**3GPP TSG-RAN WG2 Meeting #115-e *R2-210xxxx***

**Electronic, 9th – 27th August, 2021**

Agenda Item: 6.3.3

Source: CATT

Title: [AT115-e][606][POS] LPP need code guidelines for uplink (CATT)

**Document for: Discussion and Agreement**

# Introduction

This document is to handle the following email discussion:

* [AT115-e][606][POS] LPP need code guidelines for uplink (CATT)

 Scope: Update the guidelines for need codes in 37.355 in accordance with the principle that need codes are sometimes used in the uplink, but in this case the requirements are not applicable (i.e. we do not specify the network behaviour).

 Intended outcome: Agreed CR in R2-2108936

 Deadline: Tuesday 2021-08-24 0600 UTC

In this discussion, we will discuss how to update the guidelines for need codes in 37.355 with the consideration on the chairman minute during the online email discussion

[R2-2108808](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202108%20-%20RAN2_115-e%2C%20Online%5CExtracts%5CR2-2108808%20Summary%20of%206_3_3%20REL-16%20LPP%20Corrections%20v2_clean.docx) Summary of agenda item 6.3.3 - REL-16 LPP Corrections Nokia, Nokia Shanghai Bell discussion Rel-16 NR\_pos-Core Late

Proposal 3: RAN2 is kindly requested to discuss and decide whether to relax the current guideline that the conditional and need tags are used in the downlink direction only or otherwise how to address the incorrect use of conditional tags and need codes in UL messages/IEs that are still present in the LPP specification.

* Modify the guideline to indicate that when need codes are used in the uplink, the associated requirements do not apply.
	1. Contact Information

|  |  |  |
| --- | --- | --- |
| **Company** | **Delegate name** | **Delegate email** |
| **Apple** | **Sasha Sirotkin** | **ssirotkin@apple.com** |
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# Discussion

Background

There is an issue that UL messages or IEs having conditionally present fields specified by means of comment text tags attached to the OPTIONAL statement in the abstract syntax while according to the guidelines described in Section 6.1 such tags are to be used in the downlink (server to target) direction only.

The issue has been in LPP since Rel-9 but has not caused problems, and there still many uplink IEs that still have this issue. Thus in the online meeting, majority companies prefer just modify the guideline to indicate that when need codes are used in the uplink, the associated requirements do not apply.

Discussions on updating LPP need code guidelines for uplink

Based on the discussion and chairman minutes made during online meeting, we propose a draft CR [1] on updating the LPP need code guidelines for uplink under the folder of [AT115-e][606][POS] LPP need code guidelines for uplink (CATT).

**Q1: Do companies agree with the draft CR [1] on updating the LPP need code guidelines for uplink?**

|  |  |
| --- | --- |
| Company | Comments |
| Apple | Yes. Additionally, I wonder – do we need to mention downlink in the table, i.e. in “For downlink messages, the target is not required…”? |
| ZTE | Yes, agree to remove the restriction of ‘DL only’. |
| Lenovo | Yes we can it simple. |
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Considering that TS37.355 starts from Rel-15 and less impact on earlier release especially for LTE, we prefer to fix this issue since Rel-15. Magic sentence doesn't apply to network according to the 3GPP TSG RAN WG2 Handbook. “It is an indication for the UE manufacturer that the change could/should be included already into an earlier release without mandating the change.” [2] So a CR for Rel-15 is required.

**Q2: Do you agree that this CR applies to Rel-15?**

|  |  |  |
| --- | --- | --- |
| Company | Yes/No | Comments |
| ZTE | Yes  |  |
| Lenovo | No | Strictly speaking the proposed change applies to 36.355 from Rel-9. However, no issues have been observed so far with using the conditional tags in UL, so we think fixing this issue from Rel-16 is sufficient. |
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# Conclusion

**TBD**

# 4 References

1. [R2-210xxxx, Draft CR on updating the LPP need code guidelines for uplink, CATT](https://www.3gpp.org/ftp/tsg_ran/WG2_RL2/TSGR2_115-e/Inbox/Drafts/%5BOffline-606%5D%5BPOS%5D%20LPP%20need%20code%20guidelines%20for%20uplink%20%28CATT%29)
2. R2-1713911 3GPP TSG RAN WG2 Handbook (11/2017)