**3GPP TSG-CT WG3 Meeting #112e C3-205abc**

**E-Meeting, 4th – 13th November 2020 (Revision of C3-205308)**

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| *CR-Form-v12.0* | | | | | | | | |
| **CHANGE REQUEST** | | | | | | | | |
|  | | | | | | | | |
|  | **29.561** | **CR** | **0070** | **rev** | **1** | **Current version:** | **16.5.0** |  |
|  | | | | | | | | |
| *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 |  | Radio Access Network |  | Core Network | **X** |

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|  | | | | | | | | | | |
| ***Title:*** | Corrections on SMF directly connecting DN-AAA server | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Source to WG:*** | Ericsson | | | | | | | | | |
| ***Source to TSG:*** | CT3 | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Work item code:*** | TEI17, 5GS\_Ph1-CT | | | | |  | ***Date:*** | | | 2020-10-16 |
|  |  | | | |  | |  | | |  |
| ***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 can be 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) Rel-18 (Release 18)* | |
|  |  | | | | | | | | | |
| ***Reason for change:*** | | TS 23.501 subclause 5.6.6 NOTE 2 described "If the DN-AAA server is located in the 5GC and reachable directly, then the SMF may communicate with it directly without involving the UPF. " and TS 23.214 contains "NOTE: If the AAA server or the DHCPv4/v6 server in the external PDN is reachable directly, then the PGW-C communicates with it directly, without involving the PGW-U."  Corresponding NOTE shall be added in TS 29.561 to allow SMF can directly communicate with DN-AAA server if reachable directly. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Summary of change:*** | | Adding correponding NOTE in N6 interface in this spec accordingly. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Consequences if not approved:*** | | Missing description of SMF may communicate with the AAA server directly if it is reachable directly, impact related Radius/Diameter implementation has to involve UPF which is not needed. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Clauses affected:*** | | 6 | | | | | | | | |
|  | |  | | | | | | | | |
|  | | **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 ... | | |
|  | |  | | | | | | | | |
| ***Other comments:*** | |  | | | | | | | | |
|  | |  | | | | | | | | |
| ***This CR's revision history:*** | |  | | | | | | | | |

**Additional discussion(if needed):**

**Proposed changes:**

\*\*\* 1st Change \*\*\*

# 6 Reference Architecture

Figure 6-1 shows the access interfaces for the 5G Network. The 5G Network includes both the 3GPP access and the non-3GPP access.

The NSS-AAA may belong to the H-PLMN in the 5G Network (without AAA-P interworking) or a 3rd party (with AAA-P interworking).



Figure 6-1: Reference Architecture for 5G Network Interworking

NOTE 1: The SMF represents the H-SMF in the home routed scenario.

NOTE m: If the DN-AAA server located in 5GC or in the external PDN is reachable directly, then the SMF can communicate with the DN-AAA server directly without involving the UPF, applicable to all the message flows on N6 interface in clause 11 and clause 12 in this specification.

\*\*\* End of Changes \*\*\*