**3GPP TSG-CT3 Meeting #122e C3-223096**

**E-Meeting, 12th – 20th May 2022**

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| *CR-Form-v12.1* | | | | | | | | |
| **CHANGE REQUEST** | | | | | | | | |
|  | | | | | | | | |
|  | **29.486** | **CR** | **0084** | **rev** | **-** | **Current version:** | **17.4.0** |  |
|  | | | | | | | | |
| *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 |  | Radio Access Network |  | Core Network | **X** |

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | | | | | | | | | | |
| ***Title:*** | Removing the apiVersion placeholder from the Resource URI variables tables | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Source to WG:*** | Huawei | | | | | | | | | |
| ***Source to TSG:*** | CT3 | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Work item code:*** | NB17 | | | | |  | ***Date:*** | | | 2022-05-20 |
|  |  | | | |  | |  | | |  |
| ***Category:*** | **F** |  | | | | | ***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:*** | | As per C4-222295 agreed during CT4#109-e, the "apiVersion" placeholder should be removed from the "Resource URI variables" tables as it is not a resource URI variable. It is indeed a placeholder that is replaced by its value, e.g. "v1". | | | | | | | | |
|  | |  | | | | | | | | |
| ***Summary of change:*** | | Remove the "apiVersion" placeholder from the "Resource URI variables" tables defined in this specification | | | | | | | | |
|  | |  | | | | | | | | |
| ***Consequences if not approved:*** | | Incorrect specification. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Clauses affected:*** | | 6.1.3.1, 6.1.3.2.2, 6.1.3.3.2, 6.1.3.4.2, 6.1.3.5.2, 6.2.3.1, 6.2.3.2.2, 6.2.3.3.2, 6.3.3.1, 6.3.3.2.2, 6.3.3.3.2, 6.4.3.1, 6.4.3.2.2, 6.4.3.3.2, 6.5.3.1, 6.5.3.2.2, 6.6.3.1, 6.6.3.2.2, 6.6.3.3.2, 6.7.3.1, 6.7.3.2.2, 6.7.3.3.2, 6.8.3.1, 6.8.3.2.2, 6.8.3.3.2, 6.9.3.1, 6.9.3.2.2, 6.9.3.3.2, | | | | | | | | |
|  | |  | | | | | | | | |
|  | | **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:*** | | The CR does not impact the OpenAPI file | | | | | | | | |
|  | |  | | | | | | | | |
| ***This CR's revision history:*** | |  | | | | | | | | |

\* \* \* \* Start of Changes \* \* \* \*

#### 6.1.3.1 Overview

This clause describes the structure for the Resource URIs and the resources and methods used for the service.

Figure 6.1.3.1-1 depicts the resource URIs structure for the VAE\_MessageDelivery API.



Figure 6.1.3.1-1: Resource URI structure of the VAE\_MessageDelivery API

Table 6.1.3.1-1 provides an overview of the resources and applicable HTTP methods.

Table 6.1.3.1-1: Resources and methods overview

|  |  |  |  |
| --- | --- | --- | --- |
| Resource name | Resource URI | HTTP method or custom operation | Description |
| Message Delivery Subscriptions | /subscriptions | POST | Create a new Individual Message Delivery Subscription resource. |
| Individual Message Delivery Subscription | /subscriptions/{subscriptionId} | GET | Read an Individual Message Delivery Subscription resource. |
| DELETE | Delete an Individual Message Delivery Subscription resource. |
| Downlink Message Deliveries | /subscriptions/{subscriptionId}/message-deliveries | POST | Create a new Individual Downlink Message Delivery resource for a V2X UE ID or V2X group ID. |
| Individual Downlink Message Delivery | /subscriptions/{subscriptionId}/message-deliveries/{dlDeliveryId} | GET | Read the Individual Downlink Message Delivery resource. |
| DELETE | Delete the Individual Downlink Message Delivery resource. |

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

##### 6.1.3.2.2 Resource Definition

Resource URI: **{apiRoot}/vae-message-delivery/<apiVersion>/subscriptions**

This resource shall support the resource URI variables defined in table 6.1.3.2.2-1.

Table 6.1.3.2.2-1: Resource URI variables for this resource

|  |  |  |
| --- | --- | --- |
| Name | Data Type | Definition |
| apiRoot | string | See clause 6.1.1 |

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

##### 6.1.3.3.2 Resource definition

Resource URI: **{apiRoot}/vae-message-delivery/<apiVersion>/subscriptions/{subscriptionId}**

This resource shall support the resource URI variables defined in table 6.1.3.3.2-1.

Table 6.1.3.3.2-1: Resource URI variables for this resource

|  |  |  |
| --- | --- | --- |
| Name | Data type | Definition |
| apiRoot | string | See clause 6.1.1 |
| subscriptionId | string | Unique identifier of the individual Message Delivery Subscription resource for the V2X UE IDor V2X group ID. |

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

##### 6.1.3.4.2 Resource Definition

Resource URI: **{apiRoot}/vae-message-delivery/<apiVersion>/subscriptions/{subscriptionId}/message-deliveries**

This resource shall support the resource URI variables defined in table 6.1.3.4.2-1.

Table 6.1.3.4.2-1: Resource URI variables for this resource

|  |  |  |
| --- | --- | --- |
| Name | Data type | Definition |
| apiRoot | string | See clause 6.1.1 |
| subscriptionId | string | Unique identifier of the individual Message Delivery Subscription resource for the V2X UE IDor V2X group ID. |

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

##### 6.1.3.5.2 Resource definition

Resource URI: **{apiRoot}/vae-message-delivery/<apiVersion>/subscriptions/{subscriptionId}/message-deliveries/{dlDeliveryId}**

This resource shall support the resource URI variables defined in table 6.1.3.5.2-1.

Table 6.1.3.5.2-1: Resource URI variables for this resource

|  |  |  |
| --- | --- | --- |
| Name | Data type | Definition |
| apiRoot | string | See clause 6.1.1 |
| subscriptionId | string | Unique identifier of the individual Message Delivery Subscription resource for the V2X UE IDor V2X group ID. |
| dlDeliveryId | string | Unique identifier of the Individual Downlink Message Delivery resource for the V2X UE ID or V2X group ID. |

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

#### 6.2.3.1 Overview

This clause describes the structure for the Resource URIs and the resources and methods used for the service.

Figure 6.2.3.1-1 depicts the resource URIs structure for the VAE\_FileDistribution API.



Figure 6.2.3.1-1: Resource URI structure of the VAE\_FileDistribution API

Table 6.2.3.1-1 provides an overview of the resources and applicable HTTP methods.

Table 6.2.3.1-1: Resources and methods overview

|  |  |  |  |
| --- | --- | --- | --- |
| Resource name | Resource URI | HTTP method or custom operation | Description |
| File Distributions | /file-distributions | POST | Create a new Individual File Distribution resource for a V2X group ID. |
| Individual File Distribution | /file-distributions/{distributionId} | GET | Read an Individual File Distribution resource. |
| DELETE | Delete an Individual File Distribution resource. |

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

##### 6.2.3.2.2 Resource Definition

Resource URI: **{apiRoot}/vae-file-distribution/<apiVersion>/file-distributions**

This resource shall support the resource URI variables defined in table 6.2.3.2.2-1.

Table 6.2.3.2.2-1: Resource URI variables for this resource

|  |  |  |
| --- | --- | --- |
| Name | Data type | Definition |
| apiRoot | string | See clause 6.2.1 |

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

##### 6.2.3.3.2 Resource definition

Resource URI: **{apiRoot}/vae-file-distribution/<apiVersion>/file-distributions/{distributionId}**

This resource shall support the resource URI variables defined in table 6.2.3.3-1.

Table 6.2.3.3.2-1: Resource URI variables for this resource

|  |  |  |
| --- | --- | --- |
| Name | Data type | Definition |
| apiRoot | string | See clause 6.2.1 |
| distributionId | string | Unique identifier of the individual File Distribution resource for the V2X group ID. |

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

#### 6.3.3.1 Overview

This clause describes the structure for the Resource URIs and the resources and methods used for the service.

Figure 6.3.3.1-1 depicts the resource URIs structure for the VAE\_ApplicationRequirement API.



Figure 6.3.3.1-1: Resource URI structure of the VAE\_ApplicationRequirement API

Table 6.3.3.1-1 provides an overview of the resources and applicable HTTP methods.

Table 6.3.3.1-1: Resources and methods overview

|  |  |  |  |
| --- | --- | --- | --- |
| Resource name | Resource URI | HTTP method or custom operation | Description |
| Application Requirements | /application-requirements | POST | Create a new Individual Application Requirement resource for a V2X UE or V2X group ID. |
| Individual Application Requirement | /application-requirements /{requirementId} | GET | Read an Individual Application Requirement resource. |
| DELETE | Delete an Individual Application Requirement resource. |

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

##### 6.3.3.2.2 Resource Definition

Resource URI: **{apiRoot}/vae-app-req/<apiVersion>/application-requirements**

This resource shall support the resource URI variables defined in table 6.3.3.2.2-1.

Table 6.3.3.2.2-1: Resource URI variables for this resource

|  |  |  |
| --- | --- | --- |
| Name | Data type | Definition |
| apiRoot | string | See clause 6.3.1 |

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

##### 6.3.3.3.2 Resource definition

Resource URI: **{apiRoot}/vae-app-req/<apiVersion>/application-requirements/{requirementId}**

This resource shall support the resource URI variables defined in table 6.2.3.3-1.

Table 6.3.3.3.2-1: Resource URI variables for this resource

|  |  |  |
| --- | --- | --- |
| Name | Data type | Definition |
| apiRoot | string | See clause 6.3.1 |
| requirementId | string | Unique identifier of the individual Application Requirement resource for the V2X UE ID or the V2X group ID. |

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

#### 6.4.3.1 Overview

This clause describes the structure for the Resource URIs and the resources and methods used for the service.

Figure 6.4.3.1-1 depicts the resource URIs structure for the VAE\_DynamicGroup API.



Figure 6.4.3.1-1: Resource URI structure of the VAE\_DynamicGroup API

Table 6.4.3.1-1 provides an overview of the resources and applicable HTTP methods.

Table 6.4.3.1-1: Resources and methods overview

|  |  |  |  |
| --- | --- | --- | --- |
| Resource name | Resource URI | HTTP method or custom operation | Description |
| Group Configurations | /group-configurations | POST | Create a new Individual Group Configuration resource for a V2X group ID. |
| Individual Group Configuration | /group-configurations/{configId} | GET | Read an Individual Group Configuration resource. |
| DELETE | Delete an Individual Group Configuration resource. |

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

##### 6.4.3.2.2 Resource Definition

Resource URI: **{apiRoot}/vae-dynamic-group/<apiVersion>/group**-**configuration**s

This resource shall support the resource URI variables defined in table 6.4.3.2.2-1.

Table 6.4.3.2.2-1: Resource URI variables for this resource

|  |  |  |
| --- | --- | --- |
| Name | Data type | Definition |
| apiRoot | string | See clause 6.4.1 |

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

##### 6.4.3.3.2 Resource definition

Resource URI: **{apiRoot}/vae-dynamic-group/<apiVersion>/group**-**configuration**s**/{configId}**

This resource shall support the resource URI variables defined in table 6.2.3.3-1.

Table 6.4.3.3.2-1: Resource URI variables for this resource

|  |  |  |
| --- | --- | --- |
| Name | Data type | Definition |
| apiRoot | string | See clause 6.4.1. |
| configId | string | Unique identifier of the individual group configuration resource for the V2X group ID. |

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

#### 6.5.3.1 Overview

This clause describes the structure for the Resource URIs and the resources and methods used for the service.

Figure 6.5.3.1-1 depicts the resource URIs structure for the VAE\_ServiceContinuity API.



Figure 6.5.3.1-1: Resource URI structure of the VAE\_ServiceContinuity API

Table 6.5.3.1-1 provides an overview of the resources and applicable HTTP methods.

Table 6.5.3.1-1: Resources and methods overview

|  |  |  |  |
| --- | --- | --- | --- |
| Resource name | Resource URI | HTTP method or custom operation | Description |
| Individual Geographical Area | /geo-areas/{geoId} | GET | Query the Individual Geographical Area resource. |

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

##### 6.5.3.2.2 Resource Definition

Resource URI: **{apiRoot}/vae-service-continuity/<apiVersion>/geo-areas/{geoId}**

This resource shall support the resource URI variables defined in table 6.5.3.2.2-1.

Table 6.5.3.2.2-1: Resource URI variables for this resource

|  |  |  |
| --- | --- | --- |
| Name | Data type | Definition |
| apiRoot | string | See clause 6.5.1 |
| geoId | string | Geographical area id. |

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

#### 6.6.3.1 Overview

This clause describes the structure for the Resource URIs and the resources and methods used for the service.

Figure 6.6.3.1-1 depicts the resource URIs structure for the VAE\_HDMapDynamicInfo API.



Figure 6.6.3.1-1: Resource URI structure of the VAE\_HDMapDynamicInfo API

Table 6.6.3.1-1 provides an overview of the resources and applicable HTTP methods.

Table 6.6.3.1-1: Resources and methods overview

|  |  |  |  |
| --- | --- | --- | --- |
| Resource name | Resource URI | HTTP method or custom operation | Description |
| HdMap DynamicInfo Subscription | /subscriptions | POST | Create a new Individual HdMap DynamicInfo Subscription resource for a V2X UE. |
| Individual HdMap DynamicInfo Subscription | /subscriptions/{subscriptionId} | GET | Read an HdMap DynamicInfo Subscription resource. |
| DELETE | Delete an HdMap DynamicInfo Subscription. |

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

##### 6.6.3.2.2 Resource Definition

Resource URI: **{apiRoot}/vae-hdmap-dynamic-info/<apiVersion>/subscriptions**

This resource shall support the resource URI variables defined in table 6.6.3.2.2-1.

Table 6.6.3.2.2-1: Resource URI variables for this resource

|  |  |  |
| --- | --- | --- |
| Name | Data type | Definition |
| apiRoot | string | See clause 6.6.1 |

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

##### 6.6.3.3.2 Resource definition

Resource URI: **{apiRoot}/vae-hdmap-dynamic-info/<apiVersion>/subscriptions/{subscriptionId}**

This resource shall support the resource URI variables defined in table 6.6.3.3-1.

Table 6.6.3.3.2-1: Resource URI variables for this resource

|  |  |  |
| --- | --- | --- |
| Name | Data type | Definition |
| apiRoot | string | See clause 6.6.1 |
| SubscriptionId | string | Unique identifier of the individual HdMap DynamicInfo Subscription resource for the V2X UE ID. |

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

#### 6.7.3.1 Overview

This clause describes the structure for the Resource URIs and the resources and methods used for the service.

Figure 6.7.3.1-1 depicts the resource URIs structure for the VAE\_SessionOrientedService API.



Figure 6.7.3.1-1: Resource URI structure of the VAE\_SessionOrientedService API

Table 6.7.3.1-1 provides an overview of the resources and applicable HTTP methods.

Table 6.7.3.1-1: Resources and methods overview

|  |  |  |  |
| --- | --- | --- | --- |
| Resource name | Resource URI | HTTP method or custom operation | Description |
| Session Oriented Service Subscriptions | /subscriptions | POST | Create a new Individual Session Oriented Service Subscription. |
| Individual Session Oriented Service Subscription | /subscriptions/{subscriptionId} | GET | Read an Individual Session Oriented Service Subscription. |
| PUT | Update an Individual Session Oriented Service Subscription. |
| DELETE | Delete an Individual Session Oriented Service Subscription |

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

##### 6.7.3.2.2 Resource Definition

Resource URI: **{apiRoot}/vae-session-oriented-service/<apiVersion>/subscriptions**

This resource shall support the resource URI variables defined in table 6.7.3.2.2-1.

Table 6.7.3.2.2-1: Resource URI variables for this resource

|  |  |  |
| --- | --- | --- |
| Name | Data type | Definition |
| apiRoot | string | See clause 6.7.1 |

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

##### 6.7.3.3.2 Resource definition

Resource URI: **{apiRoot}/vae-session-oriented-service/<apiVersion>/subscriptions/{subscriptionId}**

This resource shall support the resource URI variables defined in table 6.7.3.3.2-1.

Table 6.7.3.3.2-1: Resource URI variables for this resource

|  |  |  |
| --- | --- | --- |
| Name | Data type | Definition |
| apiRoot | string | See clause 6.7.1 |
| SubscriptionId | string | Unique identifier of the Individual Session Oriented Service Subscription resource. |

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

#### 6.8.3.1 Overview

This clause describes the structure for the Resource URIs and the resources and methods used for the service.

Figure 6.8.3.1-1 depicts the resource URIs structure for the VAE\_V2VConfigRequirement API.



Figure 6.8.3.1-1: Resource URI structure of the VAE\_V2VConfigRequirement API

Table 6.8.3.1-1 provides an overview of the resources and applicable HTTP methods.

Table 6.8.3.1-1: Resources and methods overview

|  |  |  |  |
| --- | --- | --- | --- |
| Resource name | Resource URI | HTTP method or custom operation | Description |
| V2V Configurations | /configurations | POST | Create a new Individual V2V Configuration. |
| Individual V2V Configuration | /configurations/{configurationId} | GET | Read an Individual V2V Configuration. |
| PUT | Update an Individual V2V Configuration. |
| DELETE | Delete an Individual V2V Configuration. |

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

##### 6.8.3.2.2 Resource Definition

Resource URI: **{apiRoot}/vae-v2v-config-req/<apiVersion>/subscriptions**

This resource shall support the resource URI variables defined in table 6.8.3.2.2-1.

Table 6.8.3.2.2-1: Resource URI variables for this resource

|  |  |  |
| --- | --- | --- |
| Name | Data type | Definition |
| apiRoot | string | See clause 6.8.1 |

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

##### 6.8.3.3.2 Resource definition

Resource URI: **{apiRoot}/vae-pc5-prov-req/<apiVersion>/ configurations/{configurationId}**

This resource shall support the resource URI variables defined in table 6.8.2.3.3-1.

Table 6.8.3.3.2-1: Resource URI variables for this resource

|  |  |  |
| --- | --- | --- |
| Name | Data type | Definition |
| apiRoot | string | See clause 6.8.1 |
| configurationId | string | Unique identifier of the Individual V2V Configuration resource. |

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

#### 6.9.3.1 Overview

This clause describes the structure for the Resource URIs and the resources and methods used for the service.

Figure 6.9.3.1-1 depicts the resource URIs structure for the VAE\_PC5ProvisioningRequirement API.



Figure 6.9.3.1-1: Resource URI structure of the VAE\_PC5ProvisioningRequirement API

Table 6.9.3.1-1 provides an overview of the resources and applicable HTTP methods.

Table 6.9.3.1-1: Resources and methods overview

|  |  |  |  |
| --- | --- | --- | --- |
| Resource name | Resource URI | HTTP method or custom operation | Description |
| PC5 Provisioning Requirement Subscriptions | /subscriptions | POST | Create a new Individual PC5 Provisioning Requirement Subscription. |
| Individual PC5 Provisioning Requirement Subscription | /subscriptions/{subscriptionId} | GET | Read an Individual PC5 Provisioning Requirement Subscription. |
| PUT | Update an Individual PC5 Provisioning Requirement Subscription. |
| DELETE | Delete an Individual PC5 Provisioning Requirement Subscription. |

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

##### 6.9.3.2.2 Resource Definition

Resource URI: **{apiRoot}/vae-pc5-prov-req/<apiVersion>/subscriptions**

This resource shall support the resource URI variables defined in table 6.9.3.2.2-1.

Table 6.9.3.2.2-1: Resource URI variables for this resource

|  |  |  |
| --- | --- | --- |
| Name | Data type | Definition |
| apiRoot | string | See clause 6.9.1 |

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

##### 6.9.3.3.2 Resource definition

Resource URI: **{apiRoot}/vae-pc5-prov-req/<apiVersion>/subscriptions/{subscriptionId}**

This resource shall support the resource URI variables defined in table 6.92.3.3-1.

Table 6.9.3.3.2-1: Resource URI variables for this resource

|  |  |  |
| --- | --- | --- |
| Name | Data type | Definition |
| apiRoot | string | See clause 6.9.1 |
| SubscriptionId | string | Unique identifier of the Individual PC5 Provisioning Requirement Subscription resource. |

\* \* \* \* End of change \* \* \* \*