**3GPP TSG-RAN WG2#109bis eMeeting *Tdoc*** ⌘***R2-20xxxx***

**Online, 20th- 30th April 2020**

**Agenda Item: 7.0.1**

**Souce: Samsung**

**Title: [AT109e][066][R16] R16 LTE RRC coordination (Samsung)**

**Document for: Discussion and decision**

# Introduction

This document is the report of the following email discussion:

 [AT109bis-e][204][LTE ASN1] LTE general ASN.1 discussion (Samsung)

Scope:

  General ASN.1 issue discussion covering AI 7.0.1 according to ASN.1 review issue list.

  Flagging issues for discussion during the LTE ASN.1 web conference session(s) via email before the session(s)

      Intended outcome:

  Discussion summary document in [R2-2003843](https://protect2.fireeye.com/url?k=63c0fd8d-3e12ea84-63c176c2-0cc47a31cdf8-8ae5ddcae40afa8b&q=1&u=https%3A%2F%2Fwww.3gpp.org%2Fftp%2FTSG_RAN%2FWG2_RL2%2FTSGR2_109bis-e%2FDocs%2FR2-2003843.zip), detailing the proposals for ASN.1 issue resolution (including ASN.1 changes).

  Combined CR with the agreed changes on general ASN.1 for LTE

      Deadline for providing comments and for rapporteur inputs:

  Flagging review issues for discussion in the 1st ASN.1 session: Tuesday Apr. 21st, 8:00 UTC

  Flagging review issues for discussion in the 2nd ASN.1 session: Monday Apr. 27th, 8:00 UTC

  Initial deadline (for rapporteur's summary in [R2-2003843](https://protect2.fireeye.com/url?k=65bbd46b-3869c362-65ba5f24-0cc47a31cdf8-181649ad7af34fda&q=1&u=https%3A%2F%2Fwww.3gpp.org%2Fftp%2FTSG_RAN%2FWG2_RL2%2FTSGR2_109bis-e%2FDocs%2FR2-20038xx.zip)):  Friday 2020-04-24 08:00 UTC

  Proposed agreements in [R2-2003843](https://protect2.fireeye.com/url?k=4cadd19f-117fc696-4cac5ad0-0cc47a31cdf8-76d06eb9b353b249&q=1&u=https%3A%2F%2Fwww.3gpp.org%2Fftp%2FTSG_RAN%2FWG2_RL2%2FTSGR2_109bis-e%2FDocs%2FR2-20038xx.zip) indicated for email agreement and not challenged until Tuesday 2020-04-28 12:00 UTC will be declared as agreed by the session chair.

Status: Not yet started (to be done Monday Apr. 20th)

Some further clarification regarding the scope and time plan:

* This e-mail concerns the general issues i.e. of **class 2 type**
* This e-mail also captures the flagging of **class 3 issues for WIs other than NB-IoT and eMTC**
* We will have 2 parts
  + **Part 1 (deadline Thu 23 Apr 12.00 UCT)**: main intention is to determine the issues requiring further discussion. Companies are requested to use the **flagging** procedure (see below) if they have a concern regarding the way forward for issues marked as PropAgree, PropReject, PropNoAct, PropTDoc
    - Note that for PropTDoc, I will assume assigned company will distribute TDoc by deadline of part 2
  + **Part 2 (deadline Thu 27 Apr 8.00 UCT)**: Discussion of the way forward for issues with status DiscMail (possibly after flagging)
    - So far we just have 2: N016, H114

Flagging procedure (as announced by Hakan)

* If a company has concerns with the proposed way forward, flag the concerned RIL by sending a mail to the relevant session chairman, the rapporteurs (Håkan/ Himke) and cc 3GPP RAN2 mail list
* The following format should be used for the mail
  + Subject field: **[LTE Rel-16] 36331 RIL FLAGGING: <RIL-id>**
  + Mail body: Please provide the reason for flagging

# Discussion

## Overview of class 2 issues to be resolved within scope of this e-mail

The following table provides a number of more general ASN.1 review issues for LTE RRC R16 that are to be progressed as part of this RAN2 e-mail [AT109bis-e][204][LTE ASN1] LTE general ASN.1 discussion. The table will be updated in accordance with flagging by companies.

|  |  |  |  |
| --- | --- | --- | --- |
| No | Company | Remarks | Status |
| N016 | NA | Class 2 issue with status DiscMail | DiscMail |
| H114 | NA | Class 2 issue with status DiscMail | DiscMail |
| H162 | Qualcomm | Do not agree with PropAgree. See comment in the ASN.1 review file | DiscMail |
| H163 | Qualcomm | Do not agree with PropAgree. Same as H162 | DiscMail |
| N010 | Qualcomm | Not convinced by the argument about not having Need OR on higher level due to extension marker overhead, based on understanding that if any of the following highlighted Need OR parameters is to be included, then the extension overhead is already included. | DiscMail |
| H157 | Qualcomm | Suggest to change to class 3. Assumption is that a bullet 2> will be inserted in 5.3.3.4 prior to ‘except for NB-IoT’. The exact wording for that new part may need some polishing by eMTC folks, it is better handled in eMTC ASN.1 session | DiscMail |
| N011 | Nokia | Disagree with conclusion: If the outer field name encodes information, it is better captured in the file description of the contained field. It’s not good to create unnecessary SEQUENCEs for this purpose | DiscMail |
| S005 | NA | Leftover issues from R2-2003231 | DiscMail |
| S003 | NA | Leftover issues from R2-2003231 | DiscMail |
| S006 | NA | Leftover issues from R2-2003231 | DiscMail |
| B002 | OPPO | We do not agree with rapporteur PropAgree. As mentioned in details in [204], the inter-RAT sidelink measurement configuration and report framework needs to be considered as a whole | DiscMail |

**Tab. 1**: General protocol issues to be progressed by eMail

|  |  |  |  |
| --- | --- | --- | --- |
| No | Company | Remarks | Status |
| H136 | Qualcomm | Disagree with rapp’s suggestion to reject. Agree with suggested change by Huawei | Minutes: ConcAgree i.e. no suffix from R15 |
| H140 | Qualcomm | Same as H136 | As above |
| H148 | Huawei | We do not agree with rapporteur PropReject we think this should be discussed in NB-IOT specific session | Minutes: change to class 3, discMeet |
| H115 | Huawei | We do not agree with rapporteur PropTdoc. We propose to change to PropNoAct  This should be captured by the eMTC RRC CR rapporteur based on the RAN1 spreadsheet in email discussion [AT109bis-e][408][eMTC] 36.331 CR | Minutes: ConcAgree, class 3 (develop TP and capture in MTC CR) |
| Z256 | Qualcomm | Editorial suggestion compared to suggested change: both OPTIONAL need to be deleted as well from the fields, and in conditional presence, add optional before need ON | Conclusion: proposed way forward remains unchanged, but add optional in condition i.e. Otherwise, it is optional need ON. |
| B003 | Qualcomm | Unclear what “as suggested” means. Does that include suggested in comment v17 as the status was given in v18 | Conclusion: proposed way forward remains unchanged. Clarification added that all spares will be listed explicitly |
|  |  |  |  |
|  |  |  |  |

**Tab. 2**: General protocol issues flagged but not requiring further discussion

## Overview of flagged class 3 issues of other WIs other than NB-IoT and eMTC

|  |  |  |  |
| --- | --- | --- | --- |
| No | Company | Remarks | Status |
|  |  |  |  |

**Tab. 3**: WI specific issues flagged but to be resolved within WI specific session

## Discussion of class 2 issues

### N016

Issue is illustrated below

GWUS-TimeParameters-r16 ::= SEQUENCE {

maxDurationFactor-r16 ENUMERATED {one32th, one16th, one8th, one4th},

numPOs-r16 ENUMERATED {n1, n2, n4, spare1} DEFAULT n1,

timeOffsetDRX-r16 ENUMERATED {ms40, ms80, ms160, ms240},

timeOffset-eDRX-Short-r16 ENUMERATED {ms40, ms80, ms160, ms240},

timeOffset-eDRX-Long-r16 ENUMERATED {ms1000, ms2000} OPTIONAL, -- Need OP

...

}

GWUS-ResourcePerGapConfig-r16 ::= SEQUENCE {

gwus-ResourceMappingPattern-r16 GWUS-ResourceMappingPattern-r16,

gwus-NumGroupsList-r16 SEQUENCE (SIZE (1..maxGWUS-Resources-r16)) OF GWUS-NumGroups-r16 OPTIONAL, -- Need OP

gwus-GroupsForServiceList-r16 SEQUENCE (SIZE (1..maxGWUS-ProbThresholds-r16)) OF INTEGER (1..maxGWUS-Groups-1-r16) OPTIONAL -- Need OR

}

Further comments/ suggestions can be added below.

|  |  |
| --- | --- |
| Source | Comments/ suggestions |
| Rap | There was mistake in my original comment i.e. not missing:  Seems preferable to be consistent across GWUS IEs (rather than with WUS), and generally prefer to NOT have the prefix in field names (clear from context).  It should be no problem to adopt this principle even though there are cases deviating from this in previous releases |
|  |  |

**Tab. 4**: Other general issues

**Proposed conclusion N Bla**

### H114

Issue is illustrated below

TA-ValidationConfig-r16 ::= SEQUENCE {

pur-TimeAlignmentTimer-r16 CHOICE {

release NULL,

setup ENUMERATED {sXX, sYY, ffs}

} OPTIONAL, --Need ON

pur-RSRP-ChangeThreshold-r16 CHOICE {

release NULL ,

setup SEQUENCE {

rsrp-IncreaseThresh-r16 RSRP-ChangeThresh-r16,

rsrp-DecreaseThresh-r16 RSRP-ChangeThresh-r16 OPTIONAL --Need OP

}

} OPTIONAL --Need ON

}

Further comments/ suggestions can be added below.

|  |  |
| --- | --- |
| Source | Comments/ suggestions |
| Rap | S007 is covered by R2-2003820 that merely suggests that delta signalling should be used only for fields which size exceeds 1 octet  Anyhow, it seems appropriate to use need OR for pur-TimeAlignmentTimer  The individual subfields of pur-RSRP-ChangeThreshold are also small, so simplest would be to just have 2 need OR fields also |
|  |  |

**Tab. 5**: Other general issues

**Proposed conclusion N Bla**

### H162

Issue is illustrated below

PhysicalConfigDedicated ::= SEQUENCE {

-- Irrelevant parts omitted

...,

-- Irrelevant parts omitted

[[ pdsch-ConfigDedicated-v16xy PDSCH-ConfigDedicated-v16xy OPTIONAL, -- Need ON

-- Irrelevant parts omitted

PDSCH-ConfigDedicated-v16xy ::= SEQUENCE {

ce-PDSCH-MultiTB-AllocConfig-r16 CHOICE {

release NULL,

setup SEQUENCE {

ce-PDSCH-MultiTB-Interleaving-r16 ENUMERATED {on} OPTIONAL, -- Need OR

ce-PDSCH-MultiTB-HARQ-Bundling-r16 ENUMERATED {on} OPTIONAL -- Need OR

}

}

}

Further comments/ suggestions can be added below.

|  |  |
| --- | --- |
| Source | Comments/ suggestions |
| Qualcomm | Do not agree with PropAgree. See comment in the ASN.1 review file |
| Rap | If indeed it’s possible to configure multiTB without signalling any configuration parameters (i.e. no interleaving and harq bundling), current ASN.1 seems appropriate. Assuming this is the case, suggestion is to revert to PropReject.  BTW: If there are companies having a different understanding, the issue should be changed to class 3 |
|  |  |

**Tab. 6**: Other general issues

**Proposed conclusion N Bla**

### H163

Issue is illustrated below

PhysicalConfigDedicated ::= SEQUENCE {

-- Irrelevant parts omitted

...,

-- Irrelevant parts omitted

[[ pdsch-ConfigDedicated-v16xy PDSCH-ConfigDedicated-v16xy OPTIONAL, -- Need ON

pusch-ConfigDedicated-v16xy PUSCH-ConfigDedicated-v16xy OPTIONAL, -- Need ON

-- Irrelevant parts omitted

PUSCH-ConfigDedicated-v16xy ::= SEQUENCE {

ce-PUSCH-MultiTB-AllocConfig-r16 CHOICE {

release NULL,

setup SEQUENCE {

ce-PUSCH-MultiTB-Interleaving-r16 ENUMERATED {on} OPTIONAL -- Need OR

}

}

}

Further comments/ suggestions can be added below.

|  |  |
| --- | --- |
| Source | Comments/ suggestions |
| Qualcomm | Do not agree with PropAgree. Same as H162 |
| Rap | Similar to H162 i.e. if indeed it’s possible to configure multiTB without signalling any configuration parameters (i.e. no interleaving), current ASN.1 seems appropriate. Assuming this is the case, suggestion is to revert to PropReject.  BTW: If there some companies have different understanding, issue should be changed to class 3 |
|  |  |

**Tab. 7**: Other general issues

**Proposed conclusion N Bla**

### N010

Issue is illustrated below

PhysicalConfigDedicated ::= SEQUENCE {

-- Irrelevant parts omitted

...,

-- Irrelevant parts omitted

[[ pdsch-ConfigDedicated-v16xy PDSCH-ConfigDedicated-v16xy OPTIONAL, -- Need ON

pusch-ConfigDedicated-v16xy PUSCH-ConfigDedicated-v16xy OPTIONAL, -- Need ON

-- Irrelevant parts omitted

PUSCH-ConfigDedicated-v16xy ::= SEQUENCE {

ce-PUSCH-MultiTB-AllocConfig-r16 CHOICE {

release NULL,

setup SEQUENCE {

ce-PUSCH-MultiTB-Interleaving-r16 ENUMERATED {on} OPTIONAL -- Need OR

}

}

}

Further comments/ suggestions can be added below.

|  |  |
| --- | --- |
| Source | Comments/ suggestions |
| Qualcomm | Not convinced by the argument about not having Need OR on higher level due to extension marker overhead, because there are just too many existing fields already with need OR, so the likelihood of needing to include only this r16 new field and none of the other in the extension groups is very low. My understanding is if any of the following highlighted Need OR parameters is to be included, then the extension overhead is already included. May be I am missing something and if so could you kindly elaborate?  However, if the conclusion is to add optionality for the lower level field just so that it is encoded, then it should be Enumerated {true} Need OR, instead of Boolean mandatory because otherwise the field description needs to be updated to say when set to TRUE (and there is no meaning of FALSE) |
| Rap | We understand that each Extension Addition Group that is signalled (i.e. extensions in between set of quare brackets) will cost at least 2 octets, so need OR should be avoided. Default approach for such fields is to use BOOLEAN with need M  [[     allowInterruptions-r11           BOOLEAN                    OPTIONAL      -- Need ON |
| Qualcomm2 | After further checking, we agree there is such overhead and that it is good to avoid that. For consistency with field description and earlier HS fields, we prefer to stick to using Enum {true} with Need R while adding additional level with optional, need N like below  [[          highSpeedConfigSCell-v16xy          HighSpeedConfigSCell-v16xy     OPTIONAL -- Need ON~~OR~~      ]]   HighSpeedConfigSCell-v16xy ::=  SEQUENCE {      highSpeedEnhMeasFlagSCell-r16       ENUMERATED {true} OPTIONAL -- Need OR  } |

**Tab. 8**: Other general issues

**Proposed conclusion N Bla**

### H157

Issue is illustrated below

|  |
| --- |
| ***lte-M***  Indicates the UE is category M. This field is included only when the UE is connected to 5GC. |

Further comments/ suggestions can be added below.

|  |  |
| --- | --- |
| Source | Comments/ suggestions |
| Qualcomm | Understanding is that proposal is to introduce new bullet 2 in 5.3.3.4 as shown below.  The UE shall:  <<skip>>  1>  set the content of *RRCConnectionSetup**Complete* message as follows:  <<skip>>  2> if the UE is connected to EPC:  -- Irrelevant parts omitted  2> <<insert somewhere here “else” (i.e., UE is connected to 5GC) and UE is a cat M UE then include lte-M indication>>  2> except for NB-IoT:  We think the exact wording for the statement above is best handled within eMTC folks |
| Rap | Seems fine to conclude in same manner as for H115 i.e. ConcAgree, class 3 (develop TP and capture in MTC CR) |
|  |  |

**Tab. X**: Other general issues

**Proposed conclusion N Bla**

### N011

Issue is illustrated below

SystemInformationBlockType1-v16xy-IEs ::= SEQUENCE {

eDRX-Allowed-5GC-r16 ENUMERATED {true} OPTIONAL, -- Need OR

bandwidthReducedAccessRelatedInfo-v16xy SEQUENCE {

transmissionInControlChRegion-r16 ENUMERATED {true} OPTIONAL -- Need OR

} OPTIONAL, -- Cond BW-reduced

plmn-IdentityList-v16xy PLMN-IdentityList-v16xy OPTIONAL, -- Need OR

nonCriticalExtension SEQUENCE {} OPTIONAL

}

Further comments/ suggestions can be added below.

|  |  |
| --- | --- |
| Source | Comments/ suggestions |
| Nokia | Disagree with conclusion: If the outer field name encodes information, it is better captured in the file description of the contained field. It’s not good to create unnecessary SEQUENCEs for this purpose |
| Rap | Alike indicated by QC, I assume it’s good to clarify this is an extension of the set of parameters introduced in –r13 i.e. as shown below i.e. will only be signalled if original set is present  SystemInformationBlockType1-v1310-IEs ::= SEQUENCE {  -- Irrelevant parts omitted  bandwidthReducedAccessRelatedInfo-r13 SEQUENCE {  si-WindowLength-BR-r13 ENUMERATED {  I however think that we have a convention that if the extension is done within the same ASN.1 section, it is not required to replicate the original ASN.1 structure. Hence I’m also fine to merely add statement in field descrition indicating that transmissionInControlChRegion concerns extension of bandwidthReducedAccessRelatedInfo and update condition to reflect that it is included only if original field is present |
|  |  |

**Tab. X**: Other general issues

**Proposed conclusion N Bla**

### S005

Issue is illustrated below

The *SidelinkUEInformationNR* message is used for the indication of NR sidelink information to the eNB.

Signalling radio bearer: SRB1

SidelinkUEInformationNR-r16-IEs::= SEQUENCE {

sidelinkUEInformationNR-r16 OCTET STRING,

lateNonCriticalExtension OCTET STRING OPTIONAL,

nonCriticalExtension SEQUENCE {} OPTIONAL

}

-- ASN1STOP

| ***SidelinkUEInformationNR* field descriptions** |
| --- |
| ***sidelinkUEInformationNR***  Container for the indication of NR sidelink information, this field includes the *SidelinkUEInformationNR* IE as specified in TS 38.331 [82]. |

Alternative suggested during R2#109bis

During the meeting it was clarified that the NR signalling carried within the container is not passed transparently but that eNB actually needs to decode the concerned information. Correspondingly, using a transparent transfer message seems not appropriate. It seems more appropriate to re-use the SidelinkUEInformation message and add a container for NR information as shown below. It is noted that all fields in SidelinkUEInformation are optional i.e. this approach seems feasible.

SidelinkUEInformation-v1530-IEs ::= SEQUENCE {

reliabilityInfoListSL-r15 SL-ReliabilityList-r15 OPTIONAL,

nonCriticalExtension SidelinkUEInformation-v16xy-IEs OPTIONAL

}

SidelinkUEInformation-v16xy-IEs ::= SEQUENCE {

sidelinkUEInformationNR-r16 OCTET STRING,

nonCriticalExtension SEQUENCE {} OPTIONAL

}

Further comments/ suggestions can be added below.

|  |  |
| --- | --- |
| Source | Comments/ suggestions |
|  |  |
|  |  |

**Tab. X**: Other general issues

**Proposed conclusion N Bla**

### S003

Issue is illustrated below

The *UEAssistanceInformationNR* message is used for the indication of UE assistance information to the eNB.

Signalling radio bearer: SRB1

UEAssistanceInformationNR-r16-IEs ::= SEQUENCE {

configuredGrantAssistanceInfo-r16 OCTET STRING OPTIONAL,

nonCriticalExtension SEQUENCE {} OPTIONAL

}

-- ASN1STOP

| ***UEAssistanceInformationNR* field descriptions** |
| --- |
| ***configuredGrantAssitanceInfo***  Container for the indication of traffic characteristic of sidelink logical channel(s) that are setup for NR sidelink communication. The content is *SL-UE-AssistanceInformationNR* IE as specified in TS 38.331 [82]. |

Alternative suggested during R2#109bis

For SL-UE-AssistanceInformationNR the situation seems same i.e. that the NR signalling carried within the container is not passed transparently but that eNB actually needs to decode the concerned information. Correspondingly, using a transparent transfer message seems not appropriate. It seems more appropriate to re-use the UEAssistanceInformation message/ procedure by adding a container for NR information as shown below.

UEAssistanceInformation-v1450-IEs ::= SEQUENCE {

overheatingAssistance-r14 OverheatingAssistance-r14 OPTIONAL,

nonCriticalExtension UEAssistanceInformation-v1530-IEs OPTIONAL

}

UEAssistanceInformation-v1530-IEs ::= SEQUENCE {

sps-AssistanceInformation-v1530 SEQUENCE {

trafficPatternInfoListSL-v1530 TrafficPatternInfoList-v1530

} OPTIONAL,

nonCriticalExtension UEAssistanceInformation-v16xy-IEs OPTIONAL

}

UEAssistanceInformation-v16xy-IEs ::= SEQUENCE {

configuredGrantAssistanceInfoNR-r16 OCTET STRING OPTIONAL,

nonCriticalExtension SEQUENCE {} OPTIONAL

}

It is noted that the configuration is already handled by LTE signalling, as shown below

OtherConfig-r9 ::= SEQUENCE {

reportProximityConfig-r9 ReportProximityConfig-r9 OPTIONAL, -- Need ON

...,

-- Irrelevant parts omitted

[[ configurdGrantAssistanceInfoReport-r16 BOOLEAN OPTIONAL -- Need ON

]]

Further comments/ suggestions can be added below.

|  |  |
| --- | --- |
| Source | Comments/ suggestions |
|  |  |
|  |  |
|  |  |

**Tab. X**: Other general issues

**Proposed conclusion N Bla**

### S006

Issue is illustrated below

ULInformationTransfer-r8-IEs ::= SEQUENCE {

dedicatedInfoType CHOICE {

dedicatedInfoNAS DedicatedInfoNAS,

dedicatedInfoCDMA2000-1XRTT DedicatedInfoCDMA2000,

dedicatedInfoCDMA2000-HRPD DedicatedInfoCDMA2000

},

nonCriticalExtension ULInformationTransfer-v8a0-IEs OPTIONAL

}

ULInformationTransfer-v8a0-IEs ::= SEQUENCE {

lateNonCriticalExtension OCTET STRING OPTIONAL,

nonCriticalExtension SEQUENCE {} OPTIONAL

}

ULInformationTransfer-r16-IEs ::= SEQUENCE {

dedicatedInfoType-r16 CHOICE {

dedicatedInfoNAS-r16 DedicatedInfoNAS,

dedicatedInfoCDMA2000-1XRTT-r16 DedicatedInfoCDMA2000,

dedicatedInfoCDMA2000-HRPD-r16 DedicatedInfoCDMA2000

} OPTIONAL, -- Need ON

dedicatedInfoF1AP-r16 DedicatedInfoF1AP-r16 OPTIONAL, -- Need ON

nonCriticalExtension ULInformationTransfer-v8a0-IEs OPTIONAL

}

Further comments/ suggestions can be added below.

|  |  |
| --- | --- |
| Source | Comments/ suggestions |
| Samsung | R2-2003231 includes the following proposal:  Add the F1AP information by non-critical extension of the a regular critical extension of the ULInformationTransfer message i.e. stating that when F1AP information is included, dedicatedInfoType contents is invalid and to be ignored by the network |
|  |  |
|  |  |

**Tab. X**: Other general issues

**Proposed conclusion N Bla**

### B002, S046

Issues are illustrated below

eventS1-r16 SEQUENCE {

s1-Threshold-r16 OCTET STRING

},

eventS2-r16 SEQUENCE {

s2-Threshold-r16 OCTET STRING

}

|  |
| --- |
| ***s1-Threshold, s2-Threshold***  Threshold used for events s1 and s2 specified in subclauses 5.5.4.18 and 5.5.4.19, respectively. They are containers with contents being *c1-Threshold* IE and *c2-Threshold* IE respectively, as specified in TS 38.331 [82]. |

We note that for S046 status was set to DiscMeet. It however is of similar nature as e.g. S005. Hence it seems best to conclude these together.

Alternative proposed by OPPO

It seems OPPO has paper proposing an alternative approach in R2-2002626/7/8, that can be summarised as follows:

* Configuration
  + The entire measurement configuration is specified by NR signalling i.e. in LTE an octet string is introduced carrying an NR IE
  + More specifically, the proposal is to add a field sl-MeasConfig in the LTE Reconfiguration message that is an octet string containing the NR IE MeasConfig
* Reporting
  + The measurement report is specified entirely by NR signalling i.e. in LTE an octet string is used carrying the NR message
  + The proposal is to re-use the same transfer option as used in MRDC i.e. ULInformationTransferMRDC, carrying an NR MeasurementReport message

We understand that same approach of adding fields containing NR IEs seems proposed for other fields e.g. OtherConfig i.e. as related to S003.

|  |  |
| --- | --- |
| Source | Comments/ suggestions |
| OPPO | We do not agree with rapporteur PropAgree. As mentioned in details in [204], the inter-RAT sidelink measurement configuration and report framework needs to be considered as a whole.  [Description]: For inter-RAT CBR measurement configuration and reporting,, e.g., for the UE camped on Uu RAT-1, is configured to perform measurement on PC5 RAT-2 – we have two alternatives:  • Alt-1 (adopted by the running CR): Similar to Uu interface B-series measurement, i.e., UE camped on Uu RAT-1 to perform measurement on Uu RAT-2, via configuration / report via messages defined based on RAT-1, another series of measurement can be defined, in order for UE camped on Uu RAT-1 to perform measurement on PC5 RAT-2, via configuration / report via messages defined based on RAT-1.  • Alt-2: Similar to the introduction of ULInformationTransferMRDC, which is used for UE camped on Uu RAT-1 to perform measurement on Uu RAT-2, via configuration / report via messages defined based on RAT-2, included in ULInformationTransferMRDC as a container. Please note that by using this method, the impact to UE internal variable (e.g., VarMeasConfig) is also avoided.  Considering the ASN.1 impact from Alt-1, Alt-2 is more preferred, due to the avoidance of ASN.1 impact. And according to the running CR, even in Alt-1, one needs to rely on container to carry LTE RRC configuration on resource pool for measurement configuration and threshold configuration.  [Proposed Change]: 1. Rely on container-based method for inter-RAT PC5-related measurement / report configuration, and 2. Report inter-RAT PC5-related measurement result in ULInformationTransferMRDC message.  We bring a discussion paper and draft-CRs for that R2-2002626/2627/2628See TDoc |
|  |  |
|  |  |

**Tab. X**: Other general issues

**Proposed conclusion N Bla**

### XX

Issue is illustrated below

Extract

Further comments/ suggestions can be added below.

|  |  |
| --- | --- |
| Source | Comments/ suggestions |
| Qualcomm |  |
| Rap |  |
|  |  |

**Tab. X**: Other general issues

**Proposed conclusion N Bla**

# Conclusion & recommendation

This document includes a report of [AT109e][066][R16] R16 LTE RRC coordination. The main aim of this effort is to collect general issues and possibly some initial feedback while further discussion and conclusion is expected to be done alongside the upcoming review in preparation for ASN.1 freeze of R16.

# References

[1] R2-2003234 ASN.1 Review file (LTE, Word) Samsung

[2] R2-2003827 ASN.1 Review RIL (LTE, Excel) Samsung