**3GPP TSG-SA WG3 Meeting #104e *S3-21wxyz***

**e-Meeting, 16-27 Aug 2021** *revision of S3-212467*

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| *CR-Form-v12.0* |
| **CHANGE REQUEST** |
|  |
|  | **33.180** | **CR** | **0173** | **Rev** | **1** | **Current version:** |  |  |
|  |
| *For* [***HELP***](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:***  | [33.180] R17 Group subscription |
|  |  |
| ***Source to WG:*** | Motorola Solutions, FirstNet, UPV/EHU, Nemergent Solutions, Sepura, Softil, Erillisverkot, TCCA |
| ***Source to TSG:*** | S3 |
|  |  |
| ***Work item code:*** | MCSec2 |  | ***Date:*** | 2021/09/16 |
|  |  |  |  |  |
| ***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)* |
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| ***Reason for change:*** | 33.180 states that if a client is implicitly affiliated then it is automatically subscribed to the group records, however “automatic subscription” is incorrect. The client will not accept unsolicited NOTIFY messages as described in rfc6665 (see quote below), and therefore must explictily subscribe to group records regardless of the affiliation type. RFC6665 *SIP-Specific Event Notification* (section 4.1.3) states:“Upon receiving a NOTIFY request, the subscriber should check that it matches at least one of its outstanding subscriptions; if not, it MUST return a 481 (Subscription does not exist) response unless another 400- or 500-class response is more appropriate. “As indicated in the rfc, if the client did not subscribe (i.e. has an outstanding subscription) then it MUST reject the NOTIFY message.This problem has been documented in ETSI Plugtests as Observation #12. |
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| ***Summary of change:*** | Remove incorrect text |
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| ***Consequences if not approved:*** | Interoperability for implicit group affiliation is at risk. |
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| ***Clauses affected:*** | 5.7.3 |
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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:*** |  |

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* START of change 1 \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

### 5.7.3 Group member GMK management

In some situations, the membership of a group may be modified whereby an MC user may be added to or removed from an MCX group. Users are alerted to these changes by a user profile update from the CMS for which they are subscribed. The updated user configuration profile indicates the group ID to which the group membership change is associated.

When the user configuration record indicates the user has been added to a new or existing group, the user shall be authorised for group management services to the GMS followed by the client subscribing to group updates from the GMS. The user shall be authorised for group management services and the subscription shall be validated before the GMS provides group management records and the GMK. Once the user is authorised and the subscription processed by the GMS, the GMS sends the group management record and the GMK to the UE. The user may then join in on the group communication immediately after receiving the group update and GMK.

When a user is removed from a group, the UE receives a user profile update from the CMS indicating the user is no longer a member of the specified group ID(s). Upon receiving the user profile update, ending of any group communication(s) associated with that group, and if the GMK associated with the group ID is not associated with another group that the user remains a member, the UE shall immediately and securely delete the GMK associated with that group ID. If the group ID is associated to more than one service (i.e. MCPTT, MCData and/or MCVideo) then upon the ending of any group communication(s) associated with that group ID, and if the GMKs associated with that group ID is not associated with another group that the user remains a member, the GMKs associated with that group ID shall be immediately and securely deleted.

When a user is removed from the group, the Group Management Server may choose to update the GMK associated with the group ID (depending on the security profile of the group).

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* END of change 1 \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*