**3GPP TSG-SA3 Meeting #105-e *draft\_S3-214265-r1***

e-meeting, 8 - 19 November 2021

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| *CR-Form-v12.0* | | | | | | | | |
| **CHANGE REQUEST** | | | | | | | | |
|  | | | | | | | | |
|  |  | **CR** | **DRAFT** | **rev** | **1** | **Current version:** | **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 mechanisms for data consumer to access data from data producer when notification sent via MFAF | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Source to WG:*** | Nokia, Nokia Shanghai Bell, Lenovo, Motorola Mobility | | | | | | | | | |
| ***Source to TSG:*** | S3 | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Work item code:*** | eNA\_Ph2 | | | | |  | ***Date:*** | | | 2021-11-08 |
|  |  | | | |  | |  | | |  |
| ***Category:*** | B |  | | | | | ***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)* | |
|  |  | | | | | | | | | |
| ***Reason for change:*** | | Authorization mechanisms for the data consumer are needed when the data notification is sent via MFAF. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Summary of change:*** | | Adding the authorization aspects for data consumer to access data via DCCF when notification is sent via MFAF as agreed in the Solution 10, Clause 6.10.2.2 of TR 33.866 | | | | | | | | |
|  | |  | | | | | | | | |
| ***Consequences if not approved:*** | | No security procedure for eNA Rel-17 feature when data notification is sent via MFAF | | | | | | | | |
|  | |  | | | | | | | | |
| ***Clauses affected:*** | | New Annex | | | | | | | | |
|  | |  | | | | | | | | |
|  | | **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 \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

X.3 Authorization of NF Service Consumers for data access via DCCF when notification sent via MFAF

The detailed procedure for NF Service Consumer to receive data from Service Producers via DCCF when notification is sent via MFAF is depicted in Figure X.3-1:



Figure X.3-1: Service Consumer Authorization to receive data from Service Producers via MFAF

Steps 1-9 are same as Steps 1 – 9 of Annex X.2

10-11. The DCCF sends an access token request to the NRF to request service from MFAF. NRF after verifying sends access\_token\_dccf to DCCF to consume the services of MFAF.

12. DCCF shall then send the Nmfaf\_3daDataManagement\_Configure request to MFAF (as specified in the Clause 6.2.6.3.2 in TS 23.288) along with the access\_token\_dccf.

Steps 13 – 14 are same as Steps 10 – 11 of Annex X.2

15. The NF Service Producer(s) shall provide requested data to the MFAF.

16. The MFAF forwards the received data to the data consumer(s).

NOTE: In the case a new data consumer comes at a later stage to request the data, which is already being collected by DCCF, steps 1-9 apply. When the request is received by the NF Service Producer (i.e. the data producer), it authenticates the NF Service Consumer and verifies the access token provided along with the service request and sends to DCCF the access token verification response. DCCF based upon the response received, either updates the subscription info at the MFAF to include the new data consumer as well and MFAF sends the data to both the consumers (as specified in Clause 6.2.6.3.2 in TS 23.288[x]), or in the case of access token verification failure, the DCCF rejects the request received by the data consumer and does not update the subscription at the MFAF.

NOTE: In the case the NF Service Producer is from Rel 16 or earlier, the NF Service Producer authorizes the NF Service Consumer (e.g., NWDAF) by validating the received OAuth2.0 access token which has the “subject” claim maps to the NF Service Consumer (e.g., NWDAF). Rel-16 or earlier NF Service Producer authorization of the DCCF is a deployment specific based on any of the available 5GC authorization method(s).

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