**3GPP TSG-SA WG6 Meeting #35 S6-200200**

**Hyderabad, India, 13th - 17th Jan 2020 (revision of S6-200127)**

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| *CR-Form-v12.0* |
| **CHANGE REQUEST** |
|  |
|  | **23.280** | **CR** | **0233** | **rev** | **1** | **Current version:** | **17.1.0** |  |
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| *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:***  | Add temporary group teardown within an MC system |
|  |  |
| ***Source to WG:*** | Huawei, Hisilicon |
| ***Source to TSG:*** | S6 |
|  |  |
| ***Work item code:*** | TEI17 |  | ***Date:*** | 2020-01-01 |
|  |  |  |  |  |
| ***Category:*** | **F** |  | ***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-12 (Release 12)**Rel-13 (Release 13)Rel-14 (Release 14)Rel-15 (Release 15)Rel-16 (Release 16)Rel-17 (Release 17)* |
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| ***Reason for change:*** | The temporary group teardown within an MC system is couple with 10.2.4.3 Temporary group tear down involving multiple group host servers.However, in clasue 10.2.4.3, the step 3 will not happen until step 5 that the MC service server receives the notify message, and the notification from GMS to GMC in step 6 and step 9 are still a box, which should be an notification defined in 10.2.2.10, and the notification response defined in 10.2.2.11. |
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| ***Summary of change:*** | 1) add a temporary group teardown within an MC system procedure2) update the figure 10.2.4.3-1 and the corresponding text in step 3, 5, 6, and 9.3) remove the NOTE in clause 10.2.4.3. |
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| ***Consequences if not approved:*** | Misunderstanding of downstream working groups |
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| ***Clauses affected:*** | 10.2.4.2a (new), 10.2.4.3 |
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|  | **Y** | **N** |  |  |
| ***Other specs*** |  | **N** |  Other core specifications  | TS/TR ... CR ...  |
| ***affected:*** |  | **N** |  Test specifications | TS/TR ... CR ...  |
| ***(show related CRs)*** |  | **N** |  O&M Specifications | TS/TR ... CR ...  |
|  |  |
| ***Other comments:*** |  |
|  |  |
| ***This CR's revision history:*** |  |

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

#### 10.2.4.2a Temporary group tear down within an MC system

Figure 10.2.4.2a-1 below illustrates the tearing down procedure of temporary group created through the group regroup operation. The procedure can be used when, e.g., the specific task for which the temporary group was created has been completed or a busier period occurs. For simplicity, only the teardown case for a temporary group with two MC service groups is represented. The procedure is applicable for more than two groups combined in this temporary group.

Pre-condition:

- The temporary group to be torn down is comprised of multiple MC service groups, and is created through the group regrouping procedure as described in subclause 10.2.4.1.



Figure 10.2.4.2a-1: Temporary group tear down within an MC system

1. The group management client of the MC service user requests group regroup teardown operation to the group management server (which is the group management server where the temporary group is created and stored). The identity of the temporary group (MC service group ID) being torn down shall be included in this message. This message may route through some other signalling nodes.

2. The group management server checks whether group regroup operation is performed by an authorized MC service user, based on group policy. The group management server checks whether the MC service group ID is a temporary group. If MC service group ID is not a temporary group, then the group regroup teardown request will be rejected, otherwise the group regroup teardown can proceed.

3. The group management server tears down the temporary group, i.e., remove the temporary group related information.

4. The group management server notifies the MC service server regarding the temporary group teardown.

5. Any active group call for the temporary group is preserved until it is completed.

6. The group management server notifies the affiliated MC service group members regarding the temporary group teardown by sending the group regroup teardown notification (6a) and receives a group regroup teardown notification response (6b) messages.

7. The group management server provides a group regroup teardown confirmation response to the group management client of the authorized MC service user.

\* \* \* 2nd Change \* \* \* \*

#### 10.2.4.3 Temporary group tear down involving multiple group host servers

Figure 10.2.4.3-1 below illustrates the tearing down procedure of temporary group created through the group regroup operation. The procedure can be used when, e.g., the specific task for which the temporary group was created has been completed or a busier period occurs. For simplicity, only the teardown case for a temporary group with two MC service groups is represented. The procedure is applicable for more than two groups combined in this temporary group.

Pre-conditions:

1. The security aspects of sharing the user information between primary and partner MC systems shall be governed as per the service provider agreement between them. In this case, it considers the partner MC system does not share their users' information to the primary MC system.

2. The primary MC system consists of the group management server 1 and MC service server (primary). The partner MC system consists of the group management server 2 and MC service server (partner).

3. The group management client of the authorized MC service user belongs to the primary MC system.

4. The temporary group to be torn down is comprised of multiple MC service groups, and is created through the group regrouping procedure as described in subclause 10.2.4.2.



Figure 10.2.4.3-1: Temporary group tear down

1. The group management client of the MC service user requests group regroup teardown operation to the group management server 1 (which is the group management server where the temporary group is created and stored). The identity of the temporary group (MC service group ID) being torn down shall be included in this message. This message may route through some other signalling nodes.

2. The group management server checks whether group regroup operation is performed by an authorized MC service user, based on group policy. The group management server 1 checks whether the MC service group ID is a temporary group. If MC service group ID is not a temporary group, then the group regroup teardown request will be rejected, otherwise the group regroup teardown can proceed.

3. The group management server 1 tears down the temporary group, i.e., remove the temporary group related information.

4. The group management server 1 notifies the primary MC service server regarding the temporary group teardown.

5preserved until it is

6. The group management server 1 notifies the affiliated MC service group members regarding the temporary group teardown by sending the group regroup teardown notification (6a) and receives a group regroup teardown notification response (6b) messages.

7. The group management server 1 sends a group regroup teardown notification (7a) and receives a group regroup teardown notification response (7b) messages with the group management server 2 – group management server in another MC system regarding the temporary group teardown.

8. The group management server 2 notifies the partner MC service server

9. The group management server 2 notifies the affiliated MC service group members regarding the temporary group teardown by sending the group regroup teardown notification (9a) and receives a group regroup teardown notification response (9b) messages. Any active group call for the temporary group is preserved until it is completed

10. The group management server 1 provides a group regroup teardown confirmation response to the group management client of the authorized MC service user.

\* \* \* 3rd Change \* \* \* \*