3GPP TSG-RAN WG4 meeting #99-eR4-21xxxx

Electronic Meeting, 19th – 27th May 2021

**Agenda item:** 4.2.3, 5.2.2.3, 5.2.1

**Source:** Moderator (Ericsson)

**Title:** Email discussion summary for [99-e][203] LTE\_RRM\_maintenance

**Document for:** Information

# Introduction

The discussion covers NR-U AIs within 6.1.5.

**When updating this document, please remember to:**

* **use track changes while adding your comments in this document (only updates marked with change marks will be taken into the next version),**
* **change the file name, adding your company name, according to the instructions from RAN4 chair:**
* **Length of file names shall be reduced, e.g.**
	+ **At the beginning of first round, moderators share / ftp / tsg\_ran / WG4\_Radio / TSGR4\_98\_e / Inbox / Drafts / [98e][101] NR\_NewRAT\_SysParameters\Summary\_101\_1st round\_v01.docx**
	+ **After update by company A: Summary\_101\_1st round\_v02\_companyA**
	+ **After update by company B: Summary\_101\_1st round\_v03\_companyA\_companyB**
	+ **After update by company C: Summary\_101\_1st round\_v04\_companyB\_companyC**

## 1st round

The following list of open issues was identified, based on the contributions, for the 1st round.

The following colour marking is used below:

* A topic/issue proposed for discussion in: GTW session 1
* No discussion in the 1st round
* **Topic #1: NB-IoT (AI 4.2.3)**
* **Topic #2: Rel-16 MTC (AI 5.2.2.3)**

Sub-topic 3-1: RSS based RSRQ measurement

Issue 2-1-1: RSS based RSRQ measurement

Issue 2-1-2: LS to RAN2 about RAN4 agreement

* **Topic #3: Even further mobility enhancement (AI 5.2.1)**

Sub-topic 3-1: Further clarification on DL-to-UL and UL-to-DL switching time

Issue 3-1-1: Further clarification on DL-to-UL and UL-to-DL switching time in DAPS handover

## 2nd round

TBD

# Topic #1: NB-IoT

Contributions from AI 4.2.3 are discussed here.

## Companies’ contributions summary

|  |  |  |
| --- | --- | --- |
| **T-doc number** | **Company** | **Proposals / Observations** |
| R4-2110349 | Huawei, HiSilicon | CR: On RRC re-establishment for NB-IoT R13 |
| R4-2110354 | Huawei, HiSilicon | CR: On requirements of cell reselection for NB-IoT R14 |
|  |  |  |
|  |  |  |

## Open issues summary

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

## Companies views’ collection for 1st round

### Open issues

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

### 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** |
| R4-2110349 (Huawei, HiSilicon) | Company A |
| Company B |
| Ericsson: The CE level of the measured neighbour cell can be different than the CE level of the current servin cell. That is why there is a relation defined for Q2 in Table Table 4.6.2.4-1 . This table shows that the neighbour cell can hvae good coverage although the UE is operating in enhanced coverage wrt serving cell. Hence, this change is not needed. |
| R4-2110354 (Huawei, HiSilicon) | Ericsson: It seems the reference to the reselection margin table is missing also in inter-frequency EC case. So we should fix the reference to the table in both NC and EC. |
| 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**  |
|  | *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)

# Topic #2: Rel-16 MTC

Contributions from AI 5.2.2.3 are discussed here.

## Companies’ contributions summary

|  |  |  |
| --- | --- | --- |
| **T-doc number** | **Company** | **Proposals / Observations** |
| R4-2109868 | Qualcomm Incorporated | CR: Time synchronization assumption for RSS-based neighbor cell measurements |
| R4-2110276 | Nokia, Nokia Shanghai Bell | 1. RAN4 to discuss the pros and cons of both approaches, i.e. whether to introduce RSS based RSRQ requirements in RAN1 and RAN4 specifications or to adjust applicability requirements in TS 36.133 to enable reuse of existing CRS based RSRQ measurements in case of RSS based RSRP measurement configuration.
 |
| R4-2110853 | Huawei, HiSilicon | **Proposal:** Capture the following assumption and condition for RSS measurement in 36.133:For performing RSRP measurement based on RSS on detected intra-frequency cells, UE assumes the neighbour cell RSS starts in the radio frame (w.r.t. neighbor cell timing) that is closest in time to the derived serving cell radio frame offset, and the requirements apply provided that neighbor cell starts RSS transmission from said radio frame. |
| R4-2110854 | Huawei, HiSilicon | CR: On remaining issues in Rel-16 eMTC RRM |
| R4-2111251 | Ericsson | * Observation #1: Rel-16 eMTC WI objective only includes improving the DL RSRP measurement accuracy through use of RSS, i.e. RSRQ is not included.
* Observation #2: Rel-16 WI on eMTC is completed and thus RSRQ measurement support through use of RSS (if introduced) has be done under TEI work item.
* Observation #3: Only small technical enhancement work is allowed under TEI work item.
* Observation #4: The work of introducing RSS based RSRQ can be divided into following:
	+ Agreeing on simulation assumptions
	+ Evaluating the feasibility of RSRQ
	+ If found feasible, develop detailed requirements
* **Proposal:** RSS based RSRQ shall not be introduced under TEI work for release 16 eMTC.
 |
|  | Ericsson | CR: Correction of RLM test parameters for MPDCCH performance improvement |

## Open issues summary

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

## Companies views’ collection for 1st round

### Open issues

Background: RAN4 has received LS response related to RSS based RSRQ measurement as follows [R2-2104392]:

|  |
| --- |
| The options proposed by RAN4 are:* *Option 1: Remove RSRQ from the cell selection and cell re-selection criterion when a cell is measured using RSS.*
* *Option 2: Define RSRQ for RSS measurements*

RAN2 has discussed the options listed in the LS and concluded that from RAN2 perspective option 1 is not preferred because it may have an impact on cell (re)-selection performance and behaviour, but it is up to RAN1 and RAN4 to decide. |

### Sub-topic 2-1: RSS based RSRQ measurement

**Issue 2-1-1: RSS based RSRQ measurement**

Proposals

* Proposal 1 (Ericsson):
	+ RSS based RSRQ shall not be introduced under TEI work for release 16 eMTC.

Recommended WF

* Discuss the proposal

**Issue 2-1-2: LS to RAN2 about RAN4 agreement**

Proposals

* + Proposal 1 (Ericsson): Send LS RAN2 informing about the RAN4 agreement to no introduce RSS based RSRQ measurement in release 16.

Recommended WF

* Discuss whether to send the LS in R4-2111251

|  |  |
| --- | --- |
| **Company** | **Comments** |
| Ericsson | **Issue 2-1-1: RSS based RSRQ measurement**WI objective only includes RSS based RSRP measurement, and RSRQ is not stated. Introducing RSRQ will require a lot of work which comprises: * Agreeing on simulation assumptions,
* evaluating the feasibility of RSRQ,
* if found feasible, develop detailed requirements

However, only small technical enhancement work is allowed under TEI and RSRQ is more than that in our view. Thus SS based RSRQ shall not be introduced under TEI work for release 16 eMTC. RAN4 can send LS to RAN2 informing about the RAN4 agreement to no introduce RSS based RSRQ measurement in release 16.**Issue 2-1-2: LS to RAN2 about RAN4 agreement** We support the proposal that RAN4 sends LS to RAN2 informing about the RAN4 agreement to no introduce RSS based RSRQ measurement in release 16 and update specification if needed.  |

### 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** |
| *R4-2109868* (Qualcomm Incorporated) | Ericsson: In the beginning of the section, there is already a list of conditions under which RSS based measurements apply. Our preference is to add one more condition related to the neighbour cell measurements as follows: * “RSS-based RSRP measurements defined in this section apply provided that the the start of RSS transmission on neighbor cells is within a window of +/- 5ms around the calculated frame offset calculated from RRC signalling [list the reference] in the serving cell.”

The above sentence is sufficient and rest can be removed.  |
| Company B |
|  |
| R4-2110854 (Huawei, HiSilicon) | Ericsson: We prefer the wording similar to those proposed in R4-2109868 because it is more is more concrete, it states the condition that maximum timing difference is +/- 5 ms. This is much more clearer than stating that "RSS starts in the radio frame (w.r.t. neighbor cell timing) that is closest in time to the derived serving cell radio frame offset". |
| Company B |
|  |
| R4-2110647 (Ericsson) |  |

## 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**  |
|  | **Issue 2-1-1: RSS based RSRQ measurement****Issue 2-1-2: LS to RAN2 about RAN4 agreement***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: Even further mobility enhancement

Contributions from AI 5.2.1 are discussed here.

## Companies’ contributions summary

|  |  |  |
| --- | --- | --- |
| **T-doc number** | **Company** | **Proposals / Observations** |
| R4-2110375 | Huawei, HiSilicon | CR: Clarification on asynchronous DAPS handover |
| R4-2110391 | Ericsson | CR: Correction on the synchronous condition for DAPS handover |
| R4-2110390 | Ericsson | **Observation 1:** Network does not know the exact timing condition at UE when DAPS HO is being performed**Observation 2:** It is important not to extend GP to facilitate DAPS operation, from an overhead perspective**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. |

## Open issues summary

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

Background:

Following issue from the NR DAPS way forward agreed in RAN4#97 is discussed:

|  |
| --- |
| * Issue 1-3: further clarification on DL-to-UL and UL-to-DL switching time
	+ Option 1: clarify that 13us switching time is allowed between source cell and target cell:
		- Note 2: For DAPS handover on a TDD band, a UE is not expected to transmit in the uplink to source or target cell earlier than NRX-TX after the end of the last received downlink symbol from source or target cell in the same TDD band where NRX-TX=25600Tc.
		- Note 3: For DAPS handover on a TDD band, a UE is not expected to receive in the downlink from source or target cell earlier than NTX-RX after the end of the last transmitted uplink symbol toward source or target cell in the same TDD band where NTX-RX=25600Tc.
	+ Option 2: Retain the existing specification that DL-to-UL and UL-to-DL switching time applies within the same cell
		- Note 2:      For DAPS handover on a TDD band, a UE is not expected to transmit in the uplink earlier than NRX-TXafter the end of the last received downlink symbol in the same cell where NRX-TX=25600Tc.
		- Note 3:  For DAPS handover on a TDD band, a UE is not expected to receive in the downlink earlier than NTX-RX after the end of the last transmitted uplink symbol in the same cell where NTX-RX=25600Tc.
	+ Option 3: clarify that 10us switching time is allowed between source cell and target cell
		- Note 2: For DAPS handover on a TDD band, a UE is not expected to transmit in the uplink to source or target cell earlier than NRX-TX after the end of the last received downlink symbol from source or target cell in the same TDD band where NRX-TX=19712Tc.
		- Note 3: For DAPS handover on a TDD band, a UE is not expected to receive in the downlink from source or target cell earlier than NTX-RX after the end of the last transmitted uplink symbol toward source or target cell in the same TDD band where NTX-RX=19712Tc.
	+ Other options
 |

### Sub-topic 3-1: Further clarification on DL-to-UL and UL-to-DL switching time

**Issue 3-1-1: Further clarification on DL-to-UL and UL-to-DL switching time in DAPS handover**

Proposals

* Proposal 1 (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.

Recommended WF

* Discuss the proposal

## Companies views’ collection for 1st round

### Open issues

|  |  |
| --- | --- |
| **Company** | **Comments** |
| Ericsson | **Issue 3-1-1: Further clarification on DL-to-UL and UL-to-DL switching time**The general condition is 20 µs as indicated, for example, in note 2 and note 3 of our CR R4-2110391. We all agree to that.Note 2: For DAPS handover on a TDD band, a UE shall be capable to transmit in the uplink to source or target cell after 20usafter the end of the last received downlink symbol from the source or target cell in the same TDD-band. Note 3: For DAPS handover on a TDD band, a UE shall be capable to receive in the downlink from source or target cell after 20us after the end of the last transmitted uplink symbol towards source or target cell in the same TDD-band. However they key point in our proposal is that there are cases where this time constraint can not be met as shown in R4-2110390. For those cases we have added text in note 2 and note 3, “When this condition is not met, the UE may perform autonomous interruption as shown in table 5.7.1-2.” and “When this condition is not met, the UE may perform autonomous interruption as shown in table 5.7.1-3.”This makes UE behavior complete and predictable during network operation, for all possible cases.We think that just stating the general condition NRX-TX=26500 Tc then there are cases that become undefined and unpredictable, when it comes to network behavior.Table 5.7.1-2: Autonomous interruptions related to DL to UL switching for syncrounous TDD DAPS handover in the same band

|  |  |
| --- | --- |
| **Scenario** | **Allowed interruption** |
| Target cell earlier than source cellNote 1, prior to start of random access | Not applicable  |
| Target cell later than source cell Note 1, prior to start of random access | The UE may stop receiving the target DL up to 20µS prior to the start of the source UL |
| Target cell earlier than source cell Note 1, after start of random access | The UE may stop receiving the source DL up to 20µS prior to the start of the target UL |
| Target cell later than source cell Note 1, after start of random access | The UE may start transmitting the source UL up to 20µS after the start of the source DL |
| Note 1: As observed by UE at antenna connector |

Table 5.7.1-3: Autonomous interruptions related to UL to DL switching for syncrounous TDD DAPS handover in the same band

|  |  |
| --- | --- |
| **Scenario** | **Allowed interruption** |
| Target cell earlier than source cell Note 1, prior to start of random access | The UE may start receiving the target DL up to 20µS after the end of the source UL |
| Target cell later than source cell Note 1 prior to start of random access | Not applicable |
| Target cell earlier than source cell Note 1, after start of random access | The UE may stop transmissions of the source UL up to 20µS prior to the start of target DL reception. |
| Target cell later than source cell Note 1, after start of random access | The UE may start receiving the source DL up to 20µS after the end of the target UL |
| Note 1: As observed by UE at antenna connector |

 |

### 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** |
| R4-2110375(Huawei, HiSilicon) | Ericsson There are cases when the general condition of 20 µs time constraint can not be met as shown in R4-2110390. For those cases we have added text in note 2 and note 3: “When this condition is not met, the UE may perform autonomous interruption as shown in table 5.7.1-2.” and “When this condition is not met, the UE may perform autonomous interruption as shown in table 5.7.1-3.”This makes UE behaviour complete and predictable during network operation, for all possible cases.We think that just stating the general condition of 20 µs then there are cases that become undefined and unpredictable, when it comes to network behaviour. |
| Company B |
|  |
| R4-2110391 (Ericsson) | EricssonThe general condition is 20 µs as indicated, for example, in note 2 and note 3 of our CR R4-2110391. We all agree to that.Note 2: For DAPS handover on a TDD band, a UE shall be capable to transmit in the uplink to source or target cell after 20usafter the end of the last received downlink symbol from the source or target cell in the same TDD-band. Note 3: For DAPS handover on a TDD band, a UE shall be capable to receive in the downlink from source or target cell after 20us after the end of the last transmitted uplink symbol towards source or target cell in the same TDD-band. However they key point in our proposal is that there are cases where this time constraint can not be met as shown in R4-2110390. For those cases we have added text in note 2 and note 3, “When this condition is not met, the UE may perform autonomous interruption as shown in table 5.7.1-2.” and “When this condition is not met, the UE may perform autonomous interruption as shown in table 5.7.1-3.”This makes UE behavior complete and predictable during network operation, for all possible cases.We think that just stating the general condition NRX-TX=26500 Tc then there are cases that become undefined and unpredictable, when it comes to network behavior.Table 5.7.1-2: Autonomous interruptions related to DL to UL switching for syncrounous TDD DAPS handover in the same band

|  |  |
| --- | --- |
| **Scenario** | **Allowed interruption** |
| Target cell earlier than source cellNote 1, prior to start of random access | Not applicable  |
| Target cell later than source cell Note 1, prior to start of random access | The UE may stop receiving the target DL up to 20µS prior to the start of the source UL |
| Target cell earlier than source cell Note 1, after start of random access | The UE may stop receiving the source DL up to 20µS prior to the start of the target UL |
| Target cell later than source cell Note 1, after start of random access | The UE may start transmitting the source UL up to 20µS after the start of the source DL |
| Note 1: As observed by UE at antenna connector |

Table 5.7.1-3: Autonomous interruptions related to UL to DL switching for syncrounous TDD DAPS handover in the same band

|  |  |
| --- | --- |
| **Scenario** | **Allowed interruption** |
| Target cell earlier than source cell Note 1, prior to start of random access | The UE may start receiving the target DL up to 20µS after the end of the source UL |
| Target cell later than source cell Note 1 prior to start of random access | Not applicable |
| Target cell earlier than source cell Note 1, after start of random access | The UE may stop transmissions of the source UL up to 20µS prior to the start of target DL reception. |
| Target cell later than source cell Note 1, after start of random access | The UE may start receiving the source DL up to 20µS after the end of the target UL |
| Note 1: As observed by UE at antenna connector |

 |
| 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 4-1** | **Issue 3-1-1: Further clarification on DL-to-UL and UL-to-DL switching time***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 |  |
| R4-2110349 | CR on RRC re-establishment for NB-IoT R13 | Huawei, HiSilicon |  |  |
| R4-2110350 | CR on RRC re-establishment for NB-IoT R14 | Huawei, HiSilicon |  |  |
| R4-2110351 | CR on RRC re-establishment for NB-IoT R15 | Huawei, HiSilicon |  |  |
| R4-2110352 | CR on RRC re-establishment for NB-IoT R16 | Huawei, HiSilicon |  |  |
| R4-2110353 | CR on RRC re-establishment for NB-IoT R17 | Huawei, HiSilicon |  |  |
| R4-2110354 | CR on requirements of cell reselection for NB-IoT R14 | Huawei, HiSilicon |  |  |
| R4-2110355 | CR on requirements of cell reselection for NB-IoT R15 | Huawei, HiSilicon |  |  |
| R4-2110356 | CR on requirements of cell reselection for NB-IoT R16 | Huawei, HiSilicon |  |  |
| R4-2110357 | CR on requirements of cell reselection for NB-IoT R17 | Huawei, HiSilicon |  |  |
| R4-2109868 | Time synchronization assumption for RSS-based neighbor cell measurements | Qualcomm Incorporated |  |  |
| R4-2109869 | Time synchronization assumption for RSS-based neighbor cell measurements | Qualcomm Incorporated |  |  |
| R4-2110854 | CR on remaining issues in Rel-16 eMTC RRM | Huawei, HiSilicon |  |  |
| R4-2110855 | CR on remaining issues in Rel-16 eMTC RRM R17 | Huawei, HiSilicon |  |  |
| R4-2111251 | LS on RAN4 agreement on RSS based RSRQ measurement for cat-M | Ericsson |  |  |
| R4-2110375 | Clarification on asynchronous DAPS handover R16 | Huawei, HiSilicon |  |  |
| R4-2110376 | Clarification on asynchronous DAPS handover R17 | Huawei, HiSilicon |  |  |
| R4-2110391 | Correction on the synchronous condition for DAPS handover | Ericsson |  |  |
| R4-2110392 | Correction on the synchronous condition for DAPS handover | Ericsson |  |  |
| R4-2110647 | Correction of RLM test parameters for MPDCCH performance improvement | Ericsson |  |  |
| R4-2110779 | Correction of RLM test parameters for MPDCCH performance improvement | Ericsson |  |  |

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