**3GPP TSG-RAN WG3 Meeting #110-e R3-206409**

**E-meeting, 2 – 12 Nov 2020**

**Title:** (TP to TS 38.401 BL CR) Inclusion of the agreements of RAN3#109

**Source:** Huawei

**Agenda item:** 22.1

**Document Type:** other

# 1. Introduction

In RAN3#109 meeting, there are a list of agreements and working assumptions achieved, but there was no TP agreed yet, in this contribution, we provide TP to capture the corresponding agreements and working assumptions in to the BL CR of TS38.401.

# 2. Related Agreements and WAs

**Agreements:**

* **MBS Session Resources: the term to denote NG-RAN resources for control and delivery of MBS user data, to be used on NG, Xn, F1 and E1.**
* **We Define MBS session resource in analogy with PDU session resource, e.g. including radio part, CP part, NG-UP part, MBS context in RAN.**
* **Use existing NG-RAN architecture to support NR MBS.**
* **No MCE entity/node in RAN architecture.**
* **No SYNC protocol for this release.**
* **The F1AP UE context should contain MBS context information.**
* **Prioritize work on support of mobility scenarios of UEs moving from a cell with established MBS session resource to another cell with established or to be established MBS session resource.**
* **For the prioritized scenario, intra-CU mobility and Xn/NG based inter-gNB mobility will be considered.**

# 3. Text Proposal to BL CR of TS38.401

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# 3 Definitions and abbreviations

## 3.1 Definitions

For the purposes of the present document, the terms and definitions given in TR 21.905 [1] and the following apply.
A term defined in the present document takes precedence over the definition of the same term, if any, in TR 21.905 [1].

**Conditional Handover:** as defined in TS 38.300 [2].

**Conditional PSCell Change:** as defined in TS 37.340 [12].

**DAPS Handover:** as defined in TS 38.300 [2].

**en-gNB**: as defined in TS 37.340 [12].

**Early Data Forwarding**: as defined in TS 38.300 [2].

**gNB:** as defined in TS 38.300 [2].

**gNB Central Unit (gNB-CU):** a logical node hosting RRC, SDAP and PDCP protocols of the gNB or RRC and PDCP protocols of the en-gNB that controls the operation of one or more gNB-DUs. The gNB-CU terminates the F1 interface connected with the gNB-DU.

**gNB Distributed Unit (gNB-DU):** a logical node hosting RLC, MAC and PHY layers of the gNB or en-gNB, and its operation is partly controlled by gNB-CU. One gNB-DU supports one or multiple cells. One cell is supported by only one gNB-DU. The gNB-DU terminates the F1 interface connected with the gNB-CU.

**gNB-CU-Control Plane (gNB-CU-CP):** a logical node hosting the RRC and the control plane part of the PDCP protocol of the gNB-CU for an en-gNB or a gNB. The gNB-CU-CP terminates the E1 interface connected with the gNB-CU-UP and the F1-C interface connected with the gNB-DU.

**gNB-CU-User Plane (gNB-CU-UP):** a logical node hosting the user plane part of the PDCP protocol of the gNB-CU for an en-gNB, and the user plane part of the PDCP protocol and the SDAP protocol of the gNB-CU for a gNB. The gNB-CU-UP terminates the E1 interface connected with the gNB-CU-CP and the F1-U interface connected with the gNB-DU.

**IAB-node**: as defined in TS 38.300 [2].

**IAB-donor**:as defined in TS 38.300 [2].

**IAB-donor-CU**: the gNB-CU of an IAB-donor, terminating the F1 interface towards IAB-nodes and IAB-donor-DU.

**IAB-donor-DU**: the gNB-DU of an IAB-donor, hosting the IAB BAP sublayer (as defined in TS 38.340 [22]), providing wireless backhaul to IAB-nodes.

**IAB-DU**: as defined in TS 38.300 [2].

**IAB-MT**: as defined in TS 38.300 [2].

**MBS Session Resource:** This term is used for specification of NG, Xn, F1, and E1 interfaces. It denotes NG-RAN resources for control and delivery of MBS user data of an MBS session, including e.g. radio part, CP part, UP part, and MBS context in RAN.

**ng-eNB:** as defined in TS 38.300 [2].

**ng-eNB Central Unit (ng-eNB-CU):** as defined in TS 37.470 [21].

**ng-eNB Distributed Unit (ng-eNB-DU):** as defined in TS 37.470 [21].

**NG-RAN node:** as defined in TS 38.300 [2].

**PDU Session Resource**: This term is used for specification of NG, Xn, and E1 interfaces. It denotes NG-RAN interface and radio resources provided to support a PDU Session.

**Public Network Integrated NPN:** as defined in TS 23.501 [3].

**Stand-alone Non-Public Network:** as defined in TS 23.501 [3].

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## 6.1 Overview

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### 6.1.x Overall Architecture of NR MBS

The gNB supports NR MBS by using the NG-RAN architecture as defined in section 6.1.1 and 6.1.2

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# 7 NG-RAN functions description

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## 7.x Support for NR MBS

The Support of NR MBS in non-split gNB case is specified in TS 38.300 [2].

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# 8 Overall procedures in gNB-CU/gNB-DU Architecture

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## 8.2 Intra-gNB-CU Mobility

### 8.2.1 Intra-NR Mobility

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8.2.1.x Inter-gNB-DU Handover during NR MBS operation

This procedure is used for the case when the UE moves from one gNB-DU to another gNB-DU within the same gNB-CU during NR MBS operation.

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## 8.xx Overall procedures for NR MBS

The following clauses describe the overall procedures for NR MBS involving E1 and F1.

# 5. Reference

1. R3-205813 Introduction of NR MBS, Huawei, CMCC