**3GPP TSG-RAN WG4 Meeting #98-e *R4-21xxxxx***

**Electronic Meeting, 25 January – 5 February, 2020**

**Agenda item:** 4.4, 5.1, 7.19.4

**Source:** Moderator (Ericsson)

**Title:** Email discussion summary for [98e Bis][301] BS RF Maintenance

**Document for:** Information

# Introduction

The e-mail discussion covers Rel-15 and Rel-16 BS RF Core maintenance for NR, LTE and MS BS, i.e. Agenda items 4.4, 5.1 and 7.19.4.

The BS RF core spec TS 38.104 is very stable in Rel-15 and Rel-16 and there are few contributions in this area. Contributions were submitted within the following Topics:

1. Japanese regulation for 2.5GHz (BWA)
2. AAS capability set and support for NR+UTRA
3. Other maintenance

All topics include CRs for corrections.

# Topic #1: Japanese regulation for 2.5GHz (BWA)

The background for the Japanese regulation is given in an information paper in R4-2101016, accompanied with a set of CRs for NR and LTE specs (core + conformance) in R4-2101082 to R4-2101090.

## Companies’ contributions summary

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| **T-doc number** | **Company** | **Proposals / Observations** |
| R4-2101016 | SoftBank Corp., KDDI Corporation, NEC Corporation | **Support of Japan regulation for 2.5GHz(BWA) in NR BS**  Information and background. |

(Cat A CRs are not listed)

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| **T-doc number** | **Company** | **Proposals / Observations** |
| R4-2101082 | NEC, SoftBank, KDDI | **CR to TS 36.104: Additions of regional requirements for band 41 in Japan, Rel-15**  Summary of change:  Updated list of regional requirements. Modified additional requirement for BS output power. Updated spurious emissions requirement. Added text for ACLR, OBUE, tx spurious, rx spurious requirements to indicate regional regulation may specify them differently. |
| R4-2101085 | NEC, SoftBank, KDDI | **CR to TS 36.141: Additions of regional requirements for band 41 in Japan, Rel-15**  Summary of change:  Updated list of regional requirements. Modified additional requirement for BS output power. Updated spurious emissions requirement. Added text for ACLR, OBUE, tx spurious, rx spurious requirements to indicate regional regulation may specify them differently. |
| R4-2101088 | NEC, SoftBank, KDDI | **CR to TS 38.104: Additions of regional requirements for n41 in Japan, Rel-15**  Summary of change:  Updated list of regional requirements. Added additional requirement for BS output power. Added additional spurious emissions requirement. Added text for ACLR, OBUE, tx spurious, rx spurious requirements to indicate regional regulation may specify them differently for BS type 1-C. |
| R4-2101089 | NEC, SoftBank, KDDI | **CR to TS 38.104: Additions of regional requirements for n41 and n90 in Japan, Rel-16**  Summary of change:  Updated list of regional requirements. Added additional requirement for BS output power. Added additional spurious emissions requirement. Added text for ACLR, OBUE, tx spurious, rx spurious requirements to indicate regional regulation may specify them differently for BS type 1-C. |
| R4-2101091 | NEC, SoftBank, KDDI | **CR to TS 38.141-1: Additions of regional requirements for n41 in Japan, Rel-15**  Summary of change:  Updated list of regional requirements. Added additional requirement for BS output power. Added additional spurious emissions requirement. Added text for ACLR, OBUE, tx spurious, rx spurious requirements to indicate regional regulation may specify them differently for BS type 1-C. |
| R4-2101092 | NEC, SoftBank, KDDI | **CR to TS 38.141-1: Additions of regional requirements for n41 and n90 in Japan, Rel-16**  Summary of change:  Updated list of regional requirements. Added additional requirement for BS output power. Added additional spurious emissions requirement. Added text for ACLR, OBUE, tx spurious, rx spurious requirements to indicate regional regulation may specify them differently for BS type 1-C. |
| R4-2101094 | NEC, SoftBank, KDDI | **CR to TS 38.141-2: Additions of regional requirements for n41 in Japan, Rel-15**  Summary of change:  Updated list of regional requirements. Added additional requirement for BS output power. Added additional spurious emissions requirement. |
| R4-2101095 | NEC, SoftBank, KDDI | **CR to TS 38.141-2: Additions of regional requirements for n41 and n90 in Japan, Rel-16**  Summary of change:  Updated list of regional requirements. Added additional requirement for BS output power. Added additional spurious emissions requirement. |

## Companies views’ collection for 1st round

### Open issues

Please submit any questions or comments on the information provided about Japanese regulation for 2.5 GHz (BWA).

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| **Company** | **Comments** |
| Nokia | Is there any benefit to include the text “unless stated differently in regional regulation” in 3GPP spec, if no requirement is specified? We suggest removing such phrase from all the CRs.  For CRs to 36.xxx, only required change is to take away -22dBm/MHz in 2535-2655 MHz from additional spurious emissions limits for band 41. No other proposed modification is needed.  For CRs to 38.xxx, do you need to include the upper limit of rated output power. Normally, we do not include such information in BS spec unlike UE spec (where a global limit exists). |
| Samsung | Would like to clarify the regulation on Tx max power limitation for NR. In LTE spec limitation on both 10MHz and 20MHz defined, but for NR only 20W/10MHz considered in CR while the CBW stated as 10/20/30/40/50MHz in background slide. It seems 20W/10MHz is considered as PSD limitation applicable for 20/30/40/50MHz CBW rather than the limitation which is only applied for CBW of 20MHz. If so it may be more straightforward to capture a table with this limitation for all applicable CBW for NR as well. |
| Ericsson | Question on Mask: The mask described is carrier-centric with two breakpoints at 150% and 250% of CBW, which is different from the 3GPP OBUE masks. Is the understanding that this is to be handled through a reference to “regional regulation” instead of a detailed description? |
| NEC | To Nokia: We agree to avoid “unless stated differently in regional regulation” and add “In certain region, the requirements may (for BS type 1-C) may be specified for sum of the emission at each antenna connector”. Please see NEC reply to CR comments in the next section.  We do not have a limitation on BS declared rated output power as a general requirement in 3GPP specs, but we have in Japan regulation. We need to mention it. We can see similar regional requirements text in TS36.104.  To Samsung: The text we can see in Japan regulation is “Maximum output power shall be equal to or less than 20W per 10MHz bandwidth”. As Samsung stated it is the PSD applicable for all CBWs, we think it is beneficial to make the text similar to the original one.  To Ericsson: Thanks for spotting out an issue. In 36.xxx, we have additional OBUE limits for band 41. They shall be updated. In 38.xxx, we do not have additional OBUE limits for n41 (and n90). We shall have them. CRs need to be updated. |

### CRs/TPs comments collection

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| **CR/TP number** | **Comments collection** |
| R4-2101082, R4-2101085, R4-2101088, R4-2101089, R4-2101091, R4-2101092, R4-2101094, R4-2101095 | Nokia: See comments above. |
| Ericsson: A few comments and questions:   1. Limits in the CRs are in several places defined “per cell”. This is not a concept that we have used previously in 3GPP specifications and it is not defined anywhere. All limits are related to the antenna connector, so it would not be possible to declare conformance to a limit “per cell”.  Would it be possible to consistently use e.g. “sum over antenna connectors”, as is done for BS power in the proposed test spec CRs? 2. The CR in R4-2101082 (36.104) has a statement added of “applying regionally” for the generic Category A limit. This is very unfortunate since limits are copied from ITU-R regulation, and the text is not added in R4-2101085 (36.141). What is the reason? 3. The CRs do in several places refer to limits “unless stated differently in regional regulation”. This could be avoided, since exceptions in regional regulation always exists and do not always have to be stated, unless there are specific regional limits added. |
| NEC: To Ericsson. Thanks for the comments and questions.   1. Agree the idea to change “per cell” to “sum over antenna connectors”. 2. The statement for spurious emission (category A) is missing in R4-2101085. Even it is a category A limit, we need a statement (according to the reply to 3.). 3. We found the difference between 3GPP spec for 1-C and Japan regulation is the reference point, not the limits. We also see the text in 6.1 (38.104),   “Unless otherwise stated, the conducted transmitter characteristics are specified at the antenna connector for BS type 1-C and at the TAB connector for BS type 1-H, with a full complement of transceiver units for the configuration in normal operating conditions.”  Therefore, we would like to propose to avoid “unless stated differently in regional regulation” and add a new text “In certain region, the requirements for BS type 1-C may be specified for sum of the emission power at each antenna connector” |
| YYY | Company A |
| Company B |
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## 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.*

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

*Recommendations on WF/LS assignment*

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

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

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| **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”* |

# Topic #2: AAS capability set and support for NR+UTRA (CRs)

This is a continuing topic from RAN4 #96-e and 97-e. For this meeting, there are two sets of CRs available.

## Companies’ contributions summary

(Cat A CRs are not listed)

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| **T-doc number** | **Company** | **Proposals / Observations** |
| R4-2102563 | Huawei, China Unicom | **CR to TS 37.105: Introduction of new BS capability set for NR+EUTRA+UTRA, Rel-16**  Summary of change:  - 4.1: clarification on the supported RATs - 6.6.5.2.2, 6.6.5.2.3: updates to the OBUE applicability table and related OBUE tables headers corrections - 7.4.2.1: conducted general blocking table updated  - 7.7.2.1: conducted Tx IMD table updated - 10.5.2.1: OTA general blocking table updated - 10.8.2.1: OTA Tx IMD table updated |
| R4-2102565 | Huawei, China Unicom | **CR to TS 37.145-1: Introduction of new BS capability set for NR+EUTRA+UTRA, Rel-16**  Summary of change:  - 4.9: introduction of CSA3B for UTRA, EUTRA, NR multi-RAT case. - 4.11.2.8.1.2 (ATC5a): applicabiltiy table updated with new CS - 4.11.2.8.2 (ATC5b): MSR changes reflected. Applicabiltiy table updated with new CS - 4.11.2.9, 4.11.2.10 (ATC6, ANTC6): MSR changes reflected. Power allocation section updated.  - 4.11.2.13, 4.11.2.14 (ATC8, ANTC8): new section for UTRA, E-UTRA and NR multi-RAT operation - 5.2: Test configuration applicability table updated with nes CSA3B test case  - 6.6.5.5.2, 6.6.5.5.3: updates to the OBUE applicability table and related OBUE tables headers corrections  - 7.4.5.1.1: general blocking table updated  - 7.7.5.1.1: Tx IMD table updated |
| R4-2102567 | Huawei, China Unicom | **CR to TS 37.145-2: Introduction of new BS capability set for NR+EUTRA+UTRA, Rel-16**  Summary of change: - 4.9: introduction of RCSA3B for UTRA, EUTRA, NR multi-RAT case. - 4.11.2.8.1.2 (ATCR5): applicability table updated with new CS - 4.11.2.8.2 (ATCR5b): MSR changes reflected. Applicabiltiy table updated with new CS - 4.11.2.9, 4.11.2.10 (ATCR7, ANTCR7): MSR changes reflected. Power allocation section updated.  - 4.11.2.13, 4.11.2.14 (ATCR9, ANTCR9): new section for UTRA, E-UTRA and NR multi-RAT operation - 5.2: Test configuration applicability table updated with nes RCSA3B test case  - 6.6.5.5.2, 6.6.5.5.3: conducted OBUE applicability table introduced for Band Category 1, 2, 3; table headers updated - 7.8.5.1.1: Tx IMD table updated |
| R4-2102844 | Ericsson | **CR to 37.105 on NR+UTRA support for AAS**  Summary of change:  It is added explicitly to the General section that for AAS BS, GSM/EDGE operation is not supported and that UTRA operation is only supported as single-RAT or in combination with E-UTRA. |

## Open issues summary

### Sub-topic 2-1

In the work item MSR\_GSM\_UTRA\_LTE\_NR, the MSR BS specification was extended with additional Capability Sets and requirements for NR + UTRA/GSM combinations. These were not reflected in the AAS specifications, which were not part of the work item.

The CRs submitted provides two different solutions for the AAS specifications.

**Issue 2-1: Options for Capability sets including UTRA in AAS specs**

* Proposals
  + **Option 1: (CR in R4-2102844)**Add an explicit statement in the AAS core spec that UTRA operation is only supported as single-RAT or in combination with E-UTRA.
  + **Option 2: (CRs in R4-2102563, R4-2102565, R4-2102567)**Update relevant AAS core and test requirements to cover combined NR & UTRA support, and add a new Capability Set for AAS with NR, E-UTRA and UTRA, plus two new Test Configurations.

Note that the options given above are the same as at RAN4 #97-e.

## Companies views’ collection for 1st round

### Open issues

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| **Company** | **Comments** |
| Ericsson | Sub topic 2-1: If there is operator interest in UTRA+E-UTRA+NR operation, a way forward would be to apply option 1 in Rel-15 and Option 2 in Rel-16 |

### CRs/TPs comments collection

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| **CR/TP number** | **Comments collection** |
| R4-2102563 | Ericsson: For the OBUE tables, some of the updates need clarification: - Introduction of Option 1 and 2 is not motivated. The original AAS specs were developed without using these options – why is it re-introduced? - Many of the OBUE updates are difficult to understand and to see what the consequences are. It is proposed to sort these out one-by-one ion a structured way. The methodology proposed by Ericsson in R4-2102853 could be applied.  For blocking and IM tables: - The updates for General blocking are also difficult to understand. E.g. the updated Note 2 to 5 seems to be in conflict and needs to be sorted out (they are difficult to understand even before updating). - The updates to General IM also has inconsistencies for Notes 2 to 5.  Overall, we need to make sure that the changes do not impact other RATs or RAT combinations. Overlapping CR also needs to be accounted for: R4-2102853 on the OBUE table headings. |
| NEC: We have concern on introducing option 1 and 2 for the OBUE requirement tables. According to the proposal, tables for wide area BS are specified only for category B option 1 or option 2. Category A requirements are removed. |
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| R4-2102565 | Ericsson: For the new TCs (ATC8 and ANTC8), there are change marks identifying the source, but it is very difficult to follow and understand due to additional changes. An explanation for what TCs are used as source, the reasoning and what has been modified would be very good to have on the cover page.  For the OBUE tables, same comments apply as for R4-2102563, with the following additions: - A new Table 6.6.5.5.2-2c is added, please explain.  For blocking and IM tables same comments apply as for R4-2102563.  Overall, we need to make sure that the changes do not impact other RATs or RAT combinations. Overlapping CR also needs to be accounted for: R4-2102856 on the OBUE table headings. |
| NEC: Same comments as for R4-2102563. |
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| R4-2102567 | Ericsson: For the new TCs (ATCR9 and ANTCR9), there are change marks identifying the source, but it is very difficult to follow and understand due to additional changes. An explanation for what TCs are used as source, the reasoning and what has been modified would be very good to have on the cover page.  For the OBUE tables, same comments apply as for R4-2102563.  For IM table same comments apply as for R4-2102563.  Overall, we need to make sure that the changes do not impact other RATs or RAT combinations. Overlapping CRs also needs to be accounted for: R4-2102859 on the OBUE table headings and R4-2102426 on Conformance corrections. |
| NEC: Same comments as for R4-2102563. |
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| R4-2102844 | NEC: We are fine to add an explicit statement. However, if it is added the position of the text shall be in “Scope”, clause 1. Proposed text is not on the relationship between the AAS spec and other specs. |
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## 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.*

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

*Suggestion on WF/LS assignment*

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

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

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| **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”* |

# Topic #3: Other maintenance (CRs)

Five diverse topics are covered by CRs under “Other maintenance”:

* Correction of antenna model in TR 38.820.
* EESS protection requirement correction.
* Correction to ACLR limit in non-contiguous spectrum (CR implementation correction).
* Removal of additional limit for Band 7
* OBUE table headings and applicability in MSRT and AAS specs  
  (NOTE: The CRs for TS 37.105 and TS 37.145-1/2 may partly overlap with CRs for Topic #2: AAS capability set and support for NR+UTRA.)

## Companies’ contributions summary

(Cat A CRs are not listed)

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| **T-doc number** | **Company** | **Proposals / Observations** |
| R4-2101180 | Ericsson | **CR to TR 38.820: Correction of antenna model in subclause 7.2.4**  Summary of change: The parameter definition is aligned with array factor equations given in the array antenna model, captured in Table 7.2.4-2. Currently, the definition of rows and columns are mixed and does not map towards the array factor definition, originally defined in TR 37.840. |
| R4-2101994 | Nokia, Nokia Shanghai Bell | **CR to TS 38.104: EESS protection requirement correction**  Summary of change: The statement that protection limit enters into force in 1 January 2021 is removed. |
| R4-2101997 | Nokia, Nokia Shanghai Bell | **CR to TS 38.141-2: EESS protection requirement correction**  Summary of change: The statement that protection limit enters into force in 1 January 2021 is removed. |
| R4-2102441 | Nokia, Nokia Shanghai Bell | **CR to 37.141: Correction to ACLR limit in non-contiguous spectrum (Rel-15)**  Summary of change: “NR” is removed in NOTE 3 to address E-UTRA carrier transmitted at the other edge of the gap. “NR” is added back in NOTE 4 as in agreed CR in R4-2016186 and R4-2016187. |
| R4-2102841 | Ericsson | **CR to 37.145-1 on Removal of additional limit for Band 7**  Summary of change: The additional limit for Band 7 is removed. |
| R4-2102847 | Ericsson | **CR to 37.104 on OBUE table headings and applicability**  Summary of change: The CR corrects the headings to align with the intended applicability. The revised headings are all written with the same structure: “<BS class> BS operating band unwanted emission mask (UEM) in <BC> bands <f. range> applicable for: <BS type 1>; <BS type 2>; …” Where  <BS class> = “Wide Area”, “Medium range” or “Local Area”  <BC> = BC1, BC2, BC3 or combination thereof  <f range> = Limitation to frequency range for bands, e.g. “below 1 GHz”  <BS type> = A set of conditions on supported RAT(s), specific bands, etc., always starting with “BS…”, separated by “,” and an “and” for the final condition. Condition on max power is always first.  If there are multiple types, they are separated by “;” |
| R4-2102850 | Ericsson | **CR to 37.141 on OBUE table headings and applicability**  Summary of change: Same as for TS 37.104. |
| R4-2102853 | Ericsson | **CR to 37.105 on OBUE table headings and applicability**  Summary of change: Same as for TS 37.104. |
| R4-2102856 | Ericsson | **CR to 37.145-1 on OBUE table headings and applicability**  Summary of change: Same as for TS 37.104. |
| R4-2102859 | Ericsson | **CR to 37.145-2 on OBUE table headings and applicability**  Summary of change: Same as for TS 37.104. |

## Companies views’ collection for 1st round

### CRs/TPs comments collection

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| **CR/TP number** | **Comments collection** |
| R4-2101180 | Nokia: In TR 38.803, M denotes the number of rows and N denotes the number of columns, these were copied from RAN1 TR 38.900 and have since been copied to many other RAN4 TRs, hence it is better to swap the m and n indexes in the formula instead of swapping M and N to avoid confusion. |
| Ericsson: The intension with the update is to align all information in the LS to ITU-R. There are more issues to resolve, but those we need to take separately. The alignment between RAN1 and RAN4 is such an issue. The intension is to align parameters so we in RAN4 understands the model and corresponding parameters.  In addition, we may need to also update TR 38.803 if necessary. The error we have actually flip the antenna 90 degrees, so it is quite important to fix as soon as possible. Reviewing the TR affected, we draw the conclusion that this is the most effective change. As long as RAN4 and RAN1 defined the parameters, it is not an issue. |
| Nokia2: The issue is not only between RAN4 and RAN1 TR, other RAN4 TRs (e.g. IAB TR 38.809) have M denotes the number of rows and N denotes the number of columns, so this CR will create confusion among RAN4 TRs. |
| NEC: We have same concern as Nokia. |
| R4-2102847; R4-2102850; R4-2102853; R4-2102856; R4-2102859 | Nokia: Not all changes are consistent with previously agreed text, e.g. not clear if ';' means 'or' in the table headings. |
| Ericsson: Please identify which changes are not consistent with previously agreed text.  Regarding use of “,”, it is used to separate multiple conditions that need to be met and the final separation is always “and”. That should be consistent since “A, B, C and D” means that you need to fulfil all four conditions A to D. |
| Nokia2: It seems that the semicolon “;” is used to replace “or” (but not “and”) in the original headings, e.g. in Table 6.6.2.1-1: Wide Area BS operating band unwanted emission mask (UEM) in BC1 and BC3 bands applicable for: BS not supporting NR; BS operating NR in Band 1, 7 and/or 38 in Europe; BS with standalone NB-IoT at the BS RF bandwidth edge (irrespective of NR support). Moreover, BC3 is not included in the existing headings for Table 6.6.2.1-1c, Table 6.6.2.1-2, Table 6.6.2.1-2b, Table 6.6.2.1-3b, Table 6.6.2.2-2a, Table 6.6.2.2-2b, but it is included in the proposed CR. |
| NEC: Table 6.6.2.1-1, 6.6.2.1-1c, 6.6.2.2-2a, 6.6.2.2-2b, NR band numbers shall be nXX, not XX. |

## 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.*

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

*Suggestion on WF/LS assignment*

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

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

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| **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”* |