**3GPP T****SG-RAN WG2 Meeting #117 R2-220xxxx**

**Electronic, 21st Feb– 3rd Mar, 2022**

**Agenda item: 5.5**

**Source: Huawei, HiSilicon**

**Title: Summary of [AT117-e][624][POS] Agenda Item 5.5 (Huawei)**

**Document for: Discussion and Decision**

# Introduction

This email discussion is based on the following arrangement

* [AT117-e][624][POS] Agenda item 5.5 (Huawei)

 Scope: Treat documents R2-2202597, R2-2202598, and R2-2202599 and conclude on the CRs.

 Intended outcome: Agreed CRs (without CB)

 Deadline: Wednesday 2022-03-02 1000 UTC

## 1.1 Contacts

|  |  |  |
| --- | --- | --- |
| **Company** | **Person** | **Email** |
| Qualcomm | Sven Fischer | sfischer@qti.qualcomm.com |
| CATT | Jianxiang Li | lijianxiang@catt.cn |
| ZTE | Yu Pan | pan.yu24@zte.com.cn |
| vivo | Xiang Pan | panxiang@vivo.com |
| Ericsson | Ritesh Shreevastav | Ritesh.shreevastav@ericsson.com |
| Apple | Sasha Sirotkin | ssirotkin@apple.com |
| Intel | Yi Guo | Yi.guo@intel.com |
| Nokia | Mani Thyagarajan | mani.thyagarajan@nokia.com |
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# Discussion

In the current LPP spec, in the LPP PDU definition, the following has been defined for the organization identifier for the LPP ASN.1



While back in R15, with the introduction of Option5 (LTE connected to 5GC), LPP spec has already been a spec shared by the EPC and 5GS, the above object id is outdated since it is still under the branch of “eps-Access”.

For the object identifier currently maintained by ETSI, the following tree can be seen under the following URL <https://webapp>.etsi.org/ASN1ObjectTree/ASN1.asp



With the issue above, we think there are generally two options for us to address the issue

* Option1: Send a message to 3GPP specification manger to add an object identifier and revise the LPP spec for R15 and R16
* Option2: Remove the object identifier in the LPP spec for R15 and R16

From the above two options, we think that Option2 should be adopted since object identifier is not that useful in the LPP spec. The other spec in the air interface (e.g., RRC spec) does not have object identifier either in their declarations and no issues have been identified.

***Question: Do companies agree to remove the object identifier in the LPP spec for R15 and R16?***

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| --- | --- | --- |
| **Company** | ***Yes/No*** | ***Comments*** |
| Qualcomm |  | We do not see any issues – either with leaving in or removal. If the preference is to remove the OID from Rel-15, would be O.K.  |
| CATT | Yes | Although we don’t see any issues, we slightly prefer to remove the OID from Rel-15. |
| ZTE | Yes | Not essential change |
| vivo | Yes | Referring to ASN.1 in RRC, the object identifier seems not essential. Thus can be removed if out of date.-- ASN1START-- TAG-NR-RRC-DEFINITIONS-STARTNR-RRC-Definitions DEFINITIONS AUTOMATIC TAGS ::=BEGIN-- TAG-NR-RRC-DEFINITIONS-STOP-- ASN1STOP |
| Ericsson | Not essential correction | Same view as QC |
| Apple | Yes |  |
| Intel |  | It is unclear to us how to remove OID? Does not that mean the receiver part will ignore it? Or the transmission part will not add it?[HW] This is only to remove the OID in the LPP ASN.1 spec. Not on the OID repository. OID is an identifier for the spec used long time ago, but not that useful for now.  |
| Nokia |  | We could mirror what is done in RRC specification i.e., change "DEFINITIONS AUTOMATIC TAGS" to "LPP-PDU-Definitions DEFINITIONS AUTOMATIC TAGS ". Corresponding change is required for End of LPP-PDU-Definitions i.e., "LPP-PDU-Definitions END" |

# Summary

During the email discussion, the majority of the companies are fine with the solution of removing the OID from the LPP spec. Specifically, VIVO and Nokia mentioned that we could mirror what is done for the RRC spec, i.e., change "DEFINITIONS AUTOMATIC TAGS" to "LPP-PDU-Definitions DEFINITIONS AUTOMATIC TAGS" and apply the same change for LPP-PDU-Definitions end.

**Proposal: Agree on R2-2202597, and R2-2202598 for R15 and R16 changing "DEFINITIONS AUTOMATIC TAGS" to "LPP-PDU-Definitions DEFINITIONS AUTOMATIC TAGS" and the same change for LPP-PDU-Definitions end.**

# References