**3GPP TSG-SA WG6 Meeting #41-e S6-210xxx**

**e-meeting, 18th – 26th January 2021 (revision of S6-210161)**

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| *CR-Form-v12.1* | | | | | | | | |
| **CHANGE REQUEST** | | | | | | | | |
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|  | **23.286** | **CR** | **0038** | **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:*** | Dynamic local service information in multiple V2X service provider | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Source to WG:*** | Huawei, Hisilicon | | | | | | | | | |
| ***Source to TSG:*** |  | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Work item code:*** | eV2XAPP | | | | |  | ***Date:*** | | | 08-Jan-2021 |
|  |  | | | |  | |  | | |  |
| ***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:*** | | Support for dynamic local service information in multiple V2X service provider is proposed. | | | | | | | | |
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| ***Summary of change:*** | | Procedure for dynamic local service information in multiple V2X service provider is introduced as studied in TR 23.764. | | | | | | | | |
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| ***Consequences if not approved:*** | | Dynamic local service information in multiple V2X service provider will not be supported. | | | | | | | | |
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| ***Clauses affected:*** | | 9.10.x (new) | | | | | | | | |
|  | |  | | | | | | | | |
|  | | **Y** | **N** |  | | | |  | | |
| ***Other specs*** | |  | **N** | Other core specifications | | | | TS/TR ... CR ... | | |
| ***affected:*** | |  | **N** | Test specifications | | | | TS/TR ... CR ... | | |
| ***(show related CRs)*** | |  | **N** | O&M Specifications | | | | TS/TR ... CR ... | | |
|  | |  | | | | | | | | |
| ***Other comments:*** | |  | | | | | | | | |
|  | |  | | | | | | | | |
| ***This CR's revision history:*** | |  | | | | | | | | |

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*1st Change\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

### 9.10.x Procedure for dynamic local service information in multiple V2X service provider scenario

The procedure for V2X UE (having V2X application subscription with V2X service provider A) obtaining the dynamic local service information (offered by V2X service provider B) while in the service area of V2X service provider B is illustrated in figure 9.10.x‑1.

Pre-conditions:

1. The V2X UE has connected to the VAE server of V2X service provider A with whom the V2X UE has V2X application subscription with.

2. The V2X UE is in the service area of the VAE server 2 operated by V2X service provider B.

3. The service area and VAE server 2 information of V2X service provider B mapping is available at VAE server 1 of V2X service provider A.



Figure 9.10.x-1: Dynamic local service information in multiple V2X service provider scenario

1. The VAE client sends a local service information request to the VAE server 1 (responsible for geographic location A) with V2X UE ID and current V2X UE location.

2. The VAE server 1 determines the V2X UE is in the service area of VAE server 2 of V2X service provider B, and the local service information corresponding to the service area of VAE server 2 is not available at VAE server 1. If the local service information corresponding to the service area of VAE server 2 is available, then go to step 5.

3. The VAE server 1 sends the local service information request to the VAE server 2 to get the local service information information for the V2X UE. The V2X UE location is included in the request.

4. The VAE server 2 determines the local service information (e.g. V2X server USD(s), V2X USD) with the corresponding geographic locations information based on UE location, and sends local service information response to the VAE server 1. This message carries the local service information. Upon receiving the local service information corresponding to the service area of VAE server 2, the VAE server 1 stores the received information.

5. The VAE server 1 provides the local service information to the VAE client. Upon receiving the local service information, the VAE client stores the received information.