**3GPP TSG-CT WG3 Meeting #140 *C3-251428***

**Wuhan, CN, 7 - 11 April 2025 *(Revision of C3-251326)***

|  |
| --- |
| *CR-Form-v12.3* |
| **CHANGE REQUEST** |
|  |
|  | **29.549** | **CR** | **0399** | **rev** | **1** | **Current version:** | **19.2.0** |  |
|  |
| *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:***  | Updates to obsoleted IETF RFC |
|  |  |
| ***Source to WG:*** | Huawei |
| ***Source to TSG:*** | C3 |
|  |  |
| ***Work item code:*** | NBI19 |  | ***Date:*** | 2025-03-30 |
|  |  |  |  |  |
| ***Category:*** | **F** |  | ***Release:*** | Rel-19 |
|  | *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-17 (Release 17)Rel-18 (Release 18)Rel-19 (Release 19) Rel-20 (Release 20)* |
|  |  |
| ***Reason for change:*** | IETF RFCs 4122 was obsoleted by RFC 9562.RFC 9562 incorporates the five versions of UUIDs defined by RFC 4122. Changes between the obsoleted RFC 4122 and new RFC 9562 are the introduction of three new UUID versions, clarified ambiguities in the earlier specification, and provided updates to ensure better compatibility and security.Those changes do not impact the current text in this specification. Hence, the RFC 4122 should be obsoleted by RFC 9562 accordingly. |
|  |  |
| ***Summary of change:*** | This CR proposes to:Address the above-detailed issues. |
|  |  |
| ***Consequences if not approved:*** | The above-detailed issues remain in the specification. |
|  |  |
| ***Clauses affected:*** | 2, 7.1.3.4.3.2, A.12 |
|  |  |
|  | **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 following API:* TS29549\_SS\_VALServiceAreaConfiguration.yaml
 |
|  |  |
| ***This CR's revision history:*** |  |

**Additional discussion(if needed):**

**Proposed changes:**

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

# 2 References

The following documents contain provisions which, through reference in this text, constitute provisions of the present document.

- References are either specific (identified by date of publication, edition number, version number, etc.) or non‑specific.

- For a specific reference, subsequent revisions do not apply.

- For a non-specific reference, the latest version applies. In the case of a reference to a 3GPP document (including a GSM document), a non-specific reference implicitly refers to the latest version of that document *in the same Release as the present document*.

[1] 3GPP TR 21.905: "Vocabulary for 3GPP Specifications".

[2] 3GPP TS 23.434: "Service Enabler Architecture Layer for Verticals (SEAL); Functional architecture and information flows".

[3] 3GPP TS 29.122: "T8 reference point for Northbound Application Programming Interfaces (APIs)".

[4] IETF RFC 6455: "The Websocket Protocol".

[5] IETF RFC 9112: "HTTP/1.1".

[6] IETF RFC 9110: "HTTP Semantics".

[7] Void.

[8] Void.

[9] IETF RFC 9111: "HTTP Caching".

[10] Void.

[11] Void.

[12] IETF RFC 9113: "HTTP/2".

[13] IETF RFC 8259: "The JavaScript Object Notation (JSON) Data Interchange Format".

[14] 3GPP TS 29.501: "5G System; Principles and Guidelines for Services Definition; Stage 3".

[15] Open API: "OpenAPI Specification Version 3.0.0", <https://spec.openapis.org/oas/v3.0.0>.

[16] 3GPP TS 29.222: "Common API Framework for 3GPP Northbound APIs; Stage 3".

[17] 3GPP TS 23.222: "Common API Framework for 3GPP Northbound APIs; Stage 2".

[18] 3GPP TS 33.122: "Security Aspects of Common API Framework for 3GPP Northbound APIs".

[19] IETF RFC 6749: "The OAuth 2.0 Authorization Framework".

[20] 3GPP TS 29.523: "5G System; Policy Control Event Exposure Service; Stage 3".

[21] 3GPP TS 29.571: "5G System; Common Data Types for Service Based Interfaces; Stage 3".

[22] 3GPP TS 29.500: "5G System; Technical Realization of Service Based Architecture; Stage 3".

[23] 3GPP TS 29.468: "Group Communication System Enablers for LTE (GCSE\_LTE); MB2 reference point; Stage 3".

[24] 3GPP TR 21.900: "Technical Specification Group working methods".

[25] 3GPP TS 33.210: "3G security; Network Domain Security (NDS); IP network layer security".

[26] 3GPP TS 33.434: "Service Enabler Architecture Layer for Verticals (SEAL); Security Aspects".

[27] 3GPP TS 29.486: "V2X Application Enabler (VAE) Services; Stage 3".

[28] 3GPP TS 29.522: "5G System; Network Exposure Function Northbound APIs; Stage 3".

[29] IEEE 802.1Qcc-2018: "IEEE Standard for Local and Metropolitan Area Networks—Bridges and Bridged Networks".

[30] 3GPP TS 29.514: "5G System; Policy Authorization Service; Stage 3".

[31] 3GPP TS 29.572: "5G System; Location Management Services; Stage 3".

[32] 3GPP TS 29.508: "5G System; Session Management Event Exposure Service; Stage 3".

[33] 3GPP TS 29.520: "5G System; Network Data Analytics Services; Stage 3".

[34] 3GPP TS 23.433: "Service Enabler Architecture Layer for Verticals (SEAL); Data Delivery enabler for vertical applications".

[35] 3GPP TS 29.548: "Service Enabler Architecture Layer for Verticals (SEAL); SEAL Data Delivery (SEALDD) Server Services; Stage 3".

[36] 3GPP TS 23.247: "Architectural enhancements for 5G multicast-broadcast services; Stage 2".

[37] 3GPP TS 23.246: "Multimedia Broadcast/Multicast Service (MBMS); Architecture and functional description".

[38] 3GPP TS 23.436: "Functional architecture and information flows for Application Data Analytics Enablement Service".

[39] 3GPP TS 23.502: "Procedures for the 5G System; Stage 2".

[40] IETF RFC 9562: "Universally Unique IDentifier (UUIDs)".

[41] 3GPP TS 23.435: "Procedures for Network Slice Capability Exposure for Application Layer Enablement Service".

[42] 3GPP TS 29.435: "Service Enabler Architecture Layer for Verticals (SEAL); Network Slice Capability Exposure (NSCE) Server Services; Stage 3".

[43] 3GPP TS 29.558: "Enabling Edge Applications; Application Programming Interface (API) specification; Stage 3".

[44] 3GPP TS 29.214: "Policy and Charging Control over Rx reference point".

[45] 3GPP TS 23.437: "Service Enabler Architecture Layer for Verticals (SEAL); Spatial map and Spatial anchors".

[46] 3GPP TS 23.438: "Service Enabler Architecture Layer for Verticals (SEAL); Digital asset".

[47] 3GPP TS 23.482: "Functional architecture and information flows for AIML Enablement Service".

[48] 3GPP TS 29.482: "Service Enabler Architecture Layer for Verticals (SEAL); Artificial Intelligence Machine Learning Enablement (AIMLE) Services; Stage 3".

[49] 3GPP TS 29.437: "Service Enabler Architecture Layer for Verticals (SEAL); Metverse Enablement Services; Stage 3".

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

###### 7.1.3.4.3.2 Simple data types

The simple data types defined in table 7.1.3.4.3.2-1 shall be supported.

Table 7.1.3.4.3.2-1: Simple data types

|  |  |
| --- | --- |
| Type name | Description |
| ValSvcAreaId | Represents the VAL Service Area identifier encoded as a string and generated either based on VAL Server ID or using the Universally Unique Identifier (UUID) version 4 as described in IETF RFC 9562 [40]. |

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

# A.12 SS\_VALServiceAreaConfiguration API

openapi: 3.0.0

info:

 title: SS\_VALServiceAreaConfiguration

 description: |

 API for SEAL VAL Service Area Configuration Service.

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 version: "1.1.0-alpha.1"

externalDocs:

 description: >

 3GPP TS 29.549 V19.0.0 Service Enabler Architecture Layer for Verticals (SEAL);

 Application Programming Interface (API) specification; Stage 3.

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

security:

 - {}

 - oAuth2ClientCredentials: []

servers:

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

 variables:

 apiRoot:

 default: https://example.com

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

paths:

 /areas:

 get:

 summary: Obtain the VAL service area(s) according to the provided filtering criteria.

 operationId: ObtainValServiceAreas

 tags:

 - VAL Service Areas (Collection)

 parameters:

 - name: val-svc-area-ids

 in: query

 description: Represents the requested VAL service areas.

 required: false

 schema:

 type: array

 items:

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

 minItems: 1

 - name: supp-feats

 in: query

 description: To filter irrelevant responses related to unsupported features.

 required: false

 schema:

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

 responses:

 '200':

 description: The requested VAL service areas information is returned.

 content:

 application/json:

 schema:

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

 '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/406'

 '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'

 /areas/configure:

 post:

 summary: Configure VAL service area(s).

 operationId: ConfigureValServiceAreas

 tags:

 - Configure

 requestBody:

 required: true

 content:

 application/json:

 schema:

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

 responses:

 '200':

 description: >

 Successful case. The identifier(s) of the configured VAL service area(s) information are

 Returned in the response body.

 content:

 application/json:

 schema:

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

 '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'

 /areas/update:

 post:

 summary: Update existing VAL service area(s).

 operationId: UpdateValServiceAreas

 tags:

 - Update

 requestBody:

 required: true

 content:

 application/json:

 schema:

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

 responses:

 '200':

 description: >

 Successful case. The identifier(s) of the updated VAL service area(s) information are

 returned in the response body.

 content:

 application/json:

 schema:

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

 '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'

 /areas/delete:

 post:

 summary: Delete existing VAL service area(s).

 operationId: DeleteValServiceAreas

 tags:

 - Delete

 requestBody:

 required: true

 content:

 application/json:

 schema:

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

 responses:

 '200':

 description: >

 Successful case. The identifier(s) of the deleted VAL service area(s) information are

 returned in the response body.

 content:

 application/json:

 schema:

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

 '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'

 /subscriptions:

 post:

 summary: Create individual VAL service area change event(s) subscription.

 operationId: SubscribeChangeEvents

 tags:

 - VAL Service Area Change Subscriptions (Collection)

 requestBody:

 required: true

 content:

 application/json:

 schema:

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

 responses:

 '201':

 description: >

 The requested individual VAL service area change event(s) subscription

 resource is successfully created and a representation of the created

 resource is returned in the response body.

 content:

 application/json:

 schema:

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

 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'

 callbacks:

 NotifyValServiceAreaChange:

 '{$request.body#/notifUri}':

 post:

 summary: Notify on changes of the VAL service area(s) accodring to the requested reporting settings.

 requestBody:

 required: true

 content:

 application/json:

 schema:

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

 responses:

 '204':

 description: The notification is successfully received.

 '307':

 $ref: 'TS29122\_CommonData.yaml#/components/responses/307'

 '308':

 $ref: 'TS29122\_CommonData.yaml#/components/responses/308'

 '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'

 /subscriptions/{subscriptionId}:

 parameters:

 - name: subscriptionId

 in: path

 description: >

 Represents the identifier of an individual VAL service area change event(s)

 subscription resource.

 required: true

 schema:

 type: string

 get:

 summary: Read an existing individual unicast monitoring subscription resource according to the subscriptionId.

 operationId: ReadValServiceAreaChange

 tags:

 - Individual VAL Service Area Change Subscription (Document)

 responses:

 '200':

 description: >

 The requested individual VAL service area change event(s) subscription is returned.

 content:

 application/json:

 schema:

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

 '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/406'

 '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:

 summary: Update individual VAL service area change event(s) subscription.

 operationId: UpdateIndValServAreaChangeSubsc

 tags:

 - Individual VAL Service Area Change Subscription (Document)

 requestBody:

 description: Updated details of the unicast VAL service area change event(s) subscription.

 required: true

 content:

 application/json:

 schema:

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

 responses:

 '200':

 description: >

 The subscription is updated successfully, and the updated subscription

 information returned in the response.

 content:

 application/json:

 schema:

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

 '204':

 description: No Content. The subscription is updated successfully.

 '307':

 $ref: 'TS29122\_CommonData.yaml#/components/responses/307'

 '308':

 $ref: 'TS29122\_CommonData.yaml#/components/responses/308'

 '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'

 patch:

 summary: Modify the individual VAL service area change event(s) subscription.

 operationId: ModifyIndValServAreaChangeSubsc

 tags:

 - Individual VAL Service Area Change Subscription (Document)

 requestBody:

 required: true

 content:

 application/merge-patch+json:

 schema:

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

 responses:

 '200':

 description: >

 The individual VAL service area change event(s) subscription is

 modified successfully, and the representation of the modified resource

 is returned.

 content:

 application/json:

 schema:

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

 '204':

 description: No Content. The subscription is modified successfully.

 '307':

 $ref: 'TS29122\_CommonData.yaml#/components/responses/307'

 '308':

 $ref: 'TS29122\_CommonData.yaml#/components/responses/308'

 '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:

 summary: Remove the existing individual VAL service area change event(s) subscription resource according to the subscriptionId.

 operationId: UnsubscribeValServiceAreaChange

 tags:

 - Individual VAL Service Area Change Subscription (Document)

 responses:

 '204':

 description: >

 The individual VAL service area change event(s) subscription resource

 matching the subscriptionId is deleted.

 '307':

 $ref: 'TS29122\_CommonData.yaml#/components/responses/307'

 '308':

 $ref: 'TS29122\_CommonData.yaml#/components/responses/308'

 '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:

 ValServiceArea:

 description: Represents the VAL service area.

 type: object

 properties:

 valSvcAreaId:

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

 locations:

 type: array

 description: Represents the locations associated with the VAL service area.

 minItems: 1

 items:

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

 required:

 - valSvcAreaId

 - locations

 ValServiceAreaReq:

 description: Represents the VAL service area configuration/update/delete request.

 type: object

 properties:

 valSvcAreas:

 type: array

 description: Represents the VAL service area(s).

 minItems: 1

 items:

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

 suppFeat:

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

 required:

 - valSvcAreas

 ValServiceAreaData:

 description: Represents the VAL service area retrieval information.

 type: object

 properties:

 valSvcAreas:

 type: array

 description: Represents the requested VAL service area(s).

 minItems: 1

 items:

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

 suppFeat:

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

 ValServiceAreaResp:

 description: Represents the VAL service area configuration/update/delete response.

 type: object

 properties:

 valSvcAreaIds:

 type: array

 description: Represents the identifier(s) of the successfully handled VAL service area(s).

 minItems: 1

 items:

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

 suppFeat:

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

 required:

 - valSvcAreaIds

 ValServiceAreaSubscPatch:

 description: Represents the VAL service area change event(s) modification request.

 type: object

 properties:

 events:

 type: array

 description: Represents the subscribed VAL service area change event(s).

 items:

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

 minItems: 1

 notifUri:

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

 subscDur:

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

 ValSvcAreaId:

 type: string

 description: >

 Represents the VAL Service Area identifier encoded as a string and generated

 either based on VAL Server ID or using the Universally Unique Identifier (UUID)

 version 4 as described in IETF RFC 9562.

 ValServiceAreaSubsc:

 description: Represents the VAL service area change event(s) subscription.

 type: object

 properties:

 events:

 type: array

 description: Represents the subscribed VAL service area change event(s).

 minItems: 1

 items:

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

 notifUri:

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

 subscDur:

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

 suppFeat:

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

 required:

 - events

 - notifUri

 ValServiceAreaEventType:

 description: Represents the VAL service area change event type.

 type: object

 properties:

 event:

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

 valSvcAreaIds:

 type: array

 description: Represents the VAL service area ID(s) associated with the event.

 minItems: 1

 items:

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

 required:

 - event

 - valSvcAreaIds

 ValServiceAreaNotif:

 description: Represents the VAL service area change event(s) notifcation.

 type: object

 properties:

 valSvcAreaConts:

 description: Represents the VAL service area change event(s) content.

 minItems: 1

 items:

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

 required:

 - valSvcAreaConts

 ValServiceAreaEventInfo:

 description: Represents the VAL service area change event(s) content.

 type: object

 properties:

 event:

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

 valSvcAreas:

 type: array

 description: Represents the VAL service area(s) associated with the event.

 minItems: 1

 items:

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

 valSvcAreaIds:

 type: array

 description: Represents the VAL service area(s) associated with the event.

 minItems: 1

 items:

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

 required:

 - event

# Simple data types and Enumerations

 ValServiceAreaEvent:

 anyOf:

 - type: string

 enum:

 - UPDATE

 - DELETE

 - type: string

 description: >

 This string provides forward-compatibility with future

 extensions to the enumeration and is not used to encode

 content defined in the present version of this API.

 description: |

 Represents the VAL service area change event.

 Possible values are:

 - UPDATE: Indicates that the VAL service area change event is VAL service area update.

 - DELETE: Indicates that the VAL service area change event is VAL service area delete.

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