**3GPP TSG-SA WG6 Meeting #46-e S6-21xxxx**

**e-meeting, 15th – 23rd November 2021 (revision of S6-212524)**

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| --- |
| *CR-Form-v12.1* |
| **CHANGE REQUEST** |
|  |
|  | **23.554** | **CR** | **0014** | **rev** | **1** | **Current version:** | **17.0.1** |  |
|  |
| *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 |  |

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|  |
| ***Title:***  | Message topic unsubscription |
|  |  |
| ***Source to WG:*** | Huawei, Hisilicon |
| ***Source to TSG:*** | S6 |
|  |  |
| ***Work item code:*** | 5GMARCH |  | ***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 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)* |
|  |  |
| ***Reason for change:*** | The message topic subscription procedure exists in TS 23.554, but the corresponding unsubscription procedure does not exist. |
|  |  |
| ***Summary of change:*** | Add the message topic unsubscription procedure. |
|  |  |
| ***Consequences if not approved:*** | The subscriber cannot unsubscribe the message topic. |
|  |  |
| ***Clauses affected:*** | 8.8.x (new) |
|  |  |
|  | **Y** | **N** |  |  |
| ***Other specs*** |  |  |  Other core specifications  | TS/TR ... CR ...  |
| ***affected:*** |  |  |  Test specifications | TS/TR ... CR ...  |
| ***(show related CRs)*** |  |  |  O&M Specifications | TS/TR ... CR ...  |
|  |  |
| ***Other comments:*** |  |
|  |  |
| ***This CR's revision history:*** |  |

\* \* First Chang \* \* \*

### 8.8.x Messaging Topic Unsubscription

Corresponding to message topic unsubscription, an MSGin5G Client or an Application Server can unsubscribe one or more Messaging Topic(s) on the MSGin5G Server.

Figure 8.8.x-1 shows the MSGin5G Client/Application Server unsubscribing to Messaging Topic(s) on the MSGin5G Server.

Pre-conditions:

1. The MSGin5G Client or Application Server has subscribed a message topic on the MSGin5G Server.



Figure 8.8.x-1: MSGin5G Service endpoint unsubscribes to Messaging topic(s)

1. The MSGin5G Client or Application Server sends a Messaging Topic unsubscription request to the MSGin5G Server. The request includes the information listed in Table 8.8.x-1.

Table 8.8.x-1: Messaging Topic unsubscription request

|  |  |  |
| --- | --- | --- |
| Information element | Status | Description |
| Originating UE Service ID/AS Service ID | M | The service identity of the sending MSGin5G Client or the sending Application Server. |
| Messaging Topic(s) | M | One or more messaging Topic(s) to be unsubscribed. |

2. The MSGin5G Server validates the Messaging Topic unsubscription request and checks the local stored Messaging Topic(s). If the subscribed Messaging Topic has already been created and if the UE Service ID/AS Service ID of the subscriber is already included in this Messaging Topic, the MSGin5G Server removes the UE Service ID/AS Service ID from the subscribers list of this Messaging Topic.

3. The MSGin5G Server sends a Messaging Topic Unsubscription response to the originator of the request. The response includes the information listed in Table 8.8.x-2.

Table 8.8.x-2: Messaging Topic Unsubscription response

|  |  |  |
| --- | --- | --- |
| Information element | Status | Description |
| subscription status | M | Indicates whether the subscription was successfully deleted on the MSGin5G Server |