**3GPP TSG-SA3 Meeting #115AdHoc-e *S3-242464***

Electronic meeting, online, 15 - 19 April 2024

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| *CR-Form-v12.1* |
| **CHANGE REQUEST** |
|  |
|  | 33.501 | **CR** | draftCR | **rev** | **<Rev#>** | **Current version:** | 18.5.0 |  |
|  |
| *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 | **X** | Radio Access Network |  | Core Network | **X** |

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| ***Title:***  | Living document of security aspects of MSGin5G service Ph3 |
|  |  |
| ***Source to WG:*** | China Mobile |
| ***Source to TSG:*** | S3 |
|  |  |
| ***Work item code:*** | 5GMARCH\_SEC\_Ph3 |  | ***Date:*** | 2024-04-02 |
|  |  |  |  |  |
| ***Category:*** | B |  | ***Release:*** | Rel-19 |
|  | *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:*** | SA6 has specified TS 23.554 to support 5GMSG service in Rel-17 5GMARCH WID and Rel-18 5GMARCH\_Ph2 WID. However, some technical issues remain in 3GPP TS 23.554 and have not been solved in Rel-18, thus SA6 has started the normative work (SP-230781) in Rel-19 to address the remaining issues where SA3 is expected to solve the issues related to bulk registration, with the following Editor’s Notes extracted from TS 23.554.Editor's note: Security aspects of bulk registration is the responsibility of SA3.Editor's note: Security aspects of Non-MSGin5G UE bulk registration is the responsibility of SA3.Editor's note: Security aspects of Non-MSGin5G UE bulk de-registration is the responsibility of SA3.Editor's note: Security aspects of MSGin5G UE bulk de-registration is the responsibility of SA3.Based on SA3’s Rel-17 and Rel-18 work, it’s specified that AKMA is used to achieve the authentication of MSGin5G UE and MSGin5G Server. However, when bulk registration where several MSGin5G UEs connect to the MSGin5G server via a MSGin5G Gateway UE, the authentication and authorization procedures between the MSGin5G UE in bulk and the MSGin5G Gateway UE have not yet been specified. |
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| ***Summary of change:*** | Adding authentication and authorization aspects in bulk registration scenarios |
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| ***Consequences if not approved:*** | Incomplete feature |
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| ***Clauses affected:*** | Annex Y.xx(new clause) |
|  |  |
|  | **Y** | **N** |  |  |
| ***Other specs*** |  | **X** |  Other core specifications  | TS/TR ... CR ...  |
| ***affected:*** |  |  |  Test specifications | TS/TR ... CR ...  |
| ***(show related CRs)*** |  |  |  O&M Specifications | TS/TR ... CR ...  |
|  |  |
| ***Other comments:*** | The living document implements S3-241230, S3-241910 |
|  |  |
| ***This CR's revision history:*** | S3-241532,S3-242464 |

\*\*\*\* Start of 1st Change\*\*\*\*

Annex Y (normative):
Security aspects of the Message Service for MIoT over the 5G System (MSGin5G)

# xx Authentication and Authorization in bulk registration scenarios

For MSGin5G UEs in bulk, the MSGin5G Gateway UE shall perform authentication and authorization on behalf of the MSGin5G UEs behind the MSGin5G Gateway UE with MSGin5G Server based on AKMA as specified above in clause Y.2.

The authentication and authorization between the MSGin5G UEs behind the MSGin5G Gateway UE and the MSGin5G Gateway UE shall be based on the security procedures of the Unicast mode 5G ProSe Direct Communication specified in 3GPP TS 33.503 [109].

For Non-MSGin5G UEs bulk registration/de-registration, the Message Gateway performs the authentication and authorization on behalf of the Non-MSGin5G UE, The authentication and authorization between Message Gateway and the MSGin5G Server as specified above in clause Y.5 also applies.

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