**3GPP TSG-RAN WG3 Meeting #115-e *R3-22xxxx***

**E-meeting, 21 Feb-3 Mar 2022**

**Title:** New TAC structure

**Source:** Huawei

**Agenda item:** 20.1

**Document Type:** Other

# Annex1 – TP for TS 38.413

**<<<<<<<<<<<<<<<<<<<<<<<<<<<<< Start of Changes>>>>>>>>>>>>>>>>>>>>>>>>>>**

9.3 Information Element Definitions

9.3.1 Radio Network Layer Related IEs

9.3.1.16 User Location Information

This IE is used to provide location information of the UE.

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **IE/Group Name** | **Presence** | **Range** | **IE type and reference** | **Semantics description** | **Criticality** | **Assigned Criticality** |
| CHOICE *User Location Information* | M |  |  |  | - |  |
| >*E-UTRA user location information* |  |  |  |  |  |  |
| >>E-UTRA CGI | M |  | 9.3.1.9 |  | - |  |
| >>TAI | M |  | 9.3.3.11 |  | - |  |
| >>Age of Location | O |  | Time Stamp  9.3.1.75 | Indicates the UTC time when the location information was generated. | - |  |
| >>PSCell Information | O |  | NG-RAN CGI  9.3.1.73 |  | YES | ignore |
| >*NR user location information* |  |  |  |  |  |  |
| >>NR CGI | M |  | 9.3.1.7 |  | - |  |
| >>TAI | M |  | 9.3.3.11 | Should be ingored if the *TAI List in NTN* IE is present | - |  |
| >>TAI List in NTN |  |  | *0..<maxnoofTAIinNTN>* | Used in case multiple TAIs are reported to CN in NTN | YES | ignore |
| >>>TAI | M |  | 9.3.3.11 |  | YES | ignore |
| >>TAI in NTN | O |  | 9.3.3.11 | In NTN, used when NG-RAN can determine the TAI where the UE is located. | YES | ignore |
| >>Age of Location | O |  | Time Stamp  9.3.1.75 | Indicates the UTC time when the location information was generated. | - |  |
| >>PSCell Information | O |  | NG-RAN CGI  9.3.1.73 |  | YES | ignore |
| >>NID | O |  | 9.3.3.42 |  | YES | reject |
| >*N3IWF user location information* |  |  |  |  |  |  |
| >>IP Address | M |  | Transport Layer Address  9.3.2.4 | UE's local IP address used to reach the N3IWF | - |  |
| >>Port Number | O |  | OCTET STRING  (SIZE(2)) | UDP or TCP source port number if NAT is detected. | - |  |
| >*TNGF user location information* |  |  |  |  | YES | ignore |
| >>TNAP ID | M |  | OCTET STRING | TNAP Identifier used to identify the TNAP. Details in TS 29.571 [35]. | - |  |
| >>IP Address | M |  | Transport Layer Address  9.3.2.4 | UE's local IP address used to reach the TNGF. | - |  |
| >>Port Number | O |  | OCTET STRING  (SIZE(2)) | UDP or TCP source port number if NAT is detected. | - |  |
| >*TWIF user location information* |  |  |  |  | YES | ignore |
| >>TWAP ID | M |  | OCTET STRING | TWAP Identifier used to identify the TWAP. Details in TS 29.571 [35]. | - |  |
| >>IP Address | M |  | Transport Layer Address  9.3.2.4 | Non-5G-Capable over WLAN device's local IP address used to reach the TWIF. | - |  |
| >>Port Number | O |  | OCTET STRING  (SIZE(2)) | UDP or TCP source port number if NAT is detected. | - |  |
| >*W-AGF user location information* |  |  |  | Indicates the location information via wireline access as specified in TS 23.316 [34]. | YES | ignore |
| >>W-AGF user location information | M |  | 9.3.1.164 |  | - |  |

|  |  |
| --- | --- |
| Range bound | Explanation |
| maxnoofTAIinNTN | Maximum no. of TAIs that can be reported to CN is FFS. |

**<<<<<<<<<<<<<<<<<<<<<<<<<<<<< End of Changes>>>>>>>>>>>>>>>>>>>>>>>>>>**