**3GPP TSG-CT WG1 Meeting #134-eC1-22abcd**

**E-Meeting, 17th – 25th February 2022 (was C1-221527)**

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| *CR-Form-v12.1* | | | | | | | | |
| **CHANGE REQUEST** | | | | | | | | |
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|  | **24.544** | **CR** | **0032** | **rev** | **1** | **Current version:** | **17.1.0** |  |
|  | | | | | | | | |
| *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:*** | Addition of CoAP Group list fetch procedure | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Source to WG:*** | Ericsson | | | | | | | | | |
| ***Source to TSG:*** | CT1 | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Work item code:*** | eSEAL | | | | |  | ***Date:*** | | | 2022-02-10 |
|  |  | | | |  | |  | | |  |
| ***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 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-15 (Release 15) Rel-16 (Release 16) Rel-17 (Release 17) Rel-18 (Release 18)* | |
|  |  | | | | | | | | | |
| ***Reason for change:*** | | To introduce support for CoAP for SEAL Group Management, it is proposed to add CoAP alternative for Group list fetch procedure, corresponding to HTTP alternative. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Summary of change:*** | | CoAP alternative for Group list fetch procedure is added. | | | | | | | | |
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| ***Consequences if not approved:*** | | SEAL GM does not support CoAP as required by stage 2. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Clauses affected:*** | | 6.2.10.1, 6.2.10.2, 6.2.10.x (new), 6.2.10.y (new) | | | | | | | | |
|  | |  | | | | | | | | |
|  | | **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 \* \* \* \*

#### 6.2.10.1 SGM client HTTP procedure

Upon receiving request from VAL user to fetch the list of groups in which the VAL user is a member, the SGM-C:

a) shall generate an HTTP POST request. In the HTTP POST request:

1) shall set the Request URI to the URI of the SGM-S appended with VAL service identity and the value "/group-list-fetch";

2) shall include the Host header with public user identity of SGM-S;

3) shall include an Authorization header field with the "Bearer" authentication scheme set to an access token of the "bearer" token type as specified in IETF RFC 6750 [6]; and

4) shall include the parameters specified in clause A.3.1 serialized into a JavaScript Object Notation (JSON) structure as specified in IETF RFC 7159 [10]; and;

b) shall send an HTTP POST request to SGM-S.

Upon receiving an HTTP 200 (OK), the SGM-C shall notify the VAL user about the list of the groups where the VAL UE is a member.

Based on VAL user's request, if group events subscription is not already created, then the SGM-C shall create the group events subscription as specified in clause 6.2.8.1.1 for the event SUBSCRIBE\_GROUP\_MODIFICATION (0x02) as defined in clause A.1.2. If group events subscription already exists then the SGM-C shall modify the subscription as specified in clause 6.2.8.1.2.

\* \* \* Next Change \* \* \* \*

#### 6.2.10.2 SGM server HTTP procedure

Upon reception of an HTTP POST request where the Request-URI of the HTTP POST request is set to "/group-list-fetch", the SGM-S:

a) shall determine the identity of the sender of the received HTTP POST request as specified in clause 6.2.1.1, and:

1) if the identity of the sender of the received HTTP POST request is not authorized user, shall respond with an HTTP 403 (Forbidden) response to the HTTP POST request and skip rest of the steps;

b) shall send an HTTP 200 (OK) response to SGM-C. In the response, the SGM-S shall include the parameters specified in clause A.3.2 serialized into a JavaScript Object Notation (JSON) structure as specified in IETF RFC 7159 [10];

\* \* \* Next Change \* \* \* \*

#### 6.2.10.X SGM client CoAP procedure

Upon receiving request from VAL user to fetch the list of groups in which the VAL user is a member, the SGM-C shall send a CoAP GET request with the CoAP URI set to the URI of the VAL Group Documents resource with the "memberId" query parameter set to the VAL user ID or VAL UE ID and optionally with the "time-period" query parameter when the group was created.

Upon receiving request from VAL user to fetch the list of groups in which the VAL user is a member, the SGM-C shall send a CoAP GET request to the SGM-S. In the CoAP GET request, the SGM-C:

a) shall set the CoAP URI to the URI of the VAL Group Documents resource:

1) the "apiRoot" is set to the SGM-S URI; and

2) shall set "memberId" query parameter to the VAL user ID or VAL UE ID and may set "time-period" query parameter to the time period when the group was created as described in clause X.2.1.2.2.3.2; and

b) shall send the request protected with the relevant ACE profile (OSCORE profile or DTLS profile) as described in 3GPP TS 24.547 [5].

Upon receiving a CoAP 2.05 (Content) response the SGM-C shall notify the VAL user about the list of the groups where the VAL UE is a member.

\* \* \* Next Change \* \* \* \*

#### 6.2.10.Y 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 X.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.

\* \* \* End of Changes \* \* \* \*