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

**E-meeting, 11-19 November 2021 (was C1-217050)**

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| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| *CR-Form-v12.1* | | | | | | | | |
| **CHANGE REQUEST** | | | | | | | | |
|  | | | | | | | | |
|  | **24.547** | **CR** | **0008** | **rev** | **1** | **Current version:** | **16.2.0** |  |
|  | | | | | | | | |
| *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:*** | SEAL IM FE requirements | | | | | | | | | |
|  |  | | | | | | | | | |
| ***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:*** | | In the listed requirements for SIM-C and SIM-S to support, not all are used and relevant for the scope of the TS, and are proposed to be removed.  To introduce support for CoAP for SEAL Identity Management, it is proposed to specify the applicable requirements for SCM-C and SCM-S. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Summary of change:*** | | FE requirements not in scope of the TS are removed  Requirements on IM functional entites to support CoAP are added.  Applicable references are added. | | | | | | | | |
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| ***Consequences if not approved:*** | | Superfluous requirements remain in the specification  SEAL IM does not support CoAP as required by stage 2. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Clauses affected:*** | | 2, 5.1, 5.2 | | | | | | | | |
|  | |  | | | | | | | | |
|  | | **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 \* \* \* \*

# 2 References

The following documents contain provisions which, through reference in this text, constitute provisions of the present document.

- References are either specific (identified by date of publication, edition number, version number, etc.) or non‑specific.

- For a specific reference, subsequent revisions do not apply.

- For a non-specific reference, the latest version applies. In the case of a reference to a 3GPP document (including a GSM document), a non-specific reference implicitly refers to the latest version of that document *in the same Release as the present document*.

[1] 3GPP TR 21.905: "Vocabulary for 3GPP Specifications".

[2] 3GPP TS 23.434: "Service Enabler Architecture Layer for Verticals (SEAL); Functional architecture and information flows;".

[3] IETF RFC 4825: "The Extensible Markup Language (XML) Configuration Access Protocol (XCAP)".

[4] OMA OMA-TS-XDM\_Group-V1\_1\_1-20170124-A: "Group XDM Specification".

[5] IETF RFC 2616: "Hypertext Transfer Protocol -- HTTP/1.1".

[6] W3C.REC-html401-19991224: "HTML 4.01 Specification".

[7] 3GPP TS 33.434: "Service Enabler Architecture Layer (SEAL); Security aspects for Verticals".

[8] IETF RFC 8693: "OAuth 2.0 Token Exchange".

[9] IETF RFC 6749: "The OAuth 2.0 Authorization Framework".

[10] IETF RFC 7159: "The JavaScript Object Notation (JSON) Data Interchange Format".

[11] "OpenID Connect Core 1.0 incorporating errata set 1".

[12] IETF RFC 2818: "HTTP Over TLS".

[13] IETF RFC 6750: "The OAuth 2.0 Authorization Framework: Bearer Token Usage".

[14] 3GPP TS 24.109: "Bootstrapping interface (Ub) and network application function interface (Ua); Protocol details".

[7252] IETF RFC 7252: "The Constrained Application Protocol (CoAP)".

[8323] IETF RFC 8323: "CoAP (Constrained Application Protocol) over TCP, TLS, and WebSockets".

[oauth] Internet draft draft-ietf-ace-oauth-authz-45: "Authentication and Authorization for Constrained Environments (ACE) using the OAuth 2.0 Framework (ACE-OAuth)".

[dtls] Internet draft draft-ietf-ace-dtls-authorize-18: "Datagram Transport Layer Security (DTLS) Profile for Authentication and Authorization for Constrained Environments (ACE)".

[oscore] Internet draft draft-ietf-ace-oscore-profile-19: "OSCORE Profile of the Authentication and Authorization for Constrained Environments Framework"

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

## 5.1 SEAL identity management client (SIM-C)

The SIM-C is a functional entity that acts as the application client for VAL user identity related transactions.

To be compliant with the HTTP procedures in the present document the SIM-C shall:

- support the user authentication procedure specified in clause 6.2.2; and

- support the token exchange procedure specified in clause 6.2.3.

To be compliant with the CoAP procedures in the present document the SIM-C:

- shall support the role of CoAP client as specified in IETF RFC 7252 [7252];

- should support CoAP over TCP and Websocket as specified in IETF RFC 8323 [8323];

- shall support Internet draft ACE-OAUTH [oauth];

- shall support OSCORE profile of ACE-OAUTH [oscore];

- should support DTLS profile of ACE-OAUTH [dtls]; and

- shall support the procedures in clause 6.2.2.

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

## 5.2 SEAL identity management server (SIM-S)

The SIM-S is a functional entity that authenticates the VAL user’s identity by verifying the credentials provided by the VAL user.

To be compliant with the HTTP procedures in the present document the SIM-S shall:

- support the user authentication procedure specified in clause 6.2.2; and

- support the token exchange procedure specified in clause 6.2.3.

To be compliant with the CoAP procedures in the present document the SIM-S:

- shall support the role of CoAP server as specified in IETF RFC 7252 [7252];

- should support CoAP over TCP and Websocket as specified in IETF RFC 8323 [8323];

- shall support Internet draft ACE-OAUTH [oauth];

- shall support OSCORE profile of ACE-OAUTH [oscore];

- should support DTLS profile of ACE-OAUTH[dtls]; and

- shall support the procedures in clause 6.2.2.

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