**3GPP TSG-CT WG1 Meeting #126-eC1-206416**

**Electronic meeting, 15-23 October 2020 was C1-20xxxx**

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| *CR-Form-v12.0* | | | | | | | | |
| **CHANGE REQUEST** | | | | | | | | |
|  | | | | | | | | |
|  | **24.379** | **CR** | **0653** | **rev** | **1** | **Current version:** | **17.0.0** |  |
|  | | | | | | | | |
| *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 | **X** |

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| ***Title:*** | Corrected the functionalAliasID and group refered as element instead of attribute. | | | | | | | | | |
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| ***Source to WG:*** | Samsung | | | | | | | | | |
| ***Source to TSG:*** | C1 | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Work item code:*** | MCProtoc17 | | | | |  | ***Date:*** | | | 2020-09-24 |
|  |  | | | |  | |  | | |  |
| ***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 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-12 (Release 12)* *Rel-13 (Release 13) Rel-14 (Release 14) Rel-15 (Release 15) Rel-16 (Release 16)* | |
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| ***Reason for change:*** | | In subclause 9A.2.2.2.3, the attribute ‘functionalAliasID’ incorrectly refered as element. | | | | | | | | |
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| ***Summary of change:*** | | In subclause 9A.2.2.2.3, the ‘functionalAliasID’ refered correctly as attribute | | | | | | | | |
|  | |  | | | | | | | | |
| ***Consequences if not approved:*** | | Leads to inconsitency on type of the field is. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Clauses affected:*** | | 9A.2.2.2.3 | | | | | | | | |
|  | |  | | | | | | | | |
|  | | **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:*** | | Rev 1:  Checked CN box and text in 12) c) is formatted properly.  Updated the title and added new subclause 9.2.2.2.3 step 14) a) iii), where group is refered as element instead of attribute. | | | | | | | | |

\* \* \* \* \* \* \* FIRST CHANGE \* \* \* \* \* \* \*

##### 9A.2.2.2.3 Receiving functional alias status change from MCPTT client procedure

Upon receiving a SIP PUBLISH request such that:

1) Request-URI of the SIP PUBLISH request contains either the public service identity identifying the originating participating MCPTT function serving the MCPTT user, or the public service identity identifying the terminating participating MCPTT function serving the MCPTT user;

2) the SIP PUBLISH request contains an application/vnd.3gpp.mcptt-info+xml MIME body containing the<mcptt-request-uri> element which identifies an MCPTT ID served by the MCPTT server;

3) the ICSI value "urn:urn-7:3gpp-service.ims.icsi.mcptt" (coded as specified in 3GPP TS 24.229 [4]), in a P-Asserted-Service header field according to IETF RFC 6050 [9];

4) the Event header field of the SIP PUBLISH request contains the "presence" event type; and

5) SIP PUBLISH request contains an application/pidf+xml MIME body indicating per-user functional alias information according to subclause 9A.3.1;

then the MCPTT server:

1) shall identify the served MCPTT ID in the <mcptt-request-uri> element of the application/vnd.3gpp.mcptt-info+xml MIME body of the SIP PUBLISH request;

2) if the Request-URI of the SIP PUBLISH request contains the public service identity identifying the originating participating MCPTT function serving the MCPTT user, shall identify the originating MCPTT ID from public user identity in the P-Asserted-Identity header field of the SIP PUBLISH request;

3) if the Request-URI of the SIP PUBLISH request contains the public service identity identifying the terminating participating MCPTT function serving the MCPTT user, shall identify the originating MCPTT ID in the <mcptt-calling-user-id> element of the application/vnd.3gpp.mcptt-info+xml MIME body of the SIP PUBLISH request;

4) if the originating MCPTT ID is different than the served MCPTT ID or the originating MCPTT ID is not authorized to modify functional alias status of the served MCPTT ID, shall send a SIP 403 (Forbidden) response and shall not continue with the rest of the steps;

5) if the Expires header field of the SIP PUBLISH request is not included or has nonzero value lower than 4294967295, shall send a SIP 423 (Interval Too Brief) response to the SIP PUBLISH request, where the SIP 423 (Interval Too Brief) response contains a Min-Expires header field set to 4294967295, and shall not continue with the rest of the steps;

6) if the Expires header field of the SIP PUBLISH request has nonzero value, shall determine the candidate expiration interval to according to IETF RFC 3903 [37];

7) if the Expires header field of the SIP PUBLISH request has zero value, shall set the candidate expiration interval to zero;

8) shall respond with SIP 200 (OK) response to the SIP PUBLISH request according to 3GPP TS 24.229 [4], IETF RFC 3903 [37]. In the SIP 200 (OK) response, the MCPTT server:

a) shall set the Expires header field according to IETF RFC 3903 [37], to the candidate expiration time;

9) if the "entity" attribute of the <presence> element of the application/pidf+xml MIME body of the SIP PUBLISH request is different than the served MCPTT ID, shall not continue with the rest of the steps;

10) shall consider an MCPTT user information entry such that:

a) the MCPTT user information entry is in the list of MCPTT user information entries described in subclause 9A.2.2.2.2; and

b) the MCPTT ID of the MCPTT user information entry is equal to the served MCPTT ID;

as the served MCPTT user information entry;

11) shall consider a copy of the list of the MCPTT functional alias entries of the served MCPTT user information entry as the served list of the MCPTT functional alias information entries;

12) if the candidate expiration interval is nonzero, shall construct the candidate list of the MCPTT functional alias entries as follows:

a) for each functional alias ID which has a functional alias information entry in the served list of the functional alias information entries, such that the expiration time of the functional alias information entry has not expired yet, and which is indicated in a "functionalAliasID" attribute of a <functionalAlias> element of the <status> element of the <tuple> element of the <presence> root element of the application/pidf+xml MIME body of the SIP PUBLISH request:

i) shall copy the functional alias information entry into a new functional alias information entry of the candidate list of the functional alias information entries;

ii) if the functional alias status of the functional alias information entry is "deactivating" or "deactivated", shall set the functional alias status of the new functional alias information entry to the "activated" state and shall reset the activating p-id-fa of the new functional alias information entry; and

iii) shall set the expiration time of the new functional alias information entry to the current time increased with the candidate expiration interval;

b) for each functional alias ID which has a functional alias information entry in the served list of the functional alias information entries, such that the expiration time of the functional alias information entry has not expired yet, and which is not indicated in any "functionalAliasID" attribute of the <functionalAlias> element of the <status> element of the <tuple> element of the <presence> root element of the application/pidf+xml MIME body of the SIP PUBLISH request:

i) shall copy the functional alias information entry into a new functional alias information entry of the candidate list of the functional alias information entries; and

ii) if the functional alias status of the functional alias information entry is "activated" or "activating":

- shall set the functional alias status of the new functional alias entry to the "deactivating" state; and

- shall set the expiration time of the new functional alias information entry to the current time increased with twice the value of timer F; and

c) for each functional alias ID:

i) which does not have a functional alias information entry in the served list of the functional alias entries; or

ii) which has a functional alias information entry in the served list of the functional alias information entries, such that the expiration time of the functional alias information entry has already expired;

and which is indicated in a "functionalAliasID" attribute of the <functionalAlias> element of the <status> element of the <tuple> element of the <presence> root element of the application/pidf+xml MIME body of the SIP PUBLISH request:

i) shall add a new functional alias information entry in the candidate list of the functional alias information list for the functional alias ID;

ii) shall set the functional alias status of the new functional alias information entry to the "activating" state;

iii) shall set the expiration time of the new functional alias information entry to the current time increased with the candidate expiration interval; and

iv) shall reset the activating p-id-fa of the new functional alias information entry;

13) if the candidate expiration interval is zero, constructs the candidate list of the functional alias information entries as follows:

a) for each functional alias ID which has an entry in the served list of the functional alias information entries:

i) shall copy the functional alias entry of the served list of the functional alias information into a new functional alias information entry of the candidate list of the functional alias information entries;

ii) shall set the functional alias status of the new functional alias information entry to the "deactivating" state; and

iii) shall set the expiration time of the new functional alias information entry to the current time increased with twice the value of timer F;

14) shall replace the list of the functional alias information entries stored in the served MCPTT user information entry with the candidate list of the functional alias information entries;

15) shall perform the procedures specified in subclause 9A.2.2.2.6 for the served MCPTT ID and each functional alias:

a) which does not have a functional alias information entry in the served list of the functional alias information entries and which has a functional alias information entry in the candidate list of the functional alias information entries with the functional alias status set to the "activating" state;

b) which has a functional alias information entry in the served list of the functional alias information entries with the expiration time already expired, and which has a functional alias information entry in the candidate list of the functional alias information entries with the functional alias status set to the "activating" state;

c) which has a functional alias information entry in the served list of the functional alias information entries with the functional alias status set to the "deactivating" state or the "deactivated" state and with the expiration time not expired yet, and which has an functional alias information entry in the candidate list of the functional alias information entries with the functional alias status set to the "activating" state; or

d) which has a functional alias information entry in the served list of the functional alias information entries with the functional alias status set to the "activated" state and with the expiration time not expired yet, and which has an functional alias information entry in the candidate list of the functional alias information entries with the functional alias status set to the "deactivating" state;

16) shall identify the handled p-id-fa in the <p-id-fa> child element of the <presence> root element of the application/pidf+xml MIME body of the SIP PUBLISH request; and

17) shall perform the procedures specified in subclause 9A.2.2.2.5 for the served MCPTT ID.

\* \* \* \* \* \* \* NEXT CHANGES \* \* \* \* \* \* \*

##### 9.2.2.2.3 Receiving affiliation status change from MCPTT client procedure

Upon receiving a SIP PUBLISH request such that:

1) Request-URI of the SIP PUBLISH request contains either the public service identity identifying the originating participating MCPTT function serving the MCPTT user, or the public service identity identifying the terminating participating MCPTT function serving the MCPTT user;

2) the SIP PUBLISH request contains an application/vnd.3gpp.mcptt-info+xml MIME body containing the<mcptt-request-uri> element which identifies an MCPTT ID served by the MCPTT server;

3) the ICSI value "urn:urn-7:3gpp-service.ims.icsi.mcptt" (coded as specified in 3GPP TS 24.229 [4]), in a P-Asserted-Service header field according to IETF RFC 6050 [9];

4) the Event header field of the SIP PUBLISH request contains the "presence" event type; and

5) SIP PUBLISH request contains an application/pidf+xml MIME body indicating per-user affiliation information according to subclause 9.3.1;

then the MCPTT server:

1) shall identify the served MCPTT ID in the <mcptt-request-uri> element of the application/vnd.3gpp.mcptt-info+xml MIME body of the SIP PUBLISH request;

2) if the Request-URI of the SIP PUBLISH request contains the public service identity identifying the originating participating MCPTT function serving the MCPTT user, shall identify the originating MCPTT ID from public user identity in the P-Asserted-Identity header field of the SIP PUBLISH request;

3) if the Request-URI of the SIP PUBLISH request contains the public service identity identifying the terminating participating MCPTT function serving the MCPTT user, shall identify the originating MCPTT ID in the <mcptt-calling-user-id> element of the application/vnd.3gpp.mcptt-info+xml MIME body of the SIP PUBLISH request;

4) if the originating MCPTT ID is different than the served MCPTT ID and the originating MCPTT ID is not authorized to modify affiliation status of the served MCPTT ID, shall send a 403 (Forbidden) response and shall not continue with the rest of the steps;

5) if the Expires header field of the SIP PUBLISH request is not included or has nonzero value lower than 4294967295, shall send a SIP 423 (Interval Too Brief) response to the SIP PUBLISH request, where the SIP 423 (Interval Too Brief) response contains a Min-Expires header field set to 4294967295, and shall not continue with the rest of the steps;

6) if the Expires header field of the SIP PUBLISH request has nonzero value, shall determine the candidate expiration interval to according to IETF RFC 3903 [37];

7) if the Expires header field of the SIP PUBLISH request has zero value, shall set the candidate expiration interval to zero;

8) shall respond with SIP 200 (OK) response to the SIP PUBLISH request according to 3GPP TS 24.229 [4], IETF RFC 3903 [37]. In the SIP 200 (OK) response, the MCPTT server:

a) shall set the Expires header field according to IETF RFC 3903 [37], to the candidate expiration time;

9) if the "entity" attribute of the <presence> element of the application/pidf+xml MIME body of the SIP PUBLISH request is different than the served MCPTT ID, shall not continue with the rest of the steps;

10) shall identify the served MCPTT client ID in the "id" attribute of the <tuple> element of the <presence> element of the application/pidf+xml MIME body of the SIP PUBLISH request;

11) shall consider an MCPTT user information entry such that:

a) the MCPTT user information entry is in the list of MCPTT user information entries described in subclause 9.2.2.2.2; and

b) the MCPTT ID of the MCPTT user information entry is equal to the served MCPTT ID;

as the served MCPTT user information entry;

12) shall consider an MCPTT client information entry such that:

a) the MCPTT client information entry is in the list of MCPTT client information entries of the served MCPTT user information entry; and

b) the MCPTT client ID of the MCPTT client information entry is equal to the served MCPTT client ID;

as the served MCPTT client information entry;

13) shall consider a copy of the list of the MCPTT group information entries of the served MCPTT client information entry as the served list of the MCPTT group information entries;

14) if the candidate expiration interval is nonzero:

a) shall construct the candidate list of the MCPTT group information entries as follows:

i) for each MCPTT group ID which has an MCPTT group information entry in the served list of the MCPTT group information entries, such that the expiration time of the MCPTT group information entry has not expired yet, and which is indicated in a "group" attribute of an <affiliation> element of the <status> element of the <tuple> element of the <presence> root element of the application/pidf+xml MIME body of the SIP PUBLISH request:

A) shall copy the MCPTT group information entry into a new MCPTT group information entry of the candidate list of the MCPTT group information entries;

B) if the affiliation status of the MCPTT group information entry is "deaffiliating" or "deaffiliated", shall set the affiliation status of the new MCPTT group information entry to the "affiliating" state and shall set the affiliating p-id of the new MCPTT group information entry to the value of the <p-id-fa> element of the <presence> root element of the application/pidf+xml MIME body of the SIP PUBLISH request; and

C) shall set the expiration time of the new MCPTT group information entry to the current time increased with the candidate expiration interval;

ii) for each MCPTT group ID which has an MCPTT group information entry in the served list of the MCPTT group information entries, such that the expiration time of the MCPTT group information entry has not expired yet, and which is not indicated in any "group" attribute of the <affiliation> element of the <status> element of the <tuple> element of the <presence> root element of the application/pidf+xml MIME body of the SIP PUBLISH request:

A) shall copy the MCPTT group information entry into a new MCPTT group information entry of the candidate list of the MCPTT group information entries; and

B) if the affiliation status of the MCPTT group information entry is "affiliated" or "affiliating":

- shall set the affiliation status of the new MCPTT group information entry to the "de-affiliating" state; and

- shall set the expiration time of the new MCPTT group information entry to the current time increased with twice the value of timer F; and

iii) for each MCPTT group ID:

A) which does not have an MCPTT group information entry in the served list of the MCPTT group information entries; or

B) which has an MCPTT group information entry in the served list of the MCPTT group information entries, such that the expiration time of the MCPTT group information entry has already expired;

and which is indicated in a "group" attribute of the <affiliation> element of the <status> element of the <tuple> element of the <presence> root element of the application/pidf+xml MIME body of the SIP PUBLISH request:

A) shall add a new MCPTT group information entry in the candidate list of the MCPTT group information list for the MCPTT group ID;

B) shall set the affiliation status of the new MCPTT group information entry to the "affiliating" state;

C) shall set the expiration time of the new MCPTT group information entry to the current time increased with the candidate expiration interval; and

D) shall set the affiliating p-id of the new MCPTT group information entry to the value of the <p-id > element of the <presence> root element of the application/pidf+xml MIME body of the SIP PUBLISH request;

b) determine the candidate number of MCPTT group IDs as number of different MCPTT group IDs which have an MCPTT group information entry:

i) in the candidate list of the MCPTT group information entries; or

ii) in the list of the MCPTT group information entries of an MCPTT client information entry such that:

A) the MCPTT client information entry is in the list of the MCPTT client information entries of the served MCPTT user information entry; and

B) the MCPTT client ID of the MCPTT client information entry is not equal to the served MCPTT client ID;

with the affiliation status set to the "affiliating" state or the "affiliated" state and with the expiration time which has not expired yet; and

c) if the candidate number of MCPTT group IDs is bigger than N2 value of the served MCPTT ID, shall based on MCPTT service provider policy reduce the candidate MCPTT group IDs to that equal to N2;

NOTE: The MCPTT service provider policy can determine to remove an MCPTT group ID based on the order it appeared in the PUBLISH request or based on the importance or priority of the MCPTT group or some other policy to determine which MCPTT groups are preferred.

15) if the candidate expiration interval is zero, constructs the candidate list of the MCPTT group information entries as follows:

a) for each MCPTT group ID which has an entry in the served list of the MCPTT group information entries:

i) shall copy the MCPTT group entry of the served list of the MCPTT group information into a new MCPTT group information entry of the candidate list of the MCPTT group information entries;

ii) shall set the affiliation status of the new MCPTT group information entry to the "de-affiliating" state; and

iii) shall set the expiration time of the new MCPTT group information entry to the current time increased with twice the value of timer F;

16) shall replace the list of the MCPTT group information entries stored in the served MCPTT client information entry with the candidate list of the MCPTT group information entries;

17) shall perform the procedures specified in subclause 9.2.2.2.6 for the served MCPTT ID and each MCPTT group ID:

a) which does not have an MCPTT group information entry in the served list of the MCPTT group information entries and which has an MCPTT group information entry in the candidate list of the MCPTT group information entries with the affiliation status set to the "affiliating" state;

b) which has an MCPTT group information entry in the served list of the MCPTT group information entries with the expiration time already expired, and which has an MCPTT group information entry in the candidate list of the MCPTT group information entries with the affiliation status set to the "affiliating" state;

c) which has an MCPTT group information entry in the served list of the MCPTT group information entries with the affiliation status set to the "deaffiliating" state or the "deaffiliated" state and with the expiration time not expired yet, and which has an MCPTT group information entry in the candidate list of the MCPTT group information entries with the affiliation status set to the "affiliating" state; or

d) which has an MCPTT group information entry in the served list of the MCPTT group information entries with the affiliation status set to the "affiliated" state and with the expiration time not expired yet, and which has an MCPTT group information entry in the candidate list of the MCPTT group information entries with the affiliation status set to the "de-affiliating" state;

18) shall identify the handled p-id in the <p-id> child element of the <presence> root element of the application/pidf+xml MIME body of the SIP PUBLISH request; and

19) shall perform the procedures specified in subclause 9.2.2.2.5 for the served MCPTT ID.

\* \* \* \* \* \* \* END CHANGES \* \* \* \* \* \* \*