**3GPP TSG-SA WG6 Meeting #52-bis-e S6-23bbbb**

**e-meeting, 11th – 20th January 2023 (revision of S6-23xxxx)**

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| *CR-Form-v12.2* | | | | | | | | |
| **CHANGE REQUEST** | | | | | | | | |
|  | | | | | | | | |
|  |  | **CR** |  | **rev** |  | **Current version:** |  |  |
|  | | | | | | | | |
| *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:*** | Addition of API for change of USS | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Source to WG:*** |  | | | | | | | | | |
| ***Source to TSG:*** |  | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Work item code:*** |  | | | | |  | ***Date:*** | | |  |
|  |  | | | |  | |  | | |  |
| ***Category:*** |  |  | | | | | ***Release:*** | | |  |
|  | *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-16 (Release 16) Rel-17 (Release 17) Rel-18 (Release 18) Rel-19 (Release 19)* | |
|  |  | | | | | | | | | |
| ***Reason for change:*** | | The API related with change of USS has an Editor’s Note indicating that the API is FFS. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Summary of change:*** | | The API for all messages related with related with change of USS is introduced. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Consequences if not approved:*** | | The API will be undefined. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Clauses affected:*** | | 8, 8.2.1, 8.2.4 (new), 8.2.4.1 (new), 8.2.4.2 (new), 8.2.4.3 (new), 8.2.4.4 (new), 8.2.4.5 (new) | | | | | | | | |
|  | |  | | | | | | | | |
|  | | **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:*** | |  | | | | | | | | |

## \* \* \* First Change \* \* \*

# 8 APIs

## \* \* \* Next Change \* \* \*

### 8.2.1 General

Table 8.2.1-1 illustrates the UAE server APIs.

Table 8.2.1-1: List of UAE server APIs

|  |  |  |  |
| --- | --- | --- | --- |
| API Name | API Operations | Known Consumer(s) | Communication Type |
| UAE\_C2OperationModeManagement API | Manage\_C2OperationMode | UAS application specific server | Request/ Response |
| Notify\_SelectedC2Mode (NOTE) | UAS application specific server | Subscribe/notify |
| Notify\_C2ModeSwitching (NOTE) | UAS application specific server | Subscribe/notify |
| Notify\_C2OperationModeManagementComplete (NOTE) | UAS application specific server | Subscribe/notify |
| UAE\_ChangeUSSManagement API | Manage\_USSManagement | UAS application specific server | Request/ Response |
| Notify\_USSManagementComplete | UAS application specific server | Subscribe/notify |
| Manage\_USSChange | UAS application specific server | Request/ Response |
| Notify\_USSChange | UAS application specific server | Subscribe/notify |
| UAE\_RealtimeUAVStatus API | Subscribe\_RealtimeUAVStatus | UAS application specific server | Subscribe/notify |
| Unsubscribe\_RealtimeUAVStatus | UAS application specific server | Subscribe/notify |
| Notify\_RealtimeUAVStatus | UAS application specific server | Subscribe/notify |
| NOTE: The subscribe operation for Notify\_C2OperationModeManagementComplete, Notify\_SelectedC2Mode and Notify\_C2ModeSwitching is part of Configure\_C2OperationMode | | | |

## \* \* \* Next Change \* \* \*

### 8.2.4 UAE\_ChangeUSSManagement API

#### 8.2.4.1 General

**API description:** This API enables the UAS application specific server to communicate with the UAE server to send policies, requests for change of USS for the UAS and receive notifications from the UAS UEs (i.e. UAV) about change of USS.

#### 8.2.4.2 Manage\_USSManagement operation

**API operation name:** Manage\_USSManagement

**Description:** Manage (initiate, change or delete) the configuration of the policies for change of USS for the UAS UEs.

**Known Consumers:** UAS application specific server.

**Inputs:** Refer clause 7.6.3.1.

**Outputs:** Refer clause 7.6.3.2.

See clause 7.6.2.1 for the details of usage of this API operation.

#### 8.2.4.3 Notify\_USSManagementComplete operation

**API operation name:** Notify\_USSManagementComplete

**Description:** Notification about the USS management completion by UAE server.

**Known Consumers:** UAS application specific server.

**Inputs:** Refer clause 7.6.3.3.

**Outputs:** None.

See clause 7.6.2.1 for the details of usage of this API operation.

#### 8.2.4.4 Manage\_USSChange operation

**API operation name:** Manage\_USSChange

**Description:** Manage change of USS on request from UAS application specific server.

**Known Consumers:** UAS application specific server.

**Inputs:** Refer clause 7.6.3.6.

**Outputs:** Refer clause 7.6.3.7.

See clause 7.6.2.3 for the details of usage of this API operation.

#### 8.2.4.5 Notify\_USSChange operation

**API operation name:** Notify\_USSChange

**Description:** Notification about the change of USS required by UAS UE.

**Known Consumers:** UAS application specific server.

**Inputs:** Refer clause 7.6.3.8.

**Outputs:** None.

See clause 7.6.2.3 for the details of usage of this API operation.

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