**3GPP TSG-SA3 Meeting #101e *draft\_S3-203103-r3***

**e-meeting, 9 – 20 November 2020**

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| *CR-Form-v12.0* | | | | | | | | |
| **CHANGE REQUEST** | | | | | | | | |
|  | | | | | | | | |
|  | **33.501** | **CR** | **1006** | **rev** | **1** | **Current version:** | **16.4.0** |  |
|  | | | | | | | | |
| *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:*** | Authorization between NFs and SCP | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Source to WG:*** | Nokia, Nokia Shanghai Bell | | | | | | | | | |
| ***Source to TSG:*** | S3 | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Work item code:*** | 5G\_eSBA | | | | |  | ***Date:*** | | | 2020-11-20 |
|  |  | | | |  | |  | | |  |
| ***Category:*** | **F** |  | | | | | ***Release:*** | | | Rel-16 |
|  | *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)* | |
|  |  | | | | | | | | | |
| ***Reason for change:*** | | In TS33.501 in clause 13.3.6 there is a Ed Note stating authorization between NFs and SCP is ffs | | | | | | | | |
|  | |  | | | | | | | | |
| ***Summary of change:*** | | Addition of authorization mechanism between NFs and SCP | | | | | | | | |
|  | |  | | | | | | | | |
| ***Consequences if not approved:*** | | There will be no authorization mechanism defined between NFs and SCP and Ed Note will be unresolved. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Clauses affected:*** | | 13.3.6, 13.4.1.3.2 | | | | | | | | |
|  | |  | | | | | | | | |
|  | | **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:*** | |  | | | | | | | | |

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* Start of Change 1 \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

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### 13.3.6 Authentication and authorization between SCP and network functions

The SCP and network functions shall use one of the following methods described in clause 13.1 to mutually authenticate each other before service layer messages can be exchanged on that interface:

- If the PLMN uses protection at the transport layer, authentication provided by the transport layer protection solution shall be used for mutual authentication of the SCP and the network functions.

- If the PLMN does not use protection at the transport layer, mutual authentication of the SCP and network functions may be implicit by NDS/IP or physical security.

Authentication between the SCP and the Network Function may be implicit by co-location.

Editor's Note: Authoriziation between SCP and NFs is ffs

In the present document, authorization between the SCP and the NFs is based on static authorization as described in clause 13.3.0.

Alternative text proposals in order to delete ed.note:

However, there is no mechanism which allows the NF, e.g., NF Service Consumer, to communicate to the far end node, e.g. NF Service Producer, that the SCP is authorized on its behalf.

However, it does not address how SCP is authorized by the NF Service Consumer to request services on its behalf.

No dynamic mechanism for establishing authorization between the SCP and NFs is defined.

Text that provides a reference to NOTE 3 in clause 13.3.1.2: NOTE 3: If only hop-by-hop security is used in a PLMN, the NRF is not able to verify that an access token request sent by SCP on behalf of a certain NF Service Consumer, is actually authorized by this consumer.

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* End of Change 1 \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*