5},

 ...,

 [[

 refServCellIndicator ENUMERATED {pCell, pSCell, mcg-FR2} OPTIONAL -- Cond NEDCorNRDC

 ]],

 [[

 refFR2ServCellAsyncCA-r16 ServCellIndex OPTIONAL -- Cond AsyncCA

 ]]

}

| ***MeasGapConfig* field descriptions** |
| --- |
| ***refFR2ServCellIAsyncCA***Indicates the FR2 serving cell identifier whose SFN and subframe is used for FR2 gap calculation for this gap pattern with asynchronous CA involving FR2 carrier(s). |

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| **Conditional Presence** | **Explanation** |
| *AsyncCA* | This field is mandatory present when configuring FR2 gap pattern to UE in (NG)EN-DC / NR SA with asynchronous CA involving FR2 carrier(s), and NE-DC / NR-DC with asynchronous CA involving FR2 carrier(s) if IE *refServCellIndicator* is set to *mcg-FR2*. Otherwise, it is absent. |

**Question 5:** Do you agree with the changes for the description of the condition *AsyncCA* in *MeasGapConfig* as proposed by #H199?

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| **Company** | **Agree/Disagree** | **Additional comments** |
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## RIL #I644

Issue #I644 is related to the field *monitoringCapabilityConfig-r16* in *PDCCH-Config* that was introduced in the context of URLLC. The description of the issue is shown below.

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| **RIL #** | **Description** | **Proposed Change** |
| I644 | Need code missing | Add need code considering possibility to release the configuration. |

PDCCH-Config ::= SEQUENCE {

 controlResourceSetToAddModList SEQUENCE(SIZE (1..3)) OF ControlResourceSet OPTIONAL, -- Need N

 controlResourceSetToReleaseList SEQUENCE(SIZE (1..3)) OF ControlResourceSetId OPTIONAL, -- Need N

 searchSpacesToAddModList SEQUENCE(SIZE (1..10)) OF SearchSpace OPTIONAL, -- Need N

 searchSpacesToReleaseList SEQUENCE(SIZE (1..10)) OF SearchSpaceId OPTIONAL, -- Need N

 downlinkPreemption SetupRelease { DownlinkPreemption } OPTIONAL, -- Need M

 tpc-PUSCH SetupRelease { PUSCH-TPC-CommandConfig } OPTIONAL, -- Need M

 tpc-PUCCH SetupRelease { PUCCH-TPC-CommandConfig } OPTIONAL, -- Need M

 tpc-SRS SetupRelease { SRS-TPC-CommandConfig} OPTIONAL, -- Need M

 ...,

 [[

 controlResourceSetToAddModList-r16 SEQUENCE (SIZE (1..5)) OF ControlResourceSet OPTIONAL, -- Need N

 controlResourceSetToReleaseList-r16 SEQUENCE (SIZE (1..5)) OF ControlResourceSetId-r16 OPTIONAL, -- Need N

 searchSpacesToAddModList-r16 SEQUENCE(SIZE (1..10)) OF SearchSpace-v16xy OPTIONAL, -- Need N

 searchSpaceSwitchingTimer-r16 INTEGER (1..ffsValue) OPTIONAL, -- Need R

 searchSpaceSwitchingGroupList-r16 SEQUENCE(SIZE (1..ffsValue)) OF SearchSpaceSwitchingGroup-r16 OPTIONAL, -- Need R

 uplinkCancellation-r16 SetupRelease { UplinkCancellation-r16 } OPTIONAL, -- Need M

 monitoringCapabilityConfig-r16 ENUMERATED { r15monitoringcapability,r16monitoringcapability } OPTIONAL

 ]]

}

**Question 6:** Which need code should be defined for field *monitoringCapabilityConfig-r16* in *PDCCH-Config*?

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| **Company** | **Need code (N/R/M)** | **Additional comments** |
| Ericsson | M | Need R is also fine. The field value *r15monitoringcapability* is equivalent to that the Rel-16 feature is not configured, and so it seems okay to have need M.  |
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## RIL #B002, I654, I653

Issues #B002, I654, I653 are related to the IE *DL-AM-RLC-v16xy* in *RLC-Config* that was introduced in the context of IIOT. The description of the issues is shown below.

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| **RIL #** | **Description** | **Proposed Change** |
| B002 | New values are introduced by t-StatusProhibitExt-r16 which are not overlapping with the legacy ones in t-StatusProhibit. In such case there is no need to introduce them by t-StatusProhibitExt-r16. Instead they can be introduced as Rel-16 NCE of t-StatusProhibit. Furthermore, there is no stringent need to have extension marker in DL-AM-RLC-v16xy. | Replace “Ext-r16” by “-v16xy” and remove extension marker as shown below. DL-AM-RLC-v16xy ::= SEQUENCE { t-StatusProhibit-v16xy T-StatusProhibit-v16xy OPTIONAL -- Need N} |
| I654 | DL-AM-RLC-v16xy is not used anywhere and is an orphan. | Update where it is to be used. |
| I653 | Looks like a configuration parameter that is stored. Hence should be Need M/R. Difficult to say which one without understanding how the IE is used but the extension marker and field description implies it should be possible to release this field independently and hence Need R might be more appropriate. See also comment I654. | Change Need code to M/R. |

RLC-Config ::= CHOICE {

 am SEQUENCE {

 ul-AM-RLC UL-AM-RLC,

 dl-AM-RLC DL-AM-RLC

 },

 um-Bi-Directional SEQUENCE {

 ul-UM-RLC UL-UM-RLC,

 dl-UM-RLC DL-UM-RLC

 },

 um-Uni-Directional-UL SEQUENCE {

 ul-UM-RLC UL-UM-RLC

 },

 um-Uni-Directional-DL SEQUENCE {

 dl-UM-RLC DL-UM-RLC

 },

 ...

}

DL-AM-RLC ::= SEQUENCE {

 sn-FieldLength SN-FieldLengthAM OPTIONAL, -- Cond Reestab

 t-Reassembly T-Reassembly,

 t-StatusProhibit T-StatusProhibit

}

T-StatusProhibit ::= ENUMERATED {

 ms0, ms5, ms10, ms15, ms20, ms25, ms30, ms35,

 ms40, ms45, ms50, ms55, ms60, ms65, ms70,

 ms75, ms80, ms85, ms90, ms95, ms100, ms105,

 ms110, ms115, ms120, ms125, ms130, ms135,

 ms140, ms145, ms150, ms155, ms160, ms165,

 ms170, ms175, ms180, ms185, ms190, ms195,

 ms200, ms205, ms210, ms215, ms220, ms225,

 ms230, ms235, ms240, ms245, ms250, ms300,

 ms350, ms400, ms450, ms500, ms800, ms1000,

 ms1200, ms1600, ms2000, ms2400, spare2, spare1}

DL-AM-RLC-v16xy ::= SEQUENCE {

 t-StatusProhibitExt-r16 T-StatusProhibitExt-r16 OPTIONAL, -- Need N

 ...

}

T-StatusProhibitExt-r16 ::= ENUMERATED { ms1, ms2, ms3, ms4, spare4, spare3, spare2, spare1}

| ***RLC-Config* field descriptions** |
| --- |
| ***t-StatusProhibit***Timer for status reporting in TS 38.322 [4], in milliseconds. Value *ms0* means 0 ms, value *ms5* means 5 ms and so on. |
| ***t-StatusProhibitExt***Timer for status reporting in TS 38.322 [4], in milliseconds. Value *ms1* means 1 ms, value *ms2* means 2 ms and so on. If this field is present, the field *t-StatusProhibit* is ignored and *t-StatusProhibitExt* is used instead. |

**Question 7:** Do you agree with the changes for IE *DL-AM-RLC-v16xy* in *RLC-Config* as proposed by #B002, I654, I653?

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| **Company** | **Agree/Disagree** | **Additional comments** |
| Ericsson | B002: AgreeI654, I653: Agree | On B002: A critical extension should be avoided. Here the comment is more on the naming such as the use of “Ext” and “-r16” versus “-v16”. We prefer an aligned approach throughout the RRC spec on how to deal with these extensions. In that regard, we agree with the suggestion. On I653: It seems it should be Need R. The Rel-15 version of *t-StatusProhibit* is mandatory and so if the rel-16 version is present, it would override the rel-15 version. If we use need “M”, then it seems no way to configure back to a Rel-15 version value.  |
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## RIL #M004

Issue #M004 is related to the timer *t316-r16* in *RLF-TimersAndConstants* that was introduced in the context of DCCA. The description of the issue is shown below.

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| **RIL #** | **Description** | **Proposed Change** |
| M004 | For the timer T316 configuration, need code Need N is used. Need N means one-shot configuration field that is not stored and whose presence causes a one-time action by the UE. Value for timer T316 is not such parameter. | Change to “Need M” |

-- ASN1START

-- TAG-RLF-TIMERSANDCONSTANTS-START

RLF-TimersAndConstants ::= SEQUENCE {

 t310 ENUMERATED {ms0, ms50, ms100, ms200, ms500, ms1000, ms2000, ms4000, ms6000},

 n310 ENUMERATED {n1, n2, n3, n4, n6, n8, n10, n20},

 n311 ENUMERATED {n1, n2, n3, n4, n5, n6, n8, n10},

 ...,

 [[

 t311 ENUMERATED {ms1000, ms3000, ms5000, ms10000, ms15000, ms20000, ms30000}

 ]],

 [[

 t316-r16 SetupRelease {T316-r16 } OPTIONAL -- Cond MCG-Only

 ]]

}

T316-r16 ::= ENUMERATED {ms50, ms100, ms200, ms300, ms400, ms500, m600, ms1000, ms1500, ms2000}

-- TAG-RLF-TIMERSANDCONSTANTS-STOP

-- ASN1STOP

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| **Conditional Presence** | **Explanation** |
| *MCG-Only* | This field is optionally present, Need N, in the *RLF-TimersAndConstants* of the MCG, if the UE is configured with split SRB1 or SRB3. It is absent otherwise.  |

**Question 8:** Should the need code for field *t316-r16* in *RLF-TimersAndConstants* be changed to “Need M” as proposed by #M004?

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| **Company** | **Agree/Disagree** | **Additional comments** |
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## RIL #S206

Issue #S206 is related to the IE *SchedulingRequestResourceConfig-v16xy* in *SchedulingRequestResourceConfig* that was introduced in the context of IIOT. The description of the issue is shown below.

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| **RIL #** | **Description** | **Proposed Change** |
| S206 | SchedulingRequestResourceConfig-v16xy is defined but not used anywhere. | schedulingRequestResourceToAddModList-v16xy should be added in PUCCH-Config |

SchedulingRequestResourceConfig ::= SEQUENCE {

 schedulingRequestResourceId SchedulingRequestResourceId,

 schedulingRequestID SchedulingRequestId,

 periodicityAndOffset CHOICE {

 sym2 NULL,

 sym6or7 NULL,

 sl1 NULL, -- Recurs in every slot

 sl2 INTEGER (0..1),

 sl4 INTEGER (0..3),

 sl5 INTEGER (0..4),

 sl8 INTEGER (0..7),

 sl10 INTEGER (0..9),

 sl16 INTEGER (0..15),

 sl20 INTEGER (0..19),

 sl40 INTEGER (0..39),

 sl80 INTEGER (0..79),

 sl160 INTEGER (0..159),

 sl320 INTEGER (0..319),

 sl640 INTEGER (0..639)

 } OPTIONAL, -- Need M

 resource PUCCH-ResourceId OPTIONAL -- Need M

}

SchedulingRequestResourceConfig-v16xy ::= SEQUENCE {

 phy-PriorityIndex-r16 ENUMERATED {p0, p1} OPTIONAL, -- Need M

 ...

}

**Question 9:** Should IE *SchedulingRequestResourceConfig-v16xy* in *SchedulingRequestResourceConfig* be added in IE *PUCCH-Config* as proposed by #S206?

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| **Company** | **Agree/Disagree** | **Additional comments** |
| Ericsson | Agree |  |
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## RIL #Z016

Issue #Z016 is related to the field *enableConfiguredUL-r16* in *SlotFormatCombinationsPerCell* that was introduced in the context of NR-U. The description of the issue is shown below.

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| --- | --- | --- |
| **RIL #** | **Description** | **Proposed Change** |
| Z016 | field description is missing for the field enableConfiguredUL | Add field description. E.g: If configured, UE is allowed to transmit UL signals(SRS, PUCCH, CG-PUSCH) in the set of symbols of the slot which is configured for transmission of UL signals. |

SlotFormatCombinationsPerCell ::= SEQUENCE {

 servingCellId ServCellIndex,

 subcarrierSpacing SubcarrierSpacing,

 subcarrierSpacing2 SubcarrierSpacing OPTIONAL, -- Need R

 slotFormatCombinations SEQUENCE (SIZE (1..maxNrofSlotFormatCombinationsPerSet)) OF SlotFormatCombination OPTIONAL, -- Need M

 positionInDCI INTEGER(0..maxSFI-DCI-PayloadSize-1) OPTIONAL, -- Need M

 ...,

 [[

 enableConfiguredUL-r16 ENUMERATED {enabled} OPTIONAL -- Need N

 ]]

}

**Question 10:** Should a field description for *enableConfiguredUL-r16* in *SlotFormatCombinationsPerCell* be added as proposed by #Z016?

|  |  |  |
| --- | --- | --- |
| **Company** | **Agree/Disagree** | **Additional comments** |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |

# Conclusion

xxx

# Reference

[1] R2-2003309, TS 38.331 Rel-16 ASN.1 review file, phase 1, Ericsson

[2] R2-2003310, RIL list TS 38.331 Rel-16 ASN.1 review file, phase 1, Ericsson