3GPP TSG-SA3 Meeting #115 S3-240914-r1

Athens, Greece, 26 February -01 March 2024

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| *CR-Form-v12.1* |
| **CHANGE REQUEST** |
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|  | **33.501** | **CR** | **1919** | **rev** |  | **Current version:** | **18.4.0** |  |
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| *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:***  | Editorial change on procedure for protection of analytics exchange in roaming case |
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| ***Source to WG:*** | Huawei, HiSilicon |
| ***Source to TSG:*** | S3 |
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| ***Work item code:*** | eNA\_Ph3\_SEC |  | ***Date:*** | 2024-02-18 |
|  |  |  |  |  |
| ***Category:*** |  |  | ***Release:*** | Rel-18 |
|  | *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:*** | This proposal is to correct some text for the procedure of X.8.2.2. which is the protection of analytics exchange in roaming case.  |
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| ***Summary of change:*** | Editorial change to make the context aligned.  |
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| ***Consequences if not approved:*** |  Misunderstanding could be happened. |
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| ***Clauses affected:*** | X.8.2.2 |
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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 ...  |
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| ***Other comments:*** |  |
|  |  |
| ***This CR's revision history:*** |  |

### X.8.2.2 Policies configured as extended claims in access token



Figure X.8.2.2-1: Protection of analytics exchange when policies configured as extended claims in access token

Pre-requisite:

- The producer NRF has the NF profile of the NF Service Producer including the list of allowed Analytics ID(s) per PLMN. According to TS 29.510 [68] clause 5.2.1, the NF profile can be configured in the NRF by other means such as O&M.

Step 1: NWDAFc sends an access token get request to the consumer NRF as specified in clause 13.4.1. The access token request may contain the Analytics ID

Step 2: vNRF forwards the token request message to hNRF as specified in clause 13.4.1.

Step 3: The home network hNRF shall verify the access token get request as specified 13.4.1, and determine whether the requested analytics implied by the Analytics ID(s) can be obtained by the visited PLMN according to the allowed Analytics ID(s) of the visited PLMN.

Step 4: If the verification success, hNRF issues the token as specified in clause 13.4.1. The allowed Analytics ID(s) of the visited PLMN may be included in the token.

Step 5: The vNRF forwards the Token\_Get Response to NWDAFc as specified in clause 13.4.1.

Step 6: If the requested analytics is within the claim of token, the NWDAFc sends Nnwdaf\_RoamingAnalytics\_Subscribe/Request with the issued token to NWDAFp.

Step 7: The roaming entry NWDAFp verifies the service request, including verifying token as specified in clause 13.4.1, and whether the requested analytics is within the allowed Analytics ID(s) in the token.

Step 8: The roaming entry NWDAFp shall apply the security policies per consumer (PLMN) to the requested analytics and decide on their anonymization, restriction or desensitization based on operator’s policy.

NOTE: The anonymization, restriction or desensitization mechanisms of data / analytics are left for implementation.

Step 9: The Roaming entry NWDAFp returns the requested and processed analytics to the NWDAFc.