**3GPP TSG-RAN WG4 Meeting #94-e R4-20xxxxx**

**Electronic Meeting, Feb.24th – Mar.6th 2020**

**Agenda item:** 6.10.8

**Source:** Moderator (Apple)

**Title:** Email discussion summary for RAN4#94e\_#42\_NR\_NewRAT\_RRM\_Core\_Part\_2

**Document for:** Information

# Introduction

This email discussion summary includes R15 RLM (6.10.8.1), SCell activatin delay requirement (6.10.8.2), PSCell addition/release requirements (6.10.8.3), TCI state switching requirements (6.10.8.4), BWP switching requirements (6.10.8.5), Other requirements (6.10.8.6).

Candidate target of email discussion for 1st round and 2nd round

* 1st round:
	+ Collect comments from companies on the topics/sub-topics and CRs by Wednesday 5pm UTC Feb. 26
	+ Moderators summarize the status and possible proposals, recommending what decisions can be made for 1st round by Thursday 5pm UTC, Feb. 27
* 2nd round:
	+ Companies provide comments for 2nd round and moderators provide second round summary (Monday Mar. 2 – Thursday 5pm UTC Mar. 5).

# Topic #1: RLM (6.10.8.1)

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

## Companies’ contributions summary

|  |  |  |
| --- | --- | --- |
| **T-doc number** | **Company** | **Proposals / Observations** |
| R4-2001584 | Huawei, HiSilicon | Proposed changes:1. For SSB based RLM/BFD/CBD/L1-RSRP, the first condition of Psharingfactor=1 is removed;
2. For SSB based RLM/BFD/CBD/L1-RSRP, the second condition of Psharingfactor=1 is changed. RSSI and deriveSSB-IndexFromCell is considered.
3. Same rules apply to CSI-RS based RLM/BFD/CBD/L1-RSRP.
4. Editorial corrections.
 |
| R4-2001585 | Huawei, HiSilicon | Cat-A CR of R4-2001584 |

## Open issues summary

### Sub-topic 1-1: CR of R4-2001584

Issue 1-1: Is this CR agreeable?

## 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** |
| R4-2001584 | Apple: we have comment on change #1 (For SSB based RLM/BFD/CBD/L1-RSRP, the first condition of Psharingfactor=1 is removed;) in this CR. The reason is: There is a case that RLM-RS periodicity is 20ms, and SMTC periodicity is 80ms, and MGRP is 80ms, it’s still possible that RLM-RS outside MG is partially overlapped with SMTC.  |
| MTK: Agreed with the CR in principle. But some minor wording changes are needed. For example, UE is not always requested to measure the RSSI, even if *ss-RSSI-Measurement* is configured. Suggest to align the wording with R4-2001789. |
|  |

## Summary for 1st round

### 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**  |
| R4-2001584 | *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: SCell activation delay requirements (6.10.8.2)

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

## Companies’ contributions summary

|  |  |  |
| --- | --- | --- |
| **T-doc number** | **Company** | **Proposals / Observations** |
| R4-2002077 | Ericsson | Proposal 1: The activation delay requirements for cases of *first unknown SCell in FR2* are to be modified by replacing 24\*Trs with TFirstSSB + 23\*Trs, thereby aligning them with delay requirements for the other SCell activation cases.Proposal 2: The end-points of the interruption windows are to be modified to reflect that the UE is acquiring the first SSB in the target SCell at TFirstSSB or TFirstSSB\_MAX, and not at TSMTC\_MAX, after having received the MAC-CE for SCell activation. |
| R4-2002078 | Ericsson | CR based on discussion paper R4-2002077 |
| R4-2002079 | Ericsson | Cat-A CR of R4-2002078 |
| R4-2002080 | Ericsson | Editorial change on R16 TS38.133. |

## 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: Activation of first unknown SCell in FR2

**Issue 2-1: activation delay requirements for cases of first unknown SCell in FR2**

* Proposals (Ericsson)
	+ The activation delay requirements for cases of *first unknown SCell in FR2* are to be modified by replacing 24\*Trs with TFirstSSB + 23\*Trs, thereby aligning them with delay requirements for the other SCell activation cases
* Recommended WF
	+ TBA

### Sub-topic 2-2: The end-points of the interruption windows for SCell activation

**Issue 2-2: The end-points of the interruption windows for SCell activation**

* Proposals (Ericsson)
	+ The end-points of the interruption windows are to be modified to reflect that the UE is acquiring the first SSB in the target SCell at TFirstSSB or TFirstSSB\_MAX, and not at TSMTC\_MAX, after having received the MAC-CE for SCell activation
* Recommended WF
	+ TBA

## Companies views’ collection for 1st round

### Open issues

|  |  |
| --- | --- |
| **Company** | **Comments** |
| MTK | Sub topic 2-1: OK to the changeSub topic 2-2: OK to the change |
|  |  |

### 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** |
| R4-2002078 | Company A |
| Company B |
|  |
| R4-2002080 | 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 2-1 | *Tentative agreements:**Candidate options:**Recommendations for 2nd round:* |
| Sub-topic 2-2 |  |

### 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: PSCell addition/release requirements (6.10.8.3)

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

## Companies’ contributions summary

|  |  |  |
| --- | --- | --- |
| **T-doc number** | **Company** | **Proposals / Observations** |
| R4-2000055 | ZTE Corporation | The expressions of TFirstSSB and TFirstSSB\_MAX contain error, should be slot n instead of n ms |
| R4-2000056 | ZTE Corporation | Cat-A CR of R4-2000055 but it was uploaded before the e-meeting. |
| R4-2002081 | Ericsson | Proposal 1: The PSCell change delay requirement shall be modified such that it is reflected that no SW re-loading is needed when source and target cells are in the same FR. Following the NR handover requirements, this implies that the requirement shall be based on Tprocessing = 20 ms rather than on Tprocessing = 40 ms. |
| R4-2002082 | Ericsson | CR based on discussion paper R4-2002081. |
| R4-2002083 | Ericsson | Cat-A CR of R4-2002082 |

## 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: Tprocessing revision in PSCell change for EN-DC and NR-DC

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

**Issue 3-1: Tprocessing revision in PSCell change for EN-DC and NR-DC**

* Proposals
	+ The PSCell change delay requirement shall be modified such that it is reflected that no SW re-loading is needed when source and target cells are in the same FR. Following the NR handover requirements, this implies that the requirement shall be based on Tprocessing = 20 ms rather than on Tprocessing = 40 ms.
* Recommended WF
	+ TBA

## Companies views’ collection for 1st round

### Open issues

|  |  |
| --- | --- |
| **Company** | **Comments** |
| Apple | Sub topic 3-1: we agree PSCell change for NR-DC only need 20ms for Tprocessing. But for EN-DC, if PSCell is changed from FR1 cell to FR2 cell or from FR2 cell to FR1 cell, then Tprocessing time is still 40ms.  |
| MTK | Sub topic 3-1: In the CR R4-2002082, Tprocessing when source and target cells are not in the same FR is missing. |

### 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** |
| R4-2000055 | MTK: If the intension is to unify the unit used in SCell activation to ‘slot’, the CR does not resolve this issue because there are still may other paragraph with this unit ambiguity. |
| Company B |
|  |
| R4-2002082 | Apple: same comment as to the discussion paper R4-2002081 |
| MTK: Tprocessing when source and target cells are not in the same FR is missing |
|  |

## 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:* |

### 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: TCI state switching requirements (6.10.8.4)

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

## Companies’ contributions summary

|  |  |  |
| --- | --- | --- |
| **T-doc number** | **Company** | **Proposals / Observations** |
| R4-2000035 | ZTE Corporation | withdrawn |
| R4-2000036 | ZTE Corporation | withdrawn |
| R4-2000514 | ZTE Corporation | Observation 1: Some conditions in the current definition of TCI known state can’t be known by the gNB.Observation 2: The current definition of known TCI state is subject to different interpretations at gNB and UE side.Proposal 1: Further study the impact of mismatch issue based on detailed analysis and simulations |
| R4-2000789 | Apple | There is a mismatch between RAN1 spec and RAN4 spec on this TCI change delay.Proposed change to TS38.133 is:If the target TCI state is known, upon receiving PDSCH carrying MAC-CE activation command at slot n, UE shall be able to receive PDCCH with target TCI state of the serving cell on which TCI state switch occurs at the first slot that is after slot n+ THARQ +(3 ms +TOk\*(Tfirst-SSB + TSSB-proc))/NR slot length. (If TOk =0, then it would be n+THARQ +3ms) |
| R4-2000790 | Apple | Cat-A CR of R4-2000789 |
| R4-2001010 | NEC | Proposal 1: RAN4 to agree on the TCI state mismatch problem. Proposal 2: Acknowledge the problem in the specification through an editor’s note saying “The estimated TCI state at network and actual TCI state at UE may be different in some scenarios. The RRM requirements to solve the different TCI state at gNB and UE may be considered in future releases and may be applied to the present release of specifications”. Proposal 3: Study solution for TCI state mismatch problem in Rel-17 timeframe. |
| R4-2001015 | NEC | CR based on discussion paper R4-2001010 |
| R4-2001026 | MediaTek inc. | 1. Add Repition ON for CSI-RS used if the target TCI state is unknown
2. Delete PUSCH wording in DCI based TCI state switch requirment.
3. Add CSI-RS for reception in scheduling restrcition in RRC based TCI state switch requirement.
4. Delete the PUCCH/PUSCH transmission in scheduling restrcition in RRC based TCI state switch requirement.
5. Delete a space.
 |
| R4-2001334 | Nokia, Nokia Shanghai Bell | Proposal 1: Update UE timing requirement in section 8.10.6 to be aligned with RAN1 requirement.Proposal 2: Update the timing requirement to $n+3N\_{slot}^{subframe,µ}$Proposal 3: Update the current requirement text to reflect the actual delay requirement.We propose following text to section 8.10.6:*If the target TCI state is known, upon receiving PDSCH carrying MAC-CE for TCI States Activation/Deactivation for UE-specific PDSCH update at slot n, UE shall be able to receive PDCCH to schedule PDSCH with the new DCI indicated mapping between TCI states and codepoints of the DCI field 'Transmission Configuration Indication' no later than n + THARQ +* $3N\_{slot}^{subframe,µ}$ *+ TOk\*(Tfirst-SSB + TSSB-proc) / NR slot length. Where THARQ, Tfirst-SSB, TSSB-proc and TOk are defined in clause 8.10.3.* |
| R4-2001668 | Huawei, HiSilicon | Set the time on which UE receive PDCCH with target TCI as a fixed value.i.e., *UE shall be able to receive PDCCH with target TCI state of the serving cell in slot n+ THARQ +(3 ms + TL1-RSRP +TOuk\*(Tfirst-SSB+ TSSB-proc)) / NR slot length.* |
| R4-2001669 | Huawei, HiSilicon | Cat-A CR of R4-2001668 |
| R4-2002052 | Qualcomm Incorporated | Proposal 1: RAN4 to change when the UE switches to the new TCI state. For a command received in slot n, the UE to switch to new TCI state in slot immediately after n+ THARQ +3 ms . UE to meet all performance requirements after n+ THARQ +3 ms +TOk\*(Tfirst-SSB + TSSB-proc). |
| R4-2002066 | Qualcomm Incorporated | Based on the discussion paper R4-2002052 |
| R4-2002067 | Qualcomm Incorporated | Cat-A CR of R4-2002066 |

## 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: Mismatch between RAN1 and RAN4 spec on MAC-CE based TCI switching delay

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

**Issue 4-1: Mismatch between RAN1 and RAN4 spec on MAC-CE based TCI switching delay**

* Proposals
	+ Option1 (Nokia R4-2001334): Update the timing requirement to $n+3N\_{slot}^{subframe,µ}$
	+ Option 2 (Qualcomm R4-2002052): RAN4 to change when the UE switches to the new TCI state. For a command received in slot n, the UE to switch to new TCI state in slot immediately after n+ THARQ +3 ms . UE to meet all performance requirements after n+ THARQ +3 ms +TOk\*(Tfirst-SSB + TSSB-proc).
	+ Option 3: others?
* Recommended WF
	+ TBA

### Sub-topic 4-2: Which slot is the one to apply the new TCI after TCI switching?

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

**Issue 4-2: Which slot is the one to apply the new TCI after TCI switching?**

* Proposals
	+ Option1 (Apple R4-2000789): Change “no later than at slot” to “at the first slot that is after slot”, e.g.,

If the target TCI state is known, upon receiving PDSCH carrying MAC-CE activation command in slot n, UE shall be able to receive PDCCH with target TCI state of the serving cell on which TCI state switch occurs at the first slot that is after slot n+ THARQ +(3 ms +TOk\*(Tfirst-SSB + TSSB-proc)) / *NR slot length*. The UE shall be able to receive PDCCH with the old TCI state until slot n+ THARQ +(3 ms +TOk\*(Tfirst-SSB)) / *NR slot length* +1.

* + Option 2 (Huawei R4-2001668): Set the time on which UE receive PDCCH with target TCI as a fixed value.i.e., *UE shall be able to receive PDCCH with target TCI state of the serving cell in slot n+ THARQ +(3 ms + TL1-RSRP +TOuk\*(Tfirst-SSB+ TSSB-proc)) / NR slot length*
	+ Option 3: others?
* Recommended WF
	+ TBA

### Sub-topic 4-3: Revision on active TCI state list update delay

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

**Issue 4-3: Revision on active TCI state list update delay**

* Proposals
	+ (Nokia R4-2001334): If the target TCI state is known, upon receiving PDSCH carrying MAC-CE for TCI States Activation/Deactivation for UE-specific PDSCH update at slot n, UE shall be able to receive PDCCH to schedule PDSCH with the new DCI indicated mapping between TCI states and codepoints of the DCI field 'Transmission Configuration Indication' no later than n + THARQ + $3N\_{slot}^{subframe,µ}$ + TOk\*(Tfirst-SSB + TSSB-proc) / NR slot length. Where THARQ, Tfirst-SSB, TSSB-proc and TOk are defined in clause 8.10.3.
* Recommended WF
	+ TBA

### Sub-topic 4-4: Problem of TCI state known status mismatch

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

**Issue 4-4: Problem of TCI state known status mismatch**

* Proposals (ZTE R4-2000514, NEC R4-2001010)
	+ Proposal 1: RAN4 to agree on the TCI state mismatch problem.
	+ Proposal 2: Acknowledge the problem in the specification through an editor’s note saying “The estimated TCI state at network and actual TCI state at UE may be different in some scenarios. The RRM requirements to solve the different TCI state at gNB and UE may be considered in future releases and may be applied to the present release of specifications”.
	+ Proposal 3: Study solution for TCI state mismatch problem in Rel-17 timeframe.
* Recommended WF
	+ TBA

## Companies views’ collection for 1st round

### Open issues

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| --- | --- |
| **Company** | **Comments** |
| Apple | Sub topic 4-1: we suggest to keep RAN4 spec unchanged because that’s based on the real condition. We may send LS to RAN1 to ask them to refer to TS38.133, like what they did for SCell activation. |
| MTK | **Issue 4-2: Which slot is the one to apply the new TCI after TCI switching** Support option 1.**Issue 4-3: Revision on active TCI state list update delay** It’s OK.**Issue 4-4: Problem of TCI state known status mismatch**This issue had repeated above half a year. Currently, RAN4 don’t have a common understanding on this. Besides ZTE’s proposal is different. ZTE wants to clarify another issue. Whether SSB is detectable may not be known by network. But actually, this definition is used everywhere in RAN 4 spec, e.g., measurement, handover, SCell activation… and also in LTE spec. We never see this is an issue. |

### 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** |
| R4-2000789 | Company A |
| Company B |
|  |
| R4-2001015 | Company A |
| Company B |
|  |
| R4-2001026 | Company A |
| Company B |
|  |
| R4-2001668 | Apple: we have CR on same topic. According to RAN1 spec, UE shall be able to use new TCI on the first slot after the switching delay. We need to keep RAN1 and RAN4 spec consistent. |
| MTK: Do not see the reason why current description prohibits UE from finishing TCI-state switch earlier. |
|  |
| R4-2002066 | Apple: we prefer the old wording in RAN4 spec, and we think RAN1 shall refer to RAN4 spec instead. It can benefit to both NW and UE to stay on the old TCI until UE can actually use the new TCI; otherwise with this change there would be a gap where UE cannot either use old TCI or new TCI. |
| 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:* |

### 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 #5: BWP switching requirements (6.10.8.5)

*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** |
| R4-2000906 | ZTE Corporation | 1. The description “The UE is not required to transmit UL signals or receive DL signals after *bwp-InactivityTimer* [2] expires” should be modified because the UE is not required to transmit during the delay, but shall transmit afterwards.
2. The new TCI state is eventually configured by DCI. MAC CE only gives a active TCI state list, which is not specific enough for the UE to determine its new TCI state.
 |
| R4-2000907 | ZTE Corporation | Cat-A CR of R4-2000907 |
| R4-2001586 | Huawei, HiSilicon | The wording of BWP switch delay is changed as follows:1. For DCI-based BWP switch UE shall be able to receive or transmit on the new BWP on the serving cell on which BWP switch on the first DL or UL slot occurs right after TBWPswitchDelay after the beginning of DL slot n, as depicted in following figures.
2. Similar wording changing also applies to Timer-based BWP switching and RRC based BWP switching
 |
| R4-2001587 | Huawei, HiSilicon | Cat-A CR of R4-2001586 |

## 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** |
| R4-2000906 | MTK: The changes on RRC-based BWP switch are not correct. * The MAC CE should be kept because after BWP switch, what UE gets are 2 BWP-specific new TCI lists in RRC (tci-StatesToAddModList and tci-StatesPDCCH-ToAddList). UE needs to wait for update via MAC CE in order to decode PDCCH and PDSCH based on new TCI state.
* The wording ‘configured’ is incorrect, either. ‘Configure’ is generally used for RRC, but here the TCI-state update is via MAC CE
 |
| Company B |
|  |
| R4-2001586 | MTK: The intention of the CR is to resolve the reference slot timing change due to SCS change, but the revision does not really resolve this issue. TBWPswitchDelay is actually a duration of time, not an absolute time instant, it is strange to say ‘after TBWPswitchDelay’. Same issue happens in the RRC part. |
| Company B |
|  |

## Summary for 1st round

### 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”* |