**TSG-CT WG3 Meeting #116-e *C3-213xyz***

**E-Meeting, 19th – 28th May 2021 (Revision of C3-213180)**

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| --- |
| *CR-Form-v12.1* |
| **CHANGE REQUEST** |
|  |
|  | **29.549** | **CR** | **0022** | **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 |  | Radio Access Network |  | Core Network | **X** |

|  |
| --- |
|  |
| ***Title:***  | 204 No Content during modification procedure on SS\_GroupManagement API |
|  |  |
| ***Source to WG:*** | Huawei |
| ***Source to TSG:*** | CT3 |
|  |  |
| ***Work item code:*** | NBI17 |  | ***Date:*** | 2021-05-12 |
|  |  |  |  |  |
| ***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 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:*** | For SS\_GroupManagement API, it’s possibile that the the group management server will respond to the the VAL server a 204 No Content status code when the resource modification is successful. |
|  |  |
| ***Summary of change:*** | Define 204 No Content as one possible response for HTTP PUT during resource modification procedure for SS\_GroupManagement API API. |
|  |  |
| ***Consequences if not approved:*** | No possibility for SS\_GroupManagement API API that the server just provides a successful response without representation of the subscription during resource modification procdure. |
|  |  |
| ***Clauses affected:*** | 5.3.1.2.3.2; 7.2.1.2.3.3.2; A.3 |
|  |  |
|  | **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 to the OpenAPI file of SS\_GroupManagement API. |
|  |  |
| ***This CR's revision history:*** |  |

**Additional discussion(if needed):**

**Proposed changes:**

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

###### 5.3.1.2.3.2 VAL server modifying group membership and configuration using Update\_Group\_Info service operation

To modify group information of a VAL group, the VAL server shall send HTTP PUT message to the group management server to the Resource URI identifying the VAL group document resource representation, as specified in the clause 7.2.1.2.3.3.2. This request shall not replace valGroupId property in the existing resource. Upon receiving the HTTP PUT message, the group management server shall:

1. verify the identity of the VAL server and check if the VAL server is authorized to modify VAL group information;

2. verify that valGroupId in the request is same as valGroupId of the VAL group document resource;

3. if the VAL server is authorized to modify the group information and the valGroupId matches, then the group management server shall;

a. if the group configuration information in the request is valid, update the resource identified by the Resource URI of the group document with group members list and group configuration information received in the request;

b. return a 200 OK status code with the updated VAL group document in the response or a 204 No Content status code.

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

7.2.1.2.3.3.2 PUT

This operation updates the VAL group document. This method shall support the URI query parameters specified in table 7.2.1.2.3.3.2-1.

Table 7.2.1.2.3.3.2-1: URI query parameters supported by the PUT method on this resource

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

This method shall support the request data structures specified in table 7.2.1.2.3.3.2-2 and the response data structures and response codes specified in table 7.2.1.2.3.3.2-3.

Table 7.2.1.2.3.3.2-2: Data structures supported by the PUT Request Body on this resource

|  |  |  |  |
| --- | --- | --- | --- |
| Data type | P | Cardinality | Description |
| VALGroupDocument | M | 1 | Updated details of the VAL group document. |

Table 7.2.1.2.3.3.2-3: Data structures supported by the PUT Response Body on this resource

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Data type | P | Cardinality | Responsecodes | Description |
| VALGroupDocument | M | 1 | 200 OK | The VAL group document updated successfully and the updated VAL group document returned in the response.  |
| n/a |  |  | 204 No Content | The VAL group document updated successfully. |
| NOTE: The mandatory HTTP error status codes for the PUT method listed in table 5.2.6-1 of 3GPP TS 29.122 [3] also apply. |

Table 5.14.3.3.3.2-2: Headers supported by the 307 Response Code on this resource

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Name | Data type | P | Cardinality | Description |
| Location | string | M | 1 | An alternative URI of the resource located in an alternative SCEF. |

Table 5.14.3.3.3.2-3: Headers supported by the 308 Response Code on this resource

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Name | Data type | P | Cardinality | Description |
| Location | string | M | 1 | An alternative URI of the resource located in an alternative SCEF. |

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

## A.3 SS\_GroupManagement API

openapi: 3.0.0

info:

 title: SS\_GroupManagement

 description: |

 API for SEAL Group management.

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 version: "1.1.0-alpha.1"

externalDocs:

 description: 3GPP TS 29.549 V17.0.0 Service Enabler Architecture Layer for Verticals (SEAL); Application Programming Interface (API) specification; Stage 3.

 url: http://www.3gpp.org/ftp/Specs/archive/29\_series/29.549/

security:

 - {}

 - oAuth2ClientCredentials: []

servers:

 - url: '{apiRoot}/ss-gm/v1'

 variables:

 apiRoot:

 default: https://example.com

 description: apiRoot as defined in clause 6.5 of 3GPP TS 29.549

paths:

 /group-documents:

 post:

 description: Creates a new VAL group document.

 requestBody:

 required: true

 content:

 application/json:

 schema:

 $ref: '#/components/schemas/VALGroupDocument'

 responses:

 '201':

 description: VAL group created sucessfully.

 content:

 application/json:

 schema:

 $ref: '#/components/schemas/VALGroupDocument'

 headers:

 Location:

 description: 'Contains the URI of the newly created resource'

 required: true

 schema:

 type: string

 '400':

 $ref: 'TS29122\_CommonData.yaml#/components/responses/400'

 '401':

 $ref: 'TS29122\_CommonData.yaml#/components/responses/401'

 '403':

 $ref: 'TS29122\_CommonData.yaml#/components/responses/403'

 '404':

 $ref: 'TS29122\_CommonData.yaml#/components/responses/404'

 '411':

 $ref: 'TS29122\_CommonData.yaml#/components/responses/411'

 '413':

 $ref: 'TS29122\_CommonData.yaml#/components/responses/413'

 '415':

 $ref: 'TS29122\_CommonData.yaml#/components/responses/415'

 '429':

 $ref: 'TS29122\_CommonData.yaml#/components/responses/429'

 '500':

 $ref: 'TS29122\_CommonData.yaml#/components/responses/500'

 '503':

 $ref: 'TS29122\_CommonData.yaml#/components/responses/503'

 default:

 $ref: 'TS29122\_CommonData.yaml#/components/responses/default'

 get:

 description: Retrieves VAL group documents satisfying filter criteria

 parameters:

 - name: val-group-id

 in: query

 description: String identifying the VAL group.

 schema:

 type: string

 - name: val-service-id

 in: query

 description: String identifying the Val service.

 schema:

 type: string

 responses:

 '200':

 description: List of VAL group documents matching the query parameters in the request.

 content:

 application/json:

 schema:

 type: array

 items:

 $ref: '#/components/schemas/VALGroupDocument'

 minItems: 0

 '400':

 $ref: 'TS29122\_CommonData.yaml#/components/responses/400'

 '401':

 $ref: 'TS29122\_CommonData.yaml#/components/responses/401'

 '403':

 $ref: 'TS29122\_CommonData.yaml#/components/responses/403'

 '404':

 $ref: 'TS29122\_CommonData.yaml#/components/responses/404'

 '406':

 $ref: 'TS29122\_CommonData.yaml#/components/responses/404'

 '429':

 $ref: 'TS29122\_CommonData.yaml#/components/responses/429'

 '500':

 $ref: 'TS29122\_CommonData.yaml#/components/responses/500'

 '503':

 $ref: 'TS29122\_CommonData.yaml#/components/responses/503'

 default:

 $ref: 'TS29122\_CommonData.yaml#/components/responses/default'

 /group-documents/{groupDocId}:

 get:

 description: Retrieves VAL group information satisfying filter criteria

 parameters:

 - name: groupDocId

 in: path

 description: String identifying an individual VAL group document resource

 required: true

 schema:

 type: string

 - name: group-members

 in: query

 description: When set to true indicates the group management server to send the members list information of the VAL group.

 schema:

 type: boolean

 - name: group-configuration

 in: query

 description: When set to true indicates the group management server to send the group configuration information of the VAL group.

 schema:

 type: boolean

 responses:

 '200':

 description: The VAL group information based on the request from the VAL server. Includes VAL group members list if group-members flag is set to true in the request, VAL group configuration information if the group-configuration flag is set to true in the request, VAL group identifier, whole VAL group document resource if both group-members and group-configuration flags are omitted/set to false in the request.

 content:

 application/json:

 schema:

 $ref: '#/components/schemas/VALGroupDocument'

 '400':

 $ref: 'TS29122\_CommonData.yaml#/components/responses/400'

 '401':

 $ref: 'TS29122\_CommonData.yaml#/components/responses/401'

 '403':

 $ref: 'TS29122\_CommonData.yaml#/components/responses/403'

 '404':

 $ref: 'TS29122\_CommonData.yaml#/components/responses/404'

 '406':

 $ref: 'TS29122\_CommonData.yaml#/components/responses/404'

 '429':

 $ref: 'TS29122\_CommonData.yaml#/components/responses/429'

 '500':

 $ref: 'TS29122\_CommonData.yaml#/components/responses/500'

 '503':

 $ref: 'TS29122\_CommonData.yaml#/components/responses/503'

 default:

 $ref: 'TS29122\_CommonData.yaml#/components/responses/default'

 put:

 description: Updates an individual VAL group document.

 parameters:

 - name: groupDocId

 in: path

 description: String identifying an individual VAL group document resource

 required: true

 schema:

 type: string

 requestBody:

 description: VAL group document to be updated in Group management server.

 required: true

 content:

 application/json:

 schema:

 $ref: '#/components/schemas/VALGroupDocument'

 responses:

 '200':

 description: VAL group document updated successfully

 content:

 application/json:

 schema:

 $ref: '#/components/schemas/VALGroupDocument'

 '204':

 description: No Content

 '400':

 $ref: 'TS29122\_CommonData.yaml#/components/responses/400'

 '401':

 $ref: 'TS29122\_CommonData.yaml#/components/responses/401'

 '403':

 $ref: 'TS29122\_CommonData.yaml#/components/responses/403'

 '404':

 $ref: 'TS29122\_CommonData.yaml#/components/responses/404'

 '411':

 $ref: 'TS29122\_CommonData.yaml#/components/responses/411'

 '413':

 $ref: 'TS29122\_CommonData.yaml#/components/responses/413'

 '415':

 $ref: 'TS29122\_CommonData.yaml#/components/responses/415'

 '429':

 $ref: 'TS29122\_CommonData.yaml#/components/responses/429'

 '500':

 $ref: 'TS29122\_CommonData.yaml#/components/responses/500'

 '503':

 $ref: 'TS29122\_CommonData.yaml#/components/responses/503'

 default:

 $ref: 'TS29122\_CommonData.yaml#/components/responses/default'

 delete:

 description: Deletes a VAL Group.

 parameters:

 - name: groupDocId

 in: path

 description: String identifying an individual VAL group document resource

 required: true

 schema:

 type: string

 responses:

 '204':

 description: The individual VAL group matching groupDocId was deleted.

 '400':

 $ref: 'TS29122\_CommonData.yaml#/components/responses/400'

 '401':

 $ref: 'TS29122\_CommonData.yaml#/components/responses/401'

 '403':

 $ref: 'TS29122\_CommonData.yaml#/components/responses/403'

 '404':

 $ref: 'TS29122\_CommonData.yaml#/components/responses/404'

 '429':

 $ref: 'TS29122\_CommonData.yaml#/components/responses/429'

 '500':

 $ref: 'TS29122\_CommonData.yaml#/components/responses/500'

 '503':

 $ref: 'TS29122\_CommonData.yaml#/components/responses/503'

 default:

 $ref: 'TS29122\_CommonData.yaml#/components/responses/default'

components:

 securitySchemes:

 oAuth2ClientCredentials:

 type: oauth2

 flows:

 clientCredentials:

 tokenUrl: '{tokenUrl}'

 scopes: {}

 schemas:

 VALGroupDocument:

 description: Represents details of the VAL group document information.

 type: object

 properties:

 valGroupId:

 type: string

 description: The VAL group idenitity.

 grpDesc:

 type: string

 description: The text description of the VAL group.

 members:

 type: array

 description: The list of VAL User IDs or VAL UE IDs, which are members of the VAL group.

 items:

 $ref: 'TS29549\_SS\_UserProfileRetrieval.yaml#/components/schemas/ValTargetUe'

 minItems: 1

 valGrpConf:

 type: string

 description: Configuration data for the VAL group.

 valServiceIds:

 type: array

 description: The list of VAL services enabled on the group.

 items:

 type: string

 minItems: 1

 suppFeat:

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

 resUri:

 $ref: 'TS29122\_CommonData.yaml#/components/schemas/Uri'

 locInfo:

 $ref: 'TS29122\_MonitoringEvent.yaml#/components/schemas/LocationInfo'

 addLocInfo:

 $ref: 'TS29122\_CommonData.yaml#/components/schemas/LocationArea5G'

 required:

 - valGroupId

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