**3GPP TSG-RAN WG4 Meeting # 107 R4-23XXXXX**

**Incheon, KR, 22 – 26 May, 2023**

**Agenda item:** 8.23.4

**Source:** Moderator (Huawei, HiSilicon)

**Title:** Topic summary for [107][221] NR\_pos\_enh2\_part3

**Document for:** Information

# Introduction

This document provides summary for Tdocs submitted to the following AI

*8.23.3.3 LPHAP use case [NR\_pos\_enh2-Core]*

# Topic #1: RRM impacts of LPHAP

## Companies’ contributions summary

|  |  |  |
| --- | --- | --- |
| **T-doc number** | **Company** | **Proposals / Observations** |
| [**R4-2307413**](https://www.3gpp.org/ftp/TSG_RAN/WG4_Radio/TSGR4_107/Docs/R4-2307413.zip) | CATT | **Proposal 1: Not to define requirements for eDRX <= 10.24s.**  **Proposal 2: For the requirements when eDRX is larger than 10.24s, take the requirements for eDRX cycle > 10.24s in Rel-18 eRedCap as baseline.**  **Proposal 3: RAN4 to prioritize the measurement requirements with reduced samples.**  **Proposal 4: Tavailable in the requirements needs to be updated to exclude the DRX cycle when eDRX cycle is much larger than positioning interval.**  **Proposal 5: RAN4 not to define cell reselection requirement for the determination of validation area.**  **Proposal 6: Reuse values from Rel. 17 for NRx,TEG,I, Nsamples and NRxBeam,i in positioning measurement delay requirements for RRC\_IDLE state.**  **Proposal 7: Accuracy requirements in RRC\_INACTIVE state also apply to positioning measurements in RRC\_IDLE. .**  **Proposal 8: The reporting delay for PRS measurements performed in RRC\_IDLE doesn’t need to account for extra delay to transition to RRC\_CONNECTED state.** |
| [**R4-2307558**](https://www.3gpp.org/ftp/TSG_RAN/WG4_Radio/TSGR4_107/Docs/R4-2307558.zip) | CMCC | ***Proposal 1: for PRS measurement in inactive state, it is proposed to define requirements for eDRX <= 10.24s for both RedCap UE, and non-RedCap UE.***  ***Proposal 2: for PRS measurement in inactive state, for eDRX cycle <= 10.24s, the requirements for RRC\_INACTIVE state in R17 can be reused as baseline***  ***Proposal 3: it is proposed to consider reduced sample number for PRS measurement in RRC\_IDLE.*** |
| [**R4-2308045**](https://www.3gpp.org/ftp/TSG_RAN/WG4_Radio/TSGR4_107/Docs/R4-2308045.zip) | ZTE Corporation | **Proposal 1: The legacy measurement period can be used as baseline and define or update a scaling factor related to eDRX in the period requirement calculation.**  **Proposal 2: “*ONLY reduced number of samples is considered with a higher SINR side condition*” is too restrictive for RAN4 and it should be modified as the agreements we reached before based on the legacy method which is to reduce the latency.**  **Proposal 3: RAN4 should consider the scenarios based on the scope of WID and shall only discuss the requirements for eDRX beyond 10.24s in RRC\_Inactive state**.  **Proposal 4: The requirements for RRC\_INACTIVE state in R17 are reused as baseline and the eDRX factor shall be considered**. |
| [**R4-2308466**](https://www.3gpp.org/ftp/TSG_RAN/WG4_Radio/TSGR4_107/Docs/R4-2308466.zip) | OPPO | **Proposal 1: Define requirements for eDRX cycle <= 10.24s for RedCap UE, and FFS for non-RedCap UE.**  **Proposal 2: The requirements for RRC inactive state in Rel-17 can be reused as the baseline for LPHAP in RRC inactive state, and update the requirements for eDRX cycle > 10.24s based on the further conclusions in Rel-18 eRedCap WI.**  **Proposal 3: Define measurement with 4 PRS samples.**  **Proposal 4: RAN4 to study the conditions of alignment between eDRX and PRS/SRS configuration, e.g. the distance between PTW and PRS/SRS resource should be less than Tms.** |
| [**R4-2308668**](https://www.3gpp.org/ftp/TSG_RAN/WG4_Radio/TSGR4_107/Docs/R4-2308668.zip) | Huawei, HiSilicon | **Proposal 1: RAN4 to define requirements for PRS measurement in INACTIVE with eDRX <= 10.24s for both RedCap and non-RedCap UEs.**  **Proposal 2: For PRS measurement in INACTIVE with eDRX <= 10.24s, the requirements for INACTIVE in Rel-17 are reused as baseline.**  **Proposal 3: For PRS measurement in INACTIVE with eDRX > 10.24s, the requirements for INACTIVE in Rel-17 are reused as baseline with PRS measurement not limited to PTW.**  **Proposal 4: Both normal and reduced sample numbers are considered for PRS measurement in INACTIVE with eDRX.**  **Proposal 5: RAN4 to discuss how to define Tavailable in PRS measurement requirements with eDRX >10.24s.**  **Proposal 6: RAN4 to define RRM measurement requirements for positioning specific needs with RRM measurement not limited to PTW, details are FFS.**  **Proposal 7: RAN4 to update the applicability condition of UE Rx-Tx requirements “SRS is configured on the PCell” to e.g. “SRS configuration is valid for the PCell”.**  **Proposal 8: RAN4 to wait for further RAN1 progress on SRS UL timing before discussing applicability condition of UE Rx-Tx requirements related to UL timing change.**  **Proposal 9: The reporting delay for PRS measurements performed in IDLE needs to account for extra delay to transition to CONNECTED state.**  **Proposal 10: reuse values from Rel-17 for NRx,TEG,i and NRxBeam,i in positioning measurement delay requirements for IDLE.**  **Proposal 11: Except for RedCap with FH, both normal and reduced sample numbers are considered in requirements for PRS measurement in IDLE.** |
| [**R4-2308790**](https://www.3gpp.org/ftp/TSG_RAN/WG4_Radio/TSGR4_107/Docs/R4-2308790.zip) | Ericsson | **Proposal 1**: RAN4 to define positioning core requirements for eDRX cycle <= 10.24s for both normal and RedCap UEs.  **Proposal 2**: Requirements for eDRX cycle <= 10.24s is derived by reusing Rel. 17 RRC\_INACTIVE state requirement as a baseline, including both Nsample = 4 and reduced number of samples.  **Proposal 3**: RAN4 to define PRS measurement requirement for both Nsample = 4 and reduced number of samples, when UE is configured with eDRX cycle > 10.24s.  **Proposal 4**: RAN4 to wait for progress in RAN2 on alignment between eDRX cycle and PRS configuration before evaluating its impact on PRS measurement requirements.  **Proposal 5**: RAN4 to update Tavailable in the requirements after PRS measurement occasion during eDRX cycle longer than 10.24s is settled.  **Proposal 6**: RAN4 to postpone discussion on the need for any scaling factor related to eDRX in the period requirement calculation until issues related to eDRX > 10.24s are settled.  **Proposal 7**: Extra delay to transition from RRC\_IDLE to RRC\_CONNECTED state for measurement reporting is excluded from the PRS measurement period requirement.  **Proposal 8**: When UE changes its state from RRC\_IDLE to RRC\_CONNECTED while performing PRS measurement then the following rules apply:   * If the RRC state transition occurs from RRC\_IDLE to RRC\_CONNECTED state during the RSTD measurement period, then the UE shall continue the RSTD measurement in the RRC\_CONNECTED state. The RSTD measurement period can be longer. * If the RRC state transition occurs from RRC\_IDLE to RRC\_CONNECTED state during the UE Rx-Tx time difference measurement period, then the UE shall restart the UE Rx-Tx time difference measurement after it obtains SRS configuration and Timing Advance command from the serving cell. * If cell re-selection occurs while RSTD measurements are being performed, then the UE shall continue and complete the on-going RSTD measurements after the cell selection is completed. The RSTD measurement period can be longer. * If cell reselection occurs during the UE Rx-Tx time difference measurement period, then the UE shall restart the UE Rx-Tx time difference measurement after it obtains SRS configuration and Timing Advance command from the new serving cell.   **Proposal 9**: Reuse values from Rel. 17 for NRx,TEG,i and NRxBeam,i in positioning measurement delay requirements for RRC\_IDLE state.  **Proposal 10**: Reduced number of samples is considered in requirements for PRS measurement in RRC\_IDLE state. |
| [**R4-2309131**](https://www.3gpp.org/ftp/TSG_RAN/WG4_Radio/TSGR4_107/Docs/R4-2309131.zip) | Qualcomm Incorporated | Withdrawn |
| [**R4-2309602**](https://www.3gpp.org/ftp/TSG_RAN/WG4_Radio/TSGR4_107/Docs/R4-2309602.zip) | Nokia, Nokia Shanghai Bell | 1. We support Option 1 to define requirements for eDRX ≤ 10.24 sec. 2. The requirements for RRC\_INACTIVE state in Rel-17 can be reused as a baseline for PRS measurement requirements for eDRX ≤ 10.24 sec. 3. We prefer Option 1 to reuse the requirements for RRC\_INACTIVE state in Rel-17 as a baseline when eDRX > 10.24 sec. 4. We support the first FFS on reduced sample number if ‘only’ is removed. 5. We agree the second FFS aspect on the alignment between eDRX and PRS configuration into account based on RAN2 progress. 6. RAN4 should reuse the existing framework of requirements rather than introducing a new scaling factor. 7. RAN4 should agree to update Tavailable in the requirements when eDRX cycle is much larger than positioning interval. 8. RAN4 wait for the progress in RAN2 and RAN1. 9. The reporting delay for PRS measurements in RRC\_IDLE should consider extra delay for transition to RRC\_CONNECTED state. 10. RAN4 should reuse values from Rel-17 for NRx,TEG,i and NRxBeam,i in INACTIVE as a starting point and study whether the values have to be adjusted if the number of Rx beams for PRS measurement is reduced in RRC\_IDLE. 11. Reduced sample number of 2 can be considered in the requirements for PRS measurement in RRC\_IDLE. 12. The accuracy requirements on the reduced sample number should be discussed as a part of performance requirement. 13. The alignment between eDRX and PRS measurement needs to be accounted, and the impact depends on RAN2. |
| [**R4-2309736**](https://www.3gpp.org/ftp/TSG_RAN/WG4_Radio/TSGR4_107/Docs/R4-2309736.zip) | Qualcomm Incorporated | **Proposal 1: Define PRS measurement requirements in RRC\_INACTIVE for eDRX ≤ 10.24 s.**  **Proposal 2:** **To define** **PRS measurement requirements in RRC\_INACTIVE for a UE operating in eDRX with eDRX ≤ 10.24 s,**   * **Reuse the Rel-17 PRS measurement requirements in RRC\_INACTIVE as a baseline.** * **The requirement applies when the maximum of the eDRX cycles configured by the CN and the RAN (if configured) is not greater than 10.24 s.** * **in the measurement period formula is modified to follow the RAN2 definition of UE DRX cycle in Rel-17 TS 38.304.**   **Proposal 3:** **To define** **PRS measurement requirements in RRC\_INACTIVE for UE operating in eDRX when CN eDRX > 10.24 s and RAN eDRX ≤ 10.24 s (if configured),**   * **Reuse the Rel-17 PRS measurement requirements in RRC\_INACTIVE as a baseline.** * **in the measurement period formula is set to the maximum of the DRX cycles inside and outside of the CN PTW, according to the RAN2 definition of UE DRX cycle in Rel-17 TS 38.304.**   **Proposal 4:** **To define** **PRS measurement requirements in RRC\_INACTIVE for UE operating in eDRX when both CN eDRX > 10.24 s and RAN eDRX > 10.24 s,**   * **Reuse the Rel-17 PRS measurement requirements in RRC\_INACTIVE as a baseline.** * **The measurement period starts on the first eDRX cycle inside the next PTW that contains PRS resources in the assistance data. The measurement period can extend beyond the end of the PTW or the union of PTWs (if two PTWs overlap in a PH).** * **in the measurement period formula is set to the maximum of the DRX cycles within the CN PTW and the RAN PTW, according to RAN2 definitions of UE DRX cycle in Rel-18 eRedCap.**   **Proposal 5: Wait for further progress in RAN1 and RAN2 to determine the RRM impact of SRS configuration enhancements in RRC\_INACTIVE.**  **Proposal 6:** **To define** **PRS measurement requirements in RRC\_IDLE for a UE operating in eDRX with eDRX ≤ 10.24 s,**   * **Reuse the Rel-17 PRS measurement requirements in RRC\_INACTIVE as a baseline.** * **in the measurement period formula is modified to follow the RAN2 definition of UE DRX cycle in Rel-17 TS 38.304.**   **Proposal 7:** **To define** **PRS measurement requirements in RRC\_IDLE for UE operating in eDRX with eDRX > 10.24 s,**   * **Reuse the Rel-17 PRS measurement requirements in RRC\_INACTIVE as a baseline.** * **The measurement period starts on the first eDRX cycle inside the next PTW that contains PRS resources in the assistance data. The measurement period can extend beyond the end of the PTW.** * **in the measurement period formula is modified to follow the RAN2 definition of UE DRX cycle in Rel-17 TS 38.304.**   **Proposal 8: The reporting delay for PRS measurements performed in RRC\_IDLE needs to account for extra delay to transition to RRC\_CONNECTED state.** |

## Open issues summary

### Sub-topic 1-1: eDRX in INACTIVE

#### Issue 1-1-1: Whether to define PRS requirements with eDRX <= 10.24s

* Proposals
  + Option 1 (CATT, ZTE):
    - NOT to define PRS measurement requirements with eDRX <= 10.24s.
  + Option 2 (CMCC, HW, E///, QC, Nokia):
    - Define PRS measurement requirements with eDRX <= 10.24s.
  + Option 3 (OPPO):
    - Define requirements for eDRX cycle <= 10.24s for RedCap UE, and FFS for non-RedCap UE
* Recommended WF
  + Discuss the options

#### Issue 1-1-2: PRS requirements with eDRX <= 10.24s, if defined

* Proposals
  + Option 1 (CMCC, OPPO, HW, E///, QC, Nokia):
    - The requirements for RRC\_INACTIVE state in R17 can be reused as baseline
  + Option 1a (QC):
    - When CN eDRX <= 10.24 s, TDRX in the measurement period formula is modified to follow the RAN2 definition of UE DRX cycle in Rel-17 TS 38.304.
    - When CN eDRX > 10.24 s, TDRX in the measurement period formula is set to the maximum of the DRX cycles inside and outside of the CN PTW, according to the RAN2 definition of UE DRX cycle in Rel-17 TS 38.304.
* Recommended WF
  + Moderator would like to clarify that the “eDRX” in the context of sub-topic 1 refers to RAN eDRX or eDRX\_INACTIVE
  + Agree on option 1, and further discuss option 1a

#### Issue 1-1-3: Baseline for PRS requirements with eDRX > 10.24s

* Proposals
  + Option 1 (ZTE, OPPO, HW, QC, Nokia):
    - the requirements for RRC\_INACTIVE state in R17 can be reused as baseline
  + Option 2 (CATT):
    - the requirements for eDRX cycle > 10.24 sec in Rel-18 eRedCap WI is used as a baseline
* Recommended WF
  + Discuss the options. Check if option 1 could be agreed based on majority view.

#### Issue 1-1-4: Number of samples for PRS requirements with eDRX > 10.24s

* Proposals
  + Option 1 (CATT, ZTE, OPPO, HW, E///, Nokia):
    - Both normal and reduced sample numbers are applicable for PRS measurement delay requirements in RRC\_INACTIVE state
  + Option 1a (ZTE):
    - Re-use the conditions for reduced sample number from Rel-17 requirements for RRC\_INACTIVE
  + Option 2 (CATT):
    - RAN4 to prioritize the measurement requirements with reduced samples
* Recommended WF
  + Agree on option 1, and further discuss option 1a.

#### Issue 1-1-5: Tavailable for PRS requirements with eDRX > 10.24s

* Proposals
  + Option 1 (CATT):
    - Tavailable in the requirements needs to be updated to exclude the DRX cycle when eDRX cycle is much larger than positioning interval
  + Option 2 (HW):
    - RAN4 to discuss how to define Tavailable in PRS measurement requirements with eDRX >10.24s assuming PRS measurement is not limited to PTW
  + Option 3 (QC):
    - TDRX in the measurement period formula is set to the maximum of the DRX cycles within the CN PTW and the RAN PTW, according to RAN2 definitions of UE DRX cycle in Rel-18 eRedCap.
    - The measurement period starts on the first eDRX cycle inside the next PTW that contains PRS resources in the assistance data. The measurement period can extend beyond the end of the PTW or the union of PTWs (if two PTWs overlap in a PH).
  + Option 4 (E///):
    - RAN4 to update Tavailable in the requirements after PRS measurement occasion during eDRX cycle longer than 10.24s is settled.
* Recommended WF
  + Discuss the options, maybe first try to reach common understanding on whether PRS measurement is limited within PTW or not.

#### Issue 1-1-6: Scaling of legacy requirements related to eDRX

* Proposals
  + Option 1 (ZTE):
    - The legacy measurement period can be used as baseline and define or update a scaling factor related to eDRX in the period requirement calculation.
  + Option 2 (Nokia):
    - RAN4 should reuse the existing framework of requirements rather than introducing a new scaling factor.
  + Option 3 (E///):
    - RAN4 to postpone discussion on the need for any scaling factor related to eDRX in the period requirement calculation until issues related to eDRX > 10.24s are settled.
* Recommended WF
  + Discuss the options

#### Issue 1-1-7: eDRX and PRS/SRS alignment

* Proposals
  + Option 1 (OPPO):
    - RAN4 to study the conditions of alignment between eDRX and PRS/SRS configuration, e.g. the distance between PTW and PRS/SRS resource should be less than Tms.
  + Option 2 (E///):
    - RAN4 to wait for progress in RAN2 on alignment between eDRX cycle and PRS configuration before evaluating its impact on PRS measurement requirements.
  + Option 3 (Nokia):
    - Further study whether and how to take the alignment between eDRX and PRS configuration into account based on RAN2 progress
* Recommended WF
  + Discuss the options

#### Issue 1-1-8: RRM measurement requirements

* Proposals
  + Option 1 (CATT):
    - RAN4 not to define cell reselection requirement for the determination of validation area.
  + Option 2 (HW):
    - RAN4 to define RRM measurement requirements for positioning specific needs with RRM measurement not limited to PTW, details are FFS.
* Recommended WF
  + Discuss the options

### Sub-topic 1-2: SRS positioning validity area

#### Issue 1-2-1: Impact of SRS positioning validity area

* Proposals
  + Option 1 (HW):
    - RAN4 to update the applicability condition of UE Rx-Tx requirements “SRS is configured on the PCell” to e.g. “SRS configuration is valid for the PCell”.
    - RAN4 to wait for further RAN1 progress on SRS UL timing before discussing applicability condition of UE Rx-Tx requirements related to UL timing change.
  + Option 2 (QC, Nokia):
    - Wait for further progress in RAN1 and RAN2 to determine the RRM impact of SRS configuration enhancements in RRC\_INACTIVE.
* Recommended WF
  + Discuss the options

### Sub-topic 1-3: PRS measurement in IDLE

#### Issue 1-3-1: NRx,TEG,i and NRxBeam,i in measurement period requirements

* Proposals
  + Option 1 (CATT, HW, E///, Nokia):
    - Reuse values from Rel. 17 for NRx,TEG,i, and NRxBeam,i in positioning measurement delay requirements for RRC\_IDLE state.
  + Option 2 (Nokia):
    - Study whether the values have to be adjusted if the number of Rx beams for PRS measurement is reduced in RRC\_IDLE
* Recommended WF
  + Agree on option 1, and further discuss option 2

#### Issue 1-3-2: Number of samples in measurement period requirements

* Proposals
  + Option 1 (CATT, CMCC, HW, E///, Nokia):
    - Both normal and reduced sample numbers are applicable for PRS measurement delay requirements in RRC\_IDLE state
* Recommended WF
  + Agree on option 1

#### Issue 1-3-3: Tavailable for PRS requirements

* Proposals
  + Option 1 (QC):
    - When eDRX <= 10.24 s, TDRX in the measurement period formula is modified to follow the RAN2 definition of UE DRX cycle in Rel-17 TS 38.304.
    - When eDRX > 10.24 s,
      * TDRX in the measurement period formula is modified to follow the RAN2 definition of UE DRX cycle in Rel-17 TS 38.304
      * the measurement period starts on the first eDRX cycle inside the next PTW that contains PRS resources in the assistance data. The measurement period can extend beyond the end of the PTW.
* Recommended WF
  + Discuss option 1

#### Issue 1-3-3: Reporting delay requirements

* Proposals
  + Option 1 (CATT, E///):
    - The reporting delay for PRS measurements performed in RRC\_IDLE doesn’t need to account for extra delay to transition to RRC\_CONNECTED state
  + Option 2 (HW, QC, Nokia):
    - The reporting delay for PRS measurements performed in IDLE needs to account for extra delay to transition to CONNECTED state.
* Recommended WF
  + Check whether it is agreeable to re-use the same wording related to the extra delay for transition to RRC\_CONNECTED in Rel-17 reporting delay requirements in RRC\_INACTIVE for RRC\_IDLE.

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| For RSTD measurements performed by the UE in RRC\_INACTIVE state, The measurement reporting delay excludes all of the following:  - additional delay caused other LPP signalling on the DCCH,  - delay uncertainty introduced when inserting the measurement report in the TTI of the uplink DCCH, equal to 2 x TTIDCCH where TTIDCCH is the duration of subframe or slot or subslot when the measurement report is transmitted on the PUSCH with subframe or slot or subslot duration,  - any delay caused by unavailability of UL resources to transmit the measurement report,  - any transmission delay needed by SDT,  - the time needed to transition to RRC\_CONNECTED state to report the measurements. |

#### Issue 1-3-3: Transition requirements

* Proposals
  + Option 1 (E///):
    - When UE changes its state from RRC\_IDLE to RRC\_CONNECTED, or cell reselection occurs while performing PRS measurement then the following rules apply:
      * If the RRC state transition occurs from RRC\_IDLE to RRC\_CONNECTED state during the RSTD measurement period, then the UE shall continue the RSTD measurement in the RRC\_CONNECTED state. The RSTD measurement period can be longer.
      * If the RRC state transition occurs from RRC\_IDLE to RRC\_CONNECTED state during the UE Rx-Tx time difference measurement period, then the UE shall restart the UE Rx-Tx time difference measurement after it obtains SRS configuration and Timing Advance command from the serving cell.
      * If cell re-selection occurs while RSTD measurements are being performed, then the UE shall continue and complete the on-going RSTD measurements after the cell selection is completed. The RSTD measurement period can be longer.
      * If cell reselection occurs during the UE Rx-Tx time difference measurement period, then the UE shall restart the UE Rx-Tx time difference measurement after it obtains SRS configuration and Timing Advance command from the new serving cell.
* Recommended WF
  + Discuss option 1

#### Issue 1-3-4: Accuracy requirements

* Proposals
  + Option 1 (CATT):
    - Accuracy requirements in RRC\_INACTIVE state also apply to positioning measurements in RRC\_IDLE.
  + Option 2 (Nokia):
    - The accuracy requirements on the reduced sample number should be discussed as a part of performance requirement.
* Recommended WF
  + Agree on option 2

## Companies views’ collection for 1st round

### Open issues

### CRs/TPs comments collection

## Summary for 1st round

### Open issues

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|  | **Status summary** |
| **Sub-topic #1** | Issue 1-1-1: PRS measurement requirements  *Tentative agreements:*  *Candidate options:*  *Recommendations for 2nd round:*  Issue 1-1-2: Baseline for new PRS measurement requirements  *Tentative agreements:*  *Candidate options:*  *Recommendations for 2nd round:*  Issue 1-1-3: Adaptations for new PRS measurement requirements  *Tentative agreements:*  *Candidate options:*  *Recommendations for 2nd round:*  Issue 1-1-4: RRM measurement requirements  *Tentative agreements:*  *Candidate options:*  *Recommendations for 2nd round:* |

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|  | **Status summary** |
| **Sub-topic #2** | Issue 1-2-1: General impacts of SRS positioning validity area  *Tentative agreements:*  *Candidate options:*  *Recommendations for 2nd round:*  Issue 1-2-2: Detailed impacts of SRS positioning validity area  *Tentative agreements:*  *Candidate options:*  *Recommendations for 2nd round:* |

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|  | **Status summary** |
| **Sub-topic #3** | Issue 1-3-1: New PRS measurement requirements  *Tentative agreements:*  *Candidate options:*  *Recommendations for 2nd round:*  Issue 1-3-2: Adaptations for new PRS measurement requirements  *Tentative agreements:*  *Candidate options:*  *Recommendations for 2nd round:* |

### CRs/TPs

## Discussion on 2nd round (if applicable)

# Recommendations for Tdocs

## 1st round

**New tdocs**

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

**Existing tdocs**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Tdoc number** | **Revised to** | **Title** | **Source** | **Recommendation** | **Comments** |
| R4-22xxxxx |  | CR on … | XXX | Agreeable, Revised, Merged, Postponed, Not Pursued |  |
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## 2nd round

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| --- | --- | --- | --- | --- | --- |
| **Tdoc number** | **Revised to** | **Title** | **Source** | **Recommendation** | **Comments** |
| R4-22xxxxx |  | CR on … | XXX | Agreeable, Revised, Merged, Postponed, Not Pursued |  |
| R4-22xxxxx |  | WF on … | YYY | Agreeable, Revised, Noted |  |
| R4-22xxxxx |  | LS on … | ZZZ | Agreeable, Revised, Noted |  |
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