**ö3GPP TSG-RAN2#AH-1801 *Tdoc R2-18xxxxx***

**Vancouver, Canada, 22-26 Jan 2018**

**Agenda Item: x.y**

**Source: Ericsson**

**Title: Review issue list for TS 38.331 EN-DC ASN.1 freeze**

**Version: 0.0**

**Document for: Discussion and decision**

# Introduction

This document provides an overview of list of issues resulting from the review of the PDU specification and related procedure text and field descriptions.

For some issues the proposed solution is indicated as well as the company & Tdoc introducing this in the standard. For some of the issues this document includes further considerations. The following companies volunteered for the review.

“ID” identifies the company, and consists of “X” (<letter>), as “E” for Ericsson.

|  |  |  |  |  |
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# Instructions for RIL and CR storage

RIL and Editorial CR is stored in <ftp://ftp.3gpp.org/Email_Discussions/RAN2/>.

Companies are requested to provide their review comments and change proposals directly in the stored documents (see Classification below). Companies are encouraged to continuously introduce their comments/changes in the RILs/CR, e.g. when one area have been reviewed (and not provide all comments together on the last day).

When storing the documents after providing updates, companies should **add their Company ID** (**one letter**, see section 1) to the file name.

Companies are encouraged to try to resolve collisions. Also the Rapporteur will take an active role in this (and storage/merging problems can be discussed via email). In future reviews, we can potentially use more sophisticated tools.

# Instructions for RIL

**Issue Number (I-No)**

All issues should be numbered in a format Xyyy where

* X is the unique ID (<letter>) assigned to each company, see the table in clause 1.
* yyy is a running number starting from 001, i.e. 001, 002, …. 999.
* Ex: “E103”.

To avoid duplicated I-No numbers, companies may use the table very last in this document.

**Description**

Describe the issue in a few words.

**Classification (Class):**

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| Class 1 | Straigthforward clarification/correction will not be included in RIL but company will directly include in “Minor corrections CR”. This can include small things like addition of need codes (as long as relatively straightforward) |
| Class 2 | Small issue i.e. solution requires some discussion but possible to concluded as part of ASN.1 review. Within column Details in the RIL, the company raising the issue is invited to suggest a proposed way forward, that other companies review and if not agreeable may suggest alternatives for. |
| Class 3 | More significant issue, i.e. requiring more extensive analysis by a contribution. Class 3 issues are within the scope of the ASN.1 review (i.e. does not concern more functional aspects). Companies are requested to volunteer for drafting a contribution (CR).  A contribution may address multiple issues, but these should be clearly marked. |
| Class 4 | Issue of type 4 are like type 3, with the exception that the issue is not only adressing ASN.1 aspects but also more functional aspects. Companies are still invited to draft a contribution, but this would be treated in the agenda item covering the concerned related functionality. |

Companies are requested to provide contribution details, to have an overview of the status (in particular regarding which issues are not covered).

**Details (proposed solution/ discussion)**

Mainly relevant for issues of class 2, the cell is intended to discuss/ agree the proposed way forward. The company raising the issue is invited to suggest a proposed way forward, that other companies review and if not agreeable may suggest alternatives for.

Companies are encouraged to descripe solutions in the same manner as they correct issues in CRs, i.e. propose changes that are shown in the same manner using change marks.

It is therefore suggested to use “**simulated change marks**” for the issue reporting, i.e.

* Added parts are marked with underlined red coloured text, e.g. new text .
* Deleted parts are marked with strikethough red coloured text, e.g. ~~delated text.~~
* If there is a need to high-light something by marking text with a colour, e.g. to high-light small changes, it is recommended that yellow colour is used, e.g. spelling error.
* Reason for these “simulated change marks” is to alow for more easy moving/copy/paste without loosing the changes.

Companies are encouraged to comment issues introduced by other companies, both on agreeing or objecting. These comments shall be **tagged with the company name** for easy search. E.g. “Ericsson: We agree”.

**Status/Ref (to be filled in by the Rapporteur)**

Status of the issue, in particular:

Class 2: indicate FFS if no (confirmed) way forward yet

Class 3: indicate company planning to bring a contribution

Class 4: same as 3, but also indicate agenda item

(coding/coloring TBD)

# Conclusion & recommendation

This paper includes a of list of issues resulting from the review of [1]. RAN2 is requested to endorse the status including the solutions proposed.

# References

[1] TS 38.331 RRC specification

# Review issue list (Annex)

#### Foreword

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#### 1 Scope

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#### 2 References

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#### 3 Definitions, symbols and abbreviations

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| I-No | Description | Class | Details (proposed solution/ discussion) | Status/ ref |
| L001 | This version defines the “Special Cell” in section 3.1 and the SpCell refers to the Special Cell. However, we think that it is redundant definition, and it is enough to define SpCell in 3.2 as what RAN2 agreed at #100 meeting. Also we need to descrive a definition of “PSCell”. Lastly, we don’t have strong view on this, “Pcell” can be defined as the SpCell of the MN. | 2 | In 3.1 section, **~~Special Cell:~~** ~~For Dual Connectivity operation the term Special Cell refers to the PCell of the MCG or the PSCell of the SCG, otherwise the term Special Cell refers to the PCell.~~  In 3.2 section,  Pcell ~~Primary Cell~~ the SpCell of the MN  PSCell SpCell of a secondary cell group  SpCell ~~Special Cell~~ primary cell of a master and a secondary cell group |  |
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#### 3.1 Definitions

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#### 3.2 Abbreviations

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#### 4 General

#### 4.1 Introduction

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#### 4.2 Architecture

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#### 4.2.1 UE states and state transitions including inter RAT

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| I-No | Description | Class | Details (proposed solution/ discussion) | Status/ ref |
| L002 | From a UE perspepctive, RRC\_INACTIVE does not have RRC connection between UE and the eNB, and RAN2 define RRC\_INACTIVE as a new RRC state in NR. | 2 | A UE is either in RRC\_CONNECTED state ~~or in RRC\_INACTIVE state~~ when an RRC connection has been established or transits to RRC\_INACTIVE state by network configuration from RRC\_CONNECTED state. |  |
| L003 | Periodic RAN-based notification area update should be added. | 2 | - Performs RAN-based notification area updates when moving outside the RAN-based notification area or periodically; |  |
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#### 4.2.2 Signalling radio bearers

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#### 4.3 Services

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#### 4.3.1 Services provided to upper layers

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#### 4.3.2 Services expected from lower layers

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#### 4.4 Functions

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#### 5 Procedures

#### 5.1 General

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#### 5.1.1 Introduction

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#### 5.1.2 General requirements

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#### 5.2 System information

Only MIB acquisition applicable for EN-DC.

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#### 5.3 Connection control

#### 5.3.1 Introduction

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#### 5.3.2 Paging

Targeted for completion in June 2018.

#### 5.3.3 RRC connection establihshment

Targeted for completion in June 2018.

#### 5.3.4 Initial security activation

Targeted for completion in June 2018.

#### 5.3.5 RRC reconfiguration

#### 5.3.5.1 General

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#### 5.3.5.2 Initiation

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| I-No | Description | Class | Details (proposed solution/ discussion) | Status/ ref |
| L004 | It seems proper to unify the terminology in whould specification (e.g. EN-DC mode 🡪 EN-DC, EUTRA 🡪 E-UTRA)  Since the second bullet describes a joint configuration, using ‘SRB1’ is not incorrect. But it seems better to use a more generic expression like E-UTRA MCG rather than SRB1 which is configured in LTE RRC. | 2 | 1> if the UE is operating in EN-DC ~~mode~~ (MCG is E-UTRA):  2> if *RRCReconfiguration* was received via ~~SRB1~~E-UTRA MCG:  3> construct *RRCReconfigurationComplete* message and submit it via the E-UTRA MCG as specified in TS 36.331 [10].  3> if *reconfigurationWithSync* was included in *spCellConfig* of an SCG:  4> initiate the random access procedure on the SpCell, as specified in TS 38.321 [3];  2> else (*RRCReconfiguration* was received via SRB3):  3> submit the *RRCReconfigurationComplete* message via SRB3 to lower layers for transmission using the new configuration; |  |
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#### 5.3.5.3 Reception of an RRCReconfiguration by the UE

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#### 5.3.5.4 Secondary cell group release

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| I-No | Description | Class | Details (proposed solution/ discussion) | Status/ ref |
| L005 | For now, RAN2 assumes only one SCG but the procedure text was written based on the multiple SCG. ‘entire’ can cause a misreading. | 2 | 1> for each CellGroupId in the *SecondaryCellGroupToReleaseList* or as a result of SCG release triggered by E-UTRA:  2> reset SCG MAC, if configured;  2> for each RLC bearer that is part of the SCG configuration:  3> perform RLC bearer release procedure as specified in 5.3.5.5.3;  2> release the ~~entire~~ SCG configuration; |  |
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#### 5.3.5.5 Cell Group configuration

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#### 5.3.5.5.1 General

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| I-No | Description | Class | Details (proposed solution/ discussion) | Status/ ref |
| L006 | During the reconfiguration with Sync, bearer suspension is not performed. | 2 | 1> if the received *CellGroupConfig* contains the *spCellConfig* with *reconfigurationWithSync*:  2> perform Reconfiguration with sync according to 5.3.5.5.2;  ~~2> resume all suspended radio bearers and resume SCG transmission for all radio bearers, if suspended;~~  1> if the *CellGroupConfig* contains the *rlc-BearerToReleaseList*:  2> perform RLC bearer release as specified in 5.3.5.5.3; |  |
| L007 | The result does not depend on the order of execution. But it seems to be desirable to perform Pcell configuration firstly and perform Scell configuration. | 2 | 1> if the *CellGroupConfig* contains the spCellConfig:  2> configure the SpCell as specified in 5.3.5.5.7;  1> if the *CellGroupConfig* contains the *sCellToReleaseList*:  2> for each entry in the *sCellToReleaseList*:  3> release the SCell as specified in 5.3.5.5.8;  ~~1> if the~~ *~~CellGroupConfig~~* ~~contains the spCellConfig:~~  ~~2> configure the SpCell as specified in 5.3.5.5.7;~~ |  |
| L008 | Similar sentences are located in two different places for the same meaning. The redundant sentences could be removed. | 2 | 1> if the *CellGroupConfig* contains the *sCellToReleaseList*:  2> release the SCell as specified in 5.3.5.5.8;  …  1> if the *CellGroupConfig* contains the *sCellToAddModList*:  2> add or modify the SCell as specified in 5.3.5.5.9; |  |

#### 5.3.5.5.2 Reconfiguration with synch

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| I-No | Description | Class | Details (proposed solution/ discussion) | Status/ ref |
| L009 | Since S5.3.5.5.2 is used commonly regardless of cell group, it is better to confine the range of cell groups to which procedure text applies. | 2 | 1> configure lower layers in accordance with the received s*pCellConfigCommon* for this cell group;  1> configure lower layers in accordance with any additional fields, not covered in the previous, if included in the received *reconfigurationWithSync* for this cell group; |  |
| L010 | T312 is not agreed yet. It is better to add the sentence mentioning “FFS: whether to support T312 for early RLF declaration” | 2 | The UE shall perform the following actions to execute a reconfiguration with sync.  Editor’s Note: Master cell group config is not supported for EN-DC. FFS how to capture  Editor’s Note: It is FFS whether to support T312 for early RLF declaration  1> if the *cellGroupId* of the *CellGroupConfig* triggering the reconfiguration with sync is 0 (master cell group):  2> stop timer T310, if running;  2> stop timer T312, if running; |  |
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#### 5.3.5.5.3 Logical Channel release

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| I-No | Description | Class | Details (proposed solution/ discussion) | Status/ ref |
| L011 | For one logical channel ID, only one RLC bearer is associated. So, the ‘or entities’ shold be removed. | 2 | 1> for each *LogicalChannelIdentity* value that is to be released as the result of full configuration option according to 5.3.5.7 or as the result of an SCG release according to 5.3.5.4:  2> release the RLC entity (includes discarding all pending RLC PDUs and RLC SDUs);  2> release the DTCH logical channel. |  |
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#### 5.3.5.5.4 Logical Channel addition/modification

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#### 5.3.5.5.5 MAC entity configuration

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#### 5.3.5.5.6 RLF Timers & Constants configuration

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#### 5.3.5.5.7 SpCell Configuration

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#### 5.3.5.5.8 SCell Release

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| I-No | Description | Class | Details (proposed solution/ discussion) | Status/ ref |
| L012 | In EN-DC, re-establishment of SCG does not exist, and if an intention of this procedure text is for the case when re-establishment in MCG initiates, it is sufficient to perform the SCG release specified in 5.3.5.4. | 2 | ~~1> if the release is triggered by RRC connection re-establishment:~~  ~~2> release all SCells that are part of the current UE configuration;~~ |  |
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#### 5.3.5.5.9 SCell Addition/Modification

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#### 5.3.5.6 Radio Bearer configuration

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#### 5.3.5.6.1 General

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#### 5.3.5.6.2 SRB release

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#### 5.3.5.6.3 SRB addition/ modification

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| --- | --- | --- | --- | --- |
| I-No | Description | Class | Details (proposed solution/ discussion) | Status/ ref |
| L022 | In EN-DC, the *pdcp-Config* for SRB is accompanied by SRB establishment or reconfiguration from E-UTRA PDCP to NR PDCP. Thus, there is no need a bullet for the case *pdcp-Config* is included. | 2 | The UE shall:  1> for each *srb-Identity* value included in the *srb-ToAddModList* that is not part of the current UE configuration or configured with *pdcp-Config* (SRB establishment or reconfiguration from E-UTRA PDCP to NR PDCP):  2> establish a PDCP entity and configure it in accordance with the received *pdcp-Config*;  2> configure the PDCP entity with the security algorithms according to *securityConfig* and apply the keys (KUPenc) associated with the KeNB/S-KgNB as indicated in *keyToUse*, if applicable;  2> if the current UE configuration as specified in TS 36.331 includes an SRB identified with the same *srb-Identity* value:  3> associate the E-UTRA RLC and DCCH entities of this SRB with the NR PDCP entity;  3> release the E-UTRA PDCP entity of this SRB;  2> else:  3> apply the corresponding default configuration for the SRB as specified in 9.2.1;  1> for each *srb-Identity* value included in the *srb-ToAddModList* that is part of the current UE configuration and configured with *pdcp-Config*:  2> if *reestablishPDCP* is set: |  |
| L013 | In our understanding, PDCP reestablishment of SRB does not accompanied with SRB suspenstion. | 2 | 3> re-establish the PDCP entity of this SRB as specified in 38.323;  ~~3> resume the SRB, if suspended;~~ |  |
|  |  |  |  |  |
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#### 5.3.5.6.4 DRB release

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| I-No | Description | Class | Details (proposed solution/ discussion) | Status/ ref |
| L014 | Since "DRB addition" is performed after "DRB release", it is not known whether a new bearer is added while in DRB release. | 2 | ~~1> if new bearer is not added with same~~ *~~eps-BearerIdentity~~*~~:~~  1~~2~~> if the procedure was triggered due to handover:  2~~3~~> indicate the release of the DRB(s) and the *eps-BearerIdentity* of the released DRB(s) to upper layers after successful handover;  ~~12~~> else:  2~~3~~> indicate the release of the DRB(s) and the *eps-BearerIdentity* of the released DRB(s) to upper layers immediately; |  |
|  |  |  |  |  |
|  |  |  |  |  |
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#### 5.3.5.6.5 DRB addition/ modification

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| I-No | Description | Class | Details (proposed solution/ discussion) | Status/ ref |
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#### 5.3.5.7 Full configuration

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| I-No | Description | Class | Details (proposed solution/ discussion) | Status/ ref |
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#### 5.3.5.8 Security key update

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| --- | --- | --- | --- | --- |
| I-No | Description | Class | Details (proposed solution/ discussion) | Status/ ref |
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#### 5.3.5.9 Reconfiguration failure

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| --- | --- | --- | --- | --- |
| I-No | Description | Class | Details (proposed solution/ discussion) | Status/ ref |
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|  |  |  |  |  |

#### 5.3.5.9.1 Integrity check failure

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| --- | --- | --- | --- | --- |
| I-No | Description | Class | Details (proposed solution/ discussion) | Status/ ref |
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#### 5.3.5.9.2 Inability to comply with RRCReconfiguration

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| I-No | Description | Class | Details (proposed solution/ discussion) | Status/ ref |
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#### 5.3.5.9.3 T304 expiry (Reconfiguration with synch Failure)

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| --- | --- | --- | --- | --- |
| I-No | Description | Class | Details (proposed solution/ discussion) | Status/ ref |
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#### 5.3.6 Counter check

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| --- | --- | --- | --- | --- |
| I-No | Description | Class | Details (proposed solution/ discussion) | Status/ ref |
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|  |  |  |  |  |

#### 5.3.7 RRC connection re-establishment

Targeted for completion in June 2018.

#### 5.3.8 RRC connection release

Targeted for completion in June 2018.

#### 5.3.9 RRC connection release requested by upper layers

Targeted for completion in June 2018.

#### 5.3.10 Radio resource configuration

Targeted for completion in June 2018.

#### 5.3.11 Radio link failure related actions

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| I-No | Description | Class | Details (proposed solution/ discussion) | Status/ ref |
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#### i5.3.11.1 Detection of physical layer problems in RRC\_CONNECTED

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| --- | --- | --- | --- | --- |
| I-No | Description | Class | Details (proposed solution/ discussion) | Status/ ref |
|  |  |  |  |  |
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|  |  |  |  |  |

#### 5.3.11.2 Recovery of physical layer problems

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| I-No | Description | Class | Details (proposed solution/ discussion) | Status/ ref |
|  |  |  |  |  |
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|  |  |  |  |  |

#### 5.3.11.3 Detection of radio link failure

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| --- | --- | --- | --- | --- |
| I-No | Description | Class | Details (proposed solution/ discussion) | Status/ ref |
|  |  |  |  |  |
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|  |  |  |  |  |
|  |  |  |  |  |

#### 5.3.12 UE actions upon leaving RRC\_CONNECTED

Targeted for completion in June 2018.

#### 5.3.13 UE actions upon PUCCH/SRS release request

Targeted for completion in June 2018.

#### 5.4 Inter-RAT mobility

Targeted for completion in June 2018.

#### 5.5 Measurements

#### 5.5.1 Introduction

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| I-No | Description | Class | Details (proposed solution/ discussion) | Status/ ref |
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#### 5.5.2 Measurement configuration

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| --- | --- | --- | --- | --- |
| I-No | Description | Class | Details (proposed solution/ discussion) | Status/ ref |
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#### 5.5.2.1 General

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| --- | --- | --- | --- | --- |
| I-No | Description | Class | Details (proposed solution/ discussion) | Status/ ref |
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|  |  |  |  |  |
|  |  |  |  |  |

#### 5.5.2.2 Measurement identity removal

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| --- | --- | --- | --- | --- |
| I-No | Description | Class | Details (proposed solution/ discussion) | Status/ ref |
|  |  |  |  |  |
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|  |  |  |  |  |

#### 5.5.2.3 Measurement identity addition/ modification

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| --- | --- | --- | --- | --- |
| I-No | Description | Class | Details (proposed solution/ discussion) | Status/ ref |
|  |  |  |  |  |
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|  |  |  |  |  |

#### 5.5.2.4 Measurement object removal

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| I-No | Description | Class | Details (proposed solution/ discussion) | Status/ ref |
|  |  |  |  |  |
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#### 5.5.2.5 Measurement object addition/ modification

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| I-No | Description | Class | Details (proposed solution/ discussion) | Status/ ref |
|  |  |  |  |  |
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#### 5.5.2.6 Reporting configuration removal

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| I-No | Description | Class | Details (proposed solution/ discussion) | Status/ ref |
|  |  |  |  |  |
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#### 5.5.2.7 Reporting configuration addition/ modification

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| I-No | Description | Class | Details (proposed solution/ discussion) | Status/ ref |
|  |  |  |  |  |
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#### 5.5.2.8 Quantity configuration

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| I-No | Description | Class | Details (proposed solution/ discussion) | Status/ ref |
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|  |  |  |  |  |

#### 5.5.2.9 Measurement gap configuration

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| I-No | Description | Class | Details (proposed solution/ discussion) | Status/ ref |
|  |  |  |  |  |
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|  |  |  |  |  |
|  |  |  |  |  |

#### 5.5.2.10 Reference signal measurement timing configuration

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| I-No | Description | Class | Details (proposed solution/ discussion) | Status/ ref |
|  |  |  |  |  |
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|  |  |  |  |  |
|  |  |  |  |  |

#### 5.5.3 Performing measurements

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| I-No | Description | Class | Details (proposed solution/ discussion) | Status/ ref |
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|  |  |  |  |  |
|  |  |  |  |  |

#### 5.5.3.1 General

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| I-No | Description | Class | Details (proposed solution/ discussion) | Status/ ref |
|  |  |  |  |  |
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|  |  |  |  |  |
|  |  |  |  |  |

#### 5.5.3.2 Layer 3 filtering

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| I-No | Description | Class | Details (proposed solution/ discussion) | Status/ ref |
|  |  |  |  |  |
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|  |  |  |  |  |
|  |  |  |  |  |

#### 5.5.3.3 Derivation of measurement results

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| I-No | Description | Class | Details (proposed solution/ discussion) | Status/ ref |
|  |  |  |  |  |
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|  |  |  |  |  |
|  |  |  |  |  |

#### 5.5.4 Measurement report triggering

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| I-No | Description | Class | Details (proposed solution/ discussion) | Status/ ref |
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|  |  |  |  |  |

#### 5.5.4.1 General

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| I-No | Description | Class | Details (proposed solution/ discussion) | Status/ ref |
|  |  |  |  |  |
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|  |  |  |  |  |
|  |  |  |  |  |

#### 5.5.4.2 Event A1 (Serving becomes better than threshold)

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| I-No | Description | Class | Details (proposed solution/ discussion) | Status/ ref |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |

#### 5.5.4.3 Event A2 (Serving becomes worse than threshold)

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| I-No | Description | Class | Details (proposed solution/ discussion) | Status/ ref |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |

#### 5.5.4.4 Event A3 (Neighbour becomes offset better than PCell/ PSCell)

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| I-No | Description | Class | Details (proposed solution/ discussion) | Status/ ref |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |

#### 5.5.4.5 Event A4 (Neighbour becomes better than threshold)

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| I-No | Description | Class | Details (proposed solution/ discussion) | Status/ ref |
|  |  |  |  |  |
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|  |  |  |  |  |
|  |  |  |  |  |

#### 5.5.4.6 Event A5 (PCell/ PSCell becomes worse than threshold1 and neighbour becomes better than threshold2)

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| I-No | Description | Class | Details (proposed solution/ discussion) | Status/ ref |
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|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |

#### 5.5.4.7 Event A6 (Neighbour becomes offset better than SCell)

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| I-No | Description | Class | Details (proposed solution/ discussion) | Status/ ref |
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#### 5.5.5 Measurement reporting

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| I-No | Description | Class | Details (proposed solution/ discussion) | Status/ ref |
|  |  |  |  |  |
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|  |  |  |  |  |
|  |  |  |  |  |

#### 5.5.5.1 Reporting of beam measurement information

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| I-No | Description | Class | Details (proposed solution/ discussion) | Status/ ref |
|  |  |  |  |  |
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|  |  |  |  |  |

#### 5.6 UE capabilities

#### 5.6.1 UE capability transfer

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| I-No | Description | Class | Details (proposed solution/ discussion) | Status/ ref |
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|  |  |  |  |  |
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#### 5.7 Other

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| I-No | Description | Class | Details (proposed solution/ discussion) | Status/ ref |
|  |  |  |  |  |
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|  |  |  |  |  |
|  |  |  |  |  |

#### 5.7.1 DL information transfer

Targeted for completion in June 2018.

#### 5.7.2 UL information transfer

Targeted for completion in June 2018.

#### 5.7.3 SCG failure information

#### 5.7.3.1 General

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| I-No | Description | Class | Details (proposed solution/ discussion) | Status/ ref |
|  |  |  |  |  |
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|  |  |  |  |  |

#### 5.7.3.2 Initiation

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| I-No | Description | Class | Details (proposed solution/ discussion) | Status/ ref |
| L015 | It seems to be enough to say “include …in accordance with TS38.331” as in current LTE RRC in order to avoid describe all the interaction between LTE RRC and NR RRC. | 2 | 1> if the UE is operating in EN-DC:  2> determine the failure type in accordance with subclause 5.7.3.3;  2> set the contents of *FailureReportSCG-ToOtherRAT* in accordance with subclause 5.7.3.4;  2> initiate transmission of the SCGFailureInformation message as specified in TS 36.331 [10, 5.6.13.3]; |  |
| L016 | In some cases,T304 is not necessary. | 2 | 1> suspend SCG transmission for all SRBs and DRBs;  1> reset SCG-MAC;  1> stop T304, if running; |  |
|  |  |  |  |  |
|  |  |  |  |  |

#### 5.7.3.3 Failure type determination

|  |  |  |  |  |
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| I-No | Description | Class | Details (proposed solution/ discussion) | Status/ ref |
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#### 5.7.3.4 Setting the contents of FailureReportSCGtoOtherRAT

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| --- | --- | --- | --- | --- |
| I-No | Description | Class | Details (proposed solution/ discussion) | Status/ ref |
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#### 6 Protocol data units, formats and parameters (ASN.1)

#### 6.1 General

#### 6.1.1 Introduction

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| I-No | Description | Class | Details (proposed solution/ discussion) | Status/ ref |
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#### 6.1.2 Need codes for optional downlink fields

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| --- | --- | --- | --- | --- |
| I-No | Description | Class | Details (proposed solution/ discussion) | Status/ ref |
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#### 6.2 RRC messages

#### 6.2.1 General message structure

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| --- | --- | --- | --- | --- |
| I-No | Description | Class | Details (proposed solution/ discussion) | Status/ ref |
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#### – NR-RRC-Definitions

#### – BCCH-BCH-Message

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| I-No | Description | Class | Details (proposed solution/ discussion) | Status/ ref |
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#### – DL-DCCH-Message

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| --- | --- | --- | --- | --- |
| I-No | Description | Class | Details (proposed solution/ discussion) | Status/ ref |
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#### – UL-DCCH-Message

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| --- | --- | --- | --- | --- |
| I-No | Description | Class | Details (proposed solution/ discussion) | Status/ ref |
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#### 6.2.2 Message definitions

#### – MIB

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| --- | --- | --- | --- | --- |
| I-No | Description | Class | Details (proposed solution/ discussion) | Status/ ref |
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#### – MeasurementReport

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| I-No | Description | Class | Details (proposed solution/ discussion) | Status/ ref |
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#### – RRCReconfiguration

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| --- | --- | --- | --- | --- |
| I-No | Description | Class | Details (proposed solution/ discussion) | Status/ ref |
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#### – RRCReconfigurationComplete

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| --- | --- | --- | --- | --- |
| I-No | Description | Class | Details (proposed solution/ discussion) | Status/ ref |
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#### – SIB1

#### 6.3 RRC information elements

#### – SetupRelease Information Element

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| I-No | Description | Class | Details (proposed solution/ discussion) | Status/ ref |
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|  |  |  |  |  |
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#### 6.3.1 System information blocks

#### 6.3.2 Radio resource control information elements

#### – *Alpha*

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| I-No | Description | Class | Details (proposed solution/ discussion) | Status/ ref |
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#### – DRB-Identity

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| I-No | Description | Class | Details (proposed solution/ discussion) | Status/ ref |
|  |  |  |  |  |
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#### – BandwidthPart-Config

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| I-No | Description | Class | Details (proposed solution/ discussion) | Status/ ref |
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|  |  |  |  |  |
|  |  |  |  |  |

#### – CellGroupConfig

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| I-No | Description | Class | Details (proposed solution/ discussion) | Status/ ref |
| L017 | In order to indicate MCG, Cell Grould ID should start from 0. | 2 | CellGroupId ::= INTEGER (~~1~~0.. maxSCellGroups) |  |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |

#### – CellIndexList

|  |  |  |  |  |
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| I-No | Description | Class | Details (proposed solution/ discussion) | Status/ ref |
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#### – ControlResourceIndex

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| I-No | Description | Class | Details (proposed solution/ discussion) | Status/ ref |
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#### – CrossCarrierSchedulingConfig

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| I-No | Description | Class | Details (proposed solution/ discussion) | Status/ ref |
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#### – CSI-MeasConfig

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| I-No | Description | Class | Details (proposed solution/ discussion) | Status/ ref |
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#### – FailureReportSCGtoOtherRAT

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| I-No | Description | Class | Details (proposed solution/ discussion) | Status/ ref |
| L018 | Serving cell results may not be available so that measResultServingCell should be optional. This is aligned with LTE.  In addition, measurement results for neighbor cells may not be available as well so that the relevant field should be optional. | 2 | FailureReportSCG-ToOtherRAT ::= SEQUENCE {  failureType ENUMERATED { t313-Expiry, randomAccessProblem,  rlc-MaxNumRetx, maxUL-TimingDiff,  scg-ChangeFailure, scg-reconfigFailure,  srb3-IntegrityFailure},  measResultServingFreqList MeasResultServFreqList2NR OPTIONAL,  measResultNeighCells MeasResultList2NR OPTIONAL,  ...  }  MeasResultServFreq2NR ::= SEQUENCE {  carrierFreq ARFCN-ValueNR,  measResultServingCell MeasResultNR OPTIONAL,  measResultBestNeighServingCell MeasResultNR OPTIONAL  } |  |
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#### – FrequencyInfoDL

#### – FrequencyInfoUL

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| I-No | Description | Class | Details (proposed solution/ discussion) | Status/ ref |
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#### – LogicalChannelConfig

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| I-No | Description | Class | Details (proposed solution/ discussion) | Status/ ref |
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#### – MAC-CellGroupConfig

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| I-No | Description | Class | Details (proposed solution/ discussion) | Status/ ref |
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#### – MeasConfig

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| I-No | Description | Class | Details (proposed solution/ discussion) | Status/ ref |
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#### – MeasId

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| I-No | Description | Class | Details (proposed solution/ discussion) | Status/ ref |
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#### – MeasIdToAddModList

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| I-No | Description | Class | Details (proposed solution/ discussion) | Status/ ref |
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#### – MeasObjectEUTRA

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| I-No | Description | Class | Details (proposed solution/ discussion) | Status/ ref |
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#### – MeasObjectId

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| I-No | Description | Class | Details (proposed solution/ discussion) | Status/ ref |
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#### – MeasObjectNR

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| I-No | Description | Class | Details (proposed solution/ discussion) | Status/ ref |
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#### – MeasObjectToAddModList

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| --- | --- | --- | --- | --- |
| I-No | Description | Class | Details (proposed solution/ discussion) | Status/ ref |
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#### – MeasResults

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| I-No | Description | Class | Details (proposed solution/ discussion) | Status/ ref |
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#### – PDCCH-Config

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| I-No | Description | Class | Details (proposed solution/ discussion) | Status/ ref |
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#### – PDCP-Config

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#### – PDSCH-Config

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| I-No | Description | Class | Details (proposed solution/ discussion) | Status/ ref |
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#### – PhysCellId

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| I-No | Description | Class | Details (proposed solution/ discussion) | Status/ ref |
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#### – PUCCH-Config

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| I-No | Description | Class | Details (proposed solution/ discussion) | Status/ ref |
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#### – PUSCH-Config

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#### – Q-OffsetRange

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| I-No | Description | Class | Details (proposed solution/ discussion) | Status/ ref |
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#### – QuantityConfig

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| I-No | Description | Class | Details (proposed solution/ discussion) | Status/ ref |
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#### – RACH-ConfigCommon

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| I-No | Description | Class | Details (proposed solution/ discussion) | Status/ ref |
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#### – RACH-ConfigDedicated

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| I-No | Description | Class | Details (proposed solution/ discussion) | Status/ ref |
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#### – RadioBearerConfig

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| I-No | Description | Class | Details (proposed solution/ discussion) | Status/ ref |
| L019 | *pdcp-Config* can be configured in DRB as well as SRB. | 1 | *PDCP*  The field is mandatory present if the corresponding ~~DRB~~RB is being setup or reconfigured with NR PDCP; otherwise the field is optionally present, need M |  |
| L020 | Need to describe the condition of “NGC”. | 2 |  |  |
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#### – ReportConfigId

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| I-No | Description | Class | Details (proposed solution/ discussion) | Status/ ref |
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#### – ReportConfigNR

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| I-No | Description | Class | Details (proposed solution/ discussion) | Status/ ref |
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#### – ReportConfigToAddModList

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| I-No | Description | Class | Details (proposed solution/ discussion) | Status/ ref |
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#### – RLC-Config

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| I-No | Description | Class | Details (proposed solution/ discussion) | Status/ ref |
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#### – RLF-TimersAndConstants

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| I-No | Description | Class | Details (proposed solution/ discussion) | Status/ ref |
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#### – SCellIndex

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| I-No | Description | Class | Details (proposed solution/ discussion) | Status/ ref |
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#### – SchedulingRequest-Config

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| I-No | Description | Class | Details (proposed solution/ discussion) | Status/ ref |
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#### – SchedulingRequestResource-Config

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| I-No | Description | Class | Details (proposed solution/ discussion) | Status/ ref |
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#### – SDAP-Config

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| I-No | Description | Class | Details (proposed solution/ discussion) | Status/ ref |
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#### – SecurityAlgorithmConfig

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| I-No | Description | Class | Details (proposed solution/ discussion) | Status/ ref |
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#### – ServCellIndex

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| I-No | Description | Class | Details (proposed solution/ discussion) | Status/ ref |
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#### – ServingCellConfigCommon

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| --- | --- | --- | --- | --- |
| I-No | Description | Class | Details (proposed solution/ discussion) | Status/ ref |
| L021 | Condition description for ‘HOAndSCellAdd’ and ‘InterFreqHOAndSCellAdd’ are missing, and we prefer not to use HO even though it is shorter. |  |  |  |
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#### – ServingCellConfigDedicated

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| I-No | Description | Class | Details (proposed solution/ discussion) | Status/ ref |
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#### – SRB-Identity

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| I-No | Description | Class | Details (proposed solution/ discussion) | Status/ ref |
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#### – SPS-Config

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| I-No | Description | Class | Details (proposed solution/ discussion) | Status/ ref |
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#### – SRS-Config

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| I-No | Description | Class | Details (proposed solution/ discussion) | Status/ ref |
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#### – SubcarrierSpacing

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| I-No | Description | Class | Details (proposed solution/ discussion) | Status/ ref |
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#### 6.3.3 UE capability information elements

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| I-No | Description | Class | Details (proposed solution/ discussion) | Status/ ref |
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#### 6.3.4 Other information elements

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| I-No | Description | Class | Details (proposed solution/ discussion) | Status/ ref |
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#### 6.4 RRC multiplicity and type constraint values

#### – Multiplicity and type constraint definitions

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| I-No | Description | Class | Details (proposed solution/ discussion) | Status/ ref |
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#### 7 Variables and constants

#### 7.1 Timers

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| I-No | Description | Class | Details (proposed solution/ discussion) | Status/ ref |
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#### 7.1.1 Timers (Informative)

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#### 7.1.2 Timer handling

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| I-No | Description | Class | Details (proposed solution/ discussion) | Status/ ref |
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#### 7.2 Counters

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| I-No | Description | Class | Details (proposed solution/ discussion) | Status/ ref |
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#### 7.3 Constants

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| I-No | Description | Class | Details (proposed solution/ discussion) | Status/ ref |
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#### 7.4 UE variables

#### – VarMeasConfig

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| I-No | Description | Class | Details (proposed solution/ discussion) | Status/ ref |
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#### – VarMeasReportList

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| I-No | Description | Class | Details (proposed solution/ discussion) | Status/ ref |
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#### 8 Protocol data unit abstract syntax

#### 8.1 General

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| I-No | Description | Class | Details (proposed solution/ discussion) | Status/ ref |
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#### 8.2 Structure of encoded RRC messages

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| I-No | Description | Class | Details (proposed solution/ discussion) | Status/ ref |
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#### 8.3 Basic production

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| I-No | Description | Class | Details (proposed solution/ discussion) | Status/ ref |
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#### 8.4 Extension

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| I-No | Description | Class | Details (proposed solution/ discussion) | Status/ ref |
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#### 8.5 Padding

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#### 9 Specified and default radio configurations

#### 9.1 Specified configurations

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| I-No | Description | Class | Details (proposed solution/ discussion) | Status/ ref |
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#### 9.2 Default radio configurations

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#### 9.2.1 SRB configurations

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#### 9.2.1.1 SRB1/SRB1S

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| I-No | Description | Class | Details (proposed solution/ discussion) | Status/ ref |
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#### 9.2.1.2 SRB2/SRB2S

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| I-No | Description | Class | Details (proposed solution/ discussion) | Status/ ref |
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#### 9.2.1.3 SRB3

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| I-No | Description | Class | Details (proposed solution/ discussion) | Status/ ref |
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#### 9.2.2 SRB configurations

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| I-No | Description | Class | Details (proposed solution/ discussion) | Status/ ref |
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#### 9.2.2.1 SRB1/SRB1S

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| --- | --- | --- | --- | --- |
| I-No | Description | Class | Details (proposed solution/ discussion) | Status/ ref |
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#### 9.2.2.2 SRB2/SRB2S

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| --- | --- | --- | --- | --- |
| I-No | Description | Class | Details (proposed solution/ discussion) | Status/ ref |
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#### 9.2.2.3 SRB3

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| --- | --- | --- | --- | --- |
| I-No | Description | Class | Details (proposed solution/ discussion) | Status/ ref |
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#### 10 Generic error handling

#### 10.1 General

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| I-No | Description | Class | Details (proposed solution/ discussion) | Status/ ref |
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#### 10.2 ASN.1 violation or encoding error

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#### 10.3 Field set to a not comprehended value

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| I-No | Description | Class | Details (proposed solution/ discussion) | Status/ ref |
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#### 10.4 Mandatory field missing

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#### 10.5 Not comprehended field

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#### 11 Radio information related interactions between network nodes

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| I-No | Description | Class | Details (proposed solution/ discussion) | Status/ ref |
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#### 11.1 General

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| I-No | Description | Class | Details (proposed solution/ discussion) | Status/ ref |
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#### 11.2 Inter-node RRC messages

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| I-No | Description | Class | Details (proposed solution/ discussion) | Status/ ref |
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#### 11.2.1 General

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| I-No | Description | Class | Details (proposed solution/ discussion) | Status/ ref |
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#### 11.2.2 Message definitions

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#### – HandoverCommand

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#### – HandoverPreparationInformation

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#### – SCG-Config

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#### – SCG-ConfigInfo

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#### 11.3 Inter-node RRC information element definitions

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#### – CandidateCellInfoList

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#### 11.4 Inter-node RRC multiplicity and type constraint values

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#### 12 Processing delay requirements for RRC procedures

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#### Annex A (informative): Guidelines, mainly on use of ASN.1

#### A.3.8 Guidelines on use of parameterised SetupRelease type

#### – ParentIE-WithEM

#### – ChildIE1-WithoutEM

#### – ChildIE2-WithoutEM

#### A.6 Guidelines regarding use of need codes

#### Annex <X> (informative): Change history 180

# Sections not part of the review (for information)

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# List of last I-No (Issue Number)

Companies indicate their last used I-No, to avoid duplication.

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| **Company** | **Last used I-No** |
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