**3GPP TSG-CT WG1 Meeting #125-eC1-205249**

**Electronic meeting, 20-28 August 2020 (was C1-205043)**

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| *CR-Form-v12.0* | | | | | | | | |
| **CHANGE REQUEST** | | | | | | | | |
|  | | | | | | | | |
|  | **24.385** | **CR** | **0023** | **rev** | **1** | **Current version:** | **16.1.0** |  |
|  | | | | | | | | |
| *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)*.* | | | | | | | | |
|  | | | | | | | | |

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| ***Proposed change affects:*** | UICC apps |  | ME | **X** | Radio Access Network |  | Core Network |  |

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | | | | | | | | | | |
| ***Title:*** | Addition of support for V2X services over LTE-Uu interface using TCP | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Source to WG:*** | Huawei, HiSilicon | | | | | | | | | |
| ***Source to TSG:*** | C1 | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Work item code:*** | eV2XARC | | | | |  | ***Date:*** | | | 2020-08-25 |
|  |  | | | |  | |  | | |  |
| ***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 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-12 (Release 12)* *Rel-13 (Release 13) Rel-14 (Release 14) Rel-15 (Release 15) Rel-16 (Release 16) Rel-17 (Release 17)* | |
|  |  | | | | | | | | | |
| ***Reason for change:*** | | As specified in TS 23.285, a new requirement has been added on support for V2X services over LTE-Uu interface using TCP, quote:  "*4.4.1.2.2 Policy/Parameter provisioning*  *The following information may be configured in V2X Control Function and optionally provisioned to the UE for V2X communications over LTE-Uu reference point:*  *[..].*  *4) Mapping of the V2X services, e.g. PSID or ITS-AIDs of the V2X application to:*  *- V2X Application Server address (consisting of IP address/FQDN and TCP or UDP port) for unicast;*  "  "*4.4.3.2 V2X message transmission/reception via unicast*  *[..]*  *For transport of IP based or non-IP based V2X messages using uplink unicast V2X communication in case of applications identified by PSID or ITS-AID for the same applications as over PC5 reference point:*  *- V2X messages are transported over TCP/IP or UDP/IP packets. The UE may learn from V2X Application Server or UE may be configured explicitly about a transport layer protocol to be used, or no restriction is imposed by configuration;*  *NOTE 2: When IP multicast is used, only UDP/IP is supported.*  *- the UE sends a V2X message over TCP/IP or UDP/IP to a V2X Application Server address. The destined V2X Application Server address is derived from the PSID (or the ITS-AID) and the UE configuration as described in clause 4.4.1.2.2; and*  *- the V2X Application Server receives the V2X message in a TCP/IP or UDP/IP packet on a V2X Application Server address.*" | | | | | | | | |
|  | |  | | | | | | | | |
| ***Summary of change:*** | | Support for TCP/IP packets is added to the configuration parameters. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Consequences if not approved:*** | | Misalignment with stage 2. Lack of support of TCP/IP packets configuration parameters. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Clauses affected:*** | | 4.1, 5.6.34, 5.6.45A (new), 5.6.45B (new), 5.6.45C (new), 5.6.45D (new), 5.6.45E (new), 5.6.59A (new), annex A | | | | | | | | |
|  | |  | | | | | | | | |
|  | | **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:*** | | Revision 1 updates the Figure 4.1-9, clauses 5.6.45A to 5.6.45D and Annex A. Clause 5.6.45E is added. | | | | | | | | |

\* \* \* First Change \* \* \* \*

## 4.1 Overview

The V2X communication provisioning MO is used to manage the V2X configuration parameters in a UE supporting 3GPP TS 24.386 [4].

The MO identifier is: urn:oma:mo:ext-3gpp-V2X-communication-provisioning:1.0.

The OMA DM access control list (ACL) property mechanism (see OMA-ERELD-DM-V1\_2 [3]) can be used to grant or deny access rights to OMA DM servers in order to modify nodes of the V2X communication provisioning MO.

In order to request provisioning of the V2X communication provisioning MO, the UE includes in the Package 1 (see OMA-TS-DM\_Protocol-V1\_2 [5]) a Generic Alert message (along with other commands):

- with the "Type" element set to "urn:oma:mo:ext-3gpp-V2X-communication-provisioning:1.0";

- with the "LocURI" element (inside the "Source" element) set to the address of the V2X communication provisioning MO as specified by OMA-TS-DM\_Protocol-V1\_2 [5]; and

- without the "Data" element.

The V2X communication provisioning MO consists of the nodes described in figure 4.1-1.

NOTE: In this release of the document, charging configuration parameters in the V2X communication provisioning MO are not specified.



Figure 4.1-1: The V2X communication provisioning MO (part 1)



Figure 4.1-2: The V2X communication provisioning MO (part 2)



Figure 4.1-3: The V2X communication provisioning MO (part 3)

Figure 4.1-4: The V2X communication provisioning MO (part 4)



Figure 4.1-5: The V2X communication provisioning MO (part 5)



Figure 4.1-6: The V2X communication provisioning MO (part 6)



Figure 4.1-7: The V2X communication provisioning MO (part 7)



Figure 4.1-8: The V2X communication provisioning MO (part 8)



Figure 4.1-9: The V2X communication provisioning MO (part 9)

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

### 5.6.34 <X>/V2XoverLTEUu/AuthorizedPLMNs/<X>/ V2XServiceIdentifierRelated/AuthorizedV2XServiceList/<X>

This node acts as a placeholder for a V2X service identified by a V2X service identifier, authorized for V2X communication over LTE-Uu.

- Occurrence: ZeroOrMore

- Format: node

- Access Types: Get, Replace

- Values: N/A

The V2XMBMSConfigs child node describes one or more MBMS configuration(s) for receiving a V2X message using V2X communication over LTE-Uu applicable when the V2X message is of a V2X service with the V2X service identifier indicated by the V2XServiceIdentifier child node.

Absence of the V2XMBMSConfigs child node indicates that the UE cannot receive the V2X messages of the V2X service with the V2X service identifier indicated by the V2XServiceIdentifier child node using V2X communication over LTE-Uu using MBMS.

The V2XASAddresses child node contains the V2X application server addresses for transport of a V2X message using V2X communication over LTE-Uu applicable when the V2X message is of a V2X service with the V2X service identifier indicated by the V2XServiceIdentifier child node.

Absence of the V2XASAddresses child node indicates that the UE cannot receive the V2X messages of the V2X service with the V2X service identifier indicated by the V2XServiceIdentifier child node using V2X communication over LTE-Uu using unicast and that the UE cannot send V2X messages of the V2X service with the V2X service identifier indicated by the V2XServiceIdentifier child node using V2X communication over LTE-Uu, except when using TCP.

The V2XASTCPAddresses child node contains the V2X application server addresses for transport of a V2X message using V2X communication over LTE-Uu using TCP applicable when the V2X message is of a V2X service with the V2X service identifier indicated by the V2XServiceIdentifier child node.

Absence of the V2XASTCPAddresses child node indicates that the UE cannot receive the V2X messages of the V2X service with the V2X service identifier indicated by the V2XServiceIdentifier child node using V2X communication over LTE-Uu using unicast and that the UE cannot send V2X messages of the V2X service with the V2X service identifier indicated by the V2XServiceIdentifier child node using V2X communication over LTE-Uu, using TCP.

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

### 5.6.45A <X>/V2XoverLTEUu/AuthorizedPLMNs/<X>/ V2XServiceIdentifierRelated/AuthorizedV2XServiceList/<X>/ V2XASTCPAddresses

The V2XASTCPAddresses node contains V2X server addresses for transport of V2X messages using TCP.

- Occurrence: ZeroOrOne

- Format: node

- Access Types: Get, Replace

- Values: N/A

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

### 5.6.45B <X>/V2XoverLTEUu/AuthorizedPLMNs/<X>/ V2XServiceIdentifierRelated/AuthorizedV2XServiceList/<X>/ V2XASTCPAddresses/<X>

This node acts as a placeholder for a V2X server address for communication using TCP applicable in a geographical area.

- Occurrence: OneOrMore

- Format: node

- Access Types: Get, Replace

- Values: N/A

If the GeographicalArea child node is included, the V2X server address indicated in the L3Address child node and the TCPPort child nodes are applicable when the UE is located in a geographical area indicated by the GeographicalArea child node.

If the GeographicalArea child node is not included, the V2X server address indicated in the L3Address child node and the TCPPort child nodes are not restricted to a geographical area.

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

### 5.6.45C <X>/V2XoverLTEUu/AuthorizedPLMNs/<X>/ V2XServiceIdentifierRelated/AuthorizedV2XServiceList/<X>/ V2XASTCPAddresses/<X>/L3Address

This node and its descendants are the same as the node defined in subclause 5.6.28.

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

### 5.6.45D <X>/V2XoverLTEUu/AuthorizedPLMNs/<X>/ V2XServiceIdentifierUnrelated/V2XASTCPAddress/<X>/TCPPort

The TCPPort leaf indicates a TCP port of the V2X application server for bidirectional transport.

- Occurrence: ZeroOrOne

- Format: int

- Access Types: Get, Replace

- Values: integer between 0 and 65535

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

### 5.6.45E <X>/V2XoverLTEUu/AuthorizedPLMNs/<X>/ V2XServiceIdentifierUnrelated/V2XASTCPAddress/<X>/ GeographicalArea

This node and its descendants are the same as the node defined in subclause 5.6.30.

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

Annex A (informative):  
V2X Communication Provisioning MO DDF

This DDF is the standardized minimal set. A vendor can define its own DDF for the complete device. This DDF can include more features than this minimal standardized version.

<?xml version="1.0" encoding="UTF-8"?>

<!DOCTYPE MgmtTree PUBLIC "-//OMA//DTD-DM-DDF 1.2//EN"

"http://www.openmobilealliance.org/tech/DTD/dm\_ddf-v1\_2.dtd">

<MgmtTree>

<VerDTD>1.2</VerDTD>

<Man>--The device manufacturer--</Man>

<Mod>--The device model--</Mod>

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<NodeName/>

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<Get/>

</AccessType>

<Description>V2X Communication Provisioning</Description>

<DFFormat>

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</DFProperties>

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<Get/>

</AccessType>

<DFFormat>

<chr/>

</DFFormat>

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<One/>

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