**3GPP TSG-RAN WG4 Meeting # 112 R4-240xxxx**

**Maastricht, The Netherlands, 19 – 23 August, 2024**

**Agenda item:** 6.1.3

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

**Title:** Topic summary for [112][212] NR\_pos\_enh2\_part3

**Document for:** Information

# Introduction

This document provides summary for Tdocs submitted to the following AI. In addition, R4-2412650 (draftCR on TCs for RRC\_IDLE, Huawei, HiSilicon) submitted to AI 6.1.2.1 is handled in this summary.

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

*6.1.2.3 LPHAP use case [NR\_pos\_enh2-Perf]*

Recommended issues for online discussion:

Issue 1-2-1: Configuration of PRS measurement reporting periodicity in TCs

# Topic #1: Open issues

## Companies’ contributions summary

|  |  |  |
| --- | --- | --- |
| **T-doc number** | **Company** | **Proposals / Observations** |
| [**R4-2412653**](https://www.3gpp.org/ftp/TSG_RAN/WG4_Radio/TSGR4_112/Docs/R4-2412653.zip) | Huawei, HiSilicon | **Proposal: Do not configure PRS measurement reporting periodicity in the test cases for LPHAP.** |
| [**R4-2412685**](https://www.3gpp.org/ftp/TSG_RAN/WG4_Radio/TSGR4_112/Docs/R4-2412685.zip) | Ericsson | **Observation 1**: Positioning interval requirement for LPHAP use case 6 is 15s to 30s.   1. Configure PRS measurement reporting periodicity in LPHAP test cases. The *reportingInterval* is smaller than the eDRX cycle in the test cases. 2. LPHAP test cases for core requirement is considered complete after the UE reports the first set of positioning measurements based on the configured *reportingInterval*. |
| [**R4-2413293**](https://www.3gpp.org/ftp/TSG_RAN/WG4_Radio/TSGR4_112/Docs/R4-2413293.zip) | Nokia | Proposal 1: RAN4 does not have to specify PRS measurement reporting periodicity in the test cases for LPHAP. |

## Open issues summary

### Sub-topic 1-1: Core requirements maintenance

No discussion paper submitted, thus no open issue to be discussed.

Maintenance of core requirements can be discussed directly based on the draftCRs as listed in Topic #2.

### Sub-topic 1-2: Performance requirements

#### Issue 1-2-1: Configuration of PRS measurement reporting periodicity in TCs

* Proposals
  + Option 1 (HW):
    - Do not configure PRS measurement reporting periodicity in the test cases for LPHAP.
  + Option 2 (E///):
    - Configure PRS measurement reporting periodicity in LPHAP test cases. The reportingInterval is smaller than the eDRX cycle in the test cases.
    - LPHAP test cases for core requirement is considered complete after the UE reports the first set of positioning measurements based on the configured reportingInterval.
  + Option 3 (Nokia):
    - RAN4 does not have to specify PRS measurement reporting periodicity in the test cases for LPHAP.
* Recommended WF
  + Discuss the options.
  + From moderator perspective, option 2 can be considered as a compromised WF.

# Topic #2: draftCRs

The following draftCRs are submitted for core part maintenance.

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| [R4-2411332](https://www.3gpp.org/ftp/TSG_RAN/WG4_Radio/TSGR4_112/Docs/R4-2411332.zip) | Draft CR on LPHAP core requirements | CATT |
| [R4-2412646](https://www.3gpp.org/ftp/TSG_RAN/WG4_Radio/TSGR4_112/Docs/R4-2412646.zip) | draftCR on RRM requirements for LPHAP | Huawei, HiSilicon |
| [R4-2412680](https://www.3gpp.org/ftp/TSG_RAN/WG4_Radio/TSGR4_112/Docs/R4-2412680.zip) | draftCR 38.133 Core requirement for LPHAP | Ericsson |

The following draftCRs are submitted for perf part maintenance.

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| [R4-2411789](https://www.3gpp.org/ftp/TSG_RAN/WG4_Radio/TSGR4_112/Docs/R4-2411789.zip) | Draft CR – Test cases for RSTD measurement delay with eDRX > 10.24s in RRC\_INACTIVE, Sets 9-9, 9-10 | Qualcomm Incorporated |
| [R4-2411790](https://www.3gpp.org/ftp/TSG_RAN/WG4_Radio/TSGR4_112/Docs/R4-2411790.zip) | Draft CR – Test cases for PRS-RSRPP measurement delay with eDRX > 10.24s in RRC\_INACTIVE, Sets 9-15, 9-16 | Qualcomm Incorporated |
| [R4-2411791](https://www.3gpp.org/ftp/TSG_RAN/WG4_Radio/TSGR4_112/Docs/R4-2411791.zip) | Draft CR – Test cases for RSTD measurement delay and accuracy with eDRX > 10.24s in RRC\_IDLE, Sets 10-4, 10-10, 11-4, 11-10 | Qualcomm Incorporated |
| [R4-2412254](https://www.3gpp.org/ftp/TSG_RAN/WG4_Radio/TSGR4_112/Docs/R4-2412254.zip) | (10-1 10-2) Draft CR on RSTD measurement delay TCs for RRC\_IDLE mode | vivo |
| [R4-2412255](https://www.3gpp.org/ftp/TSG_RAN/WG4_Radio/TSGR4_112/Docs/R4-2412255.zip) | (11-1 11-2) Draft CR on RSTD measurement accuracy TCs for RRC\_IDLE mode | vivo |
| [R4-2412654](https://www.3gpp.org/ftp/TSG_RAN/WG4_Radio/TSGR4_112/Docs/R4-2412654.zip) | draftCR on performance requirements for LPHAP | Huawei, HiSilicon |
| [R4-2412686](https://www.3gpp.org/ftp/TSG_RAN/WG4_Radio/TSGR4_112/Docs/R4-2412686.zip) | draftCR 38.133 Phase II LPHAP test cases | Ericsson |
| [R4-2412650](https://www.3gpp.org/ftp/TSG_RAN/WG4_Radio/TSGR4_112/Docs/R4-2412650.zip) | draftCR on TCs for RRC\_IDLE | Huawei, HiSilicon |