**3GPP TSG-CT Meeting #98eCP-223264**

**E-Meeting, 12th – 14th December 2022**

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| *CR-Form-v12.2* |
| **CHANGE REQUEST** |
|  |
|  | **23.003** | **CR** | **0648** | **rev** | **5** | **Current version:** | **17.7.0** |  |
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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 | **X** |

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| ***Title:***  | NAI format for 5G registration via trusted access using SNPN |
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| ***Source to WG:*** | Lenovo, Intel |
| ***Source to TSG:*** | Lenovo, Intel, Huawei, HiSilicon |
|  |  |
| ***Work item code:*** | eNPN\_Ph2 |  | ***Date:*** | 2022-10-25 |
|  |  |  |  |  |
| ***Category:*** | **B** |  | ***Release:*** | Rel-18 |
|  | *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-16 (Release 16)Rel-17 (Release 17)Rel-18 (Release 18)Rel-19 (Release 19)* |
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| ***Reason for change:*** | SA2 CR S2-2209869 specifies procdure for the UE to register to 5GS via trusted non-3GPP access network while connecting to an SNPN. For the UE to perform this procedure, requires to use a specific NAI which needs to be defined.  |
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| ***Summary of change:*** | Defining the NAI for the UE to use when connecting to an SNPN for 5G registration via trusted non-3GPP access network. |
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| ***Consequences if not approved:*** | The UE cannot connect to an SNPN for 5G registration via trusted non-3GPP access. |
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| ***Clauses affected:*** | 28.7.6 |
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|  | **Y** | **N** |  |  |
| ***Other specs*** | **X** |  |  Other core specifications  | TS 23.501 CR 3714 |
| ***affected:*** |  | **X** |  Test specifications | TS/TR ... CR ...  |
| ***(show related CRs)*** |  | **X** |  O&M Specifications | TS/TR ... CR ...  |
|  |  |
| ***Other comments:*** |  |
|  |  |
| ***This CR's revision history:*** | Rev 1: Correction in wordings.Rev 2: Created by CT4 chairman but never used.Rev 3: Created for plenary.Rev 4: Added more supporting companies.Rev 5: Definining the NAIs separately when PLMN or SNPN is selected for trusted non-3GPP access network. |

\* \* \* First Change\* \* \* \*

### 28.7.6 NAI used for 5G registration via trusted non-3GPP access

While performing the EAP-authentication procedure when a UE attempts to register to 5GCN via a trusted non-3GPP access network in a selected PLMN (see clause 4.12a in 3GPP TS 23.502 [120]), the UE shall derive a NAI from the selected PLMN in the following format:

"<any\_non\_null\_string>@nai.5gc.mnc<MNC>.mcc<MCC>.3gppnetwork.org"

Where:

a) the username part <any\_non\_null\_string> is any non null string; and

b) the <MNC> and <MCC> identify the PLMN (either HPLMN or VPLMN) to which the UE attempts to connect via the trusted non-3GPP access network as described in clause 6.3.12 in 3GPP TS 23.501 [119].

While performing the EAP-authentication procedure when a UE attempts to register to 5GCN via a trusted non-3GPP access network in a selected SNPN (see clause 5.30.2.Y in 3GPP TS 23.501 [119]), the UE shall derive a NAI from the selected SNPN in the following format:

"<any\_non\_null\_string>@nai.5gc.nid<NID>.mnc<MNC>.mcc<MCC>.3gppnetwork.org "

Where:

a) the username part <any\_non\_null\_string> is any non null string; and

b) the <MNC>, <MCC> and <NID> identify the SNPN to which the UE attempts to connect via the trusted non-3GPP access network.

NOTE 1: The username part of the NAI is not used to identify the UE since the UE is identified by its NAS registration to the 5GCN independent of using the NAI. The realm part of the NAI is however used by the trusted non-3GPP access for TNGF selection.

NOTE 2: In case of 5GCN, there is no need for a decorated NAI as in EPC (see clause 19.3.3), since the UE sends a NAS registration request to the PLMN including a SUCI or 5G-GUTI.

\* \* \* End of Change \* \* \* \*