**3GPP TSG-RAN WG4 Meeting # 101-e R4-21xxxxx**

**Electronic Meeting, 1– 12 Nov, 2021**

**Agenda item:** 5.1.1.2, 5.1.6.2.1, 5.1.6.2.2, 5.1.6.2.3, 5.2.2

**Source:** Moderator (OPPO)

**Title:** Email discussion summary for [101-e][102] R16\_Maintenance

**Document for:** Information

# Introduction

This summary covers the papers submitted in agenda 5.1.1.2, 5.1.6.2.1, 5.1.6.2.2, 5.1.6.2.3, 5.2.2 which are targeting R16 maintenance for 38.307, 38.101-1, 38.101-2, 38.101-3 and 36.101.

# Topic #1: 38.307

## Companies’ contributions summary

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| **T-doc number** | **Company** | **Proposals / Observations** |
| R4-2117552 | Nokia | Release independence information for shared spectrum access is added |
| R4-2117534 | Nokia | draftCR 38.307: Addition of release independence information for FR2 PC5 R15 |
| R4-2117535 | Nokia | draftCR 38.307: Addition of release independence information for FR2 PC5 R16 |

## CRs/TPs comments collection

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| **CR/TP number** | **Comments collection** |
| R4-2117552R4-2117553 | draftCR 38.307: Addition of release independence information for shared spectrum access R16 CATB |
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| R4-2117534 | draftCR 38.307: Addition of release independence information for FR2 PC5 R15 |
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| R4-2117535 | draftCR 38.307: Addition of release independence information for FR2 PC5 R16 |
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## 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.*

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| **CR/TP number** | **CRs/TPs Status update recommendation**  |
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# Topic #2: 38.101-1

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

## Companies’ contributions summary

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| **T-doc number** | **Company** | **Proposals / Observations** |
| R4-2117861R4-2117862 | MediaTek | Draft CR for TS 38.101-1: Missing MOP for NR DC |
| R4-2117512 | Qualcomm | **Observation 1:** If RSS-195 is used, then the link performance will suffer from the extra back-off required for the 5MHz channel BW in Canada and not in the US. The Canadian and US regulatory requirements are usually aligned.**Proposal 1**: Further clarify from the Canadian authorities as to the intention of RSS-195 to follow the FCC requirement for WCS 2300MHz band. |
| R4-2117960 | Apple | **Observation 1:** Measurement bandwidth for the first for the first one MHz directly adjacent to the channel edge is equal to one MHz but the resolution bandwidth is close to 1% of the channel bandwidth. This requirement is tighter than NR NS\_21 SEM and leads to the issue that power backoff requirements are not correctly reflected for all modulation types with 5MHz CBW. **Observation 2**: Complying to the adjusted emission limit from Observation 1 is especially challenging for PI/2 BPSK due to low MPR allowance.**Proposal 1**: Introduce separate SEM table for NS\_21 and update the measurement bandwidth of the first row (ΔfOOB = ± 0-1) from “1 % of channel BW” to “1MHz”.**Proposal 2:** Introduce A-MPR for NS\_21 with 5MHz CBW according to the proposed CR. |
| R4-2117961R4-2117962 | Apple | draftCR: Rel-16 Additional requirements and A-MPR for NS\_21 and n30 |
| R4-2117956 | Apple | **Observation:** Out-of-band emissions can provide challenges for implementation when inter-band CA combinations are used with bands featuring low frequency separation between each other. Due to this issue some combinations specify the minimum requirements only for non-simultaneous Rx/Tx operation.**Proposal 1**: Due to low frequency separation between band n40 and n41, explicitly capture that CA\_n40-n41 is only for non-simultaneous Rx/Tx.**Proposal 2**: Due to low minimum frequency separation between band n39, n40 and n41 the combinations CA\_n39-n40 and CA\_n39-n41 should only be specified for non-simultaneous Rx/Tx. |
| R4-2117957 | Apple | draftCR: Rel-16 Inter-band CA Operating Bands |
| R4-2117959 | Apple | **Proposal:** Agree on option 1 from WF of RAN4#101-e, which means that the transient and EVM requirements are kept as is and only the [] are removed. |
| R4-2118783 | 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. |
| R4-2117977 | Apple | Draft CR for TS 38.101-1: MSD test configurations modification for US inter-band CA combinations with n77 |
| R4-2118120 | 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: remove the guard period 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. A guard period is only motivated for accommodating transients for SCS = 60k for UEs not supporting the transient-period capability. RAN1 to be informed accordingly to align specifications.****Proposal 2: send the LS in the attached to RAN1.** |
| R4-2118121R4-2118122 | Ericsson | Correction to SRS time mask for SRS usage set to antenna switching |
| R4-2118455R4-2118456 | Xiaomi | Draft CR for 38.101-1 to correct the note in table 5.3.5-1 for Rel-16 |
| R4-2118704R4-2118705 | Huawei | Draft CR for 38.101-1 to clarify the ASE requirements for NS\_52 (Rel-16) |
| R4-2118880 | OPPO | Draft R16 CR on SRS IL |
| R4-2119081R4-2119082 | ZTE | Draft CR to TS 38.101-1 on UE maximum output power reduction (Rel-16) |
| R4-2119291R4-2119292 | Apple | draftCR: Rel-16 Correction on Channel Raster |
| R4-2119435R4-2119436 | Qualcomm | DeltaT\_RxSRS for PC5 |
| R4-2119567 | Huawei | draft CR for TS 38.101-1 correction of IE for DC location for CA (R16) |
| R4-2119497R4-2119498 | Qualcomm | V2X pcmax corrections |

## 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 NS\_21 Regulatory Requirement

**Issue 2-1-1: Whether it is needed to further clarify from the Canadian authorities as to the intention of RSS-195 to follow the FCC requirement for WCS 2300MHz band. (R4-2117152)**

* + Option 1: Yes
	+ Option 2: No, and alternative is

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| **Company** | **Comments** |
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**Issue 2-1-2: Whether it is acceptable to introduce separate SEM table for NS\_21 and update the measurement bandwidth of the first row (ΔfOOB = ± 0-1) from “1 % of channel BW” to “1MHz”**. **(R4-2117960)**

* + Option 1: Yes
	+ Option 2: No, and alternative is

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| **Company** | **Comments** |
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**Issue 2-1-3: Whether it is acceptable to introduce A-MPR for NS\_21 with 5MHz CBW according to the proposed CR** **R4-2117961.**

* + Option 1: Yes
	+ Option 2: No, and alternative is

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| **Company** | **Comments** |
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### Sub-topic 2-2 non-simultaneous Rx/Tx

**Issue 2-2-1: Whether it is acceptable to capture that CA\_n40-n41 is only for non-simultaneous Rx/Tx. (R4-2117956)**

* + Option 1: Yes
	+ Option 2: No, and alternative is

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| **Company** | **Comments** |
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**Issue 2-2-2: Whether it is acceptable to capture that CA\_n39-n40 and CA\_n39-n41 are only for non-simultaneous Rx/Tx. (R4-2117956)**

* + Option 1: Yes
	+ Option 2: No, and alternative is

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| **Company** | **Comments** |
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### Sub-topic 2-3 Transient period capability

**Issue 2-3-1: Which option is acceptable for transient period definition?**

* + Option 1: Remove [] for EVM metric, keep requirements for shorter transient as they are
	+ Option 2: 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.

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| **Company** | **Comments** |
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### Sub-topic 2-4 Guard period between the SRS resources

**Issue 2-4-1: Whether it is acceptable to remove the guard period between the SRS resources of the SRS set used for antenna switching in the SRS time mask for SCS = 15k and 30k?**

* + Option 1: Yes
	+ Option 2: No, and alternative is

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| **Company** | **Comments** |
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**Issue 2-4-2: Whether it is acceptable to send LS to RAN1 as R4-2118120?**

* + Option 1: Yes
	+ Option 2: No, and alternative is

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| **Company** | **Comments** |
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## 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.*

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| **CR/TP number** | **Comments collection** |
| R4-2117861R4-2117862 | Draft CR for TS 38.101-1: Missing MOP for NR DC |
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| R4-2117961R4-2117962 | draftCR: Rel-17 Additional requirements and A-MPR for NS\_21 and n30Moderator note: rely on the outcome of Issue 2-1-3 |
|  |
| R4-2117957 | draftCR: Rel-16 Inter-band CA Operating BandsModerator note: rely on the outcome of sub-topic 2-2 |
|  |
| R4-2117977 | Draft CR for TS 38.101-1: MSD test configurations modification for US inter-band CA combinations with n77 |
|  |
| R4-2118121R4-2118122 | Correction to SRS time mask for SRS usage set to antenna switchingModerator note: rely on the outcome of sub-topic 2-4 |
|  |
| R4-2118455R4-2118456 | Draft CR for 38.101-1 to correct the note in table 5.3.5-1 for Rel-16 |
|  |
| R4-2118704R4-2118705 | Draft CR for 38.101-1 to clarify the ASE requirements for NS\_52 (Rel-16) |
|  |
| R4-2118880 | Draft R16 CR on SRS IL |
|  |
| R4-2119081R4-2119082 | Draft CR to TS 38.101-1 on UE maximum output power reduction (Rel-16) |
|  |
| R4-2119291R4-2119292 | draftCR: Rel-16 Correction on Channel Raster |
|  |
| R4-2119435R4-2119436 | DeltaT\_RxSRS for PC5 |
|  |
| R4-2119567 | draft CR for TS 38.101-1 correction of IE for DC location for CA (R16) |
|  |
| R4-2119497R4-2119498 | V2X pcmax corrections |
|  |

## 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*

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

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| **T-doc number** | **Company** | **Proposals / Observations** |
| R4-2117422 | Apple | Propose two options to address the inconsistency between RAN4 R16 beam correspondence requirements and RAN2 UE capability. It is recommended RAN4 adopt either option.* Option 1: RAN4 sends an LS to RAN2 asking RAN2 to correct the capabilities
* Option 2: This inconsistency is captured in RAN4 chairman’s note and companies can submit a CR in RAN2 with a reference to RAN4 chairman’s note.
 |
| R4-2117423 | Apple | Correction of UE enhanced beam correspondence requirements |
| R4-2117424 | Apple | Correction of UE enhanced beam correspondence requirements |
| R4-2117546R4-2117547 | Nokia | draft CR removal of FR2 MPR brackets REL16 CATF |
| R4-2117978 | Apple | FR2 A-MPR requirements for intra-band non-contiguous UL CA |
| R4-2117979R4-2117980 | Apple | Draft CR for TS 38.101-2: FR2 CA\_NS\_202 and CA\_NS\_203 A-MPR requirements for intra-band non-contiguous UL CA |
| R4-2119083R4-2119084 | ZTE | Draft CR to TS 38.101-2 on configurations for intra-band contiguous CA (Rel-16) |
| R4-2119538R4-2119539 | Huawei | draft CR for TS 38.101-2: Alignment of description of mpr-PowerBoost-Fr2-r16 (R16) |

## 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 3-1 Beam correspondence capability

**Issue 3-1-1: Which option below is acceptable to solve the beam correspondence capability inconsistency between RAN4 R16 requirements and RAN2 UE capability. (R4-2117422)**

* + Option 1: RAN4 sends an LS to RAN2 asking RAN2 to correct the capabilities
	+ Option 2: This inconsistency is captured in RAN4 chairman’s note and companies can submit a CR in RAN2 with a reference to RAN4 chairman’s note.

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| **Company** | **Comments** |
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## CRs/TPs comments collection

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| **CR/TP number** | **Comments collection** |
| R4-2117423 | Correction of UE enhanced beam correspondence requirements |
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| R4-2117424 | Correction of UE enhanced beam correspondence requirements |
|  |
| R4-2117546R4-2117547 | draft CR removal of FR2 MPR brackets REL16 CATF |
|  |
| R4-2117979R4-2117980 | Draft CR for TS 38.101-2: FR2 CA\_NS\_202 and CA\_NS\_203 A-MPR requirements for intra-band non-contiguous UL CA |
|  |
| R4-2119083R4-2119084 | Draft CR to TS 38.101-2 on configurations for intra-band contiguous CA (Rel-16) |
|  |
| R4-2119538R4-2119539 | draft CR for TS 38.101-2: Alignment of description of mpr-PowerBoost-Fr2-r16 (R16) |
|  |

## 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.*

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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”* |
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## 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

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| **T-doc number** | **Company** | **Proposals / Observations** |
| R4-2117666 | SoftBank | Observation 1: For DC\_42\_n77/78 and DC\_48\_n77, the Option 1a/1b indicates that two DL carriers are placed contiguously. Observation 2: For DC\_42\_n77/78 and DC\_48\_n77, the UE supports intra-band non-contiguous EN-DC requirements as a default considering the UE capability signaling *interBandContiguousMRDC*.Proposal: The concept of Option 2, two DL carriers are placed non-contiguously, should be included in the requirements.  |
| R4-2117855 | Qualcomm | **Proposal 1**: Focus on option 3 in WF and choose an imbalance that covers all frequency offsets.**Observation 1**: REFSENS is tested with limited UL configuration. REFSENS should also be tested with a limited power imbalance at the closest frequency offset. **Observation 2**: At the worst-case power imbalance of 30dB, the ACS 1 test case is no longer reflective of the UE to be tested at the edge of cell since all UE RX power level and ACS jammer are raised by 14dB. A lower REFSENS relaxation of 1dB retains the ability to test at edge of cell.**Proposal 2**: Specify a power imbalance limit of 25dB, which is consistent to allow UE to be tested according for RX requirements at the cell edge case.**Proposal 3**: Choose the power imbalance and frequency offset relationship as shown in Table 2.3-1.**Observation 3:** No significant impact on RX requirements if the power imbalance is limited to 25dB due to OOB blocking range 3 requirement. |
| R4-2118698 | Huawei | Observation 1: At least 25dB power imbalance should be considered for type 2 UE Rx requirements considering the network deployment.Observation 2: Both option 1a and option 1b can be met by the UE with 33dB ACS implementation based on the link budget evaluation.Observation 3: Option 2 can be met by UE with 33dB ACS implementation.Proposal 3: To specify the power imbalance requirements for Type 2 UE as below. |
| R4-2118699R4-2118700 | Huawei | DraftCR for 38.101-3 to specify type 2 UE requirements(Rel-16) |
| R4-2118540 | NTT DOCOMO | Observation 1: The advantage of option 1 is that it can cover the frequency allocation of any operators since it defines the frequency separation as worst case.Observation 2: The advantage of option 2 is to optimize the value of Rx power imbalance considering actual spectrum allocation.Observation 3: Option 2 does not cover the frequency allocation of some operators. It is better to avoid such situation to enhance the size of market as large as possible.Observation 4: If interBandContiguousMRDC is absent, it means that the UE does not support intra-band contiguous requirements, and thus we do not need to test under the contiguous CCs placement.Observation 5: Applicability of Rx power imbalance requirements for EN-DC in TS 38.101-4 is based on whether or not UE indicate interBandContiguousMRDCProposal: For inter-band EN-DC which is subject to interBandContiguousMRDC capability:* If interBandContgiuousMRDC is indicated, place two DL carriers as close as possible
* If interBandContiguousMRDC is not indicated, define frequency offset from the edge of wanted carrier to the center frequency of another carrier as “DL CBW of another carrier”.

For inter-band EN-DC which is not subject to interBandContiguousMRDC capability:* [Define frequency separation as placing two DL carriers as close as possible]
 |
| R4-2117981R4-2117982 | Apple | Draft CR for TS 38.101-3: Corrections for intra-band EN-DC configurations |
| R4-2118450 | Xiaomi | Observation: If a UE is capable of supporting contiguous configuration in DL, it can support contiguous or non-contiguous configuration in UL; but if a UE is capable of supporting non-contiguous configuration in DL, it only supports non-contiguous configuration in UL.Proposal 1: RAN4 should define the contiguous and non-contiguous intra-band ENDC based on the aggregated status of DL intra-band ENDC.Proposal 2: Move DL DC\_48A-(n)48AA with UL DC\_(n)48AA and DC\_48A\_n48A from Table 5.3B.1.3-1 to Table 5.3B.1.2-1 in TS 38.101-3.Proposal 3: Apply Option 2, IE *IntraBandENDC-Support* should be indicated in UL and DL separately per band combination. Send LS to RAN2 to introduce new UE capability on distinguish intra-band ENDC UL and DL contiguous/non-contiguous support. |
| R4-2119318 | Google | **Proposal 1: To introduce the new UE capability signaling from Rel-16 for intra-band EN-DC UL and DL configuration.****Proposal 2: If proposal 1 is not agreed, it is proposed that the contiguous or non-contiguous intra-band EN-DC is determined by the configuration between primary cell in each cell group*** **Redefine the following intra-band EN-DC combinations**
	+ **DC\_(n)48CA and DC\_(n)48DA with UL DC\_48A\_n48A are intra-band non-contiguous EN-DC combination**
	+ **DC\_48A\_(n)48AA with UL DC\_(n)48AA is intra-band contiguous EN-DC combination**
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## Open issues summary

### Sub-topic 4-1 Type 2 UE RX Imbalance Requirement

*Sub-topic description: Below options are from RAN4#100e agreed WF R4-2114905*

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| * **Alt 1a:**

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| **Carriers** | **Power in transmission bandwidth configuration (dBm)** | **channel bandwidth** | **Frequency relationship** |
| Wanted carrier | REFSENS + 14 dB | BWwanted ≤ BWanother | Place two DL carriers as close as possible |
| Another carrier with overlapping DL bands | Power of wanted carrier + 31.5 dB |
| Wanted carrier | REFSENS + 14 dB | BWwanted > BWanother |
| Another carrier with overlapping DL bands | Power of wanted carrier + 31.5 – 10\*log10(BWwanted /BWanother) dB |

* **Alt 1b:**

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| --- | --- | --- | --- |
| **Carriers** | **Power in transmission bandwidth configuration (dBm)** | **channel bandwidth** | **Frequency relationship** |
| Wanted carrier | REFSENS + 1 dB | BWwanted ≤ BWanother | Place two DL carriers as close as possible |
| Another carrier with overlapping DL bands | Power of wanted carrier + 25 dB |
| Wanted carrier | REFSENS + 1 dB | BWwanted > BWanother |
| Another carrier with overlapping DL bands | Power of wanted carrier + 25 – 10\*log10(BWwanted /BWanother) dB |

* **Alt 2 (Gap between DL carriers ≥ 50MHz):**

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| **Carriers** | **Power in transmission bandwidth configuration (dBm)** | **channel bandwidth** | **Frequency relationship** |
| Wanted carrier | REFSENS + 1 dB | BWwanted ≤ BWanother | max (5/2\*another DL BW, 50MHz) |
| Another carrier with overlapping DL bands | Power of wanted carrier + 25 dB |
| Wanted carrier | REFSENS + 1 dB | BWwanted > BWanother |
| Another carrier with overlapping DL bands | Power of wanted carrier + 25 dB – 10\*log10(BWwanted /(5\*min(BWanother, 20MHz))) |

* **Alt 3: Combination of option 1 and option 2**
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**Issue 4-1-1: Whether it is acceptable to specify 25 dB power imbalance for type 2 UE Rx requirements (R4-2117855)**

* + Option 1: Yes
	+ Option 2: No, and alternative is

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| **Company** | **Comments** |
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**Issue 4-1-2: Which Alt is acceptable for the power imbalance testing**

* + **Alt 2 in RAN4#100e agreed WF R4-2114905**
	+ **Alt 3 in RAN4#100e agreed WF R4-2114905**
	+ **Alt 4 (R4-2117855):**

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| Carriers | Power in transmission bandwidth configuration (dBm) | channel bandwidth | Frequency relationship(Center of BWanother Relative to edge of BWwanted) |
| Wanted carrier | REFSENS + 1 dB | BWwanted ≤ BWanother | < max (5/2\* BWanother, 50MHz) |
| Another carrier with overlapping DL bands | Power of wanted carrier + 25 dB |
| Wanted carrier | REFSENS + 1 dB | BWwanted > BWanother |
| Another carrier with overlapping DL bands | Power of wanted carrier + 25 – 10\*log10(BWwanted /BWanother) dB |
| Wanted carrier | REFSENS + 1 dB | N/A | ≥ max (5/2\* BWanother, 50MHz) |
| Another carrier with overlapping DL bands | Power of wanted carrier + 25 dB |

* + **Alt 5 (R4-2118698)**

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| Carriers | Rx Power in transmission bandwidth configuration (dBm) | channel bandwidth | Frequency relationship |
| Wanted carrier | REFSENS + 14 dB | BWwanted ≤ BWanother | Place two DL carriers as close as possible |
| Another carrier with overlapping DL bands | Power of wanted carrier + 31.5 dB |
| Wanted carrier | REFSENS + 14 dB | BWwanted > BWanother |
| Another carrier with overlapping DL bands | Power of wanted carrier + 31.5 – 10\*log10(BWwanted /BWanother) dB |
| NOTE 1: The transmitter shall be set to 4 dB below PCMAX\_L,f,c at the minimum UL configuration specified in Table 7.3.2-3 with PCMAX\_L,f,c defined in clause 6.2.4. |

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| **Company** | **Comments** |
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**Issue 4-1-3: Whether it is acceptable to define frequency offset from the edge of wanted carrier to the center frequency of another carrier as “DL CBW of another carrier” if interBandContiguousMRDC is not indicated (R4-2118540)**

* + Option 1: Yes
	+ Option 2: No, and alternative is

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| **Company** | **Comments** |
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**Issue 4-1-4: For inter-band EN-DC which is not subject to interBandContiguousMRDC capability, whether it is acceptable to “Define frequency separation as placing two DL carriers as close as possible” (R4-2118540)**

* + Option 1: Yes
	+ Option 2: No, and alternative is

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| **Company** | **Comments** |
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### Sub-topic 4-2 IntraBandENDC-Support

**Issue 4-2-1: Which option can be used to determine the contiguous or non-contiguous intra-band EN-DC**

* + Option 1: based on the aggregated status of DL intra-band ENDC and (R4-2118450)
		- Move DL DC\_48A-(n)48AA with UL DC\_(n)48AA and DC\_48A\_n48A from Table 5.3B.1.3-1 to Table 5.3B.1.2-1 in TS 38.101-3
	+ Option 2: determined by the configuration between primary cell in each cell group and Redefine the following intra-band EN-DC combinations (R4-2119318)
		- DC\_(n)48CA and DC\_(n)48DA with UL DC\_48A\_n48A are intra-band non-contiguous EN-DC combination
		- DC\_48A\_(n)48AA with UL DC\_(n)48AA is intra-band contiguous EN-DC combination

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| **Company** | **Comments** |
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**Issue 4-2-2: Whether it is acceptable to indicate IE IntraBandENDC-Support in UL and DL separately per band combination？**

* + Option 1: Yes
	+ Option 2: No

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| --- | --- |
| **Company** | **Comments** |
|  |  |
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## CRs/TPs comments collection

|  |  |
| --- | --- |
| **CR/TP number** | **Comments collection** |
| R4-2118699R4-2118700 | DraftCR for 38.101-3 to specify type 2 UE requirements(Rel-16)Moderator note: rely on the outcome of Issue 4-1-2 |
|  |
| R4-2117981R4-2117982 | Draft CR for TS 38.101-3: Corrections for intra-band EN-DC 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

# Topic #5: 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** |
| R4-2117965 | Apple | draftCR: Rel-16 36.101 Corrections on spurious emission band UE co-existence |
| R4-2119422 | Qualcomm | Alignment of out-of-band blocking between LAA and NR-U |
| R4-2119423R4-2119424 | Qualcomm | Out-of-band blocking for Band 46 |

## CRs/TPs comments collection

|  |  |
| --- | --- |
| **CR/TP number** | **Comments collection** |
| R4-2117965 | draftCR: Rel-16 36.101 Corrections on spurious emission band UE co-existence |
|  |
| R4-2119423R4-2119424 | Out-of-band blocking for Band 46 |
|  |

## 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”* |
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## 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** |
|  |  |  |  |  |
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1. **Existing tdocs for 38.101-2**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Tdoc number** | **Title** | **Source** | **Recommendation**  | **Comments** |
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1. **Existing tdocs for 38.101-3**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Tdoc number** | **Title** | **Source** | **Recommendation**  | **Comments** |
|  |  |  |  |  |
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1. **Existing tdocs for 36.101**

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

## 2nd round

# Annex

Contact information

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