**3GPP TSG-SA3 Meeting #102-e *S3-211891-r1***

**e-meeting, 18 - 29 January 2021, Online**

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| *CR-Form-v12.1* |
| **CHANGE REQUEST** |
|  |
|  | **33.501** | **CR** | **1126** | **rev** | **1** | **Current version:** | **17.1.0** |  |
|  |
| *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:***  | Clarification on the static authorization |
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| ***Source to WG:*** | S3 |
| ***Source to TSG:*** | Huawei, HiSilicon |
|  |  |
| ***Work item code:*** | TE17 |  | ***Date:*** | 2021-04-01 |
|  |  |  |  |  |
| ***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-15 (Release 15)Rel-16 (Release 16)Rel-17 (Release 17)Rel-18 (Release 18)* |
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| ***Reason for change:*** | Currently, it is specified that static authorization can be used for authorization. However, two operators may have the roaming issue if the authorization is not aligned between them. For example, if one operator supports static authorization, while the other only supports Oauth authorization, the NF service produer requireding token request will reject the NF service consumer. Hence, it is proposed to clarify the usage of static authorization. |
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| ***Summary of change:*** | Clarify that static authorization shall be supported at the NRF and the NF Service Producer. It can be used when token-based authorization is not used by at least one of the two PLMNs in the roaming scenaro. |
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| ***Consequences if not approved:*** | Unclear specification on the static authorization usage. |
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| ***Clauses affected:*** | 13.3.0 |
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|  | **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 the change\*\*\*\*\*\*\*\*\*\*\*\*\*\*

### 13.3.0 Static authorization

Static authorization that is based on local authorization policy, shall be supported at the NRF and the NF Service Producer. It can be used when token-based authorization is not used in the visited PLMN or home PLMN for the roaming scenario. Both the visited PLMN and the home PLMN shall negotiate a final authorizaiton mechanism, i.e. static authorization, or token-based authorization. The home PLMN NRF shall decide whether to use the token-based authorization or not based on the authorization capability received from the visited PLMN NRF, and send the decision back to the visited NRF during the service discovery procedure.

During the Nnrf\_NFDiscovery procedure, the NRF ensures that the NF Service Consumer is authorized to discover the NF Service Producer service(s) as specified in clause 13.3.1.3 of this document.

If token-based authorization is not used within one PLMN and the NF Service Producer receives a service request, the NF Service Producer shall check authorization of the NF Service Consumer based on its local policy. If the NF Service Consumer is authorized to receive the service requested, the NF Service Producer shall grant the NF Service Consumer access to the service API.

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