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

**E-meeting, 11-19 November 2021 (was C1-217068)**

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| *CR-Form-v12.1* | | | | | | | | |
| **CHANGE REQUEST** | | | | | | | | |
|  | | | | | | | | |
|  | **24.546** | **CR** | **0013** | **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 Update 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 Update VAL user profile data procedures, corresponding to SIP and HTTP alternatives. | | | | | | | | |
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| ***Summary of change:*** | | CoAP alternative for Update 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:*** | | 6.2.5.1, 6.2.5.2, 6.2.5.X (new), 6.2.5.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 \* \* \* \*

### 6.2.5 Update VAL user profile data

#### 6.2.5.1 SCM client HTTP procedure

Upon receiving a request from the VAL user to update the VAL user profile configuration document, the SCM-C shall create an XML document as specified in coding of the specific vertical application and shall send the XML document to the SCM-S according to procedures specified in IETF RFC 4825 [3] "*Create or Replace a Document*". In the HTTP POST request, the SCM-C:

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

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

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

3) the document selector is set to the VAL user profile;

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];

c) shall include a Content-Type header field set to "application/vnd.3gpp.seal-user-profile-info+xml"; and

d) shall include an application/vnd.3gpp.seal-user-profile-info+xml MIME body and in the <seal-user-profile> root element:

1) may include <ProfileName> element indicating name of the profile;

2) may include <Status> element indicating status of the profile;

3) may include <isDefault> element indicating that the current profile is the selected profile for the requesting user;

4) shall include <user-profile-index> element indicating the unique profile number; and

5) shall include <profile-configuration> element as specified in clause 7.

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

#### 6.2.5.2 SCM server HTTP procedure

Upon reception of an HTTP PUT request where the Request-URI of the HTTP PUT request identifies an XML document as specified in the specific vertical application, the SCM-S:

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

1) if the identity of the sender of the received HTTP PUT request is not authorized to update the configuration document, shall respond with a HTTP 403 (Forbidden) response to the HTTP PUT request and skip rest of the steps; and

b) shall support receiving an XML document as specified in application usage of the specific vertical application according to procedures specified in IETF RFC 4825 [3] "*PUT Handling*".

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

#### 6.2.5.X SCM client CoAP procedure

Upon receiving a request from the VAL user to update the VAL user profile configuration document, the SCM-C shall send a CoAP PUT request to the SCM-S. In the CoAP PUT request, the SCM-C:

a) shall set the CoAP URI identifying the user profile document to be retrieved according to the resource definition in Annex C.2.1.2.3.3.2:

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

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

3) the "profileDocId" to point to the VAL user profile document;

b) shall include Content-Format option set to "application/cbor";

Editor's Note: consider defining a media type for the user profile, such as "vnd.3gpp.seal-user-profile-info+cbor".

c) shall include "ProfileDoc" object with "profileInformation" which:

1) may contain "profileName" element indicating name of the profile;

2) may contain "status" element indicating status of the profile;

3) may contain "isDefault" element indicating that the current profile is the selected profile for the requesting user;

4) shall contain "profileIndex" element indicating the unique profile number; and

5) shall contain "profileConfig" elements; and

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

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

#### 6.2.5.Y SCM server CoAP procedure

Upon reception of an CoAP PUT request where the CoAP URI of the request identifies Individual User Profile resource as described in Annex C.2.1.2.3.3.2, 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 PUT request is not authorized to update 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 PUT request from a SCM-C according to procedures specified in IETF RFC 7252  [7252]; and

c) shall replace the user profile documents pointed at by the CoAP URI with the "ProfileDoc" received in the request.

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