**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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| --- | --- | --- | --- | --- |
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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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#### 5.3.11.3 Detection of radio link failure

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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 |
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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)

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

#### 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

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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

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

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| 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

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

#### 6.3.2 Radio resource control information elements

#### – *Alpha*

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

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

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

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| --- | --- | --- | --- | --- |
| I-No | Description | Class | Details (proposed solution/ discussion) | Status/ ref |
| Q005 | V1310 of t304 table is the LTE version number which is not required in NR RRC. | 1 | t304 ENUMERATED {ms50, ms100, ms150, ms200, ms500, ms1000, ms2000, ms10000 }, | We are to provide a CR. |
|  |  |  |  |  |
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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 |
| Q006 | *RACH-ConfigDedicated* is defined as an IE separately. | 1 | Rename as followsRACH-ConfigDedicatedBM | We are to provide a CR. |
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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 |
| Q007 | allowedSubcarrerSpacing parameter name does not match 38.321 lcp-allowedSCS | 1 | Align with 38.321. | We are to provide a CR. |
| Q008 | The following parameters are missing.* Lcp-maxPUSCH-Duration
* lcp-configuredGrantType1Allowed
* lcp-allowedServingCells
 | 3 | These parameters are needed according to TS 38.321. |  |
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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 |
| Q009 | For the following “editor notes”:Editor’s Note: FFS How to support allowInterruptions in NR (RAN4 input needed) in Rel-15.It sounds as if RAN2 has agreed to introduce allowInterruption in NR, and the only FFS is how to support. But based on latest agreement (RAN2#99b), our understanding is whether to support it is still FFS:FFS AllowInterruptions.FFS speed-based TTT scaling (to be discussed after December)FFS alternativeTimeToTrigger (to be discussed after December) | 2 | Modified as followsEditor’s Note: FFS whetherto support allowInterruptions in NR (RAN4 input needed) in Rel-15. |  |
|  |  |  |  |  |
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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 |
| Q010 | Based on latest RAN1 agreement, the duration value of SMTC1 should be updated:* SMTC window duration:
	+ Both for inter-/intra- frequency measurements, the candidate values are {1,2,3,4,5} msec
 | 2 | Modify as follows:duration ENUMERATED { sf1, sf2, sf3, sf4, sf5 }, |  |
| Q011 | Based on latest RAN1 agreement, SMTC1 and SMTC2 share the same periodicity value range:* SMTC periodicity:
	+ Both for inter-/intra-frequency measurements, the candidate values are {5, 10, 20, 40, 80, 160} msec

The periodicity of SMTC2 value list should be updated | 2 | Modify as followssmtc2 SEQUENCE { -- PCIs that are known to follow this SMTC. pci-List SEQUENCE (SIZE (1..maxNrofPCIsPerSMTC)) OF PhysicalCellId OPTIONAL, -- Periodicity for the given PCIs. Timing offset and Duration as provided in smtc1. periodicty ENUMERATED { sf5, sf10, sf20, sf40, sf80, sf160} |  |
| Q012 | Based on latest RAN1 agreement, the following parameters for CSI-RS are missing:* Common-PRB-Grid-offset
* Numerology
 | 2 | Add following fields:* Common-PRB-Grid-offset TYPE\_FFS!,
* Numerology ENUMERATED { 15or60, 30or120, 60or240}
 |  |
|  |  |  |  |  |
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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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| I-No | Description | Class | Details (proposed solution/ discussion) | Status/ ref |
| Q013 | *ul-DataSplitThreshold* does not require the value ‘*infinity*’, because the releasing the threshold configuration provides the same function.Background: ‘Inifinity’ was added per RAN2\_100 agreement “For split bearers, use infinity value of ul-DataSplitThreshold to realize UL path restriction”. In 10.3.3.4, Nokia mentioned release can be removed in last email discussion, but it is not clear if release will be used for duplication case. See Q018 for a possible resolution. | 2 |  ul-DataSplitThreshold CHOICE { release NULL, setup ENUMERATED {  b0, b100, b200, b400, b800, b1600, b3200, b6400, b12800, b25600, b51200, b102400, b204800,  b409600, b819200, b1228800, b1638400, b2457600, b3276800, b4096000, b4915200, b5734400,  b6553600, spare9, spare8, spare7, spare6, spare5, spare4, spare3, spare2, spare1} |  |
| Q014 | The value order of t-Reordering is not in-sequence (i.e, 50ms, 60ms) | 1 |  t-Reordering ENUMERATED { ms0, ms5, ms10, ms15, ms20, ms30, ms40, ms50, ms60, ~~ms50,~~ ms80, ms100, ms120, ms140, ms160, ms180, ms200, ms220,  ms240, ms260, ms280, ms300, ms500, ms750, ms1000, ms1250, ms1500, ms1750, ms2000, ms2250, ms2500, ms2750, ms3000} OPTIONAL -- Need R | We are to provide a CR. |
| Q015 | ms0 is not the same as outOfOrderDelivery. outOfOrderDelivery is independent parameter and has corresponding procedure in 38.323. | 2 | ~~-- FFS: whether ms0 is the same like outOfOrderDelivery~~ |  |
| Q016 | The parameter name *ul-Duplication* does not match 38.323 *pdcpDuplication* | 2 | Either update 38.323 or 38.331 like the following  moreThanOneRLC SEQUENCE { primaryPath SEQUENCE { cellGroup CellGroupId, logicalChannel LogicalChannelIdentity }, ul-DataSplitThreshold CHOICE { release NULL, setup ENUMERATED {  b0, b100, b200, b400, b800, b1600, b3200, b6400, b12800, b25600, b51200, b102400, b204800,  b409600, b819200, b1228800, b1638400, b2457600, b3276800, b4096000, b4915200, b5734400,  b6553600, infinity, spare8, spare7, spare6, spare5, spare4, spare3, spare2, spare1} },  ~~ul-Duplication~~pdcpDuplication BOOLEAN }  |  |
| Q017 | *drb-ContinueROHC* is not available in 38.331.  | 2 | In 36.331 it is included in MobilityControlInfo. Cound be done in the same way. |  |
| Q018 | PDCP duplication configuration/activation is not clear from current structure. PDCP duplication can be configured/not configured, and once configured can be activated/not activated by RRC (or MAC CE). According to 38.323, when duplication is configured the ul-splitThreshold is not used for transmission. From existing structure, this is not clear. We should signal whether pdcp-duplication is configured and splitThreshold should be required only if pdcp-duplication is not configured, Since duplication is not expected to be used at the same time as ul-DataSplitThreshold, they may be organized as CHOICE. Since PDCP duplication is not yet finalized, this could be FFS but it seems like a structural issue here.  | 3 | An example solution is illustrated below. Another possibility is to make ul-DataSplit and pdcp-Duplication both optional instead of grouped in CHOICE but it seems more error-prone as further conditions to clarify conditional presence are needed. The example below assumes *pdcp-Duplication* (renamed from *ul-Duplication*) configures duplication. Whether duplication is activated is determined by the BOOLEAN value of pdcp-duplication, and ul-DataSplit is a CHOICE, either either configures ul-DataSplitThreshold (for split, switch operation) or pdcp-Duplication (for duplication). Per previous agreement “For split bearers, use infinity value of ul-DataSplitThreshold to realize UL path restriction”, the release/setup is removed from ul-DataSplitThreshold. moreThanOneRLC SEQUENCE { primaryPath SEQUENCE { cellGroup CellGroupId, logicalChannel LogicalChannelIdentity }, ul-DataSplit CHOICE { ul-DataSplitThreshold ~~CHOICE {~~ ~~release NULL,~~ ~~setup~~ ENUMERATED {  b0, b100, b200, b400, b800, b1600, b3200, b6400, b12800, b25600, b51200, b102400, b204800,  b409600, b819200, b1228800, b1638400, b2457600, b3276800, b4096000, b4915200, b5734400,  b6553600, infinity, spare8, spare7, spare6, spare5, spare4, spare3, spare2, spare1~~}~~ },  pdcp-Duplication BOOLEAN } OPTIONAL }  |  |
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#### – PDSCH-Config

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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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#### – PUSCH-Config

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#### – Q-OffsetRange

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#### – QuantityConfig

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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 |
| Q019 | The following agreements in RAN2#100 on threshold for beam selection are not captured:* ssb-Threshold signalled in handover command (for both common and dedicated RACH)
 |  | Add following fields:* ssb-Threshold RSRP-Range
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#### – RadioBearerConfig

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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 |
| Q001 | It is better to align “ss” with “ssb”: Note that in EventTriggerConfig, “ss” is used but in PeriodicalReportConfig, “ssb” is usedEventTriggerConfig::= SEQUENCE {[…]rsType ENUMERATED {ss, csi-rs},----PeriodicalReportConfig ::= SEQUENCE { rsType ENUMERATED {ssb, csi-rs}, | 1 | Modify EventTriggerConfig’s rsType as followsrsType ENUMERATED {ssb, csi-rs} | We are to provide a CR. |
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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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#### – RLF-TimersAndConstants

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| I-No | Description | Class | Details (proposed solution/ discussion) | Status/ ref |
| Q002 | The RLF related timer value table is still empty | 3 | The value range can’t reuse LTE since different RS (NR-SS and CSI-RS) are used for NR. New value range needs to be analysed and calculated | It needs some analysis. We will prepare a tdoc. |
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#### – SCellIndex

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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 |
| Q003 | Reflective QoS | 3 | It is not clear how the reflective QoS parameter is used here and was not discussed before. It is marked FFS but it seems better removed to avoid confusion as the description is not clear.  |  |
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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 |
| Q004 | According to RAN1 provided list (R1-1721581), initial UL BWP is conditional on paired spectrum and SUL of PCell or PSCell. But in current ASN.1, the condition on SUL is missing | 2 | Modify as followsUplinkConfigCommon ::= SEQUENCE { -- Absolute uplink frequency configuration and subcarrier specific virtual carriers. frequencyInfoUL FrequencyInfoUL OPTIONAL, -- Cond InterFreqHOAndUplinkSCellAdd -- The initial uplink BWP configuration for a SpCell (PCell of MCG or SCG). Corresponds to L1 parameter 'initial-UL-BWP'.  -- (see 38.331, section FFS\_Section). initialUplinkBandwidthPart UplinkBandwidthPart OPTIONAL, -- Cond FDD-SUL-PCell} |  |
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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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#### – 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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#### 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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#### 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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#### 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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#### 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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| I-No | Description | Class | Details (proposed solution/ discussion) | Status/ ref |
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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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#### 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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| I-No | Description | Class | Details (proposed solution/ discussion) | Status/ ref |
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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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#### 11.1 General

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#### 11.2 Inter-node RRC messages

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#### 11.2.1 General

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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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