**3GPP TSG-RAN WG3 Meeting #120 *R3-233414***

**Incheon, KR, 22 May – 26 May, 2023**

**Agenda item:** 26.2

**Source:** ZTE, Nokia, Nokia Shanghai Bell, Ericsson, Huawei，CATT, Samsung, Qualcomm Incorporated

**Title:** (TP to TRS\_URLLC BLCR for TS 38.473) Support of 5G Timing Resiliency enhancements and URLLC

Document for:  Agreement

# 1 Introduction

# This TP provides changes following the offline discussion for R18 TRS\_URLLC.

# 3 TP to BL CR of 38.473

*Changes Start*

## 3.2 Abbreviations

For the purposes of the present document, the abbreviations given in TR 21.905 [1] and the following apply.
An abbreviation defined in the present document takes precedence over the definition of the same abbreviation, if any, in TR 21.905 [1].

**<Unchanged Text Omitted>**

TAC Tracking Area Code

TAI Tracking Area Identity

TEG Timing Error Group

TRP Transmission-Reception Point

TSS Timing Synchronisation Status

U2N UE-to-Network

UL-AoA Uplink Angle of Arrival

UL-RTOA Uplink Relative Time of Arrival

UL-SRS Uplink Sounding Reference Signal

Z-AoA Zenith Angles of Arrival

*Next Change*

#### 9.3.1.x1 RAN Timing Synchronisation Status Information

This IE indicates the RAN timing synchronisation status information provided from the gNB-DU to the gNB-CU.

Editor’s Note: The non-UE associated F1AP procedure(s) used to convey this IE towards the gNB-CU is FFS.

Editor’s Note: This IE may be further refined based on SA2 and RAN3 progress.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| IE/Group Name | Presence | Range | IE type and reference | Semantics description |
| Synchronisation State | O |  | ENUMERATED (locked, holdover, freeRun, …) |  |
| Traceable to UTC | O |  | ENUMERATED (true, false, …) |  |
| Traceable to GNSS | O |  | ENUMERATED (true, false, …) |  |
| Clock Frequency Stability | O |  | BIT STRING (SIZE (16)) | Indicates the offsetScaledLogVariance as specified in TS 23.501 [21].. |
| Clock Accuracy | O |  | 9.3.1.x3 |  |
| Parent Time Source | O |  | ENUMERATED (syncE, pTP, gNSS, atomicClock, terrestrialRadio, serialTimeCode, nTP, handSet, other, …) |  |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  |  |  |  |  |
|  |  |  |  |  |

#### 9.3.1.x3 Clock Accuracy

This IE indicates the clock accuracy as defined in TS 23.501 [21].

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| IE/Group Name | Presence | Range | IE type and reference | Semantics description |
| CHOICE *Clock Accuracy* | M |  |  |  |
| >*choice1* |  |  |  |  |
| >>[FFS] |  |  |  |  |

Editor’s Note: Encoding of the *Clock Accuracy* IE is to be decided by RAN3 and should allow for different RAN implementations (e.g., CHOICE structure). The maximum range is 1 second. Details FFS.

*End of Changes*