**3GPP TSG-SA3 Meeting #106-e *S3-220290***

**e-meeting, 14 - 25 February 2022**

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| *CR-Form-v12.1* | | | | | | | | |
| **CHANGE REQUEST** | | | | | | | | |
|  | | | | | | | | |
|  | **33.501** | **CR** | **1319** | **rev** | **1** | **Current version:** | **17.4.2** |  |
|  | | | | | | | | |
| *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:*** | Resolving EN on authorization in MSGin5G | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Source to WG:*** | Samsung | | | | | | | | | |
| ***Source to TSG:*** | S3 | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Work item code:*** | 5GMSG | | | | |  | ***Date:*** | | | 2022-01-25 |
|  |  | | | |  | |  | | |  |
| ***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 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:*** | | This contribution proposes to resolve the following Editor’s Note:  Editor's Note: Further clarification on usage of GPSI or SUPI for authorization in MSGin5G services is FFS. | | | | | | | | |
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| ***Summary of change:*** | | It is proposed to provide details on authorization mechanism to authorize the UE by the MSGin5G server for MSGin5G services. | | | | | | | | |
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| ***Consequences if not approved:*** | | Incomplete specification. | | | | | | | | |
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| ***Clauses affected:*** | | Y.2 | | | | | | | | |
|  | |  | | | | | | | | |
|  | | **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\*\*\*\*\****

Y.2 Authentication and authorization between MSGin5G client and MSGin5G Server

The Authentication and authorization between MSGin5G Client and MSGin5G Server shall be based on AKMA, which is specified in TS 33.535 [91]. Before initiating communication with MSGin5G Server, the UE needs to have performed primary authentication and registered with the 5GC, resulting in the successful generation of KAKMA and A-KID at both MSGin5G Client and the 5GC as specified in clause 6.1, TS 33.535 [91].

Once the UE is registered in 5GC, the MSGin5G Client in the UE and the MSGin5G Server may use TLS for authentication as specified in Annex B of TS 33.535 [91] with the MSGin5G Server taking the role of AKMA AF.

Methods other than TLS with AKMA may be used for authentication between the MSGin5G Client and MSGin5G Server, depending on the Ua\* protocols.

When MSGin5G service is used with SEAL, the application architecture described in TS 23.554 [106] is followed. In this case, authorization of the MSGin5G UE by the MSGin5G server is performed by validating the association between the UE service ID and UE ID (SUPI/GPSI). The UE service ID is acquired via the MSGin5G registration request, as specified in TS 23.554 [106]. The Configuration Management server or MSGin5G Configuration Function maintains association of the assigned UE service ID with the UE ID. The MSGin5G server retrieves the association from the Configuration Management server or MSGin5G Configuration Function using the UE ID received from the AAnF and verifies whether the UE service ID received in the registration request message is associated with the UE ID in the retrieved association information.

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