**3GPP TSG-CT WG1 Meeting #124-eC1-20wxyz**

**Electronic meeting, 2-10 June 2020**

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| *CR-Form-v12.0* |
| **CHANGE REQUEST** |
|  |
|  | **24.379** | **CR** | **CR#** | **rev** | **-** | **Current version:** | **16.4.0** |  |
|  |
| *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 |  | Radio Access Network |  | Core Network | **X** |

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| ***Title:***  | Group document definitions for preconfigured regroup |
|  |  |
| ***Source to WG:*** | FirstNet |
| ***Source to TSG:*** | C1 |
|  |  |
| ***Work item code:*** | MCProtoc16  |  | ***Date:*** | 2 June 2020 |
|  |  |  |  |  |
| ***Category:*** | **F** |  | ***Release:*** | Rel-16 |
|  | *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)* |
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| ***Reason for change:*** | The use of "group document" throughout 24.379 does not take into account regroups based on a preconfigured group. |
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| ***Summary of change:*** | Definitions are added to extend the concept of "group document" in its various uses in TS 24.379. |
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| ***Consequences if not approved:*** | Incorrect implementations due to the use of an incorrect group document in some procedures. |
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| ***Clauses affected:*** | 3.1 |
|  |  |
|  | **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 \* \* \* \* \***

## 3.1 Definitions

For the purposes of the present document, the terms and definitions given in 3GPP TR 21.905 [1] and the following apply. A term defined in the present document takes precedence over the definition of the same term, if any, in 3GPP TR 21.905 [1].

**An MCPTT user is affiliated to an MCPTT group**: The MCPTT user is listed as a member of the MCPTT group in the MCPTT group document, the MCPTT server owning the MCPTT group has authorised the MCPTT user's interest in the MCPTT group and the MCPTT server serving the MCPTT user has authorised the MCPTT user's interest in the MCPTT group.

**An MCPTT user is affiliated to an MCPTT group at an MCPTT client**: The MCPTT user is affiliated to the MCPTT group, the MCPTT client has a registered IP address for an IMPU related to the MCPTT ID, and the MCPTT server serving the MCPTT user has authorised the MCPTT user's interest in the MCPTT group at the MCPTT client.

**Affiliation status**: Applies for an MCPTT user to an MCPTT group and has one of the following states:

a) the "not-affiliated" state indicating that the MCPTT user is not interested in the MCPTT group and the MCPTT user is not affiliated to the MCPTT group;

b) the "affiliating" state indicating that the MCPTT user is interested in the MCPTT group but the MCPTT user is not affiliated to the MCPTT group yet;

c) the "affiliated" state indicating that the MCPTT user is affiliated to the MCPTT group and there was no indication that MCPTT user is no longer interested in the MCPTT group; and

d) the "deaffiliating" state indicating that the MCPTT user is no longer interested in the MCPTT group but the MCPTT user is still affiliated to the MCPTT group.

**Ambient listening call:** a call typeallowing an authorized MCPTT user to cause an MCPTT client to initiate a communication which results in no indication on the MCPTT UE that it is transmitting. Ambient listening can be initiated by an authorized MCPTT user who wants to be listened to by another authorized MCPTT user or can be initiated by an authorized MCPTT user who wants to listen to another MCPTT user.

**Ambient listening client role:** the role of an MCPTT client in an ambient listening call, which can be that of:

a) the "listening MCPTT user"; or

b) the "listened-to MCPTT user".

**Ambient listening type:** the type of an ambient listening call from the perspective of the relationship of the initiator of the call to the user being listened to. The two types of ambient listening call are:

a) "remote-init", indicating that the listening MCPTT user initiated the call; and

b) "local-init", indicating that the listened-to MCPTT user initiated the call.

**First-to-answer call:** A call initiated by one user towards a list of other users with the intention to establish an MCPTT private call or MCPTT emergency private call, with one of the users in the list of users.

**Group document:** when the group document as specified in 3GPP TS 24.481 [31] exists within the GMS for a group, the term "group document" in the clauses of the present document refers to that document; when the group is a regroup based on a preconfigured group, the group document for the regroup based on a preconfigured group is the group document for the preconfigured group as specified in 3GPP TS 24.481 [31], plus the list of users or groups that are to be included in the regroup at the time of the regroup creation. This includes:

- the use of the list of users specified in the creation of a user regroup based on a preconfigured group as the users who are to be included in a user regroup, along with all of the information for those specific users contained in the group document for the preconfigured group; and

- the use of the list of groups specified in the creation of a group regroup based on a preconfigured group as the groups that are to be included as constituent groups in the group regroup.

**Group identity**: An MCPTT group identity or a temporary MCPTT group identity.

**In-progress emergency private call state:** the state of two participants when an MCPTT emergency private call is in progress.

**In-progress imminent peril group state:** the state of a group when an MCPTT imminent peril group call is in progress.

**Listening MCPTT user:** the MCPTT user in an ambient listening call receiving the media transmission from the listened-to MCPTT user;

**Listened-to MCPTT user:** the MCPTT user in an ambient listening call who is being listened to, may or may not be aware of being listened to depending on ambient listening type of the call.

**MCPTT client ID:** is a globally unique identification of a specific MCPTT client instance. MCPTT client ID is a UUID URN as specified in IETF RFC 4122 [67].

**MCPTT emergency alert state:** MCPTT client internal perspective of the state of an MCPTT emergency alert.

**MCPTT emergency group state:** MCPTT client internal perspective of the in-progress emergency state of an MCPTT group maintained by the controlling MCPTT function.

**MCPTT emergency group call state:** MCPTT client internal perspective of the state of an MCPTT emergency group call.

**MCPTT emergency private call:** MCPTT emergency call between two MCPTT users that is initiated as a private call or a first-to-answer call with emergency indication, or without emergency indication when the MCPTT emergency state is already set,

**MCPTT emergency private call state:** MCPTT client internal perspective of the state of an MCPTT emergency private call.

**MCPTT emergency private priority state:** MCPTT client internal perspective of the in-progress emergency private call state of the two participants of an MCPTT emergency private call maintained by the controlling MCPTT function.

**MCPTT imminent peril group call state:** MCPTT client internal perspective of the state of an MCPTT imminent peril group call.

**MCPTT imminent peril group state:** MCPTT client internal perspective of the state of an MCPTT imminent peril group.

**MCPTT private call:** MCPTT call between two MCPTT users that is initiated as a private call or a first-to-answer call.

**MCPTT private emergency alert state:** MCPTT client internal perspective of the state of an MCPTT private emergency alert targeted to an MCPTT user.

**MCPTT speech:** Conversational audio media used in mission critical push to talk systems as defined by 3GPP TS 22.179 [2] and 3GPP TS 23.379 [3].

**Media-floor control entity**: A media control resource shared by participants in an MCPTT session, controlled by a state machine to ensure that only one participant can access the media resource at the same time.

**Private call:** A call initiated by one user towards one other user with the intention to establish an MCPTT private call or MCPTT emergency private call.

**Private Call Call-Back:** A mechanism for a requesting MCPTT client to request a targeted MCPTT client to initiate an MCPTT private call with the requesting MCPTT client (at earliest convenience).

**Remote change of an MCPTT user's selected group:** A mechanism allowing an authorised user to remotely change the selected group of another MCPTT user.

**Temporary MCPTT group identity**: A group identity representing a temporary grouping of MCPTT group identities formed by the group regrouping operation as specified in 3GPP TS 24.481 [31].

**Trusted mutual aid**: A business relationship whereby the Partner MCPTT system is willing to share the details of the members of an MCPTT group that it owns with the Primary MCPTT system.

**Untrusted mutual aid**: A business relationship whereby the Partner MCPTT system is not willing to share the details of the members of an MCPTT group that it owns with the Primary MCPTT system.

**Functional alias status**: Applies for the status of a functional alias for an MCTT user has one of the following states:

a) the "not-activated" state indicating that the MCPTT user has not activated the functional alias;

b) the "activating" state indicating that the MCPTT user is interested in using the functional alias but the functional alias is not yet activated for the MCPTT user;

c) the "activated" state indicating that the MCPTT user has activated the functional alias;; and

d) the "deactivating" state indicating that the MCPTT user is no longer interested in using the functional alias but the functional alias is still activated for the MCPTT user.

For the purposes of the present document, the following terms and definitions given in 3GPP TS 22.179 [2] apply:

**In-progress emergency**

**MCPTT emergency alert**

**MCPTT emergency group call**

**MCPTT emergency state**

**Partner MCPTT system**

**Primary MCPTT system**

For the purpose of the present document, the following terms and definitions given in 3GPP TS 24.380 [5] apply:

**MBMS subchannel**

For the purpose of the present document, the following terms and definitions given in 3GPP TS 23.379 [3] apply:

**Pre-selected MCPTT user profile**

**Selected MCPTT user profile**

For the purpose of the present document, the following terms and definitions given in 3GPP TS 33.180 [78] apply:

**Client Server Key (CSK)**

**Multicast Floor Control Key (MKFC)**

**Multicast Signalling Key (MuSiK)**

**Multicast Signalling Key Identifier (MuSiK-ID)**

**MBMS subchannel control key (MSCCK)**

**MBMS subchannel control key identifier (MSCCK-ID)**

**Private Call Key (PCK)**

**Signalling Protection Key (SPK)**

**XML Protection Key (XPK**)

For the purpose of the present document, the following terms and definitions given in 3GPP TS 22.280 [76] apply:

**Functional alias**

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