**3GPP TSG-SA WG6 Meeting #54-e S6-231134-R2**

**17th – 26th April 2023 (revision of S6-231134-R1)**

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| *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)*.* | | | | | | | | |
|  | | | | | | | | |

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| ***Proposed change affects:*** | UICC apps |  | ME | **X** | Radio Access Network |  | Core Network | **X** |

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | | | | | | | | | | |
| ***Title:*** |  | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Source to WG:*** | , AT&T, Nokia | | | | | | | | | |
| ***Source to TSG:*** |  | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Work item code:*** |  | | | | |  | ***Date:*** | | | 2023-04-17 |
|  |  | | | |  | |  | | |  |
| ***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:*** | | This CR is to align TS23.379 with TS23.280. During SA6 meeting 52 S6-230806 was agreed that added criteria to the preconfigured regroup request and associated procedure in TS23.280. This CR makes the same changes to TS23.379 so both TS’s are aligned. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Summary of change:*** | | An additional IE service user criteria, to the Preconfigured regroup request for the MC service client-MC service server and the MC service server-MC service server messages and updates the message flow. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Consequences if not approved:*** | | MCPTT will not have the same capability as MCData and MCVideo | | | | | | | | |
|  | |  | | | | | | | | |
| ***Clauses affected:*** | | 10.6.2.2.34, 10.6.2.10.2, and 10.6.2.12.2 | | | | | | | | |
|  | |  | | | | | | | | |
|  | | **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:*** | | Rev1 – Removed changes related to 10.6.2.9.2.1 amd added changes in 10.6.2.10.2 and 10.6.2.12.2. Added Note2 message in 10.6.2.2.34-1  Rev2 – Removed changes on changes, changed MC service to MCPTT | | | | | | | | |

\* \* \* 1st Change \* \* \* \*

##### 10.6.2.2.34 Preconfigured regroup request (MCPTT client – MCPTT server)

Table 10.6.2.2.34-1 describes the information flow preconfigured regroup request from the MCPTT client to the MCPTT server.

Table 10.6.2.2.34-1 Preconfigured regroup request information elements

|  |  |  |  |
| --- | --- | --- | --- |
| Information Element | Status | Description | |
| MCPTT ID | M | The MCPTT ID of the requester | |
| MCPTT group ID | O | MCPTT group ID of the regroup group | |
| MCPTT group ID | M | MCPTT group ID of the MCPTT group from which configuration is to be taken | |
| MCPTT group ID list | O  (see NOTE1) | List of MCPTT groups to be regrouped into the group regroup group | |
| MCPTT user ID list | O  (see NOTE1) | List of MCPTT users to be regrouped into the user regroup group | |
| Requested priority | O | Priority level requested for the call. | |
| MCPTT ~~service~~ user criteria | O  (see NOTE1, NOTE2) | | Carries the details of criteria which will be used by the MC service server for determining the participants. For example, it can be a location based criteria to determine the MCPTT ~~service~~ user ID list in a particular area, or it could be tags (e.g. “fire”, “medical”, “police”, etc.), or a combination of tags and location, which is left to implementation. |
| NOTE1: One and only one of these shall be present.  NOTE2: This information element is used only for the user regroup procedures | | | |

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

##### 10.6.2.10.2 Temporary group creation and broadcast group call by authorized user

Figure 10.6.2.10.2-1 below illustrates the temporary group creation, and optional broadcast call setup procedure and temporary group deletion initiated by an authorized user.

Pre-conditions:

1. The authorized user is aware of the MCPTT users who will be included in the temporary group.



Figure 10.6.2.10.2-1: User regroup using group creation procedure

1. The authorized user of MCPTT UE 1 makes use of the group management client of MCPTT UE 1 to create the temporary group according to the group creation procedure in 3GPP TS 23.280 [16] subclause 10.2.3. The configuration identifies the group as a temporary group. As part of this procedure, the MCPTT users are notified of their membership to the temporary group, and the MCPTT server is notified about the creation of the group and the list of group members. Alternatively, the MCPTT ~~service~~ client 1 can provide the criteria which allows the MCPTT ~~service~~ server to determine the list of MCPTT ~~service~~ users to be regrouped.

The authorized user can create the group as a broadcast group by configuring it as a broadcast group.

NOTE 1: After step 1 the temporary group can be used by all members of the group for two-way (non-broadcast) communication until deleted by an authorized user.

NOTE 2: The following two steps are optional and can be used for broadcast communication where only the creator of the temporary group is allowed to transmit media on this temporary group.

2. The creator of the temporary group, the authorized user of MCPTT UE 1, initiates a broadcast group call according to the procedure described in subclause 10.6.2.5.2 of the present document. The authorized user of MCPTT UE 1 is implicitly affiliated to the temporary group. The receiving MCPTT clients of MCPTT UEs 2 and 3 are implicitly affiliated to the group and are notified of this affiliation during the call setup.

3. The authorized user of MCPTT UE 1 ends the use of the temporary group according to the procedure for group deletion described in 3GPP TS 23.280 [16].

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

###### 10.6.2.12.2.1 User regroup formation in a single MCPTT system

Figure 10.6.2.12.2.1-1 illustrates the procedure to initiate a user regroup procedure using a preconfigured MCPTT group. The procedure takes place prior to the establishment of a group call to the MCPTT regroup group.

Pre-conditions:

- MCPTT clients 2 and 3 are registered with the MCPTT service.

- An MCPTT group that will be used for configuration of the temporary user regroup group has been preconfigured in MCPTT clients 2 and 3, and MCPTT clients 2 and 3 have received the relevant security related information to allow them to communicate in the temporary user regroup group.

- MCPTT client 1 is authorized to initiated a user regroup using the preconfigured regroup procedure.

- MCPTT client 1 is aware of a suitable preconfigured group whose configuration has been preconfigured in the MC service UEs of the MCPTT users who will be regrouped.



Figure 10.6.2.12.2.1-1: User regroup procedure using preconfigured group in single MCPTT system

1. The authorized user of MCPTT client 1 initiates the user regroup procedure, specifying the list of MCPTT users to be regrouped (MCPTT clients 2 and 3), the MCPTT group ID of the regroup group (if available), and the MCPTT group ID of the group from which configuration information for the regroup group is to be taken. Alternatively, the MCPTT ~~service~~ client 1 can provide the criteria which allows the MCPTT ~~service~~ server to determine the list of MCPTT ~~service~~ users to be regrouped.

2. MCPTT client 1 sends the preconfigured regroup request to the MCPTT server. The request indicates the list of users to be included in the regroup operation.

3. The MCPTT server checks that MCPTT client 1 is authorized to initiate a preconfigured regroup procedure. If the preconfigured regroup request is authorized, the MCPTT server assigns a MCPTT group ID for this regroup group call if:

i. one is not provided in the request or

ii. the one provided in the request is not accepted.

NOTE 1: MCPTT clients can be involved in multiple user and group regroups simultaneously.

4. The MCPTT server shall send the preconfigured regroup request return message to MCPTT client 1 containing the below:

i. the MCPTT group ID is generated by the MCPTT server; and

ii. result of whether the ad hoc group call is authorized or not

If the preconfigured regroup request is not authorized, MCPTT client 1 shall not proceed with the rest of the steps.

5. The MCPTT server sends the preconfigured regroup requests to MCPTT clients 2 and 3 in steps 4a and 4b respectively.

NOTE 2: When using multicast, the MCPTT server can periodically rebroadcast the preconfigured regroup request.

6. MCPTT clients 2 and 3 notify their users of the regrouping in steps 5a and 5b respectively.

7. MCPTT clients 2 and 3 may send the preconfigured regroup response to the MCPTT server to acknowledge the regrouping action. These acknowledgements are not sent in response to a multicast transmission of the preconfigured regroup request.

8. The MCPTT server affiliates the regrouped MCPTT clients to the regroup group.

9. The MCPTT server sends a preconfigured regroup response to MCPTT client 1.

NOTE 3: After the user regrouping procedure, the regrouping remains in effect until explicitly cancelled by the procedure in 10.6.2.12.2.2.