**3GPP TSG-CT WG1 Meeting #141eC1-232600**

**Online 17– 21 April 2023**

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| *CR-Form-v12.2* | | | | | | | | |
| **CHANGE REQUEST** | | | | | | | | |
|  | | | | | | | | |
|  | **24.545** | **CR** | **0071** | **rev** | **1** | **Current version:** | **18.0.1** |  |
|  | | | | | | | | |
| *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:*** | Add the procedure of location profiling for supporting location service enablement | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Source to WG:*** | CATT, Huawei | | | | | | | | | |
| ***Source to TSG:*** | C1 | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Work item code:*** | 5GFLS | | | | |  | ***Date:*** | | | 2023-04-07 |
|  |  | | | |  | |  | | |  |
| ***Category:*** | B |  | | | | | ***Release:*** | | | Rel-18 |
|  | *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:*** | | According to [S6-230482](https://www.3gpp.org/ftp/tsg_sa/WG6_MissionCritical/TSGS6_052-bis-e/Docs/S6-230482.zip), stage2 has added the procedure and information flow for location profiling. | | | | | | | | |
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| ***Summary of change:*** | | Add the description of the location profiling for supporting location service enablement. | | | | | | | | |
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| ***Consequences if not approved:*** | | The procedures for location profiling are not supported. | | | | | | | | |
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| ***Clauses affected:*** | | 6.2.x(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.x Location profiling for supporting location service enablement

#### 6.2.x.1 SLM client HTTP procedure

Upon receiving an HTTP POST request containing:

a) an Accept header field set to "application/vnd.3gpp.seal-location-info+xml";

b) a Content-Type header field set to "application/vnd.3gpp.seal-location-info+xml"; and

c) an application/vnd.3gpp.seal-location-info+xml MIME body with a <request> element included in the <location-info> root element;

the SLM-C:

a) may send a location report as specified in clause 6.2.2.2.2.

#### 6.2.x.2 SLM server HTTP procedure

If the SLM-S needs to request the SLM-C to report its location, the SLM-S shall generate an HTTP POST request according to procedures specified in IETF RFC 7231 [16]. The SLM-S:

a) shall include a Request-URI set to the URI corresponding to the identity of the SLM-C;

b) shall include an Accept header field set to "application/vnd.3gpp.seal-location-info+xml";

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

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

1) shall include a <requested-identity> element with a <VAL-user-id> child element set to the identity of the VAL user whose location is requested; and

2) shall include a <request> element; and

e) shall send the HTTP POST request as specified in IETF RFC 7231 [16].

NOTE: Push notification service can be used to send HTTP POST request to the client. Details about the push notification service is out of scope this specification.

Editor's note: It is FFS which element(s) includes the access type and the positioning method.

#### 6.2.x.3 SLM client CoAP procedure

Upon receiving an CoAP GET request where the CoAP URI of the CoAP GET request identifies the location resource as specified in Annex B.4.1.2.2.3.1, and containing:

a) an Accept option set to "application/vnd.3gpp.seal-location-info+cbor",

the SLM-C shall generate a CoAP 2.05 (Content) response according to IETF RFC 7252 [21]. In the CoAP 2.05 (Content) response message, the SLM-C:

a) shall include a Content-Format option set to "application/vnd.3gpp.seal-location-info+cbor";

b) shall include one or more "LocationReport" objects, each "LocationReport" object containing:

1) "valTgtUe" attribute set to the identity of the VAL user whose location information is notified;

2) "triggerIds" attribute set to the value of each "triggerId" value of the triggers that have been met; and

3) "locInfo" attribute set to the location information; and

c) shall send the CoAP 2.05 (Content) response towards the SLM-S.

#### 6.2.x.4 SLM server CoAP procedure

If the SLM-S needs to request the SLM-C to report its location profile and the derivation of the requested location information report, the SLM-S shall generate a CoAP GET request according to procedures specified in IETF RFC 7252 [21]. The SLM-S:

a) shall set the CoAP URI identifying the location to be retrieved according to the resource definition in Annex B.4.1.2.2.3.1;

1) the "apiRoot" is set to the SLM-C URI;

b) shall include an Accept option set to "application/vnd.3gpp.seal-location-info+cbor";

c) shall send the request protected with the relevant ACE profile (OSCORE profile or DTLS profile) as described in 3GPP TS 24.547 [6].

Editor's note: It is FFS which object(s) includes the access type and the positioning method.

\* \* \* End of changes \* \* \*