**3GPP TSG-CT WG1 Meeting #134-eC1-221510**

**Electronic meeting, 17-25 Feb 2022**

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| *CR-Form-v12.0* |
| **CHANGE REQUEST** |
|  |
|  | **24.501** | **CR** | **4082** | **rev** |  | **Current version:** | **17.5.0** |  |
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| *For* [***HE******LP***](http://www.3gpp.org/3G_Specs/CRs.htm#_blank)*on using this form: comprehensive instructions can be found at* [*http://www.3gpp.org/Change-Requests*](http://www.3gpp.org/Change-Requests)*.* |
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| ***Proposed change affects:*** | UICC apps |  | ME | **X** | Radio Access Network |  | Core Network |  |

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| ***Title:***  | Last visited registered TAI for multiple TAC |
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| ***Source to WG:*** | LG Electronics |
| ***Source to TSG:*** | C1 |
|  |  |
| ***Work item code:*** | 5GSAT\_ARCH-CT |  | ***Date:*** | 2022-02-10 |
|  |  |  |  |  |
| ***Category:*** | **F** |  | ***Release:*** | Rel-17 |
|  | *Use one of the following categories:****F*** *(correction)****A*** *(mirror corresponding to a change in an earlier release)****B*** *(addition of feature),* ***C*** *(functional modification of feature)****D*** *(editorial modification)*Detailed explanations of the above categories canbe found in 3GPP [TR 21.900](http://www.3gpp.org/ftp/Specs/html-info/21900.htm). | *Use one of the following releases:Rel-8 (Release 8)Rel-9 (Release 9)Rel-10 (Release 10)Rel-11 (Release 11)Rel-12 (Release 12)**Rel-13 (Release 13)Rel-14 (Release 14)Rel-15 (Release 15)Rel-16 (Release 16)Rel-17. (Release 17)* |
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| ***Reason for change:*** | TS23.502 section 4.2.2 says thatIf available, the last visited TAI shall be included in order to help the AMF produce Registration Area for the UE.NOTE 4: With NR satellite access, the last visited TAI can indicate any TAI supported in a radio cell for the RPLMN or equivalent to the RPLMN for the previous UE access that is part of the UE Registration Area.TS24.501 says that**Last visited registered TAI:** A TAI which is contained in the registration area that the UE registered to the network and which identifies the tracking area last visited by the UE.If multiple TAIs are broadcast, the last visited registered TAI can be more than one. But current definition describes it a TAI as singular. According to the below two cases, it is not decided to whether to select TAI#1 or TAI#2 or both and how to select it or them.Example 1. If the UE camps on a cell with SIB {TAI#1, TAI#2} and the UE receives REGISTRATION ACCEPT with TAI list {TAI#1, TAI#2}, then the UE moves to IDLE mode and when the UE triggers mobility registration, the UE shall add last visited registered TAI as TAI#1 or TAI#2.Example 2. If the UE camps on a cell with SIB {TAI#1, TAI#2} and the UE receives REGISTRATION ACCEPT with TAI list {TAI#1}, because TAI#2 is forbidden area, then the UE moves to IDLE mode and when the UE triggers mobility registration, the UE shall add last visited registered TAI as TAI#1.For all cases, it seems that adding NOTE same as TS23.502 is sufficient. |
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| ***Summary of change:*** | Description of last visited registered TAI is updated. |
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| ***Consequences if not approved:*** | Ambigous of meaning of last visited registered TAI |
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| ***Clauses affected:*** | 3.1 |
|  |  |
|  | **Y** | **N** |  |  |
| ***Other specs*** |  | **X** |  Other core specifications  | TS/TR ... CR ... |
| ***affected:*** |  | **X** |  Test specifications | TS/TR ... CR ...  |
| ***(show related CRs)*** |  | **X** |  O&M Specifications | TS/TR ... CR ...  |
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| ***Other comments:*** |  |
|  |  |
| ***This CR's revision history:*** |  |

\*\*\* First change \*\*\*

## 4.23 NAS over Non-Terrestrial Network

### 4.23.1 General

With NR satellite access, the last visited TAI can indicate any TAI supported in a radio cell for the RPLMN or equivalent to the RPLMN for the previous UE access that is part of the UE Registration Area and is belongs to the list of "allowed tracking area".

\*\*\*\*\* End of change \*\*\*\*\*