**3GPP TSG-SA WG6 Meeting #68S6-253424**

**Gothenburg, Sweden 25th – 29th August 2025 (revision of S6-253237)**

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| *CR-Form-v12.3* | | | | | | | | |
| **CHANGE REQUEST** | | | | | | | | |
|  | | | | | | | | |
|  | **23.280** | **CR** | **0679** | **rev** | **-** | **Current version:** | **20.0.0** |  |
|  | | | | | | | | |
| *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 |  |

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| ***Title:*** | MC service UE remote management – Disable procedure | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Source to WG:*** | Samsung, UK Home Office, BDBOS | | | | | | | | | |
| ***Source to TSG:*** | SA6 | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Work item code:*** | enhMC\_Ph2-MC | | | | |  | ***Date:*** | | | 2025-08-18 |
|  |  | | | |  | |  | | |  |
| ***Category:*** | **B** |  | | | | | ***Release:*** | | | Rel-20 |
|  | *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:*** | | 3GPP TS 22.280 has requirements related to remote management of MC service UE and which are not fulfilled in stage 2. Below are the requirements  [R-6.13.4-001] The MCX Service shall support suspending or disabling of access from an MCX UE or an MCX User to the MCX Service.  [R-6.13.4-003] The MCX Service shall provide a mechanism to temporarily disable an MCX UE remotely by the MCX Service Administrator or an authorized MCX User.  Also paper S6-252045 discussed in details about the need for having a standardized solution to address the stage 1 requirements.  This paper provides the solution for disabling the MC service UE temporarily by an authorized MC service user. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Summary of change:*** | | A new clause 8.1.x to add details about MC service UE identifer  A new clause 10.x to add the procedures for remote management (disable procedure)  A new clause 10.Y to add procedure for retrieving MC service ID binding information | | | | | | | | |
|  | |  | | | | | | | | |
| ***Consequences if not approved:*** | | This is an important feature which has market need and also clear Stage 1 requirements. If not approved, stage 1 requirements are not met which leads to incomplete specification. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Clauses affected:*** | |  | | | | | | | | |
|  | |  | | | | | | | | |
|  | | **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 \* \* \* \*

8.1.X MC service UE identifier

The MC service UE identifier is a unique identifier allows to distinguish between different MC service UEs in use by the same MC service ID. The MC service UE enables the authorized MC service user or MC service administrator to target certain MC service operations (e.g. Remote management, ambient listening, discreet listening) to a particular MC service UE when multiple MC service UEs in use by the same MC service user. MC service client shall share the MC service UE identifier to the MC service server while performing the MC service authorization. MC service server shall maintain the mapping of MC service IDs, MC service UE identifier and public GRUUs and this mapping is made available to the authorized MC service user when requested.

NOTE: The MC service UE identifier may be provided during initial MC service UE configuration, see clause A.6.

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

10.X Remote management of MC service UE

10.X.1 General

Remote management of MC service UE provides a mechanims for the MC service administrator or authorized MC service user to disable the MC service UE temporarily from accessing the MC services or to re-enable the MC service UE which is temporarily disabled. When the MC service UE is temporarily disabled, the MC service client logs off the current MC service user and performs only steps B-1 and B-2 to enter into limited service state as specified in clause 5.1.1 of 3GPP TS 33.180[25]. When the MC service UE is temporarily disabled and enters into the limited service state, the MC service server shall allow only the MC service UE re-enable operation. This subsclause describes the generic procedures for managing the MC service UE remotely.

10.X.2 Information flows

10.X.2.1 MC service UE disable request (MC service client – MC service server)

Table 10.X.2.1-1 describes the information flow MC service UE disable request from MC service client to an MC service server and from MC service server to the target MC service client.

**Table 10.X.2.1-1: MC service UE disable request**

|  |  |  |
| --- | --- | --- |
| **Information element** | **Status** | **Description** |
| MC service ID | M | The identity of the MC service user requesting to disable the MC service UE. |
| MC service ID | M | The identity of the MC service user whose MC service UE to be disabled |
| MC service UE identifier | M | Unique identifier to identity the target MC service UE that needs to be disabled. |

10.X.2.2 MC service UE disable response (MC service server – MC service client)

Table 10.X.2.2-1 describes the information flow MC service UE disable response from MC service server to requesting MC service client and from the target MC service client to the MC service server

**Table 10.X.2.2-1: MC service UE disable response**

|  |  |  |
| --- | --- | --- |
| **Information element** | **Status** | **Description** |
| MC service ID | M | Indicate the MC service ID of the target user whose device is being disabled. |
| Success result | O (see NOTE 1) | Indicates MC service UE disable request is successful and also indicates whether the disable request is delivered to the target MC service UE or not. |
| Failure result | O (see NOTE 1) | Indicates that MC service UE disable request is failure and the reason. |
| NOTE 1: Only one of these IE shall be present. | | |

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

10.X.3 Disabling MC service UE

Figure 10.X.3-1 below illustrates the procedure of disabling the MC service UE by authorized MC service user or MC service administrator.



**Figure 10.X.3-1: Disabling MC service UE by the authorized MC service user**

1. MC service client 1 of the authorized user retrieves the list of MC service UEs currently logged into by the target MC service user whose MC service UE has to be disabled by using the procedure specified in clause 10.Y and identifies the MC service UE and the corresponding binding information of the MC service UE that needs to be disabled.

2. MC service client 1 sends the request to the MC service server to disable the MC service UE of MC service client 2. This request shall include the MC service identity of the requesting MC service user, the MC service identity of the target user whose MC service UE has to be disabled and a unique identifier to identify the MC service UE which has to be disabled.

3. MC service server checks whether MC service client 1 is authorized to perform the MC service UE disable operation.

4. MC service server stores the information that the MC service UE identified by the identifier provided in step 2 is disabled. MC service server shall not allow the MC service client residing on the disabled UE to access the MC services. If the MC service UE disable request is not delivered to the target MC service client due to connectivity issues, the MC service server shall attempt to re-send the request on periodic basis or when the MC service client becomes online.

5. MC service server sends the MC service UE disable request to the particular MC service UE based on the UE identifier received in step 2.

6. MC service client 2 acknowledges the receipt of MC service UE disable request by sending the MC service UE disable response to the MC service server.

7. MC service client 2 logs off from the MC services automatically without user intervention.

8. MC service server sends the MC UE disable response to the MC service client which requested to disable the MC service UE.

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

10.Y MC service ID binding information

10.X.1 General

MC system may allow a MC service user to access the MC services from one or more MC service UEs simultaneously. MC service server manages the binding between MC service ID and the MC service UE identifiers. Whenever MC service user logged into or logged out from MC system this binding information is updated by the MC service server. The MC service server shall maintain the binding information even when the MC service user logged off and updates it if a different MC service user logs in from the same MC service UE. When this binding information is made available to the authorized MC service user or MC service administrator they can request the MC service server to target a particular MC service UE for certain MC service operations (e.g. Remote management of MC service UE, ambient listening call, discreet listening call). This subsclause describes the generic procedures for retrieval of the MC service ID binding information from the MC service server by the authorized MC service user.

10.Y.2 Information flows

10.Y.2.1 Retrieve MC service ID mapping request (MC service client – MC service server)

Table 10.Y.2.1-1 describes the information flow retrieve MC service ID mapping request from MC service client to an MC service server.

**Table 10.Y.2.1-1: Retrieve MC service ID mapping request**

|  |  |  |
| --- | --- | --- |
| **Information element** | **Status** | **Description** |
| MC service ID | M | The identity of the MC service user requesting to retrieve the mapping information of the particular MC service ID. |
| MC service ID | M | The identity of the MC service user whose mapping information is requested. |

10.Y.2.2 Retrieve MC service ID mapping response (MC service server – MC service client)

Table 10.Y.2.2-1 describes the information flow retrieve MC service ID mapping response from MC service server to requesting MC service client.

**Table 10.Y.2.2-1: Retrieve MC service ID mapping response**

|  |  |  |
| --- | --- | --- |
| **Information element** | **Status** | **Description** |
| Result | M | Indicates success or failure of the retrieve MC service ID mapping request. |
| MC service ID mapping information | O | This IE shall be present if the result is success. It contains the mapping information of the MC service ID which includes the list of MC service UE identifiers and the corresponding MC service UE labels and public GRUUs etc. |

10.Y.3 Retrieval of MC service ID mapping information

Figure 10.Y.3-1 below illustrates the procedure of retrieval of MC service ID mapping information by authorized MC service user or MC service administrator from the MC service server.



**Figure 10.Y.3-1: Retrieval of MC service ID mapping information**

1. MC service administrator or authorized MC service user from the MC service client requests the MC service server to return the binding information maintained for a particular MC Service user. This request carries the MC service ID of the MC service administrator or authorized MC service user, MC service ID of the target user whose mapping information is required.

2. MC Service server checks whether the requestor in step 1 is authorized to fetch the binding information of the target MC service user specified in the request. If authorized, the MC service server determines the mapping information pertaining to the MC service ID of the target user which it is maintaining internally.

3. MC service server returns either success or failure response. In case of success, the response includes binding information maintained for the target MC service User’s MC service ID as specified in Table 10.Y.2.2-1.