**3GPP TSG-SA3 Meeting #115 *S3-240850***

**Athens, February 26 - March 01, 2024**

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| *CR-Form-v12.1* | | | | | | | | |
| **CHANGE REQUEST** | | | | | | | | |
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|  | **33.122** | **CR** | **0068** | **rev** | **1** | **Current version:** | **18.2.0** |  |
|  | | | | | | | | |
| *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 | **X** | Radio Access Network |  | Core Network | **X** |

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| ***Title:*** | Add revocation procedure for RNAA-related tokens | | | | | | | | | |
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| ***Source to WG:*** | Xiaomi, Huawei, HiSilicon, Samsung | | | | | | | | | |
| ***Source to TSG:*** | S3 | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Work item code:*** | SNAAPPY | | | | |  | ***Date:*** | | | 2024-2-05 |
|  |  | | | |  | |  | | |  |
| ***Category:*** | **F** |  | | | | | ***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 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-15 (Release 15) Rel-16 (Release 16) Rel-17 (Release 17) Rel-18 (Release 18)* | |
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| ***Reason for change:*** | | The Editor's Note "this clause describes the revocation procedure, unless this is taken care of by SA6 as it is for non RNAA use cases" is captured for potential revocation procedure in clause 6.5.3.4.  Compared to traditional tokens, the RNAA-related token is obtained via the authorization information belonging to the resource owner. In other words, resource owner may request to revoke the tokens in case of changing their minds. However, 5GS can only support the expiration time based token revocation mechanism (i.e. Annex C.6 of TS 33.122), which cannot fulfill the on-demand revocation intention of resource owners.  To resolve the editor’s note, this contribution provides the revocation procedure for RNAA-related tokens. | | | | | | | | |
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| ***Summary of change:*** | | The authorization revocation procedure defined in clause 8.23.4 of TS 23.222 is modified to support RNAA scenarios. | | | | | | | | |
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| ***Consequences if not approved:*** | | The Editor's Note about authorization revocation in RNAA scenarios is not resolved. | | | | | | | | |
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| ***Clauses affected:*** | | 6.5.3.4 | | | | | | | | |
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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 \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

#### 6.5.3.4 Revocation

API Exposing Function needs to be informed about revocation if this is necessary to ensure correct handling of revocation, and CCF may inform the AEF via the following procedure.



Figure 6.5.3.4-X Procedure for revoking API invoker authorization

As described in figure 6.5.3.4-X, the CCF shall inform API exposing function to revoke the token via the procedure defined in clause 8.23.4 of TS 23.222 [3] with the following modifications.

* In step 0, CCF may receive the Authorization Revocation Request message from the UE, resource owner client, web page, etc.

The Authorization Revocation Request message shall include information that can identify the RNAA-related tokens (e.g., the resource owner ID, the expiration time, the AEF ID, service API ID, token identity).

* In step 2, to revoke authorization for resource related to a specific resource owner/UE, authorization revocation request shall be sent to the AEF. The authorization revocation request shall include information that can identify the RNAA-related token as described in step 0 (e.g., the resource owner ID). The CCF selects the AEF based on the AEF ID which is included in the Authorization Revocation Request message.
* In step 3, the AEF shall invalidate the authorization based on the authorization revocation request in step 2. Before responding to API invoker's API invocation request, AEF shall check whether the token presented by API invoker is revoked or not. AEF does not need to maintain the revocation information after the expiration time of the token.
* In step 5, the difference is that the invalidated authorization is for the resource owner/UE corresponding to the GSPI.
* In step 6, the notification message shall include information that can identify RNAA-related tokens.

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*End of the Change \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*