3GPP TSG-RAN WG3 #115-e R3-222535

**E-meeting, 21st February – 3rd March 2022**

Source: CATT (moderator)

**Title:** **CB: # 1\_NRUDC**

Agenda Item: 8.1

Document for: Approval

# Introduction

**CB: # MBS1\_General**

**- Endorse BL CRs if agreeable**

**- Check updates proposed in** [**R3-222160**](file:///C%3A%5CUsers%5Cliuaijuan%5CAppData%5CLocal%5CTemp%5C360zip%24Temp%5C360%245%5CInbox%5CR3-222160.zip)

(CATT - moderator)

The deadline for the second round discussion is 12:00 UTC on 1st March

# For the Chairman’s Notes

To be agreed:

**Proposal1: Endorse all the BLCRs in [1] to [10]**

**Proposal 2: It is proposed to remove Editor’s note 1 and 3 in section 6.1.x.For Editor’s note 2 and 4, we could revisit after there is conclusion in E1/F1 discussion.**

**Proposal 3: It is proposed to keep the Editor’s note in section 6.4 until further information is received from RAN2.**

**Proposal 4: It is proposed to remove this Editor’s note in section 7.x.1.**

# Discussion(Second round)

For the editor’s note 2 in section 6.1.x, based on the current TP for 38.425 and 38.473, the F1-U tunnel is per gNB-DU, so we propose to remove the following editor’s notes 2.

Editor’s Note: It is 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.

**Proposal 1: Remove the editor’s note 2 in section 6.1.X**

For the editor’s note 4 in section 6.1.x, in the TP for 38.425,we are already discussing on how to support flow control for the shared F1-U tunnel, so we think the general description on support of flow control is aligned with the current agreement. We propose to remove the following editor’s note 4.

Editor’s Note: existing NR user plane protocol functions need to be reviewed for their applicability for MBS.

**Proposal 2: Remove the editor’s note 4 in section 6.1.X**

For the editor’s note in section 6.4, I propose to remove the following editor’s note and update the text as follows which applied no matter there is common MBR configuration related IE introduced in Uu or not for the time being.If there is LS received, we could further update it..

*For multicast, for each MRB, the gNB-DU provides the MRB specific Uu configuration to the gNB-CU to configure the UE.*

**Proposal 3: It is proposed to remove the editor’s note in section 6.4 and update the related text as above and update in the future if needed.**

Companies are invited to provide views on the above 3 proposals.

|  |  |
| --- | --- |
| Company | Comment |
|  |  |
|  |  |
|  |  |

# Discussion(First round)

## Endorsed BLCR

There is a set of previously endorsed baseline CRs resubmission in [1] to [10]. It is needed to endorse them.

**Proposal 1: Endorse the previous endorsed baseline CRs in [1] to [10].**

Please provide your comments for the proposal in the table, if any.

|  |  |
| --- | --- |
| Company | Comment |
|  |  |
|  |  |
|  |  |

**Proposal1: Endorse the BLCR in [1] to [10]**

## Check the update

In [11], there is Rapporteur clean-up for TS 38.401 BL CR which aimed to remove the editor’s notes.

### 3.2.1 Editor’s notes in section 6.1.x

In section 6.1.x Overall Architecture of NR MBS, there are several Editor’s Notes：

|  |
| --- |
| 1. Editor’s Note: Applicability of specified cardinalities may need to be revisited.
2. Editor’s Note: It is 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.
3. Editor’s Note: for the split MBS radio bearer with common PDCP, the statement may be re-visited after further progress in RAN2 and RAN3 on the data re-transmission and forwarding.
4. Editor’s Note: existing NR user plane protocol functions need to be reviewed for their applicability for MBS.
 |

The proposal in [11] is to **remove the Editor’s Notes in section 6.1.x, and use abbreviation MRB (MBS Radio Bearer) to replace the “MBS radio bearer”.**

Please provide your views on above proposal

| Company | Agree or not | Comments |
| --- | --- | --- |
| Ericsson |  | the EN on 38.425 should be kept. |
| Nokia | NOK for 2/ |  The sentence in 38.401 reads as if there is one shared F1-U tunnel between CU and DU. Our understanding is that there is one shared F1-U tunnel per cell for multicast and per cell/DU for broadcast. -> the editor’s note could be removed only if that is clarified. |
|  |  |  |

**Summary： 1 company is not OK with removal of Editor’s note 2 and 1 company is not OK with the removal of Editor’s note 4**

**Proposal 2: It is proposed to remove Editor’s note 1 and 3 in section 6.1.x.For Editor’s note 2 and 4, we could revisit after there is conclusion on E1/F1 discussion.**

3.2.2 Editor’s note in section 6.4

In section 6.4 “UE associations in NG-RAN Node”, there is an Editor’s Note as follows:

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| --- |
| For multicast, for each MRB, the MBR specific Uu configuration is incorporated into each UE’s individual CellGroupConfig, and the gNB-DU provides such information to the gNB-CU to configure the UE.Editor’s Note: The statement above concerning the incorporation of the MBR specific Uu configuration into the RRC *CellGroupConfig* IE needs to be checked against respective RAN2 decisions. |

In [11],it is stated that based on current 38.331 running CR, this statement is fine for multicast and it is needed to remove this Editor’s Note.

Please provide your views on the removal of the above editor’s notes

| Company | Agree or not | Comments |
| --- | --- | --- |
| Ericsson |  | This EN needs to be still checked with RAN2 |
| Nokia | NOK |  Wait RAN2 reply. |
|  |  |  |

**Summary: 2 companies are not OK and would like to wait RAN2 reply**

**Proposal 3: It is proposed to not remove this Editor’s note in section 6.4 until there is further information received from RAN2.**

### 3.2.3 Editor’s note in section 7.x.1

In Section 7.X.1 “Support of dynamic PTP and PTM switching”, there is an Editor’s Note as follows:

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| --- |
| 7.X.1 Support of dynamic PTP and PTM switchingNG-RAN supports dynamic switch between PTP and PTM for MBS as specified in TS 38.300 [2].In case of split gNB architecture, for a split MRB bearer with common PDCP, upon receiving the MBS data from the gNB-CU via a shared F1-U tunnel, the gNB-DU makes decision of using PTP (RLC leg) or PTM (RLC leg).Editor’s note: The above paragraph would be re-visited after there is conclusion on flow control mechanism for shared F1-U tunnel. |

In [11], it is proposed to remove the above editor’s notes based on the latest progress.

Please provide your views on the removal of the above editor’s notes

| Company | Agree or not | Comments |
| --- | --- | --- |
| Nokia | OK |  |
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**Summary: No company object the proposal**

**Proposal 4: It is proposed to remove this Editor’s note in section 7.x.1.**

# Conclusion, recommendations [if needed]

# Reference

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| --- | --- | --- | --- |
| [1](file:///D%3A%5C%E4%BC%9A%E8%AE%AE%E7%A1%AC%E7%9B%98%5CTSGR3_115-e%5CDocs%5CR3-221502.zip) | [R3-221502](file:///D%3A%5C%E4%BC%9A%E8%AE%AE%E7%A1%AC%E7%9B%98%5CTSGR3_115-e%5CDocs%5CR3-221502.zip) | Introduction of MBS(BL CR for 38.463) (CATT) | CR0559r6, TS 38.463 v16.8.0, Rel-17, Cat. B |
| [2](file:///D%3A%5C%E4%BC%9A%E8%AE%AE%E7%A1%AC%E7%9B%98%5CTSGR3_115-e%5CDocs%5CR3-221503.zip) | [R3-221503](file:///D%3A%5C%E4%BC%9A%E8%AE%AE%E7%A1%AC%E7%9B%98%5CTSGR3_115-e%5CDocs%5CR3-221503.zip) | Introduction of NR MBS (Lenovo, Motorola mobility) | CR0071r7, TS 38.470 v16.5.0, Rel-17, Cat. B |
| [3](file:///D%3A%5C%E4%BC%9A%E8%AE%AE%E7%A1%AC%E7%9B%98%5CTSGR3_115-e%5CDocs%5CR3-221506.zip) | [R3-221506](file:///D%3A%5C%E4%BC%9A%E8%AE%AE%E7%A1%AC%E7%9B%98%5CTSGR3_115-e%5CDocs%5CR3-221506.zip) | Introduction of NR MBS (Samsung R&D Institute UK) | CR0716r5, TS 38.473 v16.8.0, Rel-17, Cat. B |
| [4](file:///D%3A%5C%E4%BC%9A%E8%AE%AE%E7%A1%AC%E7%9B%98%5CTSGR3_115-e%5CDocs%5CR3-221507.zip) | [R3-221507](file:///D%3A%5C%E4%BC%9A%E8%AE%AE%E7%A1%AC%E7%9B%98%5CTSGR3_115-e%5CDocs%5CR3-221507.zip) | Introduction of NR MBS (LG Electronics) | CR0047r5, TS 38.460 v16.4.0, Rel-17, Cat. B |
| [5](file:///D%3A%5C%E4%BC%9A%E8%AE%AE%E7%A1%AC%E7%9B%98%5CTSGR3_115-e%5CDocs%5CR3-221521.zip) | [R3-221521](file:///D%3A%5C%E4%BC%9A%E8%AE%AE%E7%A1%AC%E7%9B%98%5CTSGR3_115-e%5CDocs%5CR3-221521.zip) | Introduction of NR MBS (Huawei, CMCC) | CR0153r12, TS 38.401 v16.8.0, Rel-17, Cat. B |
| [6](file:///D%3A%5C%E4%BC%9A%E8%AE%AE%E7%A1%AC%E7%9B%98%5CTSGR3_115-e%5CDocs%5CR3-221522.zip) | [R3-221522](file:///D%3A%5C%E4%BC%9A%E8%AE%AE%E7%A1%AC%E7%9B%98%5CTSGR3_115-e%5CDocs%5CR3-221522.zip) | BL CR for NR MBS for 38.413 (Qualcomm Incorporated, Huawei) | CR0548r6, TS 38.413 v16.8.0, Rel-17, Cat. B |
| [7](file:///D%3A%5C%E4%BC%9A%E8%AE%AE%E7%A1%AC%E7%9B%98%5CTSGR3_115-e%5CDocs%5CR3-221523.zip) | [R3-221523](file:///D%3A%5C%E4%BC%9A%E8%AE%AE%E7%A1%AC%E7%9B%98%5CTSGR3_115-e%5CDocs%5CR3-221523.zip) | Introduction of NR Multicast and Broadcast Services (Ericsson) | CR0491r8, TS 38.423 v16.8.0, Rel-17, Cat. B |
| [8](file:///D%3A%5C%E4%BC%9A%E8%AE%AE%E7%A1%AC%E7%9B%98%5CTSGR3_115-e%5CDocs%5CR3-221525.zip) | [R3-221525](file:///D%3A%5C%E4%BC%9A%E8%AE%AE%E7%A1%AC%E7%9B%98%5CTSGR3_115-e%5CDocs%5CR3-221525.zip) | BL CR to TS38.420 (CMCC) | CR0022r3, TS 38.420 v16.0.0, Rel-17, Cat. B |
| [9](file:///D%3A%5C%E4%BC%9A%E8%AE%AE%E7%A1%AC%E7%9B%98%5CTSGR3_115-e%5CDocs%5CR3-221556.zip) | [R3-221556](file:///D%3A%5C%E4%BC%9A%E8%AE%AE%E7%A1%AC%E7%9B%98%5CTSGR3_115-e%5CDocs%5CR3-221556.zip) | Introduction of NR MBS (Nokia, Nokia Shanghai Bell) | draftCR |
| [10](file:///D%3A%5C%E4%BC%9A%E8%AE%AE%E7%A1%AC%E7%9B%98%5CTSGR3_115-e%5CDocs%5CR3-221557.zip) | [R3-221557](file:///D%3A%5C%E4%BC%9A%E8%AE%AE%E7%A1%AC%E7%9B%98%5CTSGR3_115-e%5CDocs%5CR3-221557.zip) | MBS BL CR for TS38.410 (ZTE) | CR0030r10, TS 38.410 v16.4.0, Rel-17, Cat. B |
| [11](file:///D%3A%5C%E4%BC%9A%E8%AE%AE%E7%A1%AC%E7%9B%98%5CTSGR3_115-e%5CDocs%5CR3-222160.zip) | [R3-222160](file:///D%3A%5C%E4%BC%9A%E8%AE%AE%E7%A1%AC%E7%9B%98%5CTSGR3_115-e%5CDocs%5CR3-222160.zip) | Rapporteur clean-up for TS 38.401 BL CR (Huawei) | other |