**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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| I-No | Description | Class | Details (proposed solution/ discussion) | Status/ ref |
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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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#### 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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#### 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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#### 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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#### 5.3.5.5 Cell Group configuration

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#### 5.3.5.5.1 General

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#### 5.3.5.5.2 Reconfiguration with synch

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#### 5.3.5.5.3 Logical Channel release

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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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#### 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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#### 5.3.5.6.4 DRB release

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#### 5.3.5.6.5 DRB addition/ modification

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#### 5.3.5.7 Full configuration

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#### 5.3.5.8 Security key update

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#### 5.3.5.9 Reconfiguration failure

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#### 5.3.5.9.1 Integrity check failure

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#### 5.3.5.9.2 Inability to comply with RRCReconfiguration

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#### 5.3.5.9.3 T304 expiry (Reconfiguration with synch Failure)

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#### 5.3.6 Counter check

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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

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#### i5.3.11.1 Detection of physical layer problems in RRC\_CONNECTED

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#### 5.3.11.2 Recovery of physical layer problems

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| 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

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| 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

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

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

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

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

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

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| I-No | Description | Class | Details (proposed solution/ discussion) | Status/ ref |
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#### 5.5.2.10 Reference signal measurement timing configuration

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| I-No | Description | Class | Details (proposed solution/ discussion) | Status/ ref |
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#### 5.5.3 Performing measurements

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

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| I-No | Description | Class | Details (proposed solution/ discussion) | Status/ ref |
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#### 5.5.3.2 Layer 3 filtering

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| I-No | Description | Class | Details (proposed solution/ discussion) | Status/ ref |
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#### 5.5.3.3 Derivation of measurement results

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| I-No | Description | Class | Details (proposed solution/ discussion) | Status/ ref |
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#### 5.5.4 Measurement report triggering

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

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| I-No | Description | Class | Details (proposed solution/ discussion) | Status/ ref |
| D-001 | The condition for measurement event other than A1,A2 is ambiguous (i.e. the description of level 5>)  It is better to have the following if condition  5> if there is whitelist  5> if there is blacklist (rather than “else”)  5> else (if the event involves a serving cell on one frequency and neighbor cell on another frequency) | 2 | The following formulation is proposed:  1> for each *measId* included in the *measIdList* within *VarMeasConfig*:  2> if the corresponding *reportConfig* does not include a *reportType* set to *reportCGI*:  3> if the corresponding *measObject* concerns NR;  4> if the eventA1 or eventA2 is configured in the corresponding *reportConfig*:  5> consider only the serving cell to be applicable;  4> else:  5> if *useWhiteCellList* is set to TRUE:  6> consider any neighbouring cell detected on the associated frequency to be applicable when the concerned cell is included in the *whiteCellsToAddModList* defined within the *VarMeasConfig* for this measId;  5> ~~else~~ if *blackCellsToAddModList* is included:  6> consider any neighbouring cell detected on the associated frequency to be applicable when the concerned cell is not included in the *blackCellsToAddModList* defined within the *VarMeasConfig* for this measId;  5> else (if ~~for~~ an event~~s~~ involves~~ing~~ a serving cell on one frequency and neighbours on another frequency)~~,~~  6> consider the serving cell on the other frequency as a neighbouring cell; |  |
|  |  |  |  |  |
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#### 5.5.4.2 Event A1 (Serving becomes better than threshold)

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| I-No | Description | Class | Details (proposed solution/ discussion) | Status/ ref |
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#### 5.5.4.3 Event A2 (Serving becomes worse than threshold)

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| --- | --- | --- | --- | --- |
| I-No | Description | Class | Details (proposed solution/ discussion) | Status/ ref |
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#### 5.5.4.4 Event A3 (Neighbour becomes offset better than PCell/ PSCell)

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| --- | --- | --- | --- | --- |
| I-No | Description | Class | Details (proposed solution/ discussion) | Status/ ref |
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#### 5.5.4.5 Event A4 (Neighbour becomes better than threshold)

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| --- | --- | --- | --- | --- |
| 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)

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| --- | --- | --- | --- | --- |
| 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

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| I-No | Description | Class | Details (proposed solution/ discussion) | Status/ ref |
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#### 5.5.5.1 Reporting of beam measurement information

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

#### 5.6.1 UE capability transfer

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

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| 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

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

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

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| I-No | Description | Class | Details (proposed solution/ discussion) | Status/ ref |
| D002 | How to use the BOOLEAN type | 2 | In current ASN.1, the BOOLEAN type is used for not only the mandatory IE but also for the optional IE. For example, the *useWhiteCellList* in *ReportConfigNR* is defined following:  useWhiteCellList BOOLEAN OPTIONAL  However it would be necessary to specify whether to indicate TRUE or FALSE in case of the IE is absent.Therefore it is proposed that **the BOOLEAN type should not be used for the optional IE**.  There are two ways to correct the above issue. One is to change presence to mandatory, the other is to change type to ENUMERATED which only be true with need code R. **Which one should we use?**  useWhiteCellList BOOLEAN ~~OPTIONAL~~  useWhiteCellList ~~BOOLEAN~~ENUMERATED {true} OPTIONAL -- Need R |  |
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#### 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 |
| D003 | Need codes are not yet included in the whole draft TS | 2 | For Measurement related section, DCM includes our proposal for the need codes in the draft CR. |  |
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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

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| --- | --- | --- | --- | --- |
| 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

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| I-No | Description | Class | Details (proposed solution/ discussion) | Status/ ref |
| D004 | The size of spare bits | 2 | 2 bits given that MIB payload is 24 bits according to the RAN1 agreement. |  |
|  |  |  |  |  |
|  |  |  |  |  |
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#### – MeasurementReport

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| --- | --- | --- | --- | --- |
| I-No | Description | Class | Details (proposed solution/ discussion) | Status/ ref |
| D005 | The non-critical extension fields are missing.  It is proposed to include not critical extension fields. | 2 | MeasurementReport-IEs ::= SEQUENCE {  measResults MeasResults,  -- FFS  lateNonCriticalExtension OCTET STRING OPTIONAL,  nonCriticalExtension SEQUENCE {} OPTIONAL  } | Covered in the draft CR |
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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 |
| D006 | The non-critical extension fields are missing.  It is proposed to include not critical extension fields. | 2 | RRCReconfigurationComplete-IEs ::= SEQUENCE {  -- FFS  lateNonCriticalExtension OCTET STRING OPTIONAL,  nonCriticalExtension SEQUENCE {} OPTIONAL  } | Covered in the draft CR |
|  |  |  |  |  |
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#### – SIB1

#### 6.3 RRC information elements

#### – SetupRelease Information Element

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| --- | --- | --- | --- | --- |
| I-No | Description | Class | Details (proposed solution/ discussion) | Status/ ref |
| D007 | UplinkConfigCommon | 2 | The UplinkConfigCommon should be specified as a global IE as it is included in the other places (ServingCellConfigCommon). |  |
|  |  |  |  |  |
|  |  |  |  |  |
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#### 6.3.1 System information blocks

#### 6.3.2 Radio resource control information elements

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| I-No | Description | Class | Details (proposed solution/ discussion) | Status/ ref |
| D008 | This section includes not only the radio resource control information elements but also the measurement information elements.  For readability, it is better to separate the section same as LTE. | 2 | It is proposed to add a new section for the measurement information elements and to move all the measurement information ementnts from this section.  6.3.2 Radio resource control information elements  6.3.3 Measurement information elements  6.3.~~3~~4 UE capability information elements  6.3.~~4~~5 Other 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 |
| D009 | Regarding the DRB-ID range, it is different from LTE’s one. In EN-DC, since the DRB-ID is assigned by MeNB, it should be used the same range as LTE. | 2 | DRB-Identity ::= INTEGER (~~4~~1..32)  Moreover, it is necessary to change the structure of *servedRadioBearer* in *CellGroupConfig*.(See D006) |  |
|  |  |  |  |  |
|  |  |  |  |  |
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#### – BandwidthPart-Config

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| I-No | Description | Class | Details (proposed solution/ discussion) | Status/ ref |
| D010 | subcarrierSpacing | 2 | We’re wondering if “n5” is also included for future proofing although it is not supported in Rel-15. L1 parameter list seems to suggest to add “n5” as well. |  |
|  |  |  |  |  |
|  |  |  |  |  |
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#### – CellGroupConfig

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| --- | --- | --- | --- | --- |
| I-No | Description | Class | Details (proposed solution/ discussion) | Status/ ref |
| D011 | If D005 is approved, it should be used CHOICE structure for *servedRadioBearer*. | 2 | -- Configuration of one logical channel:  LCH-Config ::= SEQUENCE {  logicalChannelIdentity LogicalChannelIdentity,  -- Associate the logical channel with an SRB or a DRB:  servedRadioBearer CHOICE {~~INTEGER (1..32)~~  srb-Identity SRB-Identity,  drb-Identity DRB-Identity  } OPTIONAL, -- Cond LCH-SetupOnly  reestablishRLC ENUMERATED {true} OPTIONAL, -- Need N  rlc-Config RLC-Config OPTIONAL, -- Cond LCH-Setup  mac-LogicalChannelConfig LogicalChannelConfig OPTIONAL -- Cond LCH-Setup  } |  |
|  |  |  |  |  |
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#### – 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 |
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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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#### – MeasIdToAddModList

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#### – MeasObjectEUTRA

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#### – MeasObjectId

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#### – MeasObjectNR

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| I-No | Description | Class | Details (proposed solution/ discussion) | Status/ ref |
| D012 | Duration of SMTC (SSB-MeasurementTimingConfiguration) | 2 | sf2, sf3 and sf4 should be included in accordance with the latest L1 parameter list (R1-1721581). |  |
| D013 | Missing L1 parameters on RLM and RSSI measurements | 2 | The RLM and RSSI measurement related parameters are missing (Row 255, 267, 270 to 275 in R1-1721581 |  |
| D014 | quantityConfigIndex in MeasObjectNR is referenced but not defined anywhere | 2 | If the intention is to refer which of the quantity config list included in the measConfig, then quantityConfigIndex needs to be included defined in the quantityConfig. |  |
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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 |
| D015 | The extension marker is missing.  It is proposed to include non critical extension marker (ellipsis). | 2 | At least, the extension marker is necessary in *MeasResults*.  MeasResults ::= SEQUENCE {  measId MeasId,  measResultServingFreqList MeasResultServFreqList,  measResultNeighCells CHOICE {  measResultListNR MeasResultListNR,  measResultListEUTRA MeasResultListEUTRA,  ...  } OPTIONAL,  ...  }  Moreover, it may be necessary in *MeasResultServFreq* and *MeasResultNR* for the future extension.  MeasResultServFreq ::= SEQUENCE {  servFreqId ServCellIndex OPTIONAL,  measResultServingCell MeasResultNR,  measResultBestNeighCell MeasResultNR,  ...  }  MeasResultNR ::= SEQUENCE {  physCellId PhysCellId OPTIONAL,  --FFS: Details of cgi info  cgi-Info ENUMERATED {ffsTypeAndValue},  measResult SEQUENCE {  cellResults SEQUENCE{  resultsSSBCell ResultsSSBCell OPTIONAL,  resultsCSI-RSCell ResultsCSI-RSCell OPTIONAL  },  rsIndexResults SEQUENCE{  resultsSSB-Indexes ResultsPerSSB-IndexList OPTIONAL,  resultsCSI-RSIndexes ResultsPerCSI-RSIndexList OPTIONAL  } OPTIONAL  },  ...  } |  |
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#### – PDCCH-Config

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#### – PDCP-Config

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#### – PDSCH-Config

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#### – PhysCellId

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#### – PUCCH-Config

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| I-No | Description | Class | Details (proposed solution/ discussion) | Status/ ref |
| D021 | UL power control related parameters | 3 | Some parametes related to Power Control are common to PUSCH and SRS, e.g. pathlossReferenceRSs, PowerControlAdjustmentStates, P0, etc. A common IE related to Power Control could be considered so that PUCH/PUCCH/SRS-Config can refer to the PC common IE. |  |
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#### – PUSCH-Config

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| I-No | Description | Class | Details (proposed solution/ discussion) | Status/ ref |
| D022 | UL power control related parameters | 3 | Same as D021. |  |
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#### – Q-OffsetRange

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#### – QuantityConfig

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| I-No | Description | Class | Details (proposed solution/ discussion) | Status/ ref |
| D016 | Since the *quantityConfigNR* is included in the *quantityConfigNR-List*, the first IE would be typo of *quantityConfigEUTRA*. | 2 | QuantityConfig ::= SEQUENCE {  quantityConfig~~NR~~EUTRA QuantityConfig~~NR~~EUTRA OPTIONAL,  quantityConfigNR-list QuantityConfigNR-List OPTIONAL,  ...  }  QuantityConfigEUTRA ::= ENUMERATED {ffsTypeAndValue} |  |
| D017 | The extension marker is missing. | 2 | Included in the ASN.1 proposed in D016. |  |
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#### – RACH-ConfigCommon

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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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#### – ReportConfigId

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#### – ReportConfigNR

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| I-No | Description | Class | Details (proposed solution/ discussion) | Status/ ref |
| D018 | Structure Optimization.  Since each event has the same parameters, they can be moved outside of the CHOICE structure.  Since *EventTriggerConfig* and *PeriodicalReportConfig* have the same parameters, they can be defined in a common configuration. | 2 | EventTriggerConfig::= SEQUENCE {  eventId CHOICE {  eventA1 SEQUENCE {  a1-Threshold MeasTriggerQuantity,  ~~reportOnLeave BOOLEAN,~~  ~~hysteresis Hysteresis,~~  ~~timeToTrigger TimeToTrigger~~  },  eventA2 SEQUENCE {  a2-Threshold MeasTriggerQuantity,  ~~reportOnLeave BOOLEAN,~~  ~~hysteresis Hysteresis,~~  ~~timeToTrigger TimeToTrigger~~  },  eventA3 SEQUENCE {  a3-Offset MeasTriggerQuantityOffset,  ~~reportOnLeave BOOLEAN,~~  ~~hysteresis Hysteresis,~~  ~~timeToTrigger TimeToTrigger,~~  useWhiteCellList BOOLEAN OPTIONAL  },  eventA4 SEQUENCE {  a4-Threshold MeasTriggerQuantity,  ~~reportOnLeave BOOLEAN,~~  ~~hysteresis Hysteresis,~~  ~~timeToTrigger TimeToTrigger,~~  useWhiteCellList BOOLEAN OPTIONAL  },  eventA5 SEQUENCE {  a5-Threshold1 MeasTriggerQuantity,  a5-Threshold2 MeasTriggerQuantity,  ~~reportOnLeave BOOLEAN,~~  ~~hysteresis Hysteresis,~~  ~~timeToTrigger TimeToTrigger,~~  useWhiteCellList BOOLEAN OPTIONAL  },  eventA6 SEQUENCE {  a6-Offset MeasTriggerQuantityOffset,  ~~reportOnLeave BOOLEAN,~~  ~~hysteresis Hysteresis,~~  ~~timeToTrigger TimeToTrigger,~~  useWhiteCellList BOOLEAN OPTIONAL  }  },  reportOnLeave BOOLEAN,  hysteresis Hysteresis,  timeToTrigger TimeToTrigger,  ~~rsType ENUMERATED {ss, csi-rs},~~  ~~-- Common reporting config (at least to periodical and eventTriggered)~~  ~~reportInterval ReportInterval,~~  ~~reportAmount ENUMERATED {ffsTypeAndValue},~~  ~~-- Cell reporting configuration~~  ~~reportQuantityCell MeasReportQuantity,~~  ~~maxReportCells INTEGER (1..maxCellReport),~~  ~~-- RS index reporting configuration~~  ~~reportQuantityRsIndexes MeasReportQuantity OPTIONAL,~~  ~~maxNrofIndexesToReport INTEGER (1..maxNrofIndexesToReport) OPTIONAL,~~  ~~onlyReportBeamIds BOOLEAN OPTIONAL,~~  commonReportConfig CommonReportConfig,  -- If configured the UE includes the best neighbour cells per serving frequency  reportAddNeighMeas ENUMERATED {ffsTypeAndValue},  ...  }  PeriodicalReportConfig ::= SEQUENCE {  ~~rsType ENUMERATED {ssb, csi-rs},~~  ~~-- Common reporting config (at least to periodical and eventTriggered)~~  ~~reportInterval ReportInterval,~~  ~~reportAmount ENUMERATED {ffsTypeAndValue},~~  ~~-- Cell reporting configuration~~  ~~reportQuantityCell MeasReportQuantity,~~  ~~maxReportCells INTEGER (1..maxCellReport),~~  ~~-- RS index reporting configuration~~  ~~reportQuantityRsIndexes MeasReportQuantity OPTIONAL,~~  ~~maxNrofRsIndexesToReport INTEGER (1..maxNrofIndexesToReport) OPTIONAL,~~  ~~onlyReportBeamIds BOOLEAN OPTIONAL~~  commonReportConfig CommonReportConfig,  ...  }  -- Common reporting config (at least to periodical and eventTriggered)  CommonReportConfig ::= SEQUENCE {  rsType ENUMERATED {ssb, csi-rs},  reportInterval ReportInterval,  reportAmount ENUMERATED {ffsTypeAndValue},  -- Cell reporting configuration  reportQuantityCell MeasReportQuantity,  maxReportCells INTEGER (1..maxCellReport),  -- RS index reporting configuration  reportQuantityRsIndexes MeasReportQuantity OPTIONAL,  maxNrofRsIndexesToReport INTEGER (1..maxNrofIndexesToReport) OPTIONAL,  onlyReportBeamIds BOOLEAN OPTIONAL,  ...  } |  |
| D019 | The extension marker is missing. | 2 | Included in the ASN.1 proposed in D018. |  |
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#### – ReportConfigToAddModList

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#### – RLC-Config

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#### – RLF-TimersAndConstants

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#### – SCellIndex

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#### – SchedulingRequest-Config

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#### – SchedulingRequestResource-Config

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#### – SDAP-Config

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#### – SecurityAlgorithmConfig

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#### – ServCellIndex

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#### – ServingCellConfigCommon

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| I-No | Description | Class | Details (proposed solution/ discussion) | Status/ ref |
| D020 | tdd-UL-DL-configurationCommon2 | 2 | It is better to describe in the field description how the TDD UL/DL configuration looks like together with tdd-UL-DL-configurationCommon. In our understanding, these two configurations are alternated. |  |
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#### – ServingCellConfigDedicated

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#### – SRB-Identity

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#### – SPS-Config

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#### – SRS-Config

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| I-No | Description | Class | Details (proposed solution/ discussion) | Status/ ref |
| D023 | UL power control related parameters | 3 | Same as D021. |  |
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#### – SubcarrierSpacing

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#### 6.3.3 UE capability information elements

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#### 6.3.4 Other information elements

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#### 6.4 RRC multiplicity and type constraint values

#### – Multiplicity and type constraint definitions

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#### 7 Variables and constants

#### 7.1 Timers

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#### 7.1.1 Timers (Informative)

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#### 7.1.2 Timer handling

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#### 7.2 Counters

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#### 7.3 Constants

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#### 7.4 UE variables

#### – VarMeasConfig

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#### – VarMeasReportList

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#### 8 Protocol data unit abstract syntax

#### 8.1 General

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#### 8.2 Structure of encoded RRC messages

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#### 8.3 Basic production

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#### 8.4 Extension

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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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#### 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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#### 9.2.1.2 SRB2/SRB2S

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#### 9.2.1.3 SRB3

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#### 9.2.2 SRB configurations

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#### 9.2.2.1 SRB1/SRB1S

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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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#### 10 Generic error handling

#### 10.1 General

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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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#### 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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