**3GPP TSG-RAN WG4 Meeting #102-e R4-21xxxxx**

**Electronic Meeting, 21st February – 3rd March 2022**

**Agenda item:** 5.1.1.1, 5.1.5.2, 5.1.5.2.1, 5.1.5.2.2, 5.1.5.2.3, 5.2.2

**Source:** Moderator (OPPO)

**Title:** Email discussion summary for [102-e][102] R16\_Maintenance

**Document for:** Information

# Introduction

This summary covers the papers submitted in agenda 5.1.1.1, 5.1.5.2, 5.1.5.2.1, 5.1.5.2.2, 5.1.5.2.3, 5.2.2 which are targeting R16 maintenance for 38.307, 38.101-1, 38.101-2, 38.101-3, 38.104 and 36.101.

# Topic #1: 38.307

## Companies’ contributions summary

|  |  |  |
| --- | --- | --- |
| **T-doc number** | **Company** | **Proposals / Observations** |
| R4-2204065  R4-2204066 (CAT-A) | CHTTL, China Unicom, ZTE | draft CR to TS 38.307 on Release independence of FDD-TDD EN-DC High Power UE |
| R4-2203988  R4-2203989 (CAT-A) | ZTE | Draft CR to TS 38.307 on NR UE power class |
| R4-2203992 | ZTE | Draft CR to TS 38.307 on NR intra-band CA BW class within FR1 (Rel-16) |
| R4-2204975  R4-2204976 (CAT-A) | vivo | Resubmission of CR to TS 38.307 on Release independence of FDD-TDD EN-DC High Power UE |

## CRs/TPs comments collection

|  |  |
| --- | --- |
| **CR/TP number** | **Comments collection** |
| R4-2204065  R4-2204066 (CAT-A) | draft CR to TS 38.307 on Release independence of FDD-TDD EN-DC High Power UE |
|  |
| R4-2204975  R4-2204976 (CAT-A) | Resubmission of CR to TS 38.307 on Release independence of FDD-TDD EN-DC High Power UE  *Note: These two CR changes are same as R4-2204065 and its CAT-A CR, only one of them is needed.* |
|  |
| R4-2203988  R4-2203989 (CAT-A) | Draft CR to TS 38.307 on NR UE power class |
|  |
| R4-2203992 | Draft CR to TS 38.307 on NR intra-band CA BW class within FR1 (Rel-16) |
|  |

## Summary for 1st round

### CRs/TPs

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

*Note: The tdoc decisions shall be provided in Section 3 and this table is optional in case moderators would like to provide additional information.*

|  |  |
| --- | --- |
| **CR/TP number** | **CRs/TPs Status update recommendation** |
|  |  |

# Topic #2: 38.101-1

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

## Companies’ contributions summary

|  |  |  |
| --- | --- | --- |
| **T-doc number** | **Company** | **Proposals / Observations** |
| R4-2203613  R4-2203614 (CAT-A) | Rohde & Schwarz | Correction to n46 channel raster |
| R4-2204602  R4-2204603 (CAT-A) | Ericsson | Correction to the note on the use of operating bands for shared spectrum access |
| R4-2203676  R4-2203677 (CAT-A) | Apple | draftCR to 38.101-1 on new NS for Canadian WCS regulation R16 |
| R4-2204199  R4-2204200 (CAT-A) | Qualcomm | n1 and n65 coexistence fix CR Cat-F rel 16 |
| R4-2204210 | Qualcomm | n65 AMPR discrepancies |
| R4-2204208  R4-2204209 (CAT-A) | Qualcomm | n65 AMPR discrepancies rel 16 CR Cat-F rel 16 |
| R4-2204512 | China Telecom | Draft CR to 38.101-1 Correction on UE maximum output power for intra-band CA (R16) |
| R4-2204737  R4-2204738 (CAT-A) | ZTE | Draft CR to TS38.101-1: Corrections on REFSEN for CA |
| R4-2205184  R4-2205185 (CAT-A) | Huawei, HiSilicon | Draft CR for 38.101-1 updating note in MSD tables (Rel-16) |
| R4-2205186  R4-2205187 (CAT-A) | Huawei, HiSilicon | Draft CR for 38.101-1 updating references in V2X test cases (Rel-16) |
| R4-2205297  R4-2205298 (CAT-A) | Huawei, HiSilicon | Draft CR for 38.101-1 to correct configured transmit power for V2X(R16) |
| R4-2205881  R4-2206093 (CAT-A) | Qualcomm | Corrections on carrier leakage requirement |
| R4-2206011 | Qualcomm | Proposal: Based on these 3 observations, no new NS is required for WCS band n30 in Canada. |
| R4-2203686 | Apple | **Observation 1**: Additional distortions might occur on a signal traveling through the UE RF path.  **Proposal 1:** Keep the average EVM level for 256QAM at 8% and remove the brackets.  **Observation 2:** Our understanding is that the main purposes for the start position of EVM exclusion window is to provide a basis for test requirements at TE and it is therefore unclear what it means for testing when choosing between two different start positions. |
| R4-2204823 | Huawei, HiSilicon | ***Observation 1: 25% CP is only the theoretical WOLA window length. Shorter WOLA window can be applied to alleviate the spectrum emission in the real implementation especially when the issue is less serious for large RB allocation***.  ***Observation 2: Anti-multipath is a major factor that is considered for gNB FFT window placement.***  ***Observation 3: Sync error among all access UEs is another important factor that is considered for gNB FFT window placement.***  ***Observation 4: Due to the trade-off among all possible factors, gNB solution is fixed FFT window placement rather than floating for all access UEs. UE implementation should be adaptable to gNB for better UL performance.***  ***Observation 5: The transient period capabilities’ test design, e.g., the asymmetric transient period position, currently captured in TS 38.101-1 has already considered for both UE testability/implementation and gNB demodulation implementation.***  ***Proposal 1: WOLA window length assumption needs to be clarified for the measurements in R4-2111539***.  ***Proposal 2: Remove all the bracket for shorter transient period requirements, including tpstart value for each Tp and relaxed EVM requirements.*** |
| R4-2206125 | Skyworks | CR to R16 TS38.101-1 on transient period capability |
| R4-2204518 | Qualcomm | **Proposal: tpstart=[-0.6] for 2us capability (to be verified with both 15kHz and 30kHz SCS) and tpstart=[-2.7]us for 7us capability(to be verified with 15kHz SCS). Tighten EVM to [6%] for 256QAM.** |
| R4-2203687 | Apple | **Observation 1**: RAN1 definition of guard period exists since Rel-15 and is the basis for RAN4 SRS antenna switching time mask definition.  **Observation 2**: There seems to be no need to send an LS to RAN1 as the specification does not leave room for interpretations and there is no fundamental flaw in the design.  **Proposal 1**: RAN4 should follow corresponding RAN1 specification to avoid inconsistencies.  **Proposal 2**: Regarding Rel-16 SRS antenna switching for SRS resources of the same set there should be no changes made to the time mask. |
| R4-2204621 | Ericsson | **Observation 1:**   * **for operations with 2 UL symbols in special slot**, AS or AS+FH cannot be used at all (i.e., for any of 1T2R, 2T4R, 1T4R) since there is no room for a guard period G; * **for operations with 3-4 UL symbols in special slot**, AS+FH cannot be used at all. AS only (without FH) can be used for 1T2R and 2T4R, 1T4R cannot be used in a single slot at all (the latter for periodic/semi-persistent SRS)   we make the following  **Proposal 1: for FeMIMO, remove the guard period *Y* between the SRS resources of the SRS set used for antenna switching in the SRS time mask for SCS = 15k and 30k with a view to solve the problematic cases with AS use in the special slot. This should apply at least for**   * **UEs capable of the transient-time capability reducing the overall transient time excluding the switch** * **SRS transmissions SRS resources associated with different antenna ports of the same bandwidth (PRBs as set by mSRS,b) significantly reducing the power changes**   to allow efficient use of the special slot without requiring changes of the special slot patterns used for TDD coordination.  For transmissions between SRS resource sets, we propose  **Proposal 2: in view of the 15 us transient time (notwithstanding the transient-time capability, transmissions of PUCCH and PUSCH can be transmitted between SRS resource sets with usage ‘antennawitching’ without *mandated* guard symbols for SCS = 15k and 30k.**  **Observation 2: not being able to transmit e.g. PUCCH between SRS resource sets for AS in DL-heavy TDD configurations would be inefficient.** |

## 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 n65 AMPR

**Issue 2-1-1: Whether it is acceptable for below two proposals from R4-2204210**

* Proposal 1: Modify NS\_51 A1 AMPR in Table 6.2.3.28-2 in the specification from 15dB to 17dB to address specification alignment and measurement margin.
* Proposal 2: Modify NS\_24 region A and region C boundaries to the highlighted values shown in Table 2.2-1 and Table 6.2.3.15-1 in the specification.
  + Option 1: Yes
  + Option 2: No, and reason

|  |  |
| --- | --- |
| **Company** | **Comments** |
|  |  |
|  |  |

### Sub-topic 2-2 NS for WCS band n30 in Canada

**Issue 2-2-1: Whether it is acceptable for below proposal from R4-2206011**

* Proposal: Based on these 3 observations, no new NS is required for WCS band n30 in Canada.
  + Option 1: Yes
  + Option 2: No, and reason

|  |  |
| --- | --- |
| **Company** | **Comments** |
|  |  |
|  |  |

### Sub-topic 2-3 Transient period capability

**Issue 2-3-1: Whether it is acceptable for below proposal 1 from R4-2203686 and proposal 2 from R4-2204823**

* Proposal 1: Keep the average EVM level for 256QAM at 8% and remove the brackets.
* Proposal 2: Remove all the bracket for shorter transient period requirements, including tpstart value for each Tp and relaxed EVM requirements.
  + Option 1: Yes
  + Option 2: No, and reason

|  |  |
| --- | --- |
| **Company** | **Comments** |
|  |  |
|  |  |

**Issue 2-3-2: Whether it is acceptable for below proposal from R4-2204518**

* Proposal: tpstart=[-0.6] for 2us capability (to be verified with both 15kHz and 30kHz SCS) and tpstart=[-2.7]us for 7us capability(to be verified with 15kHz SCS). Tighten EVM to [6%] for 256QAM
  + Option 1: Yes
  + Option 2: No, and reason

|  |  |
| --- | --- |
| **Company** | **Comments** |
|  |  |
|  |  |

**Issue 2-3-3: Clarification question from R4-2204823**

* Proposal 1: WOLA window length assumption needs to be clarified for the measurements in R4-2111539.

|  |  |
| --- | --- |
| **Company** | **Comments** |
|  |  |
|  |  |

### Sub-topic 2-4 Guard period for SRS antenna switching

**Issue 2-4-1: Whether it is acceptable for below proposals from R4-2203687**

* Proposal 1: RAN4 should follow corresponding RAN1 specification to avoid inconsistencies.
* Proposal 2: Regarding Rel-16 SRS antenna switching for SRS resources of the same set there should be no changes made to the time mask.
  + Option 1: Yes
  + Option 2: No, and reason

|  |  |
| --- | --- |
| **Company** | **Comments** |
|  |  |
|  |  |

**Issue 2-4-2: Whether it is acceptable for below proposals from R4-2204621**

* Proposal 1: for FeMIMO, remove the guard period Y between the SRS resources of the SRS set used for antenna switching in the SRS time mask for SCS = 15k and 30k with a view to solve the problematic cases with AS use in the special slot. This should apply at least for
  + UEs capable of the transient-time capability reducing the overall transient time excluding the switch
  + SRS transmissions SRS resources associated with different antenna ports of the same bandwidth (PRBs as set by mSRS,b) significantly reducing the power changes
* Proposal 2: in view of the 15 us transient time (notwithstanding the transient-time capability, transmissions of PUCCH and PUSCH can be transmitted between SRS resource sets with usage ‘antennawitching’ without *mandated* guard symbols for SCS = 15k and 30k.
  + Option 1: Yes
  + Option 2: No, and reason

|  |  |
| --- | --- |
| **Company** | **Comments** |
|  |  |
|  |  |

## Companies views’ collection for 1st round

### 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** |
| R4-2203613  R4-2203614 (CAT-A) | Correction to n46 channel raster |
|  |
| R4-2204602  R4-2204603 (CAT-A) | Correction to the note on the use of operating bands for shared spectrum access |
|  |
| R4-2203676  R4-2203677 (CAT-A) | draftCR to 38.101-1 on new NS for Canadian WCS regulation R16 |
|  |
| R4-2204199  R4-2204200 (CAT-A) | n1 and n65 coexistence fix CR Cat-F rel 16 |
|  |
| R4-2204512 | Draft CR to 38.101-1 Correction on UE maximum output power for intra-band CA (R16) |
|  |
| R4-2204737  R4-2204738 (CAT-A) | Draft CR to TS38.101-1: Corrections on REFSEN for CA |
|  |
| R4-2205184  R4-2205185 (CAT-A) | Draft CR for 38.101-1 updating note in MSD tables (Rel-16) |
|  |
| R4-2205186  R4-2205187 (CAT-A) | Draft CR for 38.101-1 updating references in V2X test cases (Rel-16) |
|  |
| R4-2205297  R4-2205298 (CAT-A) | Draft CR for 38.101-1 to correct configured transmit power for V2X(R16) |
|  |
| R4-2205881  R4-2206093 (CAT-A) | Corrections on carrier leakage requirement |
|  |
| R4-2204208  R4-2204209 (CAT-A) | n65 AMPR discrepancies rel 16 CR Cat-F rel 16  *Note: depends on Issue 2-1-1* |
|  |
| R4-2206125 | CR to R16 TS38.101-1 on transient period capability  *Note: depends on sub-topic 2-3* |
|  |

## 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.*

### 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”* |
| **CR/TP number** | **Comments collection** |
|  |  |
|  |

## Discussion on 2nd round

# Topic #3: 38.101-2

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

## Companies’ contributions summary

|  |  |  |
| --- | --- | --- |
| **T-doc number** | **Company** | **Proposals / Observations** |
| R4-2203611  R4-2203612 (CAT-A) | Rohde & Schwarz | Correction to Rel-16 FR2 RMCs |
| R4-2204739  R4-2204740 (CAT-A) | ZTE | Draft CR to TS38.101-2: Add default power class for NR inter-band CA combination |

## CRs/TPs comments collection

|  |  |
| --- | --- |
| **CR/TP number** | **Comments collection** |
| R4-2203611  R4-2203612 (CAT-A) | Correction to Rel-16 FR2 RMCs |
|  |
| R4-2204739  R4-2204740 (CAT-A) | Draft CR to TS38.101-2: Add default power class for NR inter-band CA combination |
|  |

## Summary for 1st round

### CRs/TPs

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

*Note: The tdoc decisions shall be provided in Section 3 and this table is optional in case moderators would like to provide additional information.*

|  |  |
| --- | --- |
| **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

# Topic #4: 38.101-3

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

## Companies’ contributions summary

|  |  |  |
| --- | --- | --- |
| **T-doc number** | **Company** | **Proposals / Observations** |
| R4-2203673  R4-2203674 (CAT-A) | Apple | draftCR for TS 38.101-3 Rel-16: Corrections on UE co-existence |
| R4-2203995  R4-2203996 (CAT-A) | ZTE | Draft CR to TS 38.101-3 on corrections to inter-band EN-DC configurations including FR1 and FR2 |
| R4-2205115 | Xiaomi | Draft CR for 38.101-3 Rel-16 to modify the notes and correct the configurations for inter-band EN-DC configurations |
| R4-2205182  R4-2205183 (CAT-A) | Huawei | Draft CR for 38.101-3 updating note in MSD tables (Rel-16) |
| R4-2205273  R4-2205274 (CAT-A) | Huawei | Draft CR for 38.101-3 to specify type 2 UE requirements(Rel-16) |
| R4-2205299  R4-2205300 (CAT-A) | Huawei | Draft CR for 38.101-3 to add MOP for band combination related to band 3C(R16) |
| R4-2205311  R4-2205312 (CAT-A) | Huawei | Draft CR for 38.101-3 to delete the MSD frequency test points for DC\_1A\_n5A(R16) |
| R4-2205612  R4-2205613 (CAT-A) | Anritsu | Draft CR to correct DC\_3A\_n38A test frequencies |
| R4-2205706 | Ericsson | draft Rel-16 CR 38101-3-ga0 to align spurious emission between R15 and R16 |
| R4-2206009  R4-2206010 (CAT-A) | Qualcomm | draft CR for Type II UE Cat-F rel 16  *Note: No submission paper before meeting.* |
| R4-2205112 | Xiaomi | **Proposal 1: The DL intra-band contiguous ENDC more than 2 carriers with UL intra-band non-contiguous ENDC shouldn’t be allowed to request in basket WID according to current fall-back rules in TS 38.101-3 and TS 38.306.**  **Proposal 2: Below cases of DL intra-band contiguous ENDC more than 2 carriers with UL intra-band non-contiguous ENDC should be removed from R-16 and R-17 Spec:**   |  |  | | --- | --- | | EN-DC  configuration | Uplink EN-DC  configuration | | DC\_(n)41AB5  DC\_(n)41CA5  DC\_(n)41DA5 | DC\_41A\_n41A | | DC\_(n)48CA5 | DC\_48A\_n48A6 | | DC\_(n)48DA5 | DC\_48A\_n48A6 |   **Proposal 3: It should request both of UL intra-band contiguous and non-contiguous ENDC for intra-band non-contiguous ENDC in which the spectrum between LTE part and NR part is contiguous but with intra-band non-contiguous CA in NR or/and LTE part in related basket WID.**  **Proposal 4: Introduce a new table for DC\_48A-(n)48AA, and the UE could indicate supporting DC\_48A-(n)48AA by reporting ‘both’ via IE intraBandENDC-Support.**  Table 5.5B.3-2: Intra-band EN-DC configurations for mixed intra-band contiguous and non-contiguous EN-DC   |  |  |  | | --- | --- | --- | | EN-DC  configuration | Uplink EN-DC  configuration  (NOTE 1) | Single UL allowed | | DC\_48A-(n)48AA3 | DC\_(n)48AA5  DC\_48A\_n48A5 | Yes5 | |
| R4-2205879 | Google | **Proposal 1: To follow TS38.101-3 Table 5.3B.1.2-1 and Table 5.3B.1.3-1 as** ***intraBandENDC-Support* definition, the UE should report the additional band combination DC\_48A\_n48A to support the following configurations.**   * **DL DC\_(n)48CA with UL DC\_48A\_n48A** * **DL DC\_(n)48DA with UL DC\_48A\_n48A**   **Proposal 2: If proposal 1 is not agreed, it is proposed to introduce a new UE capability signaling to indicate UL configuration based on the definition in proposal 1.** |
| R4-2205113  R4-2205114 (CAT-A) | Xiaomi | Draft CR for 38.101-3 Rel-16 to correct band combination for intra-band ENDC |

## Open issues summary

### Sub-topic 4-1 IntrabandENDC-Support

**Issue 4-1-1: Whether it is acceptable for below two proposals from R4-2205112**

* Proposal 1: The DL intra-band contiguous ENDC more than 2 carriers with UL intra-band non-contiguous ENDC shouldn’t be allowed to request in basket WID according to current fall-back rules in TS 38.101-3 and TS 38.306.
* Proposal 2: Below cases of DL intra-band contiguous ENDC more than 2 carriers with UL intra-band non-contiguous ENDC should be removed from R-16 and R-17 Spec:

|  |  |
| --- | --- |
| EN-DC  configuration | Uplink EN-DC  configuration |
| DC\_(n)41AB5  DC\_(n)41CA5  DC\_(n)41DA5 | DC\_41A\_n41A |
| DC\_(n)48CA5 | DC\_48A\_n48A6 |
| DC\_(n)48DA5 | DC\_48A\_n48A6 |

* + Option 1: Yes
  + Option 2: No, and reason

|  |  |
| --- | --- |
| **Company** | **Comments** |
|  |  |
|  |  |

**Issue 4-1-2: Whether it is acceptable for below two proposals from R4-2205112**

* Proposal: It should request both of UL intra-band contiguous and non-contiguous ENDC for intra-band non-contiguous ENDC in which the spectrum between LTE part and NR part is contiguous but with intra-band non-contiguous CA in NR or/and LTE part in related basket WID.
  + Option 1: Yes
  + Option 2: No, and reason

|  |  |
| --- | --- |
| **Company** | **Comments** |
|  |  |
|  |  |

**Issue 4-1-3: Whether it is acceptable for below two proposals from R4-2205112**

* Proposal: Introduce a new table for DC\_48A-(n)48AA, and the UE could indicate supporting DC\_48A-(n)48AA by reporting ‘both’ via IE intraBandENDC-Support.

Table 5.5B.3-2: Intra-band EN-DC configurations for mixed intra-band contiguous and non-contiguous EN-DC

|  |  |  |
| --- | --- | --- |
| EN-DC  configuration | Uplink EN-DC  configuration  (NOTE 1) | Single UL allowed |
| DC\_48A-(n)48AA3 | DC\_(n)48AA5  DC\_48A\_n48A5 | Yes5 |

* + Option 1: Yes
  + Option 2: No, and reason

|  |  |
| --- | --- |
| **Company** | **Comments** |
|  |  |
|  |  |

**Issue 4-1-4: Whether it is acceptable for below proposal from R4-2205879**

* Proposal 1: To follow TS38.101-3 Table 5.3B.1.2-1 and Table 5.3B.1.3-1 as intraBandENDC-Support definition, the UE should report the additional band combination DC\_48A\_n48A to support the following configurations.
  + DL DC\_(n)48CA with UL DC\_48A\_n48A
  + DL DC\_(n)48DA with UL DC\_48A\_n48A
  + Option 1: Yes
  + Option 2: No, and reason

|  |  |
| --- | --- |
| **Company** | **Comments** |
|  |  |
|  |  |

**Issue 4-1-5: If answer to Issue 4-1-4 is no, then whether it is acceptable for below proposal from R4-2205879**

* Proposal: it is proposed to introduce a new UE capability signaling to indicate UL configuration based on the definition in proposal 1.DL DC\_(n)48CA with UL DC\_48A\_n48A
  + Option 1: Yes
  + Option 2: No, and reason

|  |  |
| --- | --- |
| **Company** | **Comments** |
|  |  |
|  |  |

## Summary for 1st round

### CRs/TPs

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

*Note: The tdoc decisions shall be provided in Section 3 and this table is optional in case moderators would like to provide additional information.*

|  |  |
| --- | --- |
| **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”* |
| R4-2203673  R4-2203674 (CAT-A) | draftCR for TS 38.101-3 Rel-16: Corrections on UE co-existence |
|  |
| R4-2203995  R4-2203996 (CAT-A) | Draft CR to TS 38.101-3 on corrections to inter-band EN-DC configurations including FR1 and FR2 |
|  |
| R4-2205115 | Draft CR for 38.101-3 Rel-16 to modify the notes and correct the configurations for inter-band EN-DC configurations |
|  |
| R4-2205182  R4-2205183 (CAT-A) | Draft CR for 38.101-3 updating note in MSD tables (Rel-16) |
|  |
| R4-2205273  R4-2205274 (CAT-A) | Draft CR for 38.101-3 to specify type 2 UE requirements(Rel-16) |
|  |
| R4-2205299  R4-2205300 (CAT-A) | Draft CR for 38.101-3 to add MOP for band combination related to band 3C(R16) |
|  |
| R4-2205311  R4-2205312 (CAT-A) | Draft CR for 38.101-3 to delete the MSD frequency test points for DC\_1A\_n5A(R16) |
|  |
| R4-2205706 | draft Rel-16 CR 38101-3-ga0 to align spurious emission between R15 and R16 |
|  |
| R4-2205113  R4-2205114 (CAT-A) | Draft CR for 38.101-3 Rel-16 to correct band combination for intra-band ENDC  *Note: depends on sub topic 4-1.* |
|  |
| R4-2206009  R4-2206010 (CAT-A) | draft CR for Type II UE Cat-F rel 16  *Note: No submission paper before meeting.* |
|  |

## Discussion on 2nd round

# Topic #5: 38.104

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

## Companies’ contributions summary

|  |  |  |
| --- | --- | --- |
| **T-doc number** | **Company** | **Proposals / Observations** |
| R4-2203615  R4-2203616 (CAT-A) | Rohde & Schwarz | Correction to n46 channel raster |

## CRs/TPs comments collection

|  |  |
| --- | --- |
| **CR/TP number** | **Comments collection** |
| R4-2203615  R4-2203616 (CAT-A) | Correction to n46 channel raster |
|  |

## Summary for 1st round

### CRs/TPs

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

*Note: The tdoc decisions shall be provided in Section 3 and this table is optional in case moderators would like to provide additional information.*

|  |  |
| --- | --- |
| **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

# Topic #6: 36.101

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

## Companies’ contributions summary

|  |  |  |
| --- | --- | --- |
| **T-doc number** | **Company** | **Proposals / Observations** |
| R4-2206012  R4-2206013 (CAT-A) | AT&T | DraftCR 36.101 Missing UL CA Configurations |

## CRs/TPs comments collection

|  |  |
| --- | --- |
| **CR/TP number** | **Comments collection** |
| R4-2206012  R4-2206013 (CAT-A) | DraftCR 36.101 Missing UL CA Configurations |
|  |

## Summary for 1st round

### CRs/TPs

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

*Note: The tdoc decisions shall be provided in Section 3 and this table is optional in case moderators would like to provide additional information.*

|  |  |
| --- | --- |
| **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

# Recommendations for Tdocs

## 1st round

1. **New tdocs**

|  |  |  |
| --- | --- | --- |
| **Title** | **Source** | **Comments** |
|  |  |  |
|  |  |  |

1. **Existing tdocs for 38.307**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Tdoc number** | **Title** | **Source** | **Recommendation** | **Comments** |
|  |  |  |  |  |

1. **Existing tdocs for 38.101-1**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Tdoc number** | **Title** | **Source** | **Recommendation** | **Comments** |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |

1. **Existing tdocs for 38.101-2**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Tdoc number** | **Title** | **Source** | **Recommendation** | **Comments** |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |

1. **Existing tdocs for 38.101-3**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Tdoc number** | **Title** | **Source** | **Recommendation** | **Comments** |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |

1. **Existing tdocs for 38.104**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Tdoc number** | **Title** | **Source** | **Recommendation** | **Comments** |
|  |  |  |  |  |

1. **Existing tdocs for 36.101**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Tdoc number** | **Title** | **Source** | **Recommendation** | **Comments** |
|  |  |  |  |  |

## 2nd round

# Annex

Contact information

|  |  |  |
| --- | --- | --- |
| **Company** | **Name** | **Email address** |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |

Note:

1. Please add your contact information in above table once you make comments on this email thread.
2. If multiple delegates from the same company make comments on single email thread, please add you name as suffix after company name when make comments i.e. Company A (XX, XX)