**3GPP TSG-SA WG6 Meeting #64 *DRAFT1 option 1* S6-245351**

**Orlando (FL), USA, 18th – 22nd November 2024 (revision of S6-245029)**

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| *CR-Form-v12.3* | | | | | | | | |
| **CHANGE REQUEST** | | | | | | | | |
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|  | **23.280** | **CR** | **0611** | **rev** | **1** | **Current version:** | **19.4.0** |  |
|  | | | | | | | | |
| *For* [***HELP***](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:*** | Procedures for recording admin and replay service configuration | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Source to WG:*** | Airbus | | | | | | | | | |
| ***Source to TSG:*** | SA6 | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Work item code:*** | enhMC | | | | |  | ***Date:*** | | | 2024-11-20 |
|  |  | | | |  | |  | | |  |
| ***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 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-17 (Release 17) Rel-18 (Release 18) Rel-19 (Release 19)  Rel-20 (Release 20)* | |
|  |  | | | | | | | | | |
| ***Reason for change:*** | | Information flows and procedures for recording admin and replay service configurations and user profiles are missing | | | | | | | | |
|  | |  | | | | | | | | |
| ***Summary of change:*** | | Add new clause 10.18.1 containing a) the user profile concept b) the time sequence diagram on the service configurations c) information flows d) procedures. | | | | | | | | |
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| ***Consequences if not approved:*** | | Incomplete specification for recording and replay feature. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Clauses affected:*** | | 10.18 (new), 10.18.1 (new), 10.18.1.1 - 10.18.1.5 (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:*** | | Note: A.X is defined in CR 585. | | | | | | | | |
|  | |  | | | | | | | | |
| ***This CR's revision history:*** | | Rev1:  -small wordsmithing in the first sentence under Figure 10.18.1.1-1  -removed all the “get updated…” information flows and made related updates to text in several sub-clauses and in Figure 10.18.1.5.2-1  -Table 10.18.1.4.3-1 updated – changed “Pointer to…” 🡪 “MCRec ID” | | | | | | | | |

\* \* \* \* First change \* \* \* \*

## 10.18 Recording and replay

### 10.18.1 Service configuration

#### 10.18.1.1 Service ID and user profile

A recording admin and/or replay user is identified by an MCRec ID. An MCRec ID is associated with one user profile. This is depicted in figure 10.18.1.1-1.



Figure 10.18.1.1-1: The relationship of MC service user, MCRec ID and Recording admin and replay service user profile

One MC service user (MC ID) may have one or zero MCRec ID.

An MC service user (MC ID), who is authorized to use recording admin and/or replay service, may be authorized to use also MC services (MCPTT, MCVideo, MCData). However, the MCRec ID cannot have the same value as the MC service IDs for the same MC service user.

The recording admin and/or replay service user profile is applicable only in the user’s home system. I.e. the user profile is not valid in a partner system even if the MC service user with active MC services would migrate.

#### 10.18.1.2 Recording admin service configuration

Depicted in figure 10.18.1.2-1 is a recording admin service configuration time sequence, representing the general lifecycle of a Recording admin UE using recording admin service.



Figure 10.18.1.2-1 Recording admin UE configuration time sequence and associated configuration data

The recording admin UE is provided with initial recording admin UE and/or replay UE configuration (see A.X) via a bootstrap procedure that provides the recording admin UE’s identity management client and configuration management client with critical information needed to connect to the MC system.

After user authentication and service authorization with IdMS (TS 33.180 clause 5.1.2) the CM client obtains the recording admin and/or replay user profile (A.Y) from the CMS (10.18.1.5.1).

The UE can now perform recording admin operations (set or modify target users and groups), see 10.18.2.

During the service the user may get notifications that its user profile has been updated. After a notification the CM client shall obtain the updated profile from CMS (10.18.1.5.2).

#### 10.18.1.3 Replay service configuration

Depicted in figure 10.18.1.3-1 is a replay service configuration time sequence, representing the general lifecycle of areplay UE using replay service.



Figure 10.18.1.3-1 Replay UE configuration time sequence and associated configuration data

The replay UE is provided with initial recording admin UE and/or replay UE configuration (see A.X) via a bootstrap procedure that provides the replay UE’s identity management client and configuration management client with critical information needed to connect to the MC system.

After user authentication and service authorization with IdMS (TS 33.180 clause 5.1.2) the CM client obtains the recording admin and/or replay user profile (A.Y) from the CMS (10.18.1.5.1).

The UE can now perform replay operations, see 10.18.4.

During the service the user may get notifications that its user profile has been updated. After a notification the CM client shall obtain the updated profile from CMS (10.18.1.5.2).

#### 10.18.1.4 Information flows for recording admin and replay user profiles

##### 10.18.1.4.1 Get recording admin and replay user profile request

Table 10.18.1.4.1-1 describes the information flow get recording admin and replay user profile request from the configuration management client to the configuration management server.

Table 10.18.1.4.1-1: Get recording admin and replay user profile request

|  |  |  |
| --- | --- | --- |
| Information element | Status | Description |
| MCRec ID | M | The MCRec ID of the recording admin and/or replay service user |

##### 10.18.1.4.2 Get recording admin and replay user profile response

Table 10.18.1.4.2-1 describes the information flow get recording admin and replay user profile response from the configuration management server to the configuration management client.

Table 10.18.1.4.2-1: Get recording admin and replay user profile response

|  |  |  |
| --- | --- | --- |
| Information element | Status | Description |
| Recording admin and/or replay user profile data | M | The recording admin and/or replay user profile (10.18.1.1, A.Y) associated with the MCRec ID provided in the associated get recording admin and replay user profile request. |

##### 10.18.1.4.3 Notification for recording admin and replay user profile update

Table 10.18.4.3-1 describes the information flow notification for recording admin and replay user profile update from the configuration management server to the configuration management client.

Table 10.18.1.4.3-1: Notification for recording admin and replay user profile update

|  |  |  |
| --- | --- | --- |
| Information element | Status | Description |
| MCRec ID | M | The service ID of the recording admin and/or replay service user whose profile has been updated. |

#### 10.18.1.5 Procedures for recording admin and replay user profiles

##### 10.18.1.5.1 Get recording admin and replay user profile

Pre-conditions:

- The recording admin and/or replay service user has performed user authentication with the identity management server.

- The UE has secure access to the configuration management server.



Figure 10.18.1.5.1-1: Recording admin and/or replay user obtains the user profile from the network

1. The configuration management client sends a get recording admin and replay user profile request message to the configuration management server, which includes the MCRec ID.

2. The configuration management server obtains the recording admin and replay user profile information.

3. The configuration management server sends get recording admin and replay user profile response message to the configuration management client.

##### 10.18.1.5.2 Get updated recording admin and replay user profile

Pre-conditions:

- The recording admin and/or replay service user has performed user authentication with the identity management server.

- The UE has secure access to the configuration management server.

- The UE has already obtained a recording admin and replay service user profile.



Figure 10.18.1.5.2-1: Recording admin and/or replay service user receives updated user profile from the CMS

1. The configuration management server obtains updated recording admin and/or replay service user profile.

2. The configuration management server sends a notification for recording admin and replay user profile update to the configuration management client.

3. The configuration management client sends get recording admin and replay user profile request to the configuration management server, which includes the MCRec ID.

4. The configuration management server sends get recording admin and replay user profile response to the configuration management client which includes the updated user profile.

\* \* \* \* End of changes \* \* \* \*