**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

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

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

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

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

#### – BCCH-BCH-Message

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

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

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

#### – MIB

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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#### – RACH-ConfigDedicated

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

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

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#### – ReportConfigNR

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#### – ReportConfigToAddModList

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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 |
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#### – SCellIndex

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#### – SchedulingRequest-Config

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#### – SchedulingRequestResource-Config

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

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

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

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

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

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

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

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

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

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

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

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

#### 10.1 General

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

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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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#### 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)

-

# List of last I-No (Issue Number)

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

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