**3GPP TSG-RAN WG4 Meeting # 100-e R4-211XXXX**

**Electronic Meeting, 16th – 27th August, 2021**

**Agenda item:** 6.1.9.3, 6.1.2.3, 6.1.2.4, 6.1.4.2, 6.1.4.3, 6.1.10.3, 6.3

**Source:** Moderator (Apple)

**Title:** Email discussion summary for [100-e][205] NR\_RRM\_maintenance\_R16

**Document for:** Information

# Introduction

Rel-16 NR RRM maintenance (general)

Rel-16 NR IAB RRM maintenance

Rel-16 MR-DC RRM maintenance

Rel-16 TEI: RRM requirements

R16 UE feature list (RRM aspects)

1) Include all R16 NR RRM maintenance not expplicitly mentioned in other threads (NR eMob, Power saving, HST, FR1 RF, FR2 RF, 2 step RACH)
2) R15 NR WI draft CRs R4-2111899, R4-2111900, R4-2112953, R4-2112955, R4-2114442, R4-2114443, R4-2114444 are moved to threads 201/202
3) Feature list: R4-2112261

# Topic #1: On direct SCell activation

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

## Companies’ contributions summary

|  |  |  |
| --- | --- | --- |
| **T-doc number** | **Company** | **Proposals / Observations** |
| [**R4-2112078**](https://www.3gpp.org/ftp/TSG_RAN/WG4_Radio/TSGR4_100-e/Docs/R4-2112078.zip) | Apple | Proposal 1: Measurement period threshold value for requirement branching in NR FR1 should be:* **Case 1: Activation delay for an SCell which was a deactivated SCell prior to e.g. HO and now target for the direct SCell activation.**
	+ **Reuse requirements in 8.3.2**
* **Case 2: Other cells (i.e. cells which were not deactivated SCell prior to being target SCell in the direct activation)**
	+ **If the SCell is known and belongs to FR1, TCSI\_Reporting is specified in clause 8.3.2 and Tactivation\_time is defined as:**
		- **TFirstSSB+ 5ms, if the measurement period is equal to or smaller than [1280]ms.**
		- **TFirstSSB\_MAX + Trs + 5ms, if measurement period is larger than [1280]ms.**
 |
| [**R4-2114010**](https://www.3gpp.org/ftp/TSG_RAN/WG4_Radio/TSGR4_100-e/Docs/R4-2114010.zip) | Nokia | 1. Revert the change related to baseline SCell activation delay in section 8.3.2 made in RAN4#99.
2. Define direct activation delay requirements for a direct activated cell not having been measured using measCycleScell
3. Increase the measurement period threshold used for Tactivation\_time for direct NR FR1 SCell activation from 1280ms.
4. RAN4 to define the measurement period threshold equal 5 seconds.
5. RAN4 to agree on option 5.
 |

## Open issues summary

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

### Sub-topic 1-1

**Issue 1-1: for the known target cell in FR1, whether to define different requirements for the following two cases:**

1. **the SCell being direct activated has been measured using measCycleSCell**
2. **the SCell being direct activated has NOT been measured using measCycleSCell**
* Proposals
	+ Option 1: yes (Apple, Nokia)
	+ Option 2: no (Huawei)
* Recommended WF
	+ Apple and Nokia proposed option 1. Option 2 is not proposed but implicitly reflected in Huawei’s CR. Discussion is needed.

**Issue 1-2: if option 1 in issue 1-1 is agreed, what’s the condition for allowing additional time for AGC for case 1, i.e. the SCell being direct activated has been measured using measCycleSCell?**

* Proposals
	+ Option 1: Reuse legacy SCell activation requirements as defined in 8.3.2 (Apple, Nokia)
	+ Option 2: no (Huawei)
* Recommended WF
	+ Apple and Nokia proposed option 1. Option 2 is not proposed but implicitly reflected in Huawei’s CR. Discussion is needed.

**Issue 1-3: if option 1 in issue 1-1 is agreed, what’s the condition for allowing additional time for AGC for case 2, i.e. the SCell being direct activated has NOT been measured using measCycleSCell?**

* Proposals
	+ Option 1: follow agreement in RAN4#98-e-bis (Apple)
		- If the SCell is known and belongs to FR1, TCSI\_Reporting is specified in clause 8.3.2 and Tactivation\_time is defined as:
			* TFirstSSB+ 5ms, if the measurement period is equal to or smaller than [1280]ms.
			* TFirstSSB\_MAX + Trs + 5ms, if measurement period is larger than [1280]ms.
	+ Option 2: change [1280]ms to 2400ms to align with normal SCell activation (Huawei)
		- If the SCell is known and belongs to FR1, TCSI\_Reporting is specified in clause 8.3.2 and Tactivation\_time is defined as:
			* TFirstSSB+ 5ms, if the measurement period is equal to or smaller than 2400ms.
			* TFirstSSB\_MAX + Trs + 5ms, if measurement period is larger than 2400ms.
	+ Option 3 change [1280]ms to 5s (Nokia)
		- If the SCell is known and belongs to FR1, TCSI\_Reporting is specified in clause 8.3.2 and Tactivation\_time is defined as:
			* TFirstSSB+ 5ms, if the measurement period is equal to or smaller than 5s.
			* TFirstSSB\_MAX + Trs + 5ms, if measurement period is larger than 5s.
* Recommended WF
	+ Discussion is needed.

## Companies views’ collection for 1st round

### Open issues

Sub topic 1-1: remaining issue on the direct SCell activation

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

### CRs/TPs comments collection

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

|  |  |
| --- | --- |
| **CR/TP number** | **Comments collection** |
| [**R4-2112079**](https://www.3gpp.org/ftp/TSG_RAN/WG4_Radio/TSGR4_100-e/Docs/R4-2112079.zip)CR on direct SCell activation (R16) | Company A |
| Company B |
|  |
| [**R4-2114011**](https://www.3gpp.org/ftp/TSG_RAN/WG4_Radio/TSGR4_100-e/Docs/R4-2114011.zip) **Draft CR for Direct SCell activation delay** | Company A |
| Company B |
|  |
| [**R4-2114267**](https://www.3gpp.org/ftp/TSG_RAN/WG4_Radio/TSGR4_100-e/Docs/R4-2114267.zip)CR on direct SCell activation requirements |  |
|  |
|  |

## 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 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 (if applicable)

## Discussion on 2nd round (if applicable)

# Topic #2: scheduling restriction applicability for FR1 and FR1+FR2 inter-band CA

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

## Companies’ contributions summary

|  |  |  |
| --- | --- | --- |
| **T-doc number** | **Company** | **Proposals / Observations** |
| [**R4-2112121**](https://www.3gpp.org/ftp/TSG_RAN/WG4_Radio/TSGR4_100-e/Docs/R4-2112121.zip) | Apple | ***Proposal 1: RAN4 to introduce applicability of scheduling availability requirement for FR1 inter-band CA such that the scheduling availability requirements for FR1 inter-band CA are not applicable if the network configures simultaneous UL/DL between two FR1 bands but the UE does not have the capability of supporting simultaneousRxTxInterBandCA.******Proposal 2: RAN4 to introduce applicability of scheduling availability requirement for FR1+FR2 inter-band CA such that the scheduling availability requirements for FR1+FR2 CA are not applicable if the network configures simultaneous UL/DL between FR1 and FR2 bands but the UE does not have the capability of supporting simultaneousRxTxInterBandCA*** ***on this band combination.*** |

## 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

**Proposal 1: RAN4 to introduce applicability of scheduling availability requirement for FR1 inter-band CA such that the scheduling availability requirements for FR1 inter-band CA are not applicable if the network configures simultaneous UL/DL between two FR1 bands but the UE does not have the capability of supporting simultaneousRxTxInterBandCA.**

**Proposal 2: RAN4 to introduce applicability of scheduling availability requirement for FR1+FR2 inter-band CA such that the scheduling availability requirements for FR1+FR2 CA are not applicable if the network configures simultaneous UL/DL between FR1 and FR2 bands but the UE does not have the capability of supporting simultaneousRxTxInterBandCA on this band combination.**

## Companies views’ collection for 1st round

### **Open issues**

**Subtopic 2-1: scheduling restriction applicability for FR1 and FR1+FR2 inter-band CA**

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

### 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** |
| [**R4-2112122**](https://www.3gpp.org/ftp/TSG_RAN/WG4_Radio/TSGR4_100-e/Docs/R4-2112122.zip)Draft CR on scheduling restriction applicability for FR1 and FR1+FR2 inter-band CA R16 | Company A |
| Company B |
|  |

## Summary for 1st round

### Open issues

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

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

### 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)

*Moderator can provide summary of 2nd round here. Note that recommended decisions on tdocs should be provided in the section titled ”Recommendations for Tdocs”.*

# Topic #3: Mandatory GP signaling

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

## Companies’ contributions summary

|  |  |  |
| --- | --- | --- |
| **T-doc number** | **Company** | **Proposals / Observations** |
| [**R4-2112261**](https://www.3gpp.org/ftp/TSG_RAN/WG4_Radio/TSGR4_100-e/Docs/R4-2112261.zip) | Qualcomm | **Proposal 1: Add new bitmaps for signaling the support of NR-only measurement GPs in LTE-SA following NR-SA and NR-DC with the capability being optional for all GPs including GP 2,3,11.****Proposal 2: The bitmap for NR-only measurement gap patterns support in LTE-SA needs to be consistent with the support of NR-only measurement gap patterns in NR-SA and NR-DC. Otherwise, they should be all zero.** **Proposal 3: In EN-DC, since UE signals the bitmap for LTE-SA, UE can use one bit to indicate the support for gap patterns as signalled by the bitmaps for LTE-SA. Similarly, in NE-DC, since UE signals the bitmap for NR-SA/DC, UE can use one bit to indicate the support for gap patterns as signalled by the bitmaps for NR-SA/DC.****Proposal 4: RAN4 takes one of the following action:**1. **Update note for UE feature list item 9-3 as:**

**Note: Agreements are provided in [TBD]. According to RAN4 agreement, a bitmap should be introduced for LTE-SA and a signle bit should be introduced for EN-DC and NE-DC.**1. **Send a separate LS to RAN2 to ask for new UE capability signaling.**
 |

## 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

Proposal 1: Add new bitmaps for signaling the support of NR-only measurement GPs in LTE-SA following NR-SA and NR-DC with the capability being optional for all GPs including GP 2,3,11.

Proposal 2: The bitmap for NR-only measurement gap patterns support in LTE-SA needs to be consistent with the support of NR-only measurement gap patterns in NR-SA and NR-DC. Otherwise, they should be all zero.

Proposal 3: In EN-DC, since UE signals the bitmap for LTE-SA, UE can use one bit to indicate the support for gap patterns as signalled by the bitmaps for LTE-SA. Similarly, in NE-DC, since UE signals the bitmap for NR-SA/DC, UE can use one bit to indicate the support for gap patterns as signalled by the bitmaps for NR-SA/DC.

## Companies views’ collection for 1st round

### **Open issues**

**Subtopic 2-1: scheduling restriction applicability for FR1 and FR1+FR2 inter-band CA**

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

### 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** |
|  | Company A |
| Company B |
|  |

## Summary for 1st round

### Open issues

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

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

### 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)

*Moderator can provide summary of 2nd round here. Note that recommended decisions on tdocs should be provided in the section titled ”Recommendations for Tdocs”.*

# Topic #4: measurement requirements for relaxed carriers and non-relaxed carriers

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

## Companies’ contributions summary

|  |  |  |
| --- | --- | --- |
| **T-doc number** | **Company** | **Proposals / Observations** |
| [**R4-2113826**](https://www.3gpp.org/ftp/TSG_RAN/WG4_Radio/TSGR4_100-e/Docs/R4-2113826.zip) | Huawei | **Proposal1: When Srxlev ≤ SnonIntraSearchP or Squal ≤ SnonIntraSearchQ, measurements for UE fulfilling low mobility or not-at-cell edge criteria UE are specified as Ncarrier\_Relax \* Trelax + Ncarrier\_Non\_relax \* Tnon-Relax** **where** **Trelax is the relaxed measurement requirements specified in clause 4.2.2.10 and 4.2.2.11 in TS38.133,****Tnon-Relax is the normal measurement requirements specified in clause 4.2.2.4 and 4.2.2.5 in TS38.133,****Ncarrier\_Relax is the total number of configured inter-frequency/inter-RAT carriers required to meet relaxed measurement requirements (i.e., non-EMR carriers and EMR carriers while T331 is not running).****Ncarrier\_Relax is the total number of configured inter-frequency/inter-RAT carriers required to meet non relaxed measurement requirements (i.e., EMR carriers while T331 is running).** |

## 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

**Proposal: When Srxlev ≤ SnonIntraSearchP or Squal ≤ SnonIntraSearchQ, measurements for UE fulfilling low mobility or not-at-cell edge criteria UE are specified as Ncarrier\_Relax \* Trelax + Ncarrier\_Non\_relax \* Tnon-Relax**

**where**

**Trelax is the relaxed measurement requirements specified in clause 4.2.2.10 and 4.2.2.11 in TS38.133,**

**Tnon-Relax is the normal measurement requirements specified in clause 4.2.2.4 and 4.2.2.5 in TS38.133,**

**Ncarrier\_Relax is the total number of configured inter-frequency/inter-RAT carriers required to meet relaxed measurement requirements (i.e., non-EMR carriers and EMR carriers while T331 is not running).**

**Ncarrier\_Relax is the total number of configured inter-frequency/inter-RAT carriers required to meet non relaxed measurement requirements (i.e., EMR carriers while T331 is running).**

## Companies views’ collection for 1st round

### **Open issues**

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

### 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** |
| [**R4-2113827**](https://www.3gpp.org/ftp/TSG_RAN/WG4_Radio/TSGR4_100-e/Docs/R4-2113827.zip)Correction on measurement requiements in relaxed measurement | Company A |
| Company B |
|  |

## Summary for 1st round

### Open issues

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

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

### 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)

*Moderator can provide summary of 2nd round here. Note that recommended decisions on tdocs should be provided in the section titled ”Recommendations for Tdocs”.*

# Topic #5: DAPS handover

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

## Companies’ contributions summary

|  |  |  |
| --- | --- | --- |
| **T-doc number** | **Company** | **Proposals / Observations** |
| [**R4-2113515**](https://www.3gpp.org/ftp/TSG_RAN/WG4_Radio/TSGR4_100-e/Docs/R4-2113515.zip) | Ericsson | **Proposal 1 : Prior to random access procedure autonomous interruption is done in communication towards the target cell as necessary to enable the UE to have sufficient switching time, and after the random access procedure autonomous interruption is done in communication towards source cell as necessary to allow the UE to have sufficient switching time.** |
| [**R4-2113813**](https://www.3gpp.org/ftp/TSG_RAN/WG4_Radio/TSGR4_100-e/Docs/R4-2113813.zip) | Huawei | ***Observation 1: For DAPS handover, the UE is not required to perform PDCCH/PDSCH reception or uplink transmission on target cell before starting RACH procedure.******Observation 2: For PRACH transmission on target cell, no additional interruption is needed when the target cell downlink timing is earlier than the source cell downlink timing.******Observation 3: For PRACH transmission on target cell, an interruption of up to 6us due to DL-to-UL or UL-to-DL switching may be needed when the target cell downlink timing is later than the source cell downlink timing.******Observation 4: For option 2, the UE is required to perform timing comparison between source cell and target cell, which would introduce additional complexity into UE implementation.******Proposal 1: The clarification on DL-to-UL and UL-to-DL switching time for intra-band DAPS handover can be defined as follows:**** ***Note 2: For DAPS handover on a TDD band, after starting RACH procedure, a UE is not required to transmit in the uplink to any of source and target cells earlier than NRX-TX after the end of the last received downlink symbol from any of source and target cells in the same TDD band where NRX-TX=25600Tc.***
* ***Note 3: For DAPS handover on a TDD band, after starting RACH procedure, a UE is not required to receive in the downlink from any of source and target cells earlier than NTX-RX after the end of the last transmitted uplink symbol to any of source and target cells in the same TDD band where NTX-RX=25600Tc.***
 |

## Open issues summary

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

### Sub-topic 1-1

**Issue 5-1: how to handle impact from TDD UL-DL and DL-UL switching for intra-band TDD case:**

* Proposals
	+ Option 1 (Huawei): The clarification on DL-to-UL and UL-to-DL switching time for intra-band DAPS handover can be defined as follows:
		- Note 2: For DAPS handover on a TDD band, after starting RACH procedure, a UE is not required to transmit in the uplink to any of source and target cells earlier than NRX-TX after the end of the last received downlink symbol from any of source and target cells in the same TDD band where NRX-TX=25600Tc.
		- Note 3: For DAPS handover on a TDD band, after starting RACH procedure, a UE is not required to receive in the downlink from any of source and target cells earlier than NTX-RX after the end of the last transmitted uplink symbol to any of source and target cells in the same TDD band where NTX-RX=25600Tc.
	+ Option 2 (Ericsson): prior to random access procedure autonomous interruption is done in communication towards the target cell as necessary to enable the UE to have sufficient switching time, and after the random access procedure autonomous interruption is done in communication towards source cell as necessary to allow the UE to have sufficient switching time:

**Table: Mitigation of constraints for DL to UL switching**

|  |  |
| --- | --- |
| * Scenario
 | Mitigation action |
| Early target, late source, prior to start of random access | Not applicable (no target transmission) |
| Late target, early source, prior to start of random access | Skip last part of target DL |
| Early target, late source, after start of random access | Skip last part of source reception |
| Late target, early source, after start of random access | Skip first part of source transmission |

**Table: Mitigation of constraints for UL to DL switching**

|  |  |
| --- | --- |
| Scenario | Mitigation action |
| Early target, late source, prior to start of random access | Skip first part of target DL |
| Late target, early source, prior to start of random access | Not applicable (no target transmission) |
| Early target, late source, after start of random access | Skip last part of source transmission |
| Late target, early source, , after start of random access | Skip first part of source reception |

## Companies views’ collection for 1st round

### Open issues

Sub topic 5-1: how to handle impact from TDD UL-DL and DL-UL switching for intra-band TDD case:

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

### CRs/TPs comments collection

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

|  |  |
| --- | --- |
| **CR/TP number** | **Comments collection** |
| [**R4-2113516**](https://www.3gpp.org/ftp/TSG_RAN/WG4_Radio/TSGR4_100-e/Docs/R4-2113516.zip) **CR on TS38.133 for dual active protocol stack handover** | Company A |
| Company B |
|  |
| [**R4-2113814**](https://www.3gpp.org/ftp/TSG_RAN/WG4_Radio/TSGR4_100-e/Docs/R4-2113814.zip) **Correction to DAPS handover requirements R16** | 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.*

|  |  |
| --- | --- |
|  | **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 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”* |

# Topic #6: Miscellaneous CR

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

### 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** |  **Title** | **Comments collection** |
| [**R4-2111961**](https://www.3gpp.org/ftp/TSG_RAN/WG4_Radio/TSGR4_100-e/Docs/R4-2111961.zip) | Draft CR on UE power saving requirements |  |
|  |
| [**R4-2111963**](https://www.3gpp.org/ftp/TSG_RAN/WG4_Radio/TSGR4_100-e/Docs/R4-2111963.zip) | Draft CR on cell reselection test case for UE Power saving |  |
|  |
| [**R4-2111965**](https://www.3gpp.org/ftp/TSG_RAN/WG4_Radio/TSGR4_100-e/Docs/R4-2111965.zip) | Draft CR on cell reselection test case for HST in FR1 |  |
|  |
| [**R4-2112513**](https://www.3gpp.org/ftp/TSG_RAN/WG4_Radio/TSGR4_100-e/Docs/R4-2112513.zip) | Draft CR on measurement delay requirements for Rel-16 HST requirements |  |
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| [**R4-2113266**](https://www.3gpp.org/ftp/TSG_RAN/WG4_Radio/TSGR4_100-e/Docs/R4-2113266.zip) | Draft CR to TS 38.133 on RRC\_IDLE and RRC\_INACTIVE state mobility |  |
|  |
| [**R4-2113855**](https://www.3gpp.org/ftp/TSG_RAN/WG4_Radio/TSGR4_100-e/Docs/R4-2113855.zip) | draft CR to TS38.133[R16] Updating the introduction of EN-DC Interruption |  |
|  |
| [**R4-2113884**](https://www.3gpp.org/ftp/TSG_RAN/WG4_Radio/TSGR4_100-e/Docs/R4-2113884.zip) | [draft CR] maintenance for conditional PSCell change |  |
|  |
| [**R4-2114013**](https://www.3gpp.org/ftp/TSG_RAN/WG4_Radio/TSGR4_100-e/Docs/R4-2114013.zip) | Draft CR for Idle Mode measurements of inter-RAT CA candidate cells for early reporting (TC#3) |  |
|  |
| [**R4-2114149**](https://www.3gpp.org/ftp/TSG_RAN/WG4_Radio/TSGR4_100-e/Docs/R4-2114149.zip) | Correction to test cases of inter-RAT cell re-selection with relaxed measurement criterion R16 |  |
|  |
| [**R4-2114431**](https://www.3gpp.org/ftp/TSG_RAN/WG4_Radio/TSGR4_100-e/Docs/R4-2114431.zip) | Side conditions in IAB-MT RRC connection mobility requirements in TS 38.174 |  |
|  |
| [**R4-2114432**](https://www.3gpp.org/ftp/TSG_RAN/WG4_Radio/TSGR4_100-e/Docs/R4-2114432.zip) | Correction to IAB-MT RRM tests in TS 38.174 |  |
|  |
| [**R4-2114441**](https://www.3gpp.org/ftp/TSG_RAN/WG4_Radio/TSGR4_100-e/Docs/R4-2114441.zip) | Missing n259 RRM performance requirements in Rel-17 |  |
|  |

## 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)

*Moderator can provide summary of 2nd round here. Note that recommended decisions on tdocs should be provided in the section titled ”Recommendations for Tdocs”.*

# Recommendations for Tdocs

## 1st round

**New tdocs**

|  |  |  |
| --- | --- | --- |
| **Title** | **Source** | **Comments** |
| WF on … | YYY |  |
| LS on … | ZZZ | To: RAN\_X; Cc: RAN\_Y |
|  |  |  |

**Existing tdocs**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Tdoc number** | **Title** | **Source** | **Recommendation**  | **Comments** |
| R4-210xxxx | CR on … | XXX | Agreeable, Revised, Merged, Postponed, Not Pursued |  |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |

Notes:

1. Please include the summary of recommendations for all tdocs across all sub-topics incl. existing and new tdocs.
2. For the Recommendation column please include one of the following:
	1. CRs/TPs: Agreeable, Revised, Merged, Postponed, Not Pursued
	2. Other documents: Agreeable, Revised, Noted
3. For new LS documents, please include information on To/Cc WGs in the comments column
4. Do not include hyper-links in the documents

## 2nd round

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Tdoc number** | **Title** | **Source** | **Recommendation**  | **Comments** |
| R4-210xxxx | CR on … | XXX | Agreeable, Revised, Merged, Postponed, Not Pursued |  |
| R4-210xxxx | WF on … | YYY | Agreeable, Revised, Noted |  |
| R4-210xxxx | LS on … | ZZZ | Agreeable, Revised, Noted |  |
|  |  |  |  |  |

Notes:

1. Please include the summary of recommendations for all tdocs across all sub-topics.
2. For the Recommendation column please include one of the following:
	1. CRs/TPs: Agreeable, Revised, Merged, Postponed, Not Pursued
	2. Other documents: Agreeable, Revised, Noted
3. Do not include hyper-links in the documents

# 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)