3GPP TSG-RAN WG2 #117-e R2-22xxxxx

Online Meeting, Feb 21st – March 3rd, 2022

Agenda Item: 6.3.3

Source: Ericsson

Title: Report for LPP Corrections for Positioning

Document for: Discussion, Decision

# Introduction

The below papers have been submitted in the LPP AI 6.3.3 which requires input from companies to identify the support for the corrections.

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| [**R2-2202224**](https://www.3gpp.org/ftp/TSG_RAN/WG2_RL2/TSGR2_117-e/Docs/R2-2202224.zip) | Addition of missing need code for the BDS TGD2 parameter | Lenovo, Motorola Mobility |
| [**R2-2203275**](https://www.3gpp.org/ftp/TSG_RAN/WG2_RL2/TSGR2_117-e/Docs/R2-2203275.zip) | Correction of reference TRP for DL-AoD and Multi-RTT measurement report | Qualcomm Incorporated |
| [**R2-2203277**](https://www.3gpp.org/ftp/TSG_RAN/WG2_RL2/TSGR2_117-e/Docs/R2-2203277.zip) | Correction to NR-DL-PRS-ResourcesCapability field description | Qualcomm Incorporated |
| [**R2-2203531**](https://www.3gpp.org/ftp/TSG_RAN/WG2_RL2/TSGR2_117-e/Docs/R2-2203531.zip) | Introducing new high accuracy GAD shape with scalable uncertaintyRevision of [**R2-2203367**](https://www.3gpp.org/ftp/TSG_RAN/WG2_RL2/TSGR2_117-e/Docs/R2-2203367.zip) | Ericsson, T-Mobile USA, Qualcomm Incorporated |
| [**R2-2203368**](https://www.3gpp.org/ftp/TSG_RAN/WG2_RL2/TSGR2_117-e/Docs/R2-2203368.zip) | Clarification on LPP segmentation | Ericsson |

* [AT117-e][626][POS] Agenda item 6.3.3 (Ericsson)

      Scope: Treat documents R2-2202224, R2-2203275, R2-2203277, R2-2203531, and R2-2203368 and conclude on the CRs.

      Intended outcome: Agreed CRs (without CB)

      Deadline:  Wednesday 2022-03-02 1000 UTC

#  Contact Information

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| --- | --- |
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# Discussion

## [R2-2202224](https://www.3gpp.org/ftp/TSG_RAN/WG2_RL2/TSGR2_117-e/Docs/R2-2202224.zip) Missing Need Code

The CR adds the below Need code which was missing.

[[ bdsTgd2-r16 INTEGER (-512..511) OPTIONAL -- Need ON

]]

Question 1: Do Companies Agree with the CR?

|  |  |  |
| --- | --- | --- |
| Company | Change is fine Yes/No | Comments |
| Huawei, HiSilicon | Yes |  |
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## [R2-2203275](https://www.3gpp.org/ftp/TSG_RAN/WG2_RL2/TSGR2_117-e/Docs/R2-2203275.zip) Correction of Reference TRP

The CR removes mentioning of the reference TRP as the first TRP in the measurement report for DL-AOD and multi-RTT citing the reference TRP does not exist for these positioning methods.

A part of CR is shown below.

The IE *NR-DL-AoD-SignalMeasurementInformation* is used by the target device to provide NR DL-AoD measurements to the location server.

Question 2: Do Companies Agree with the CR?

|  |  |  |
| --- | --- | --- |
| Company | Change is fine Yes/No | Comments |
| Huawei, HiSilicon | Yes | Reference TRP is only for RSTD measurement |
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## [R2-2203277](https://www.3gpp.org/ftp/TSG_RAN/WG2_RL2/TSGR2_117-e/Docs/R2-2203277.zip) Correction of NR-DL-PRS-ResourcesCapability

The CR provides correction to the field description of NR-DL-PRS-ResourcesCapability.

A part of CR is shown below.

***maxNrOfDL-PRS-ResourcesPerPositioningFrequencylayer***

Indicates the maximum number of DL-PRS resources per positioning frequency layer. Value 6 is only applicable to FR1 bands.

Question 3: Do Companies Agree with the CR?

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| Company | Change is fine Yes/No | Comments |
| Huawei, HiSilicon | Yes |  |
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## [R2-2203531](https://www.3gpp.org/ftp/TSG_RAN/WG2_RL2/TSGR2_117-e/Docs/R2-2203531.zip) Correction of GAP Shape

The CR provides reference and LPP extension of to two new GAP shapes which have been added by SA2 for improving the location estimate using high accurate scalable GAD shapes for regulatory requirement. It uses a BOOLEAN value to indicate whether HA was represented using default or extended uncertainty range.

Question 4: Do Companies Agree with the CR?

|  |  |  |
| --- | --- | --- |
| Company | Change is fine Yes/No | Comments |
| Huawei, HiSilicon | No | This should be first discussed and agreed in SA2 |
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## [R2-2203275](https://www.3gpp.org/ftp/TSG_RAN/WG2_RL2/TSGR2_117-e/Docs/R2-2203275.zip) LPP Segmentation

The CR provides/clarifies the reason and reference as why LPP segmentation was introduced.

Question 2: Do Companies Agree with the CR?

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| --- | --- | --- |
| Company | Change is fine Yes/No | Comments |
| Huawei, HiSIlicon | No | The previous CR is not wrong that the size of the LPP PDU should not exceed the limit in the lower layer.  |
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# Conclusion

Based on the discussion in section 2 we propose the following:

No table of contents entries found.

# References

[1] AI 6.3.3