**3GPP TSG-CT WG4 Meeting #103-eC4-212abc**

**E-Meeting, 14th – 23rd April 2021 *was* C4-212328**

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| --- |
| *CR-Form-v12.1* |
| **CHANGE REQUEST** |
|  |
|  | **29.503** | **CR** | **0636** | **rev** | **1** | **Current version:** | **16.7.0** |  |
|  |
| *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 |  | Radio Access Network |  | Core Network | **X** |

|  |
| --- |
|  |
| ***Title:***  | MTC Provider Info in 5G-VN-Group deletion |
|  |  |
| ***Source to WG:*** | Huawei  |
| ***Source to TSG:*** | CT4 |
|  |  |
| ***Work item code:*** | TEI16 |  | ***Date:*** | 2021-04-06 |
|  |  |  |  |  |
| ***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-15 (Release 15)Rel-16 (Release 16)Rel-17 (Release 17)Rel-18 (Release 18)* |
|  |  |
| ***Reason for change:*** | Authorizing MTC Provider information for MTC provider or authorizing AF ID for AF were introduced during requesting 5G-VN-Group deletion service operation of Nudm\_ParameterProvision Service (see 29.503 clause 5.6.2.4.2), but there is no MTC Provider information and/or AF ID carried in the request of 5G-VN-Group deletion service operation.The Resource URI: in clause 6.5.3.3.2 is inconsistent with the one in OpenAPI, the Resource URI variable name is not right in the text. |
|  |  |
| ***Summary of change:*** | 1.Added the MTC Provider information and/or AF ID as Resource URI variables of the request of 5G-VN-Group deletion service operation.2.Corrected Resource URI in clause 6.5.3.3.2 |
|  |  |
| ***Consequences if not approved:*** | MTC Provider information and/or AF ID are missing in Table 6.5.3.3.3.2-1 and authorisation to MTC Provider information and/or AF ID can not be executed during consuming 5G-VN-Group deletion service operation of Nudm\_ParameterProvision Service. |
|  |  |
| ***Clauses affected:*** | 6.5.3.3.2, 6.5.3.3.3.2, A.6 |
|  |  |
|  | **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 introduces backward compatible corrections in the OpenAPI specification file of TS29505\_Nudm\_PP OpenAPI. |
|  |  |
| ***This CR's revision history:*** | Rev1:1. Corrected the ***Reason for change:*** and ***Consequences if not approved:***
 |

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

#### 6.5.3.3 Resource: 5GVnGroupConfiguration

##### 6.5.3.3.1 Description

This resource is used to represent 5G VN Group Configuration.

##### 6.5.3.3.2 Resource Definition

Resource URI: {apiRoot}/nudm-pp/<apiVersion>/5g-vn-groups/{extGroupId}

This resource shall support the resource URI variables defined in table 6.5.3.3.2-1.

Table 6.5.3.3.2-1: Resource URI variables for this resource

|  |  |  |
| --- | --- | --- |
| Name | Data type | Definition |
| apiRoot | string | See clause 6.5.1 |
| extGroupId | ExtGroupId | Represents the external Identifier of the 5G VN group pattern: "^extgroupid-[^@]+@[^@]+$" |

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

###### 6.5.3.3.3.2 DELETE

This method shall support the URI query parameters specified in table 6.5.3.3.3.1-1.

Table 6.5.3.3.3.2-1: URI query parameters supported by the DELETE method on this resource

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Name | Data type | P | Cardinality | Description |
|  mtc-provider-info | MtcProviderInformation | O | 0..1 | The mtc-provider-info contains the MTC Provider information that originates 5G-VN-Group deletion, it is used by the UDM to check whether the MTC Provider and/or the AF is allowed to perform this operation for the UE if the MTC provider and/or AF authorization is required. |
| af-id | string | O | 0..1 | The af-Id contains the AF ID that originates 5G-VN-Group deletion, it is used by the UDM to check whether the MTC Provider and/or the AF is allowed to perform this operation for the UE if the MTC provider and/or AF authorization is required.It is formatted as described in the definition of type MonitoringConfiguration. |

This method shall support the request data structures specified in table 6.5.3.3.3.1-2 and the response data structures and response codes specified in table 6.5.3.3.3.1-3.

Table 6.5.3.3.3.2-2: Data structures supported by the DELETE Request Body on this resource

|  |  |  |  |
| --- | --- | --- | --- |
| Data type | P | Cardinality | Description |
| n/a |  |  |  |

Table 6.5.3.3.3.2-3: Data structures supported by the DELETE Response Body on this resource

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Data type | P | Cardinality | Responsecodes | Description |
| n/a |  |  | 204 No Content | Upon success, an empty response body shall be returned |
| ProblemDetails | O | 0..1 | 404 Not Found | The "cause" attribute may be used to indicate one of the following application errors:- GROUP\_IDENTIFIER\_NOT\_FOUND |
| ProblemDetails | O | 0..1 | 403 Forbidden | The "cause" attribute may be used to indicate one of the following application errors:- AF\_NOT\_ALLOWED- MTC\_PROVIDER\_NOT\_ALLOWED |
| NOTE: In addition common data structures as listed in table 5.2.7.1-1 of 3GPP TS 29.500 [4] are supported. |

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

## A.6 Nudm\_PP API

openapi: 3.0.0

\*\*\*\*\*\*\*\*skipped for clarity\*\*\*\*\*\*\*\*\*\*\*\*

 /5g-vn-groups/{extGroupId}:

 put:

 summary: create a 5G VN Group

 operationId: Create 5G VN Group

 tags:

 - 5G VN Group Creation

 parameters:

 - name: extGroupId

 in: path

 description: External Identifier of the Group

 required: true

 schema:

 $ref: 'TS29503\_Nudm\_SDM.yaml#/components/schemas/ExtGroupId'

 requestBody:

 content:

 application/json:

 schema:

 $ref: '#/components/schemas/5GVnGroupConfiguration'

 required: true

 responses:

 '201':

 description: Expected response to a valid request

 '400':

 $ref: 'TS29571\_CommonData.yaml#/components/responses/400'

 '403':

 $ref: 'TS29571\_CommonData.yaml#/components/responses/403'

 '404':

 $ref: 'TS29571\_CommonData.yaml#/components/responses/404'

 '500':

 $ref: 'TS29571\_CommonData.yaml#/components/responses/500'

 '503':

 $ref: 'TS29571\_CommonData.yaml#/components/responses/503'

 default:

 description: Unexpected error

 delete:

 summary: delete a 5G VN Group

 operationId: Delete 5G VN Group

 tags:

 - 5G VN Group Deletion

 parameters:

 - name: extGroupId

 in: path

 description: External Identifier of the Group

 required: true

 schema:

 $ref: 'TS29503\_Nudm\_SDM.yaml#/components/schemas/ExtGroupId'

 - name: mtc-provider-info

 in: query

 description: MTC Provider Information that originated the service operation

 schema:

 $ref: 'TS29571\_CommonData.yaml#/components/schemas/MtcProviderInformation'

 - name: af-id

 in: query

 description: AF ID that originated the service operation

 schema:

 type: string responses:

 '204':

 description: Expected response to a valid request

 '400':

 $ref: 'TS29571\_CommonData.yaml#/components/responses/400'

 '403':

 $ref: 'TS29571\_CommonData.yaml#/components/responses/403'

 '404':

 $ref: 'TS29571\_CommonData.yaml#/components/responses/404'

 '500':

 $ref: 'TS29571\_CommonData.yaml#/components/responses/500'

 '503':

 $ref: 'TS29571\_CommonData.yaml#/components/responses/503'

 default:

 description: Unexpected error

 patch:

 summary: modify a 5G VN Group

 operationId: Modify 5G VN Group

 tags:

 - 5G VN Group Modification

 parameters:

 - name: extGroupId

 in: path

 description: External Identifier of the group

 required: true

 schema:

 $ref: 'TS29503\_Nudm\_SDM.yaml#/components/schemas/ExtGroupId'

 - name: supported-features

 in: query

 description: Features required to be supported by the target NF

 schema:

 $ref: 'TS29571\_CommonData.yaml#/components/schemas/SupportedFeatures'

 requestBody:

 content:

 application/merge-patch+json:

 schema:

 $ref: '#/components/schemas/5GVnGroupConfiguration'

 required: true

 responses:

 '204':

 description: Expected response to a valid request

 '200':

 description: Expected response to a valid request

 content:

 application/json:

 schema:

 $ref: 'TS29571\_CommonData.yaml#/components/schemas/PatchResult'

 '400':

 $ref: 'TS29571\_CommonData.yaml#/components/responses/400'

 '403':

 $ref: 'TS29571\_CommonData.yaml#/components/responses/403'

 '404':

 $ref: 'TS29571\_CommonData.yaml#/components/responses/404'

 '500':

 $ref: 'TS29571\_CommonData.yaml#/components/responses/500'

 '503':

 $ref: 'TS29571\_CommonData.yaml#/components/responses/503'

 default:

 description: Unexpected error

 get:

 summary: get 5G VN Group

 operationId: Get 5G VN Group

 tags:

 - 5G VN Group Modification

 parameters:

 - name: extGroupId

 in: path

 description: External Identifier of the group

 required: true

 schema:

 $ref: 'TS29503\_Nudm\_SDM.yaml#/components/schemas/ExtGroupId'

 responses:

 '200':

 description: Expected response to a valid request

 content:

 application/json:

 schema:

 $ref: '#/components/schemas/5GVnGroupConfiguration'

 '400':

 $ref: 'TS29571\_CommonData.yaml#/components/responses/400'

 '403':

 $ref: 'TS29571\_CommonData.yaml#/components/responses/403'

 '404':

 $ref: 'TS29571\_CommonData.yaml#/components/responses/404'

 '500':

 $ref: 'TS29571\_CommonData.yaml#/components/responses/500'

 '503':

 $ref: 'TS29571\_CommonData.yaml#/components/responses/503'

 default:

 description: Unexpected error

\*\*\*\*\*\*\*\*skipped for clarity\*\*\*\*\*\*\*\*\*\*\*\*

\* \* \* End of Changes \* \* \* \*