**3GPP TSG-CT WG1 Meeting #138-eC1-225983r1**

**E-Meeting, 10th – 14th October 2022**

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| *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)*.* | | | | | | | | |
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| ***Proposed change affects:*** | UICC apps |  | ME | **x** | Radio Access Network |  | Core Network | **x** |

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| ***Title:*** | 24.544 terms alignment and some editorial changes | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Source to WG:*** | China Mobile | | | | | | | | | |
| ***Source to TSG:*** | CT1 | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Work item code:*** | eSEAL | | | | |  | ***Date:*** | | | 2022-09-26 |
|  |  | | | |  | |  | | |  |
| ***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-16 (Release 16) Rel-17 (Release 17) Rel-18 (Release 18) Rel-19 (Release 19)* | |
|  |  | | | | | | | | | |
| ***Reason for change:*** | | Several different terms with the same meaning are used in TS24.544, e.g. SEAL group management client and SEAL Group Management Client. This CR is proposed to solve this issue. “Group Management Client” and “Group Management Server” is used for the SGM-C and SGM-S respectively; and “group management client”/“group management server” is used for the related capability/ functionality.  Some editorial changes are also proposed. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Summary of change:*** | | 24.544 terms alignment  Backwards compatibility analysis:  The change doesn’t impact the behaviors or signallings. Thus there is no backwards compatible issue based on the change of this CR. | | | | | | | | |
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| ***Consequences if not approved:*** | | Different terms with the same meaning are used in TS24.544 | | | | | | | | |
|  | |  | | | | | | | | |
| ***Clauses affected:*** | | 3.2, 6.2.4.4, 6.2.5.1.4, 6.2.5.2.4, 6.2.8.2.2.2, 6.2.9.4 | | | | | | | | |
|  | |  | | | | | | | | |
|  | | **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:*** | |  | | | | | | | | |

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

## 3.2 Abbreviations

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

MIME Multipurpose Internet Mail Extensions

SEAL Service Enabler Architecture Layer for Verticals

SGM-C SEAL Group Management Client

SGM-S SEAL Group Management Server

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

#### 6.2.4.4 SGM server CoAP procedure

Upon reception of a CoAP PUT request where the CoAP URI of the request identifies Individual VAL Group Document resource as described in clause C.2.1.2.3.2, the SGM-S:

a) shall determine the identity of the sender of the received CoAP PUT request as specified in clause 6.2.1.X, and:

1) if the identity of the sender of the received CoAP PUT request is not authorized to update the requested VAL group document, shall respond with a CoAP 4.03 (Forbidden) response to the CoAP PUT request and skip rest of the steps;

b) shall support handling an CoAP PUT request from a SGM-C according to procedures specified in IETF RFC 7252  [12]; and

c) shall update the VAL group document pointed according to the "VALGroupDocument" received in the request, and:

1) for each new member in the group shall create a new individual group member resource; and

2) for each member removed from the group shall delete the corresponding individual group member resource.

Upon successful modification of the group, the SGM-S shall notify all group members about the group modification by following the procedure specified in clause 6.2.8.2.3.2.

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

##### 6.2.5.1.4 SGM server CoAP procedure

Upon reception of a CoAP PUT request where the CoAP URI of the request identifies an Individual VAL Group Document resource as described in annex C.2.1.2.3.2, the SGM-S:

a) shall determine the identity of the sender of the received CoAP PUT request as specified in clause 6.2.1.3, and:

1) if the identity of the sender of the received CoAP PUT request is not authorized to update the requested VAL group document, shall respond with a CoAP 4.03 (Forbidden) response to the CoAP PUT request and skip rest of the steps;

b) shall support handling an CoAP PUT request from a SGM-C according to procedures specified in IETF RFC 7252  [12]; and

c) shall update the VAL group document pointed according to the "VALGroupDocument" received in the request, and:

1) for each new member in the group shall create a new individual group member resource; and

2) for each member removed from the group shall delete the corresponding individual group member resource.

Upon successful modification of the group, the SGM-S shall notify all group members about the group modification by following the procedure specified in clause 6.2.8.2.3.2.

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*Change 4\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

##### 6.2.5.2.4 SGM server CoAP procedure

Upon reception of an CoAP GET request where the CoAP URI of the request identifies VAL Group Documents resource as described in clause C.2.1.2.2.3.2, the SGM-S:

a) shall determine the identity of the sender of the received CoAP GET request as specified in clause 6.2.1.X, and:

1) if the sender is not authorized to fetch the requested VAL group document(s), shall respond with a 4.03 (Forbidden) response to the CoAP GET request and skip rest of the steps;

b) shall support handling a CoAP GET request from a SGM-C according to procedures specified in IETF RFC 7252 [12]; and

c) shall return a 2.05 (Content) response including all the VAL group documents matching all the given values of the query parameters.

Upon reception of a CoAP GET request where the CoAP URI of the request identifies Individual VAL Group Document resource as described in clause C.2.1.2.3.3.1, the SGM-S:

a) shall determine the identity of the sender of the received CoAP GET request as specified in clause 6.2.1.X, and:

1) if the sender is not authorized to fetch the requested VAL group document, shall respond with a 4.03 (Forbidden) response to the CoAP GET request and skip rest of the steps;

b) shall support handling a CoAP GET request from a SGM-C according to procedures specified in IETF RFC 7252 [12]; and

c) shall check if the resource pointed at by the CoAP URI exists and:

1) if it exists, shall return the VAL document in a 2.05 (Content) response with the content of the document matching the content filtering query parameters; or

2) otherwise, shall return a 4.04 (Not found) response.

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*Change 5\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

6.2.8.2.2.2 Sending group modify notification

To send the group modification notification to the SGM-C, the SGM-S:

a) shall check whether valid group events subscription exists for event SUBSCRIBE\_GROUP\_MODIFICATION (0x02) as defined in clause A.1.2 or not; if valid subscription does not exists then skip rest of the steps;

b) shall generate an HTTP POST message to notify group announcement. In the HTTP POST message:

1) shall set request URI to the call back URI received at the time of creating subscription;

2) shall set Content-Type header to "application/json"; and

3) shall include an HTTP request entity-body with the parameters specified in clause B.3 serialized into a JavaScript Object Notation (JSON) structure; and

c) shall send the HTTP POST request towards SGM-C.

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*Change 6\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

#### 6.2.9.4 SGM server CoAP procedure

Upon reception of a CoAP DELETE request where the CoAP URI of the request identifies Individual Group Member resource as described in clause C.2.1.2.4.3.3, the SGM-S:

a) shall determine the identity of the sender of the received CoAP DELETE request as specified in clause 6.2.1.X, and:

1) if the identity of the sender of the received CoAP DELETE request is not authorized to delete the requested group member resource, shall respond with a CoAP 4.03 (Forbidden) response to the CoAP DELETE request and skip rest of the steps;

b) shall support handling an CoAP DELETE request from a SGM-C according to procedures specified in IETF RFC 7252  [12]; and

c) shall delete the individual group member resource pointed at by the CoAP URI and shall update the "members" and "memberDetails" lists in the VAL group document.

Upon successful modification of the group, the SGM-S shall notify all group members about the group modification by following the procedure specified in clause 6.2.8.2.3.2. In the notification, the SGM-S shall send the modified VAL group document.