**3GPP TSG-CT WG1 Meeting #134-eC1-223918**

**E-Meeting, 17th – 25th February 2022**

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| *CR-Form-v12.1* |
| **CHANGE REQUEST** |
|  |
|  | **24.379** | **CR** | 0825 | **rev** | 1 | **Current version:** | **17.6.0** |  |
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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 |  | Radio Access Network |  | Core Network | **X** |

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| ***Title:***  | Support preventing of de-affiliating for certain FAs |
|  |  |
| ***Source to WG:*** | Nokia, Nokia Shanghai Bell |
| ***Source to TSG:*** | C1 |
|  |  |
| ***Work item code:*** | eMONASTERY2 |  | ***Date:*** | 2022-01-10 |
|  |  |  |  |  |
| ***Category:*** | B |  | ***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-15 (Release 15)Rel-16 (Release 16)Rel-17 (Release 17)Rel-18 (Release 18)* |
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| ***Reason for change:*** | TS 23.280 specifies as part of affiliation an extra authorization check based on the FA, to implement stage 1 requirements 3GPP TS 22.280 [R-6.4.4-003] and [R-6.4.4-004]." The authorisation check includes whether the MC service user has activated a certain functional alias which prevents de-affiliating or whether the MC service user is the last user who has bound a certain functional alias to the group which also prevents de-affiliating."In particular, a mechanism is introduced that based on group configuration may prevent de-affiliation when using a specific functional alias(es). |
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| ***Summary of change:*** | Add an extra check at server side preventing (de-)affiliation procedure based on the used functional alias and/or if it the last user(as per group configuration). |
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| ***Consequences if not approved:*** | Deaffiliation cannot be blocked based on the FA. |
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| ***Clauses affected:*** | 9.2.2.3.3 |
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|  | **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:*** |  |

1st change

##### 9.2.2.3.3 Receiving group affiliation status change procedure

Upon receiving a SIP PUBLISH request such that:

1) Request-URI of the SIP PUBLISH request contains the public service identity of the controlling MCPTT function associated with the served MCPTT group;

2) the SIP PUBLISH request contains an application/vnd.3gpp.mcptt-info+xml MIME body containing the <mcptt-request-uri> element and the <mcptt-calling-user-id> element;

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-group affiliation information constructed according to clause 9.3.1.2;

then the MCPTT server:

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

2) shall identify the handled MCPTT ID in the <mcptt-calling-user-id> element of the application/vnd.3gpp.mcptt-info+xml MIME body of the SIP PUBLISH request;

3) 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;

4) if an MCPTT group for the served MCPTT group ID does not exist in the group management server according to 3GPP TS 24.481 [31], shall reject the SIP PUBLISH request with SIP 403 (Forbidden) response to the SIP PUBLISH request according to 3GPP TS 24.229 [4], IETF RFC 3903 [37] and IETF RFC 3856 [51] and skip the rest of the steps;

5) if the handled MCPTT ID is not a member of the MCPTT group identified by the served MCPTT group ID, shall reject the SIP PUBLISH request with SIP 403 (Forbidden) response to the SIP PUBLISH request according to 3GPP TS 24.229 [4], IETF RFC 3903 [37] and IETF RFC 3856 [51] and skip the rest of the steps;

6) 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 selected expiration time;

7) 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 group ID, shall not continue with the rest of the steps;

8) if the handled MCPTT ID is different from the MCPTT ID in the "id" attribute of the <tuple> element of the <presence> root element of the application/pidf+xml MIME body of the SIP PUBLISH request, shall not continue with the rest of the steps;

9) shall consider an MCPTT group information entry such that:

a) the MCPTT group information entry is in the list of MCPTT group information entries described in clause 9.2.2.3.2; and

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

 as the served MCPTT group information entry;

10) if the selected expiration time is zero:

a0) if the MCPTT group identity configuration for the served MCPTT group ID found in the group management server according to 3GPP TS 24.481 [31] contains:

i) a <forbidden-deaffiliation-FAs> element and the handled MCPTT ID has activated a functional alias that matches with one of the <entry> elements of the <forbidden-deaffiliation-FAs> element; or

ii) a <forbidden-deaffiliation-if-last-FAs> element and the handled MCPTT ID has activated a functional alias that matches with one of the <entry> elements of the <forbidden-deaffiliation-if-last-FAs> element and corresponds to the last user that has bound the functional alias to the served MCPTT group ID;

 shall reject the SIP PUBLISH request with SIP 403 (Forbidden) response to the SIP PUBLISH request according to 3GPP TS 24.229 [4], IETF RFC 3903 [37] and IETF RFC 3856 [51] and skip the rest of the steps;

NOTE: The MCPTT server learns the functional aliases that are activated for an MCPTT ID from procedures specified in clause 9A.2.2.2.7.

a) shall remove the MCPTT user information entry such that:

i) the MCPTT user information entry is in the list of the MCPTT user information entries of the served MCPTT group information entry; and

ii) the MCPTT user information entry has the MCPTT ID set to the served MCPTT ID;

11) if the selected expiration time is not zero:

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

i) the MCPTT user information entry is in the list of the MCPTT user information entries of the served MCPTT group information entry; and

ii) the MCPTT ID of the MCPTT user information entry is equal to the handled MCPTT ID;

 as the served MCPTT user information entry;

b) if the MCPTT user information entry does not exist:

i) shall insert an MCPTT user information entry with the MCPTT ID set to the handled MCPTT ID into the list of the MCPTT user information entries of the served MCPTT group information entry; and

ii) shall consider the inserted MCPTT user information entry as the served MCPTT user information entry; and

c) shall set the following information in the served MCPTT user information entry:

i) set the MCPTT client ID list according to the "client" attributes of the <affiliation> elements 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; and

ii) set the expiration time according to the selected expiration time;

12) 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

13) shall perform the procedures specified in clause 9.2.2.3.5 for the served MCPTT group ID.

End of changes