**3GPP TSG-RAN WG3 Meeting #110-e R3-206413**

**E-meeting, 2 - 12 Nov 2020**

**Title:** (TP to TS 38.401 BL CR) Bearer management over F1 and E1

**Source:** Huawei

**Agenda item:** 22.2.4

**Document Type:** other

# 1. Introduction

During the online discussion of RAN3#110 meeting, the following agreements were made for Bearer Management over F1/E1:

**About Shared F1-U tunnel:**

- **Use a shared F1-U tunnel for PTM transmission of an MBS radio bearer for an MBS Session**

**About F1-U transport establishment**

**- Support the method that gNB-DU assigns the DL F1-U GTP-U tunnel info, provides it to gNB-CU-CP and then gNB-CU-CP forwards it to gNB-CU-UP.**

**- FFS if IP multicast method is supported or not**

**About MBS Context**

**- Provide the MBS Session id, QoS profile from gNB-CU to gNB-DU**

**- Provide the MBS Session id, QoS profile from gNB-CU-CP to gNB-CU-UP**

**About MBS Bearer management**

**- F1/E1 MBS Bearer management procedure can be discussed, but details on e.g. information to signal are pending RAN2/SA2 progress**

In section 2, the TP to TS38.401 BL CR is provided.

# 2. Text proposal to TS 38.401 BL CR

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## 6.1 Overview

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### 6.1.x Overall Architecture of MBS

Upon establishment of a MBS Session resource by the 5GC, the gNB-CU triggers the establishment of a MBS radio bearer, involving the gNB-DU. If E1 is deployed, the gNB-CU-CP triggers establishment of respective MBS UP resources in the gNB-CU-UP.

A shared F1-U tunnel is used between the gNB-CU and the gNB-DU for PTM transmission of a MBS radio bearer. The gNB-DU assigns the DL GTP-U TEID and provides it to the gNB-CU. If E1 is deployed the gNB-CU-CP forwards it to the gNB-CU-UP.

Editor’s Note: It is FFS whether IP multicast method is supported on F1. It is also FFS whether the F1-U tunnel for the PTM transmission is established per DU or per cell. The definition and usage of the term “PTM” is FFS. Also, the definition of the term “MBS radio bearer” is FFS.

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# 7 NG-RAN functions description

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## 7.x Support for MBS

The Support of 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.xx Overall procedures for MBS

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

***--------------------------------End of the Changes-----------------------------***