**3GPP TSG RAN Meeting #90e RP-20xxxx**

**Electronic Meeting, December 7 – 11, 2020**

**Agenda item:** 10.4

**Source:** Moderator (AT&T)

**Title:** Moderator's summary for email discussion [90E][37][MBMS\_flexible\_BW]

**Document for:** Discussion

# Introduction

In this document, we will provide a summary for the email discussion on MBMS flexible bandwidth for Rel-16 LTE at RAN#90-e.

# Topic #1: MBMS flexible bandwidth

## Proposed objectives

Topic #1 will capture the outcome of the discussions on the following documents:

1) RP-202793 [1] containing a discussion paper on support of flexible bandwidth for MBMS

2) RP-202412 [2] containing a TS 36.213 Cat-F Rel-16 CR on Flexible bandwidth for MBMS

3) RP-202413 [3] containing a TS 36.331 Cat-F Rel-16 CR on Flexible bandwidth for MBMS.

## Initial round

### Open issues

The following summarizes the key proposal listed in [1].

**Proposal 1: Allow configuring PMCH bandwidth larger than the system bandwidth indicated by MIB. The following PMCH bandwidth values are supported for :**

* **8MHz:**
* **7MHz:**
* **6MHz:**

### Companies views’ collection

Issue 1: Is Proposal 1 from RP-202793 agreeable?

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| --- | --- |
| **Company** | **Comments** |
| Qualcomm | We support the CR and proposals as is.  We also note the large number of supporting companies from all parts of the broadcasting ecosystem and others. This is an important corrections to ensure 3GPP technologies can proliferate in this vertical |
| EBU | We support the proposal and the associated CRs as they are. The proposal adds an important element to finish off the specification of LTE based 5G terrestrial broadcast (EnTV) which is a prerequisite for successful deployment of this technology for the broadcast vertical. |
| Rohde & Schwarz GmbH | We definitely support the proposal and the associated CRs as they are. The proposal helps finish off the specification of LTE based 5G terrestrial broadcast (EnTV) and enable a prerequisite for successful deployment of this technology for the broadcast vertical. It is highly needed to start commercial deployments. |
| Saankhya Labs | We support the CR and the proposal |
| MediaTek | No. we think the proposal itself is not a small change or simple correction for LTE Rel-16, which has already been technically frozen. In general, there should be a need to take some RAN work group level study (e.g. at RAN1, RAN2 and RAN4) to evaluate the technical requirement and the details of the candidate solutions. On top of that, we may know the feasibility for the flexible bandwidth in context of LTE MBMS operation. |
| IRT | We strongly support the CR and proposals as is. |
| Deutsche Telekom | We do not think that this proposal for Rel-16 should be approved, as Rel-16 is already frozen since a long time. We also do not see any clear motivation for any ongoing release. |

Issue 2: Is TS 36.213 Cat-F Rel-16 CR RP-202412 agreeable?

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| **Company** | **Comments** |
| Qualcomm | Same as above. The CRs are agreeable |
| EBU | Yes, see issue 1 |
| Rohde & Schwarz GmbH | CRs are agreeable. See issue 1 |
| Saankhya Labs | Support the CR. |
| MediaTek | No |
| IRT | The CRs are agreeable, see issue 1. |
| Deutsche Telekom | We do not see an urgent need that this CR should be approved, as Rel-16 is already frozen since a long time. |

Issue 3: Is TS 36.331 Cat-F Rel-16 CR RP-202413 agreeable?

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| **Company** | **Comments** |
| Qualcomm | Same as above. The CRs are agreeable |
| EBU | Yes, see issue 1 |
| Rohde & Schwarz GmbH | CRs are agreeable. See issue 1 |
| Saankhya Labs | Support the CR |
| MediaTek | No |
| IRT | The CRs are agreeable, see issue 1. |
| Deutsche Telekom | We do not see an urgent need that this CR should be approved, as Rel-16 is already frozen since a long time. |

### Summary and recommendation for further discussion

In this section, the summary of comments on Topic#1 and the corresponding recommendations are provided.

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|  | **Summary and recommendation** |
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## Intermediate round

### Open issues

### Companies views’ collection

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| **Company** | **Comments** |
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### Summary and recommendation for further discussion

In this section, the summary of comments on Topic#1 and the corresponding recommendations are provided.

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|  | **Summary and recommendation** |
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## Fine-tuning round

### Open issues

### Companies views’ collection

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| **Company** | **Comments** |
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### Summary and recommendation for further discussion

In this section, the summary of comments on Topic#1 and the corresponding recommendations are provided.

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|  | **Summary and recommendation** |
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## Final comments

# References

[1] RP-202793: Support of flexible bandwidth for MBMS; European Broadcasting Union (EBU), Academy of Broadcasting Planning (ABP), Academy of Broadcasting Science (ABS), ATEME, Broadcast Networks Europe (BNE) , Cellnex, Coherent Logix, Dolby, DTS/Xperi, Enensys, European Space Agency (ESA), Fraunhofer IIS, IIT Bombay, Institut für Rundfunktechnik (IRT), OneMedia 3.0 LLC, Panasonic, Philips, Qualcomm, Reliance Jio, Rohde&Schwarz, Saankhya Labs, Shanghai Jiao Tong University, SyncTechno Inc, TDF, TNO, University of the Basque Country, Vivo, VTT Technical Research Centre of Finland

[2] RP-202412: Flexible bandwidth for MBMS; European Broadcasting Union (EBU)

[3] RP-202413: Flexible bandwidth for MBMS; European Broadcasting Union (EBU)