**3GPP TSG-SA3 Meeting #108e *S3-222033-r2***

**e-meeting, 22 - 26 August 2022**

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| *CR-Form-v12.1* |
| **CHANGE REQUEST** |
|  |
|  | **33.501** | **CR** | 1462 | **rev** | **-**  | **Current version:** | **16.11.0** |  |
|  |
| *For* ***[HE](http://www.3gpp.org/3G_Specs/CRs.htm%22%20%5Cl%20%22_blank)******[LP](http://www.3gpp.org/3G_Specs/CRs.htm%22%20%5Cl%20%22_blank)*** *on using this form: comprehensive instructions can be found at <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:***  | Revise the pre-requisite of access token request |
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| ***Source to WG:*** | China Telecom |
| ***Source to TSG:*** | S3 |
|  |  |
| ***Work item code:*** |  |  | ***Date:*** | 2022-08-22 |
|  |  |  |  |  |
| ***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 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:*** | One of the current pre-requisites of access token request is that “The NF Service Producer (OAuth2.0 resource server) is registered with the NRF (Authorization Server) with "additional scope" information per NF type.”But according to 13.4.1.1.1 TS33.501, the NF Service Provider may include "additional scope" information during registration with NRF. Therefore, "additional scope" information is optional. |
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| ***Summary of change:*** | Revise the pre-requisite of access token request so that "additional scope" information is optional. |
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| ***Consequences if not approved:*** | There will be confusion about the pre-requisite of access token request. |
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| ***Clauses affected:*** | 13.4.1.1.2, 13.4.1.2.2 |
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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 1st change \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

##### 13.4.1.1.2 Service Request Process

The complete service request is a two-step process including requesting an access token by NF Service Consumer (Step 1, i.e. 1a or 1b), and then verification of the access token by NF Service Producer (Step 2).

**Step 1: Access token request**

Pre-requisite:

- The NF Service consumer (OAuth2.0 client) is registered with the NRF (Authorization Server).

- The NF Service Producer (OAuth2.0 resource server) is registered with the NRF (Authorization Server) with optional "additional scope" information per NF type.

- The NRF and NF Service Producer share the required credentials.

- The NRF and NF have mutually authenticated each other.

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* End of the 1st change \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* Start of the 2nd change \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

##### 13.4.1.2.2 Service Request Process

The complete service request is two-step process including requesting an access token by NF Service Consumer (Step 1, i.e. 1a or 1b), and then verification of the access token by NF Service Consumer (Step 2).

**Step 1 : Access token request**

Pre-requisite:

- The NF Service Consumer (OAuth2.0 client) is registered with the vNRF (Authorization Server in the vPLMN).

- The hNRF and NF Service Producer share the required credentials. Additionally, the NF Service Producer (OAuth2.0 resource server) is registered with the hNRF (Authorization Server in the hPLMN) with optional "additional scope" information per NF type.

- The two NRFs are implicitly authenticated via N32 mutual authentication of SEPPs.

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* End of the 2nd change \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*