**3GPP TSG-CT WG1 Meeting #133-eC1-21abcd**

**E-meeting, 11-19 November 2021 (was C1-217067)**

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| *CR-Form-v12.1* | | | | | | | | |
| **CHANGE REQUEST** | | | | | | | | |
|  | | | | | | | | |
|  | **24.546** | **CR** | **0012** | **rev** | **1** | **Current version:** | **17.0.0** |  |
|  | | | | | | | | |
| *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 VAL user profile data procedures | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Source to WG:*** | Ericsson | | | | | | | | | |
| ***Source to TSG:*** | C1 | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Work item code:*** | eSEAL | | | | |  | ***Date:*** | | | 2021-11-04 |
|  |  | | | |  | |  | | |  |
| ***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 Configuration Management, it is proposed to add CoAP alternative for VAL user profile data procedures, corresponding to SIP and HTTP alternatives. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Summary of change:*** | | CoAP alternative for VAL user profile data procedures are added.  HTTP clauses headings are updated to distinguish HTTP clauses from CoAP clauses | | | | | | | | |
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| ***Consequences if not approved:*** | | SEAL CM does not support CoAP as required by stage 2. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Clauses affected:*** | | 6.2.4.1, 6.2.4.2, 6.2.4.X (new), 6.2.4.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 \* \* \* \*

### 6.2.4 VAL user profile data

#### 6.2.4.1 SCM client HTTP procedure

Upon receiving a request from the VAL user to retrieve a VAL user profile data, the SCM-C shall send an HTTP GET request to the SCM-S according to procedures specified in IETF RFC 4825 [3] "*Fetch a Document*". In HTTP GET request, the SCM-C:

a) shall set the Request-URI to a XCAP URI identifying the XML document to be retrieved. In the Request-URI:

1) the "XCAP Root" is set to the URI of the SCM-S;

21) the "auid" is set to specific VAL service identity; and

3) the document selector is set to a document URI pointing to the VAL user profile document; and

b) 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].

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

#### 6.2.4.2 SCM server HTTP procedure

Upon reception of an HTTP GET request where the Request-URI of the HTTP GET request identifies a user profile document as specified in the specific vertical application, the SCM-S follow the procedure as described in clause 6.2.3.2.

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

#### 6.2.4.X SCM client CoAP procedure

Upon receiving a request from the VAL user to retrieve a VAL user profile data, the SCM-C shall send a CoAP GET request to the SCM-S. In the CoAP GET request, the SCM-C:

a) shall set the CoAP URI identifying the user profile document to be retrieved according to the resource API definition in Annex C.2.1:

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

2) the "valServiceId" is set to specific VAL service; and

3) if the SCM-C does not know the "profileDocId" of the user profile document at the SGM-S, the SCM-C:

i) shall use the User Profiles resource GET, as described in Annex C.2.1.2.2.3.1, and shall set val-tgt-ue to either the VAL user identity or VAL UE identity, and may set profile-index to the index of the user profile document; or

ii) shall use the Individual User Profile resource GET, as described in Annex C.2.1.2.3.3.1, and shall set "profileDocId" to point to the VAL user profile document; 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].

Editor's note: The method to protect the request will be decided by SA3.

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

#### 6.2.4.Y SCM server CoAP procedure

Upon reception of an CoAP GET request where the CoAP URI of the CoAP GET request identifies User Profiles resource as described in Annex C.2.1.2.2.3.1, the SCM-S:

a) shall determine the identity of the sender of the received CoAP GET request as specified in clause 6.2.1.2, and:

1) if the identity of the sender of the received CoAP GET request is not authorized to fetch requested user profile document(s), shall respond with a CoAP 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 SCM-C according to procedures specified in IETF RFC 7252 [rfc7252]; and

c) shall search for the user profile documents for the given VAL service and VAL user or VAL UE and:

1) shall return all the found documents in the 2.05 (Content) response; or

2) shall return a 4.04 (Not found) response if no document matching the given criteria was found.

Upon reception of an CoAP GET request where the CoAP URI of the CoAP GET request identifies Individual User Profile resource as described in Annex C.2.1.2.3.3.1, the SCM-S:

a) shall determine the identity of the sender of the received CoAP GET request as specified in clause 6.2.1.2, and:

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

b) shall support handling an CoAP GET request from a SCM-C according to procedures specified in IETF RFC 7252 [rfc7252]; and

c) shall search for the user profile documents pointed at by the CoAP URI and:

1) shall return the document in the 2.05 (Content) response if the document is found; or

2) shall return a 4.04 (Not found) response if the document is not found.

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