**3GPP TSG-CT WG1 Meeting #125-eC1-205088**

**Electronic meeting, 20-28 August 2020**

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| *CR-Form-v12.0* |
| **CHANGE REQUEST** |
|  |
|  | **24.486** | **CR** | **0020** | **rev** | **-** | **Current version:** | **16.0.0** |  |
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| *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:***  | Corrections to request URI and clause reference |
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| ***Source to WG:*** | Samsung, Ericsson |
| ***Source to TSG:*** | C1 |
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| ***Work item code:*** | V2XAPP |  | ***Date:*** | 2020-08-12 |
|  |  |  |  |  |
| ***Category:*** | **F** |  | ***Release:*** | Rel-16 |
|  | *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 canbe 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-12 (Release 12)**Rel-13 (Release 13)Rel-14 (Release 14)Rel-15 (Release 15)Rel-16 (Release 16)Rel-17 (Release 17)* |
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| ***Reason for change:*** | 1) Clause 6.3.1 – The request URI is set to the URI received in HTTP response of registration request. But, there is no URI received in HTTP response of registration request. Request URI shall be set to the URI received in HTTP response of service discovery procedure.2) Clause 6.3.2 – On received de-registration request – server is storing the registration information (like it is done in registration request). It needs to clear the registration information.3) Clause 6.4.1 – Same issue as in clause 6.3.14) Clause 6.5.1.3 – Same issue as in clause 6.3.15) Clause 6.5.1.4 – Reference to service discovery procedure is wrong. |
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| ***Summary of change:*** | For above issues 1), 3) and 4) – corrected text to set the request URI to the URI received in HTTP response of service discovery request.For above issue 2) – modified text to clear the registration informationFor above issue 5) – Corrected the reference |
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| ***Consequences if not approved:*** | The request URI of the multiple operations will not be propose and the request will not be routed to proper VAE-S. Thus, the functionality will fail in Rel-16. |
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| ***Clauses affected:*** | 6.3.1, 6.4.1, 6.5.1.3, 6.5.1.4 |
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|  | **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:*** |  |

\*\*\*\*\* Next change \*\*\*\*\*

### 6.3.1 Client procedure

Upon receiving a request from a V2X application to de-register for receiving certain V2X message types from the V2X AS, the VAE-C shall send an HTTP POST request according to procedures specified in IETF RFC 2616 [19]. In the HTTP POST request, the VAE-C:

a) shall set the Request-URI to the URI included in the received HTTP response message for V2X service discovery procedure (see clause 6.6);

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

c) shall include an application/vnd.3gpp.vae-info+xml MIME body and in the <de-registration-info> root element:

1) shall include a <identity> element with a <V2X-UE-id> child element set to the identity of a UE which requests the de-registration; and

2) shall include a <service> element with a <V2X-MSG-type> child element set to the types of V2X messages that the UE is no longer interested in receiving.

\*\*\*\*\* Next change \*\*\*\*\*

### 6.4.1 Client procedure

Upon entering a new geographical area if the V2X UE has been provisioned with geographical identifier groups (see clause 7) and the V2X UE has subscribed to a certain geographical area identifier group in order to receive V2X messages for this area, the VAE-C shall send an HTTP POST request according to procedures specified in IETF RFC 2616 [19]. In the HTTP POST request, the VAE-C:

a) shall set the Request-URI to the URI included in the received HTTP response message for V2X service discovery procedure (see clause 6.6);

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

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

1) shall include a <identity> element with a <V2X-UE-id> child element set to the identity of the UE which requests the registration;

2) shall include a <geographical-identifier> element with a <geo-id> child element set to the identity of the geographical area to be subscribed, i.e. the new geographical area where the UE entered; and

3) shall include an <operation> element set to "subscribe".

Upon a successful subscription to a geographical area, the VAE-C shall send an HTTP POST request according to procedures specified in IETF RFC 2616 [19]. In the HTTP POST request, the VAE-C:

a) shall set the Request-URI to the URI included in the received HTTP response message for the V2X service discovery procedure (see clause 6.6);

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

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

1) shall include a <identity> element with a <V2X-UE-id> child element set to the identity of the UE which requests the registration;

2) shall include a <geographical-identifier> element with a <geo-id> child element set to the identity of the geographical area to be unsubscribed, i.e. the old geographical area where the UE exited; and

3) shall include an <operation> element set to "unsubscribe".

\*\*\*\*\* Next change \*\*\*\*\*

#### 6.5.1.3 Sending of a V2X message reception report

In order to send a V2X message reception report, the VAE-C shall send a HTTP POST request message according to procedures specified in IETF RFC 2616 [19]. In the HTTP POST request message, the VAE-C:

a) shall set the Request-URI to the URI included in the received HTTP response message for the V2X service discovery procedure (see clause 6.6);

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

c) shall include an application/vnd.3gpp.vae-info+xml MIME body and a <result> element of the <message-info> element set to a value "success" or "fail".

\*\*\*\*\* Next change \*\*\*\*\*

#### 6.5.1.4 Sending of a V2X message

In order to send a V2X message, the VAE-C shall send a HTTP POST request message according to procedures specified in IETF RFC 2616 [19]. In the HTTP POST request message, the VAE-C:

a) shall set the Request-URI to the URI included in the received HTTP response message for V2X service discovery procedure (see clause 6.6);

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

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

1) shall include a <identity> element with a <V2X-UE-id> child element set to the identity of the UE which requests the sending of the V2X message;

2) shall include a <service> element with a <V2X-service-id> child element set to the identity of the V2X service which is interested in sending the V2X message.

3) may include a <geographical-identifier> element with one or more <geo-id> child elements set to the identity of the geographical locations of the V2X UE; and

4) may include a <message-reception-ind> element to indicate to the VAE server that a reception report is required.

\*\*\*\*\* Next change \*\*\*\*\*