**3GPP TSG-RAN WG4 Meeting # 97-e R4-200XXXX**

**Electronic Meeting, 2 – 13 Nov., 2020**

**Agenda item:** 5.2 and 6.5.2

**Source:** Skyworks Solution Inc.

**Title:** Email discussion summary for [97e][105] LTE UE RF maintenance

**Document for:** Information

# Introduction

*Briefly introduce background, the scope of this email discussion and provide some guidelines for email discussion if necessary.*

*List of candidate target of email discussion for 1st round and 2nd round*

* 1st round: 5 topics to be discussed for agenda:
* 5.2: LTE UE RF maintenance up to R15 + 6.4.2: LTE UE RF maintenance up to R16
	+ Topic 1: R15&16 Corrections to Bands an CA
	+ Topic 2: R15&16 Corrections to co-ex and AMPR
	+ Topic 3: NB-IoT FCC emission issues
	+ Topic 4: R15&16 Corrections to MBMS
* 2nd round: TBA

# Topic #1: Corrections to bands and CA

*Main technical topic overview. The structure can be done based on sub-agenda basis.*

## Companies’ contributions summary

|  |  |  |
| --- | --- | --- |
| **T-doc number** | **Company** | **Proposals / Observations** |
| [**R4-2014045**](https://www.3gpp.org/ftp/TSG_RAN/WG4_Radio/TSGR4_97_e/Docs/R4-2014045.zip)Correction of B88 UL EARFCN | Huawei,HiSilicon | In the current spec the UL starting EARFCN of band 88 equals to the UL end EARFCN of band 87 => The UL EARFCN of band 88 is increased by one.Moderator: comment directly in CR section 1.3.2 |
| [**R4-2014511**](https://www.3gpp.org/ftp/TSG_RAN/WG4_Radio/TSGR4_97_e/Docs/R4-2014511.zip)Band 88 and 87 bracket removal | Nokia | RAN4 M2 REFSENS requirement has brackets which means that the requriement is untestable => Brackets removed.Moderator: comment directly in C section 1.3.2 |
| [**R4-2016450**](https://www.3gpp.org/ftp/TSG_RAN/WG4_Radio/TSGR4_97_e/Docs/R4-2016450.zip)CR for 36.101: Corrections for UL CA\_41D | T-Mobile USA | There is an incorrect reference to a void section => Delete the reference to 6.6.3.3A.9, and add and CA\_41D to the header of 6.6.3.3A.8Moderator: comment directly in CR section 1.3.2 |
| [**R4-2014510**](https://www.3gpp.org/ftp/TSG_RAN/WG4_Radio/TSGR4_97_e/Docs/R4-2014510.zip) LTE CA corrections | Nokia | R4-2006725 was not implemented properly, CA\_13A-48A-48A-66A disappeared and is still in clauee 7 and errors to other configurations emerged. CA\_2A-48E-66A-66A has wrong aggregated BW. CA\_1A-18A-41C has invalid BCS reference.Moderator: comment directly in CR section 1.3.2 |
| [**R4-2016340**](https://www.3gpp.org/ftp/TSG_RAN/WG4_Radio/TSGR4_97_e/Docs/R4-2016340.zip) Rel-16 CR editorial corrections 36.101 | Ericsson | CA\_48B is defined, now corrected included in Table 5.6A.1-1 Corrected UL for CA\_3A-41A-42C Table 5.6A.1-2aCorrecting CA\_2A-4A-7C in Table 5.6A.1-2aCorrecting CA\_5A-48D-66A and CA\_5A-48D-66A-66A, CA\_2A-5A-48D-66A and CA\_2A-5A-48D-66A-66A References to CA 66A-66A changed to CA\_66A-66AReferences to CA 48C change to CA\_48CReferences to CA 48D change to CA\_48DCorrected UL bands for CA\_2A-13A-48A, CA\_2A-48A-66A and CA\_2A-14A-66A in MSD Table 7.3.1A-0gModerator: comment directly in CR section 1.3.2 |

## Open issues summary

*Before e-Meeting, moderators shall summarize list of open issues, candidate options and possible WF (if applicable) based on companies’ contributions.*

### Sub-topic 1-1

*Sub-topic description:* Band 87 and 88 corrections: please directly comment in the CR section 1.3.2

### Sub-topic 1-2

*Sub-topic description :* Correction to CA\_41D: please directly comment in the CR section 1.3.2

### Sub-topic 1-3

*Sub-topic description :*: CA\_13A-48A-48A-66A , CA\_2A-48E-66A-66A, CA\_1A-18A-41C corrections: please directly comment in the CR section 1.3.2

### Sub-topic 1-4

*Sub-topic description* : Corrections in Table 5.6A.1-1, 5.6A.1-2a and Table 7.3.1A-0g from [**R4-2016340**](https://www.3gpp.org/ftp/TSG_RAN/WG4_Radio/TSGR4_97_e/Docs/R4-2016340.zip): please directly comment in the CR section 1.3.2

## Companies views’ collection for 1st round

### Open issues

Moderator: Comment directly in CR section 1.3.2

### CRs/TPs comments collection

*Major close-to-finalize WIs and Rel-15 maintenance, comments collections can be arranged for TPs and CRs. For Rel-16 on-going WIs, suggest to focus on open issues discussion on 1st round.*

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| --- | --- |
| **CR/TP number** | **Comments collection** |
| [**R4-2014045**](https://www.3gpp.org/ftp/TSG_RAN/WG4_Radio/TSGR4_97_e/Docs/R4-2014045.zip) | Company A |
| Company B |
|  |
| [**R4-2014511**](https://www.3gpp.org/ftp/TSG_RAN/WG4_Radio/TSGR4_97_e/Docs/R4-2014511.zip) | Company A |
| Company B |
|  |
| [**R4-2016450**](https://www.3gpp.org/ftp/TSG_RAN/WG4_Radio/TSGR4_97_e/Docs/R4-2016450.zip) | Company A |
| Company B |
|  |
| [**R4-2014510**](https://www.3gpp.org/ftp/TSG_RAN/WG4_Radio/TSGR4_97_e/Docs/R4-2014510.zip) | Company A |
| Company B |
|  |
| [**R4-2016340**](https://www.3gpp.org/ftp/TSG_RAN/WG4_Radio/TSGR4_97_e/Docs/R4-2016340.zip) | [Nokia] Support, addition of CA\_48B is essential correction. |
| Company B |
|  |

## Summary for 1st round

### Open issues

*Moderator tries to summarize discussion status for 1st round, list all the identified open issues and tentative agreements or candidate options and suggestion for 2nd round i.e. WF assignment.*

|  |  |
| --- | --- |
|  | **Status summary**  |
| **Sub-topic#1** | *Tentative agreements:**Candidate options:**Recommendations for 2nd round:* |

*Recommendations on WF/LS assignment*

|  |  |  |
| --- | --- | --- |
|  | **WF/LS t-doc Title**  | **Assigned Company,****WF or LS lead** |
| #1 |  |  |

### CRs/TPs

*Moderator tries to summarize discussion status for 1st round and provides recommendation on CRs/TPs Status update*

|  |  |
| --- | --- |
| **CR/TP number** | **CRs/TPs Status update recommendation**  |
| XXX | *Based on 1st round of comments collection, moderator can recommend the next steps such as “agreeable”, “to be revised”* |

## Discussion on 2nd round (if applicable)

## Summary on 2nd round (if applicable)

*Moderator tries to summarize discussion status for 2nd round and provided recommendation on CRs/TPs/WFs/LSs Status update suggestion*

|  |  |
| --- | --- |
| **CR/TP/LS/WF number** | **T-doc Status update recommendation**  |
| XXX | *Based on 2nd round of comments collection, moderator can recommend the next steps such as “agreeable”, “to be revised”* |

# Topic #2: R15&16 Corrections to co-ex and AMPR

*Main technical topic overview. The structure can be done based on sub-agenda basis.*

## Companies’ contributions summary

|  |  |  |
| --- | --- | --- |
| **T-doc number** | **Company** | **Proposals / Observations** |
| [**R4-2014311**](https://www.3gpp.org/ftp/TSG_RAN/WG4_Radio/TSGR4_97_e/Docs/R4-2014311.zip) Clarifications and corrections on UE co-ex requirements(R15) | SoftBank Corp. | 1. NS related requirements (including Note 7, 8, 15,16) are deleted.
2. A sentence to clarify applicability of additional requirements is added
3. Some errors are corrected: - In 2UL-CA, note numbers of single band co-ex table seem to be copied in some of “Note 15” -> These should be Note 3(delta FOOB) in the CA table.- In single band table, B74 -> n77-n79 protections are missed.

Moderator: PHS band protection removed? Please comment in CR section 2.3.2 |
| [**R4-2014312**](https://www.3gpp.org/ftp/TSG_RAN/WG4_Radio/TSGR4_97_e/Docs/R4-2014312.zip) Clarifications and corrections on UE co-ex requirements(R16) | SoftBank Corp. | Moderator: Release 16 mirror CR (uploaded) will be agreed after R15 CR |
| [**R4-2014896**](https://www.3gpp.org/ftp/TSG_RAN/WG4_Radio/TSGR4_97_e/Docs/R4-2014896.zip) Coexistence cleanup for 36101 Rel15 | Apple Inc. | Correction of protected band list: CA\_1-26, CA\_3-28, CA\_7-26, CA\_11-26, CA\_11-18, CA\_19-21 and CA\_11-26Moderator: Please comment in CR section 2.3.2 |
| [**R4-2014897**](https://www.3gpp.org/ftp/TSG_RAN/WG4_Radio/TSGR4_97_e/Docs/R4-2014897.zip) Coexistence cleanup for 36101 Rel16 | Apple Inc. | Moderator: Release 16 mirror CR (uploaded) will be agreed after R15 CR |
| [**R4-2016426**](https://www.3gpp.org/ftp/TSG_RAN/WG4_Radio/TSGR4_97_e/Docs/R4-2016426.zip) LTE CA\_NS\_04 PC2 256QAM AMPR | Qualcomm Incorporated | **Observation 1**: The LTE 256QAM CA\_NS\_04 back-off should be at least be allowed the same back-off as the single CC NR DFT-s-OFDM 256QAM back-off within the similar RB boundary condition. Both back-off is calculated as max (MPR, AMPR).**Proposal:** Modify Power Class 2 LTE CA\_NS\_04 AMPR as in Table 2.1 Moderator: 256 QAM column: 8dB and 6.5dB depending on RB allocation. Proposal can be commented directly with CR [**R4-2014164**](https://www.3gpp.org/ftp/TSG_RAN/WG4_Radio/TSGR4_97_e/Docs/R4-2014164.zip)in CR section 2.3.2 |
| [**R4-2014164**](https://www.3gpp.org/ftp/TSG_RAN/WG4_Radio/TSGR4_97_e/Docs/R4-2014164.zip) LTE CA\_NS\_04 PC2 256QAM AMPR | Qualcomm Inc. | Revise 256QAM AMPR for PC2 CA\_NS\_04 in Table 6.2.4A.4-2 from FFS to 8dB and 6.5dB depending on RB allocation.Moderator: related to discussion paper [**R4-2016426**](https://www.3gpp.org/ftp/TSG_RAN/WG4_Radio/TSGR4_97_e/Docs/R4-2016426.zip)Please comment in CR section 2.3.2 |
| R4-2014163 LTE CA\_NS\_04 PC2 256QAM AMPR | Qualcomm Inc. | Moderator: Withdrawn or mirror CR (R16 CR too)? |
| R4-2014162 LTE CA\_NS\_04 PC2 256QAM AMPR | Qualcomm Inc. | Moderator: Withdrawn or mirror CR (R16 CR too)? |
| [**R4-2016008**](https://www.3gpp.org/ftp/TSG_RAN/WG4_Radio/TSGR4_97_e/Docs/R4-2016008.zip) LTE CA\_NS\_08 A-MPR Correction | Skyworks Solutions Inc. | Clarification on CA\_NS\_08 region where CA\_MPR should still apply for QPSK and 16 QAM in support for relevant section in CR [**R4-2016035**](https://www.3gpp.org/ftp/TSG_RAN/WG4_Radio/TSGR4_97_e/Docs/R4-2016035.zip)The comments can be done directly in CR section 2.3.2 |
| [**R4-2016035**](https://www.3gpp.org/ftp/TSG_RAN/WG4_Radio/TSGR4_97_e/Docs/R4-2016035.zip) CR Correction to B72 coex - CA\_NS\_08 - Band 10 protection 36.101 Rel15 | Skyworks Solutions Inc. | - Restore Band 72 list of protected bands, ie B72 and B31,- Band 10 protection removal has been agreed in R4-2011521. This CR applies this correction to Release 15,- Allow CA A-MPR for inner region CA\_NS\_08 allocations (discussed in [**R4-2016008**](https://www.3gpp.org/ftp/TSG_RAN/WG4_Radio/TSGR4_97_e/Docs/R4-2016008.zip)**)**Moderator: Please comment in CR section 2.3.2 |
| [**R4-2016040**](https://www.3gpp.org/ftp/TSG_RAN/WG4_Radio/TSGR4_97_e/Docs/R4-2016040.zip) CR Correction to B72 coex - CA\_NS\_08 - Band 10 protection 36.101 Rel16 | Skyworks Solutions Inc. | Moderator: Release 16 mirror CR (uploaded) will be agreed after R15 CR |

## Open issues summary

*Before e-Meeting, moderators shall summarize list of open issues, candidate options and possible WF (if applicable) based on companies’ contributions.*

### Sub-topic 2-1

*Sub-topic description:* Corrections to Coex tables: R15 CRs [**R4-2014311**](https://www.3gpp.org/ftp/TSG_RAN/WG4_Radio/TSGR4_97_e/Docs/R4-2014311.zip) and [**R4-2014896**](https://www.3gpp.org/ftp/TSG_RAN/WG4_Radio/TSGR4_97_e/Docs/R4-2014896.zip) and associated mirror CRs:comment in CR section 2.3.2

### Sub-topic 2-2

*Sub-topic description:* NS\_04 PC2 256 QAM AMPR proposal

**Issue 2-2: NS\_04 PC2 256 QAM AMPR**

* Recommended WF
	+ Moderator: 256QAM CA\_NS\_04 back-off should be at least be allowed the same back-off as single CC NS\_04
	+ WF: Since this is straight FW the comments can be collected for the CR [**R4-2014164**](https://www.3gpp.org/ftp/TSG_RAN/WG4_Radio/TSGR4_97_e/Docs/R4-2014164.zip) directly in section 2.3.2

### Sub-topic 2-3

*Sub-topic description:* CA\_NS\_08 0dB AMPR region

**Issue 2-2: CA\_NS\_08 0dB AMPR region**

* Recommended WF Some allocations in the region where A-MPR is not defined needs to benefit of CA\_MPR instead of 0dB, comments can be collected for the CR [**R4-2016035**](https://www.3gpp.org/ftp/TSG_RAN/WG4_Radio/TSGR4_97_e/Docs/R4-2016035.zip) directly in section 2.3.2

## Companies views’ collection for 1st round

### Open issues

|  |  |
| --- | --- |
| **Company** | **Comments** |
| XXX | Sub topic 2-1: ….Others: |

### CRs/TPs comments collection

*Major close to finalize WIs and Rel-15 maintenance, comments collections can be arranged for TPs and CRs. For Rel-16 on-going WIs, suggest to focus on open issues discussion on 1st round.*

|  |  |
| --- | --- |
| **CR/TP number** | **Comments collection** |
| [**R4-2014311**](https://www.3gpp.org/ftp/TSG_RAN/WG4_Radio/TSGR4_97_e/Docs/R4-2014311.zip) | [SoftBank] Response to moderator’s comment: This CR is to remove “additional” UE co-ex requirements (that need NS\_signalling) from the “general” UE co-ex table. (This activity was already done in NR based on the comments from various companies.) PHS protection is removed only in the combinations including Band 1 since the requirement need NS\_05, while the rest of PHS protection can be stayed as general requirements.And to clarify the applicability of additional requirements, new text is proposed to be added. The content is basically common to CRs submitted under [102: 38.101-1] and [104:38.101-3], except the modifications for referenced specs. |
| Company B |
|  |
| [**R4-2014896**](https://www.3gpp.org/ftp/TSG_RAN/WG4_Radio/TSGR4_97_e/Docs/R4-2014896.zip) | Company A |
| Company B |
|  |
| [**R4-2014164**](https://www.3gpp.org/ftp/TSG_RAN/WG4_Radio/TSGR4_97_e/Docs/R4-2014164.zip) | Company A |
| Company B |
|  |
| [**R4-2016035**](https://www.3gpp.org/ftp/TSG_RAN/WG4_Radio/TSGR4_97_e/Docs/R4-2016035.zip) | Company A |
| Company B |
|  |

## Summary for 1st round

### Open issues

*Moderator tries to summarize discussion status for 1st round, list all the identified open issues and tentative agreements or candidate options and suggestion for 2nd round i.e. WF assignment.*

|  |  |
| --- | --- |
|  | **Status summary**  |
| **Sub-topic#1** | *Tentative agreements:**Candidate options:**Recommendations for 2nd round:* |

*Suggestion on WF/LS assignment*

|  |  |  |
| --- | --- | --- |
|  | **WF/LS t-doc Title**  | **Assigned Company,****WF or LS lead** |
| #1 |  |  |

### CRs/TPs

*Moderator tries to summarize discussion status for 1st round and provided recommendation on CRs/TPs Status update suggestion*

|  |  |
| --- | --- |
| **CR/TP number** | **CRs/TPs Status update recommendation**  |
| XXX | *Based on 1st round of comments collection, moderator can recommend the next steps such as “agreeable”, “to be revised”* |

## Discussion on 2nd round (if applicable)

## Summary on 2nd round (if applicable)

*Moderator tries to summarize discussion status for 2nd round and provided recommendation on CRs/TPs/WFs/LSs Status update suggestion*

|  |  |
| --- | --- |
| **CR/TP/LS/WF number** | **T-doc Status update recommendation**  |
| XXX | *Based on 2nd round of comments collection, moderator can recommend the next steps such as “agreeable”, “to be revised”* |

# Topic #3: NB-IoT FCC emission issues

*Main technical topic overview. The structure can be done based on sub-agenda basis.*

## Companies’ contributions summary

|  |  |  |
| --- | --- | --- |
| **T-doc number** | **Company** | **Proposals / Observations** |
| [**R4-2015807**](https://www.3gpp.org/ftp/TSG_RAN/WG4_Radio/TSGR4_97_e/Docs/R4-2015807.zip) Test frequencies for NB-IOT UE in standalone operation | Sony | **Observation 1: TS 36.104 test conditions (test frequencies) for both stand-alone and guard-band NB-IoT operation may conflict with FCC band-edge spectrum emission requirements.**Observation 2: 100 kHz offset for NB-IoT network deployments may solve the violation of the FCC regulation.Proposal 1: Send an LS to RAN5 with proposal to exclude the first and last EARFCNs in TS 36.104 test frequencies for both stand-alone and guard-band IoT operation modes for all frequency bands were FCC regulation applies. |

## Open issues summary

*Before e-Meeting, moderators shall summarize list of open issues, candidate options and possible WF (if applicable) based on companies’ contributions.*

Follow up from RAN4#95/96 on FCC emission requirement for NB-IoT, LS to FCC was sent last meeting without answers yet. Proposal seems similar to the NS signaling approach that was proposed by other companies.

### Sub-topic 3-1

*Sub-topic description:* Is removing NB-IoT edge channels from RAN5 specification and test sufficient to avoid the issue at UE certification in FCC labs?

## Companies views’ collection for 1st round

### Open issues

|  |  |
| --- | --- |
| **Company** | **Comments** |
| Qualcomm | Sub topic 3-1: We’re still waiting for the reply LS from FCC. The information from FCC will have impact on how to proceed in RAN4/RAN5. |

### CRs/TPs comments collection

*Major close to finalize WIs and Rel-15 maintenance, comments collections can be arranged for TPs and CRs. For Rel-16 on-going WIs, suggest to focus on open issues discussion on 1st round.*

## Summary for 1st round

### Open issues

*Moderator tries to summarize discussion status for 1st round, list all the identified open issues and tentative agreements or candidate options and suggestion for 2nd round i.e. WF assignment.*

|  |  |
| --- | --- |
|  | **Status summary**  |
| **Sub-topic#1** | *Tentative agreements:**Candidate options:**Recommendations for 2nd round:* |

*Suggestion on WF/LS assignment*

|  |  |  |
| --- | --- | --- |
|  | **WF/LS t-doc Title**  | **Assigned Company,****WF or LS lead** |
| #1 |  |  |

### CRs/TPs

*Moderator tries to summarize discussion status for 1st round and provided recommendation on CRs/TPs Status update suggestion*

|  |  |
| --- | --- |
| **CR/TP number** | **CRs/TPs Status update recommendation**  |
| XXX | *Based on 1st round of comments collection, moderator can recommend the next steps such as “agreeable”, “to be revised”* |

## Discussion on 2nd round (if applicable)

## Summary on 2nd round (if applicable)

*Moderator tries to summarize discussion status for 2nd round and provided recommendation on CRs/TPs/WFs/LSs Status update suggestion*

|  |  |
| --- | --- |
| **CR/TP/LS/WF number** | **T-doc Status update recommendation**  |
| XXX | *Based on 2nd round of comments collection, moderator can recommend the next steps such as “agreeable”, “to be revised”* |

# Topic #4: R15&16 Corrections to MBMS

*Main technical topic overview. The structure can be done based on sub-agenda basis.*

## Companies’ contributions summary

|  |  |  |
| --- | --- | --- |
| **T-doc number** | **Company** | **Proposals / Observations** |
| [**R4-2015549**](https://www.3gpp.org/ftp/TSG_RAN/WG4_Radio/TSGR4_97_e/Docs/R4-2015549.zip) CR for 36.101 to clarify the SCS supports for LTE MBMS (Rel-14) | Huawei, HiSilicon | Based on the agreement in R4-2012604, UE doesn’t have to support all of the SCS, if UE support LTE MBMSFor MBMS feature, there is no need to meet the minimum requirements of transmitter characteristics for UE.Moderator, overlapping CR tackling the same issue than [**R4-2016129**](https://www.3gpp.org/ftp/TSG_RAN/WG4_Radio/TSGR4_97_e/Docs/R4-2016129.zip) , suggest to merge CRs, co-source and agree on wording for SCS support |
| R4-2015550 CR for 36.101 to clarify the SCS supports for LTE MBMS (Rel-15) | Huawei, HiSilicon | R15 mirror CR |
| R4-2015551 CR for 36.101 to clarify the SCS supports for LTE MBMS (Rel-16) | Huawei, HiSilicon | R16 mirror CR |
| [**R4-2016129**](https://www.3gpp.org/ftp/TSG_RAN/WG4_Radio/TSGR4_97_e/Docs/R4-2016129.zip) CR to TS 36.101 clarifications on supported SCS for UE supporting LTE MBMS | ZTE Corporation | There was some ambiguity existing for UE supporting LTE MBMS that whether all SCS should be supported. Based on the agreement in R4-2012604, MBMS UE doesn’t have to support all of the SCS, if UE support LTE MBMS.Moderator, overlapping CR tackling the same issue than [**R4-2015549**](https://www.3gpp.org/ftp/TSG_RAN/WG4_Radio/TSGR4_97_e/Docs/R4-2015549.zip): suggest to merge CRs, co-source and agree on wording for SCS support |
| R4-2016130 CR to TS 36.101 clarifications on supported SCS for UE supporting LTE MBMS | ZTE Corporation | R15 mirror CR |
| R4-2016131 CR to TS 36.101 clarifications on supported SCS for UE supporting LTE MBMS | ZTE Corporation | R16 mirror CR |

## Open issues summary

*Before e-Meeting, moderators shall summarize list of open issues, candidate options and possible WF (if applicable) based on companies’ contributions.*

### Sub-topic 4-1

*Sub-topic description:* UEs that only support MBMS do not need to support all SCS and do not need to support UL.

*Open issues and candidate options before e-meeting:*

**Issue 4-1: MBMS SCS and UL support**

* Recommended WF
	+ Moderator note: overlapping CRs from Huawei and ZTE, suggest to merge CRs, co-source and agree on wording for SCS support
	+ WF: Chose one company set of CR, co-source and agree on wording. This will need revision, proponent to agree on best starting CR.

## Companies views’ collection for 1st round

### Open issues

|  |  |
| --- | --- |
| **Company** | **Comments** |
| Qualcomm | Sub topic 4-1: It doesn’t work if MBMS terminal only support one kind of SCS. Supporting SCS of 15kHz is a must and at least an additional SCS, i.e., 7.5 kHz or 1.2kHz, etc should also be supported. Others: |

### CRs/TPs comments collection

*Major close to finalize WIs and Rel-15 maintenance, comments collections can be arranged for TPs and CRs. For Rel-16 on-going WIs, suggest to focus on open issues discussion on 1st round.*

|  |  |
| --- | --- |
| **CR/TP number** | **Comments collection** |
| [**R4-2015549**](https://www.3gpp.org/ftp/TSG_RAN/WG4_Radio/TSGR4_97_e/Docs/R4-2015549.zip)And[**R4-2016129**](https://www.3gpp.org/ftp/TSG_RAN/WG4_Radio/TSGR4_97_e/Docs/R4-2016129.zip) | ZTE: wording in [R4-2015549](https://www.3gpp.org/ftp/TSG_RAN/WG4_Radio/TSGR4_97_e/Docs/R4-2015549.zip) is not aligned with agreement made in last RAN4 meeting, if MBMS UE only support one kind of SCS e.g. 15KHz SCS only or 7.5KHz only, then eMBMS service is not supported for UE. We propose to use ZTE’s version as baseline. |
| Qualcomm: Agree with ZTE. It doesn’t work if MBMS terminal only support one kind of SCS. Supporting SCS of 15kHz is a must and at least an additional SCS, i.e., 7.5 kHz or 1.2kHz, etc should also be supported.  |
|  |

## Summary for 1st round

### Open issues

*Moderator tries to summarize discussion status for 1st round, list all the identified open issues and tentative agreements or candidate options and suggestion for 2nd round i.e. WF assignment.*

|  |  |
| --- | --- |
|  | **Status summary**  |
| **Sub-topic#1** | *Tentative agreements:**Candidate options:**Recommendations for 2nd round:* |

*Suggestion on WF/LS assignment*

|  |  |  |
| --- | --- | --- |
|  | **WF/LS t-doc Title**  | **Assigned Company,****WF or LS lead** |
| #1 |  |  |

### CRs/TPs

*Moderator tries to summarize discussion status for 1st round and provided recommendation on CRs/TPs Status update suggestion*

|  |  |
| --- | --- |
| **CR/TP number** | **CRs/TPs Status update recommendation**  |
| XXX | *Based on 1st round of comments collection, moderator can recommend the next steps such as “agreeable”, “to be revised”* |

## Discussion on 2nd round (if applicable)

## Summary on 2nd round (if applicable)

*Moderator tries to summarize discussion status for 2nd round and provided recommendation on CRs/TPs/WFs/LSs Status update suggestion*

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| **CR/TP/LS/WF number** | **T-doc Status update recommendation**  |
| XXX | *Based on 2nd round of comments collection, moderator can recommend the next steps such as “agreeable”, “to be revised”* |