**3GPP TSG-RAN WG4 Meeting #99-eR4-21xxxxx**

**Electronic Meeting, 19 – 27 May, 2021**

**Agenda item:** 4.1.7

**Source:** Moderator (Huawei)

**Title:** Email discussion summary for [99-e][201] NR\_RRM\_maintenance\_R15\_Core

**Document for:** Information

# Introduction

The scope of this email discussion includes the following agenda items:

|  |
| --- |
| 4.1.7 RRM core requirements maintenance (38.133/36.133) [NR\_newRAT-Core] |

In providing comments, companies are encouraged to:

* Ensure that the comments are inserted in the latest version of the document by checking the folder before uploading
* Use “Track changes” to help identify added comments/changes
* Pay attention to the rule for shortening file name

# Topic #1: Rel-15 NR RRM core requirements

## Companies’ contributions summary

|  |  |  |
| --- | --- | --- |
| **T-doc** | **Company** | **Proposals / Observations** |
| [**R4-2109294**](https://www.3gpp.org/ftp/TSG_RAN/WG4_Radio/TSGR4_99-e/Docs/R4-2109294.zip) | Apple, Huawei, HiSilicon | CR  (1) The CSSF requirement has been updated for EN-DC to consider the MOs configured from both LTE MN and NR SN in EN-DC.  (2) Introduce Kp in measurement requirements for deactivated SCC.  (3) Correct the typo in title of Table 9.2.5.1-5. |
| [**R4-2109319**](https://www.3gpp.org/ftp/TSG_RAN/WG4_Radio/TSGR4_99-e/Docs/R4-2109319.zip) | Apple | CR  (1) Update condition for SCell activation delay in FR1.  (2) Update applicability of RRC based BWP switch for SCell. |
| [**R4-2109621**](https://www.3gpp.org/ftp/TSG_RAN/WG4_Radio/TSGR4_99-e/Docs/R4-2109621.zip) | vivo | CR  Clarify that RRC-based BWP switch on single CC applys for SpCell, applys for all cells when the paramter of BWP is changed except for the modification of parameters firstActiveDownlinkBWP-Id and firstActiveUplinkBWP-Id for SCell(s).  Remove the related editor’s note |
| [**R4-2109848**](https://www.3gpp.org/ftp/TSG_RAN/WG4_Radio/TSGR4_99-e/Docs/R4-2109848.zip) | MediaTek inc. | CR  Add scheduling restriction on aperiodic CSI-RS for L1-RSRP, during during intra-frequency measurements on FR2. |
| [**R4-2109983**](https://www.3gpp.org/ftp/TSG_RAN/WG4_Radio/TSGR4_99-e/Docs/R4-2109983.zip) | Ericsson | CR  Delete the related capability wordings (for inter-frequency without gaps). |
| [**R4-2110358**](https://www.3gpp.org/ftp/TSG_RAN/WG4_Radio/TSGR4_99-e/Docs/R4-2110358.zip) | Huawei, HiSilicon | CR  For Issue 1: deactivated SCell measurement:  Adding scaling factor Kp for deactivated SCell measurement requirements without gap;  For Issue 2: interruption due to measurement on deactivated SCC  1. interruption requirements for measurement on deactivated SCell is corrected.  2. Wording in 8.2.4.2.3 is updated to add missing requirements for PSCell |
| [**R4-2110769**](https://www.3gpp.org/ftp/TSG_RAN/WG4_Radio/TSGR4_99-e/Docs/R4-2110769.zip) | Huawei, Hisilicon | CR  Interruption requirements for measurement on deactivated NR SCell under EN-DC/NE-DC are corrected. |
| [**R4-2110846**](https://www.3gpp.org/ftp/TSG_RAN/WG4_Radio/TSGR4_99-e/Docs/R4-2110846.zip) | Huawei, HiSilicon | **Proposal 1: Update the calculation of CSSF outside MG to account for inter-RAT measurement configured by LTE PCell on NR serving carriers. Measurements configured by LTE PCell and NR PSCell on the same NR serving carrier are counted as one measurement if they satisfy MO merging condition, otherwise they are counted as two measurements.**  **Proposal 2: Rel-15 SCell activation requirements, except those for SSB-less SCell, apply provided that the SSB of the to-be-activated SCell is within the first active DL BWP of the SCell.**  **Proposal 3: For branching of delay requirements, the following shall replace condition on measCycleSCell for known SCell in FR1**   * **TFirstSSB+ 5ms, if the measurement period is at most [800]ms,** * **TFirstSSB\_MAX + Trs + 5ms, if the measurement period is longer than [800]ms**   **Proposal 4: If UE is not provided with SSB (*absoluteFrequencySSB*) nor SMTC configuration for the target SCell in FR1, Tactivation\_time is 3 ms provided**   * **The target SCell is contiguous to an active serving cell in the same band, and** * **The RTD between the target SCell and the contiguous active serving cell is <= CP/2, and** * **The difference of the reception power with the contiguous active serving cell is <= 6dB, and** * **The RS(s) of SCell being activated is (are) QCL-TypeA with TRS(s) of the SCell being activated, and the TRS(s) is (are) further QCL-TypeC with SSB(s) of with the contiguous active serving cell.**   **Proposal 5: When SMTC configuration is not provided within the corresponding command (e.g. Handover, RRC release with redirection, SCell activation and PSCell addition/change), and MN and SN configure measObjectNR having same SSB frequency and subcarrier spacing with different SMTC configurations, the corresponding requirements are derived based on the SMTC with larger SMTC periodicity.**  **Proposal 6: Kp shall also apply for measurement requirements on deactivated SCell, where Kp = 1/(1- (SMTC period /MGRP)).** |
| [**R4-2110927**](https://www.3gpp.org/ftp/TSG_RAN/WG4_Radio/TSGR4_99-e/Docs/R4-2110927.zip) | Huawei, HiSilicon | CR  1. Update the SCell activation requriements  a) Clarifiy that current activation requirements do not apply when SCellSSB is outside first active BWP  b) Add FR1 SSB-less SCell activation requirements  c) Clarifythe meaning of “SCell measurement cycle” in FR1 known SCell activation requirements  2. Add the clarification that Trs is the SMTC with larger SMTC periodicity if MN and SN configure measObjectNR with different SMTC configurations.  3. Update the definition of “reference point” in clause 7.1.2. |
| [**R4-2110928**](https://www.3gpp.org/ftp/TSG_RAN/WG4_Radio/TSGR4_99-e/Docs/R4-2110928.zip) | Huawei, HiSilicon | CR  1. Remove the applicability related to intra- or inter-freqeuncy E-UTRA RSTD measurement for NE-DC.  2. Add the clarification that Trs is the SMTC with larger SMTC periodicity if MN and SN configure measObjectNR with different SMTC configurations. |
| [**R4-2111028**](https://www.3gpp.org/ftp/TSG_RAN/WG4_Radio/TSGR4_99-e/Docs/R4-2111028.zip) | Nokia, Nokia Shanghai Bell | **Observation 1:** Allowing any reconfiguration of BWP parameters to cause "BWP switch" will impact NR system performance as UE cannot be scheduled during interruption time allowed by BWP switching.   1. Clarify that RRC-based BWP switch on single CC is appliable for SCells with any parameter change except the parameters *firstActiveDownlinkBWP-Id* and *firstActiveUplinkBWP-Id* both in Rel-15 and Rel-16 2. Clarify that RRC-based BWP switch on single CC is only applicable for SpCell in Rel-15 and Clarify that RRC-based BWP switch on single CC is appliable for SCell with any parameter change except the parameters *firstActiveDownlinkBWP-Id* and *firstActiveUplinkBWP-Id* both in Rel-16. |
| [**R4-2111029**](https://www.3gpp.org/ftp/TSG_RAN/WG4_Radio/TSGR4_99-e/Docs/R4-2111029.zip) | Nokia, Nokia Shanghai Bell | CR  Clarify that RRC-based BWP switch on single CC is applied for SCell except the modification of parameters firstActiveDownlinkBWP-Id and firstActiveUplinkBWP-Id for SCell |
| [**R4-2111032**](https://www.3gpp.org/ftp/TSG_RAN/WG4_Radio/TSGR4_99-e/Docs/R4-2111032.zip) | Nokia, Nokia Shanghai Bell | CR  Correction delay unit to slot level for NR-DC PSCell addition and release delay in Rel15 |
| [**R4-2111313**](https://www.3gpp.org/ftp/TSG_RAN/WG4_Radio/TSGR4_99-e/Docs/R4-2111313.zip) | Ericsson, Nokia, Intel | CR  The definition of the reference point for the UE initial transmit timing control requirement is clarified. |

## Open issues summary

### Sub-topic 1-1: Measurement requirements

#### Issue 1-1-1: CSSF for NR inter-RAT measurement on NR serving carriers in EN-DC

* Proposals
  + Option 1 (Apple, HW)
    - Update the spec based on following agreements from RAN4#98-e.

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| * Option 2a: Remove the inter-RAT MOs counted in CSSF outside MG from CSSF within MG, and further discuss allowing existing implementations not to meet the updated requirements. * CSSF calculation   + CSSF outside MG     - to consider merging of intra-frequency MO configured by NR SN and inter-RAT MO configured by LTE MN on the same serving frequency that are measured without MG, based on [MO merging conditions in clause 9.1.3.2 of 38.133].   + CSSF within MG     - to consider merging of two MOs configured by LTE MN and NR SN on the same frequency that are measured within MG, based on [MO merging conditions in clause 9.1.3.2 of 38.133].   + Note: companies can further check the exact MO merging conditions * Allow requirements relaxation for Rel-15 UEs to avoid compatibility issue   + Option 1: “longer delays for cell identification and measurement periods derived based on CSSFwithin\_gap,i can be expected, if the UE is configured with inter-RAT MO on NR serving CC by E-UTRAN PCell in EN-DC mode”. |

* + - Related changes are as shown in Change#1 and Change#2 in R4-2109294 (Apple)
* Recommended WF
  + Further discuss if Change#1 and Change#2 in R4-2109294 are agreeable.

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| **Company** | **Comments** |
| MTK | These Changes are agreeable |
|  |  |

#### Issue 1-1-2: Kp factor for measurement on deactivated SCC

Proposals

* + Option 1 (HW, Apple)
    - Kp shall also apply for measurement requirements on SCC with deactivated SCell, where Kp = 1/(1- (SMTC period /MGRP))
    - Related changes are as shown in
      * Change#1 in R4-2110358 (HW)
      * Change#3 in R4-2109294 (Apple)
* Recommended WF
  + Further discuss if option 1 is agreeable.

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| **Company** | **Comments** |
| MTK | agreeable |
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#### Issue 1-1-3: Scheduling restriction for intra-frequency measurements on FR2

Proposals

* + Option 1 (MTK)
    - When aperiodic CSI-RS for L1-RSRP is on 1 data symbol before/after SSB or RSSI symbols, it is unclear that UE shall measure on the SSB/RSSI or on the aperiodic CSI-RS for L1-RSRP
    - It is proposed to add scheduling restriction on aperiodic CSI-RS for L1-RSRP, during intra-frequency measurements on FR2.
    - Related changes are as shown in Change#1 in R4-2109848 (MTK)
* Recommended WF
  + Further discuss if option 1 is agreeable.

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| **Company** | **Comments** |
| MTK | We realize in clause 9.2.5.1 Intrafrequency cell identification, the following statements already addressed this issue in cell identification :  "If the above-mentioned reference signal configured for L1-RSRP measurement is aperiodic CSI-RS resource, longer cell identification delay would be expected."  However, the such clarification on Klayer1\_measurement is missing in clause 9.2.5.2 measurement, while the same principle should apply.  Thus, we would like to update the proposal to add the similar clarification for clause 9.2.5.2 measurement period as below:  "For FR2, longer measurement period would be expected, if aperiodic CSI-RS resource is configured for L1-RSRP measurement on any FR2 serving frequency in the same band outside measurement gap are overlapped with any of the SSB symbols and the RSSI symbols, and 1 symbol before each consecutive SSB symbols and the RSSI symbols, and 1 symbol after each consecutive SSB symbols and the RSSI symbols, given that SSB-ToMeasure and SS-RSSI-Measurement are configured, where SSB symbols are indicated by the union set of SSB-ToMeasure from all the configured measurement objects on the same serving carrier which can be merged and RSSI symbols are indicated by SS-RSSI-Measurement."  Thus, we would like to request a revision for this CR. |
|  |  |

#### Issue 1-1-4: Removal of MG-less inter-frequency measurement from Rel-15

Proposals

* + Option 1 (Ericsson)
    - The spec. specifies the capability for inter-frequency without gaps, but no such capability was introduced in Rel-15 for inter-frequency measurements
    - It is proposed to delete the descriptions related to the capabiliteis.
    - Related changes are as shown in Change#1 in R4-2109983 (Ericsson)
* Recommended WF
  + Further discuss if Change#1 in R4-2109983 is agreeable.

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| **Company** | **Comments** |
| MTK | Agreeable |
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### Sub-topic 1-2: SCell activation requirements

#### Issue 1-2-1: Condition for FR1 known SCell activation

* Proposals
  + Option 1 (Apple, HW)
    - Use the following condition to branch the FR1 known SCell activation requirements
      * TFirstSSB+ 5ms, if the measurement period is at most [800]ms,
      * TFirstSSB\_MAX + Trs + 5ms, if the measurement period is longer than [800]ms
    - Related changes are as shown in
      * Change#1 in R4-2109319 (Apple)
      * Change#3 in R4-2110927 (HW)
* Recommended WF
  + Further discuss if option 1 is agreeable.

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| **Company** | **Comments** |
| MTK | Agreeable |
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#### Issue 1-2-1: SSB not in first active BWP

* Proposals
  + Option 1 (HW)
    - Rel-15 SCell activation requirements, except those for SSB-less SCell, apply provided that the SSB of the to-be-activated SCell is within the first active DL BWP of the SCell.
    - Related changes are as shown in Change#3 in R4-2110927 (HW)
* Recommended WF
  + Further discuss if option 1 is agreeable.

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| **Company** | **Comments** |
| MTK | Agreeable |
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#### Issue 1-2-1: SSB-less activation in FR1

* Proposals
  + Option 1 (HW)
    - Define requirements for FR1 SSB-less SCell activation in Rel-15 as follows
      * If UE is not provided with SSB (absoluteFrequencySSB) nor SMTC configuration for the target SCell in FR1, Tactivation\_time is 3 ms provided
        + The target SCell is contiguous to an active serving cell in the same band, and
        + The RTD between the target SCell and the contiguous active serving cell is <= CP/2, and
        + The difference of the reception power with the contiguous active serving cell is <= 6dB, and
        + The RS(s) of SCell being activated is (are) QCL-TypeA with TRS(s) of the SCell being activated, and the TRS(s) is (are) further QCL-TypeC with SSB(s) of with the contiguous active serving cell.
    - Related changes are as shown in Change#3 in R4-2110927 (HW)
* Recommended WF
  + Further discuss if option 1 is agreeable.

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| **Company** | **Comments** |
| MTK | Agreeable |
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### Sub-topic 1-3: Other signaling characteristic related requirements

#### Issue 1-3-1: Applicability of RRC based BWP switching requirements

* Proposals
  + Option 1a (Apple)
    - Update the applicability of RRC based BWP switching requirements as follows
    - Related changes is as shown in
      * Change#2 in R4-2109319 (Apple)

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| The requirements in this clause only apply to the case that the BWP switch is performed on a single CC with   * Active BWP switching or parameter change of its active BWPs with one or more than one BWP configuration(s) configured for SpCell * Parameter change of its active BWPs except parameter *firstActiveDownlinkBWP-Id* and *firstActiveUplinkBWP-Id* with one BWP configuration for SCell |

* + Option 1b (vivo)
    - Update the applicability of RRC based BWP switching requirements as follows
    - Related changes is as shown in
      * Change#1 in R4-2109621 (vivo)

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| The requirements in this clause only apply to the case that the BWP switch is performed on a single CC with one or more than one BWP configuration(s) configured.  The requirements in this clause shall apply:   * Active BWP switching or parameter change of its active BWPs for SpCell * Parameter change of its active BWPs except parameter *firstActiveDownlinkBWP-Id* and *firstActiveUplinkBWP-Id* for SCells |

* + Option 1c (Nokia)
    - Update the applicability of RRC based BWP switching requirements as follows
    - Related changes is as shown in
      * Change#1 in R4-2111029 (Nokia)

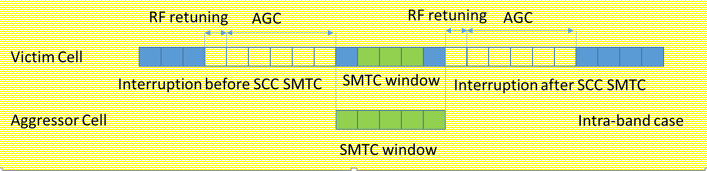
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| The requirements in this clause apply to the case that the BWP switch is performed on a single CC with one or more than one BWP configuration(s) configured.  For RRC-based BWP switch, after the UE receives RRC reconfiguration involving active BWP switching or parameter change of its active BWP except the parameters *firstActiveDownlinkBWP-Id* and *firstActiveUplinkBWP-Id* for an SCell, UE shall be able to receive PDSCH/PDCCH (for DL active BWP switch) or transmit PUSCH (for UL active BWP switch) on the new BWP on the serving cell on which BWP switch occurs on the first DL or UL slot right after a time duration of slots which begins from the beginning of DL slot n, where |

* + Option 2 (Nokia)
    - Clarify that RRC-based BWP switch on single CC is only applicable for SpCell in Rel-15 and Clarify that RRC-based BWP switch on single CC is appliable for SCell with any parameter change except the parameters firstActiveDownlinkBWP-Id and firstActiveUplinkBWP-Id both in Rel-16.
* Recommended WF
  + Companies’ views are aligned based on RAN2 reply LS. Option 1a, 1b and 1c are technically identical but just different wordings. The proponent company of option 2 is also fine with option 1.
  + It is suggested to agree the following bullets based on option 1:
    - From Rel-15 onwards, the requirements for single CC BWP switching shall apply for
      * Active BWP switching or parameter change of its active BWPs for SpCell
      * Parameter change of its active BWPs except parameter *firstActiveDownlinkBWP-Id* and *firstActiveUplinkBWP-Id* for SCells
  + Further discuss which option among option 1a, 1b and 1c is to be used to update the spec

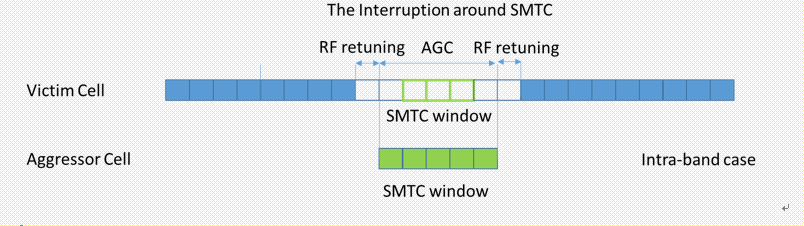
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| **Company** | **Comments** |
| MTK | Agreeable with the Recommended WF. Slightly prefer to 1c since it seems more concise. |
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#### Issue 1-3-2: Interruption for measurement on deactivated SCC

* Proposals
  + Option 1 (HW)
    - Based on current requirements, for serving cells in the same band the as deactivated SCC, two interruptions are allowed, one before SMTC window and one after SMTC window, and each with length X + TSMTC\_duration slots

 Figure 1

* + - It is proposed to update the requirements such that one interruption is allowed around SMTC window, with length 2\*X + TSMTC\_duration slots

 Figure 2

* + - Related changes is as shown in
      * Change#1 and Change#2 in R4-2110358 (HW) for 38133
      * Change#1 and Change#2 in R4-2110769 (HW) for 36133
* Recommended WF
  + Further discuss is option 1 is agreeable

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| **Company** | **Comments** |
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#### Issue 1-3-3: SMTC configuration determination in DC

* Proposals
  + Option 1 (HW)
    - When UE is configured with DC, it is possible that MN and SN both configure MO on the same frequency and the SMTC configuration could be different provided that the measurement window of one SMTC should include the other one or vice-versa
    - It is proposed that when SMTC configuration is not provided within the corresponding command (e.g. Handover, RRC release with redirection, SCell activation and PSCell addition/change), and MN and SN configure measObjectNR having same SSB frequency and subcarrier spacing with different SMTC configurations, the corresponding requirements are derived based on the SMTC with larger SMTC periodicity.
    - Related changes is as shown in
      * Change#1, Change#2, Change#3 and Change#4 in R4-2110927 (HW) for 38133
      * Change#2 and Change#3 in R4-2110928 (HW) for 36133
* Recommended WF
  + Further discuss is option 1 is agreeable

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| **Company** | **Comments** |
| MTK | Agreeable |
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#### Issue 1-3-4: Correction on NR-DC PSCell addition and release requirements

* Proposals
  + Option 1 (Nokia)
    - Correct delay unit to slot level for NR-DC PSCell addition and release delay
    - Related changes is as shown in
      * Change#1 in R4-2111032 (Nokia)
* Recommended WF
  + Further discuss is Change#1 in R4-2111032 is agreeable

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| **Company** | **Comments** |
| MTK | Agreeable |
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### Sub-topic 1-4: Others

#### Issue 1-4-1: Update definition of ’reference point’ in UL timing requirements

* Proposals
  + Option 1a (Ericsson, Nokia, Intel)
    - Update the definition of ’reference point’ as follows
    - Related changes is as shown in
      * Change#1 in R4-2111313 (Ericsson, Nokia, Intel)

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| The UE shall meet the Te requirement for an initial transmission provided that at least one SSB is available at the UE during the last 160 ms. The reference point for the UE initial transmit timing control requirement shall be the downlink timing of the reference cell minus . The downlink timing is defined as the time when the first detectable path (in time) of the corresponding downlink frame is received from the reference cell at the UE antenna. *N*TA for PRACH is defined as 0. |

* + Option 1b (HW)
    - Update the definition of ’reference point’ as follows
    - Related changes is as shown in
      * Change#1 in R4-2110927 (HW)

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| The UE shall meet the Te requirement for an initial transmission provided that at least one SSB is available at the UE during the last 160 ms. The reference point for the UE initial transmit timing control requirement shall be the downlink timing of the reference cell minus . The downlink timing is defined as the time when the first detectable path (in time) of the corresponding downlink frame from the reference cell arrives at the UE antenna. *N*TA for PRACH is defined as 0. |

* Recommended WF
  + The issue was triggered by discussion on reply LS to R1-2102245 in Rel-17 URLLC WI. Therefore, it is suggested to have the technical discussions in email thread #239, so no technical discussion is expected here.

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| **Company** | **Comments** |
| Moderator | No technical discussion is expected here. |
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#### Issue 1-4-2: Applicability of RSTD requirements for NE-DC operation

* Proposals
  + Option 1 (HW)
    - There is no intra- or inter-freqeuncy E-UTRA RSTD measurement requirements defined for NE-DC.
    - It is proposed to remove intra-frequency and inter-frequency RSTD requirements as applicable requirements for NE-DC
    - Related changes is as shown in
      * Change#1 in R4-2110928 (HW)
* Recommended WF
  + Further discuss if option 1 is agreeable.

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| **Company** | **Comments** |
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## Companies views’ collection for 1st round

### Open issues

### CRs/TPs comments collection

*All the proposed changes are captured as open issues in section 1.2, so in this section please provide additional comments, e.g. on the exact wording for a particular change, if any.*

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| --- | --- |
| **CR/TP number** | **Comments collection** |
| R4-2109294 (Apple, HW) | Moderator: Related to 1-1-1, 1-1-2 |
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| R4-2109319 (Apple) | Moderator: Related to 1-2-1, 1-3-1 |
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| R4-2109621 (vivo) | Moderator: Related to 1-3-1 |
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| R4-2109848 (MTK) | Moderator: Related to 1-1-3 |
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| R4-2109983 (Ericsson) | Moderator: Related to 1-1-4 |
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| R4-2111313 (Ericsson, Nokia, Intel) | Moderator: No discussion expected, this CR is handled in email #239 |
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| R4-2110358 (HW, 38) | Moderator: Related to 1-1-2, 1-3-2 |
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| R4-2110927 (HW, 38) | Moderator: Related to 1-2-1, 1-2-2, 1-2-3, 1-3-3  Moderator: No discussion on change #5 expected, this change is handled in email #239 |
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| R4-2110769 (HW, 36) | Moderator: Related to 1-3-2 |
|  |
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| R4-2110928 (HW, 36) | Moderator: Related to 1-3-3, 1-4-2 |
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| R4-2111029 (Nokia) |  |
| Moderator: Related to 1-3-1 |
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| R4-2111032 (Nokia) | Moderator: Related to 1-3-4 |
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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.*

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

*Recommendations on WF/LS assignment*

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| --- | --- | --- |
|  | **WF/LS t-doc Title** | **Assigned Company,**  **WF or LS lead** |
| #1 |  |  |

### CRs/TPs

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

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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”* |

## 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*

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| --- | --- |
| **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”* |

# 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 |  |
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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

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| **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 |  |
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