**3GPP TSG-RAN WG3 Meeting #111-e R3-21xxxx**

**E-meeting, 25 Jan -5 Feb 2021**

**Agenda item: 10.2.1.5**

**Source: Nokia, Nokia Shanghai Bell**

**Title: (TP to TS 36.423, NR\_ENDC\_SON\_MDT\_enh-Core) Further clarification of the TNL load**

**Document for: Endorsement**

# 1 Introduction

This document proposes text for a BL CR to X2AP. The proposed clarification relates to the issue of the input for the TNL load information, as described in [R3-210318] and further discussed online.

# 2 Text proposal

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| **\*\*\* First change, omitted text not changed \*\*\*** |

#### 8.7.21.2 Successful Operation



Figure 8.7.21.2-1: EN-DC Resource Status Reporting Initiation, successful operation

The procedure is initiated with an EN-DC RESOURCE STATUS REQUEST message sent from the eNB to the en-gNB to start a measurement, stop a measurement, add cells to report for a measurement.

If the *Report Characteristics* IE is included in the EN-DC RESOURCE STATUS REQUEST message and indicates cell specific measurements, the *Cell To Report EN-DC* *List* IE shall be included.

Upon receipt of the EN-DC RESOURCE STATUS REQUEST message, the en-gNB:

- shall initiate the requested measurement according to the parameters given in the request in case the *Registration Request* IE set to "start"; or

- shall stop all cells measurements and terminate the reporting in case the *Registration Request* IE is set to "stop"; or

- shall add cells indicated in the *Cell To Report EN-DC List* IE list to the measurements initiated before for the given measurement IDs, in case the *Registration Request* IE is set to "add". If measurements are already initiated for a cell indicated in the *Cell To Report EN-DC List* IE, this information shall be ignored.

The en-gNB shall send an EN-DC RESOURCE STATUS RESPONSE message to the eNBto indicate that all of the requested measurement objects the measurement can be initiated.

**Interaction with other procedures**

When starting a measurement, the *Report Characteristics* IE in the EN-DC RESOURCE STATUS REQUEST indicates the type of objects en-gNB shall perform measurements on. For each cell, the en-gNB shall include in the EN-DC RESOURCE STATUS UPDATE message:

- the *Radio* *Resource Status* IE, if the first bit, "PRB Periodic" of the *Report Characteristics* IE included in the EN-DC RESOURCE STATUS REQUEST message is set to "1". If the cell for which *Radio* *Resource Status* IE is requested to be reported supports more than one SSB, the *Radio* *Resource Status* IE for such cell shall include the *SSB Area Radio Resource Status Item* IE for all SSB areas supported by the cell. If the *SSB To Report List* IE is included for a cell, the *Radio* *Resource Status* IE for such cell shall include the requested *SSB Area Radio Resource Status List* IE.

- the *TNL Capacity Indicator* IE, if the second bit, "TNL Capacity Ind Periodic" of the *Report Characteristics* IE included in the EN-DC RESOURCE STATUS REQUEST message is set to "1". The received *TNL Capacity Indicator* IE represents the lowest TNL capacity available for the cell, taking into account the NG and F1 interfaces.

- the *Composite Available Capacity Group* IE, if the third bit, "Composite Available Capacity Periodic" of the *Report Characteristics* IE included in the EN-DC RESOURCE STATUS REQUEST message is set to "1". If *Cell Capacity Class Value* IE is included within the *Composite* *Available Capacity Group* IE, this IE is used to assign weights to the available capacity indicated in the *Capacity Value* IE. If the cell for which *Composite Available Capacity Group* IE is requested to be reported supports more than one SSB, and if the *SSB To Report List* IE is included for a cell, the *Composite Available Capacity Group* IE for such cell shall include the requested *SSB Area Capacity Value List* IE, providing the SSB area capacity with respect to the Cell Capacity Class Value.

If the Reporting Periodicity IE in the EN-DC RESOURCE STATUS REQUEST is present, this indicates the periodicity for the reporting of periodic measurements. The en-gNB shall only report more than once if the *Reporting Periodicity* IE is included.

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| **\*\*\* End of changes, remaining text not changed \*\*\*** |