**3GPP TSG-RAN WG2 Meeting #127 *DRAFT*\_R2-2407613**

**Maastricht, Netherlands, Aug 19th – 23rd, 2024**

Agenda Item: 7.7.2

Source: CATT (Rapporteur)

Title: Summary of [AT127][302][R18 NR NTN] absence of validity duration in SIB19

Document for: Discussion and Decision

# Introduction

This document provides the discussion summary on the following email discussion:

* [AT127][302][R18 NR NTN] absence of validity duration in SIB19 (CATT)

Scope: Continue the discussion on the actual wording of the change according to option 2 for p2 (starting from the TP in Annex 2)

Intended outcome: report of offline discussion

Deadline for companies' feedback: Thursday 2024-08-22 20:00

Deadline for rapporteur's summary (in R2-2407613): Friday 2024-08-23 08:00

# Discussion

The TP in Annex 2 to option 2 for P2 is cited below (with original copy of TP in R2-2406328)

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| --- |
| ***ntn-UlSyncValidityDuration***  A validity duration configured by the network for assistance information (i.e. Serving and/or neighbour satellite ephemeris and Common TA parameters) which indicates the maximum time duration (from *epochTime*) during which the UE can apply assistance information without having acquired new assistance information.  The unit of *ntn-UlSyncValidityDuration* is second. Value *s5* corresponds to 5 s, value *s10* indicate 10 s and so on. This parameter applies to both connected and idle mode UEs. If this field is absent in *ntn-Config* provided via *NTN-NeighCellConfig* or *SatSwitchWithReSync* in an NTN cell*,* the UE uses validity duration from the serving cell assistance information. If this field is absent in *ntn-Config* provided via *NTN-NeighCellConfig* in a TN cell*,* the validity duration is left to UE implementation.This field is excluded when determining changes in system information, i.e. changes of *ntn-UlSyncValidityDuration* should neither result in system information change notifications nor in a modification of *valueTag* in *SIB1*. *ntn-UlSyncValidityDuration* is only updated when at least one of *epochTime*, *ta-Info*, *ephemerisInfo* is updated. |

A clarification, again, is that this change just aims at how the UE sets the **validity duration value** (i.e. the length for validity timer) for the neighbor (if absent), not related to how the UE operates the validity timer itself. Below, companies' comments/suggestions are collected on the specific wording of the above change.

|  |  |
| --- | --- |
| **Please provide comments/suggestions for wording improvement** | |
| Company | Comments/Suggestions (if any) |
| ZTE | Support the change, current wording is fine. |
| TCL | Support the current wording change |
| Apple | Fine with the change. |
| Lenovo | Ok for the change |
| Google | Ok with the change. |
| Ericsson | Support the change intention and suggest a small addition |
| LGE | OK for the change |
| Samsung | We think in TN case, if it is present, it is up to UE implementation how to use it; if it is absent, the value and how to use it are up to UE implementation.  We don’t see a strong need to clarify anything for TN, since it’s all up to UE implementation. But if majority want to clarify we are fine. |
| vivo | We are fine with Ericsson’s suggestion. |
| ITRI | Fine with the change |

**Rapp's remark**:

A majority of companies think the original wording is Okay, and Ericsson proposes a wording suggestion which is echoed by some companies and is reasonable from Rapp's perspective. So, the final wording proposed by Rapp is as follows (with the delta part to original wording highlighted in yellow).

**Proposal: RAN2 adopts the following change in the field description of *ntn-UlSyncValidityDuration*:**

* **If this field is absent in *ntn-Config* provided via *NTN-NeighCellConfig* or *SatSwitchWithReSync* in an NTN cell*,* the UE uses validity duration from the serving cell assistance information. If this field is absent in *ntn-Config* provided via *NTN-NeighCellConfig* in a TN cell*,* how the UE sets validity duration is left to UE implementation.**

# Conclusion

Thanks to all companies' participation in this offline discussion. The proposal is as follows:

**Proposal: RAN2 adopts the following change in the field description of *ntn-UlSyncValidityDuration*:**

* **If this field is absent in *ntn-Config* provided via *NTN-NeighCellConfig* or *SatSwitchWithReSync* in an NTN cell*,* the UE uses validity duration from the serving cell assistance information. If this field is absent in *ntn-Config* provided via *NTN-NeighCellConfig* in a TN cell*,* how the UE sets validity duration is left to UE implementation.**

# Reference