**3GPP TSG- Meeting #130 *C3-234354***

**Xiamen, China, 09th – 13th October, 2023**

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| *CR-Form-v12.2* | | | | | | | | |
| **CHANGE REQUEST** | | | | | | | | |
|  | | | | | | | | |
|  |  | **CR** | **0180** | **rev** | **-** | **Current version:** |  |  |
|  | | | | | | | | |
| *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** |

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| ***Title:*** | Subscribe/Notify service operation procedures in the SS\_VALServiceAreaConfiguration API | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Source to WG:*** |  | | | | | | | | | |
| ***Source to TSG:*** | CT3 | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Work item code:*** | SEAL\_Ph3 | | | | |  | ***Date:*** | | |  |
|  |  | | | |  | |  | | |  |
| ***Category:*** | **B** |  | | | | | ***Release:*** | | |  |
|  | *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-16 (Release 16) Rel-17 (Release 17) Rel-18 (Release 18) Rel-19 (Release 19)* | |
|  |  | | | | | | | | | |
| ***Reason for change:*** | | Clauses 9.4.8.6, 9.4.8.7, and 9.4.8.8 of 23.434 (see CR#0228 of 23.434) specify the subscribe/notify service operations for the SS\_VALServiceAreaConfiguration API. Thus, the specified service operations shall be implemented in stage 3. | | | | | | | | |
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| ***Summary of change:*** | | This CR introduces the procedures of the subscribe/notify service operations for the SS\_VALServiceAreaConfiguration API. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Consequences if not approved:*** | | Misalignment with stage 2 requirements. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Clauses affected:*** | | 5.2.7.2.1, 5.2.7.2.6(new), 5.2.7.2.7(new), 5.2.7.2.8(new) | | | | | | | | |
|  | |  | | | | | | | | |
|  | | **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 does not affect any OpenAPI file. | | | | | | | | |
| ***()*** | |  | | | | | | | | |
| ***This CR's revision history:*** | |  | | | | | | | | |

**Additional discussion(if needed):**

**Proposed changes:**

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

##### 5.2.7.2.1 Introduction

The service operations defined for the SS\_VALServiceAreaConfiguration API are shown in the table 5.2.7.2.1-1.

Table 5.2.7.2.1-1: Service operations of the SS\_VALServiceAreaConfiguration API

|  |  |  |
| --- | --- | --- |
| Service operation name | Description | Initiated by |
| Configure\_VAL\_Service\_Area | This service operation is used by a VAL Server to configure VAL service area(s). | VAL Server |
| Obtain\_VAL\_Service\_Area | This service operation is used by a VAL Server to obtain VAL service area(s) related information. | VAL Server |
| Update\_VAL\_Service\_Area | This service operation is used by a VAL Server to request the update of VAL service area(s). | VAL Server |
| Delete\_VAL\_Service\_Area | This service operation is used by a VAL Server to request the deletion of VAL service area(s). | VAL Server |
| Subscribe\_VAL\_Service\_Area\_Change\_Event | This service operation is used by a SEAL Server to subscribe to the VAL service area(s) change event(s) reporting. | SEAL Server |
| Notify\_VAL\_Service\_Area\_Change\_Event | This service operation is used by a LM Server to notify for the VAL service area(s) change event(s). | SEAL Server |
| Unsubscribe\_VAL\_Service\_Area\_Change\_Event | This service operation is used by a SEAL Server to unsubscribe from the VAL service area(s) change event(s). | SEAL Server |

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

##### 5.2.7.2.6 Subscribe\_VAL\_Service\_Area\_Change\_Event

###### 5.2.7.2.6.1 General

This service operation is used by a SEAL Server to subscribe to the VAL service area(s) change event(s) reporting.

###### 5.2.7.2.6.2 SEAL Server subscribes for the VAL service area(s) change event(s) using the Subscribe\_VAL\_Service\_Area\_Change\_Event service operation

In order to subscribe to the VAL service area(s) change event(s) reporting, the SEAL Server shall send an HTTP POST request message targeting the URI of the "VAL Service Area Change Subscriptions" resource as specified in clause 7.1.3.2.3.3.1. The request body shall include the ValServiceAreaSubsc data structure defined in clause 7.1.3.4.2.6.

Upon reception of the HTTP POST request message, the LM Server shall:

1. verify the identity of the SEAL Server and whether the SEAL Server is authorized to subscribe to the VAL service area(s) change event(s) reporting at the LM Server;

2. if the SEAL Server is authorized, the LM Server shall create a new "Individual VAL Service Area Change Subscription" resource and respond to the VAL server with an HTTP "201 Created" status code, including a Location header field containing the URI for the created "Individual VAL Service Area Change Subscription" resource and the response body including the ValServiceAreaSubsc data structure containing a representation of the created resource as defined in clause 7.1.3.4.2.6; and

3. if errors occur when processing the request, the LM Server shall respond to the SEAL Server with an appropriate error response as specified in clause 7.1.3.5.

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

##### 5.2.7.2.7 Unsubscribe\_VAL\_Service\_Area\_Change\_Event

###### 5.2.7.2.7.1 General

This service operation is used by a SEAL Server to unsubscribe from the VAL service area(s) change event(s) reporting.

###### 5.2.7.2.7.2 SEAL server unsubscribes from the VAL service area(s) change event(s) using Unsubscribe\_VAL\_Service\_Area\_Change\_Event

In order to terminate an individual VAL service area change event subscription, the SEAL server shall send an HTTP DELETE request message to the LM Server, on the corresponding "Individual VAL Service Area Change Subscription" resource URI as specified in clause 7.1.3.2.4.3.1.

Upon reception of the HTTP DELETE request message, the LM server shall:

1. verify the identity of the SEAL Server and check if the SEAL Server is authorised to terminate the targeted "Individual VAL Service Area Change Subscription" associated with the resource URI;

2. if the SEAL Server is authorized to unsubscribe from VAL service area(s) change event(s), the LM Server shall delete the related "Individual VAL Service Area Change Subscription" subscription resource at the LM Server; and

3. upon success, respond to the SEAL server with a "204 No Content" status code. Otherwise, the LM Server shall respond to the SEAL Server with an appropriate error response as specified in clause 7.1.3.5.

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

##### 5.2.7.2.8 Notify\_VAL\_Service\_Area\_Change\_Event

###### 5.2.7.2.8.1 General

This service operation is used by a LM Server to notify for the VAL service area(s) change event(s).

###### 5.2.7.2.8.2 LM server notifies the SEAL Server on VAL service area(s) change event(s) using Notify\_VAL\_Service\_Area\_Change\_Event

In order to notify the SEAL server about VAL service area(s) change event(s), the LM Server shall send an HTTP POST request message to the SEAL Server targeting the notification URI provided during subscription creation as specified in clause 5.2.7.2.6.

Upon receiving the HTTP POST request message, the SEAL Server shall:

1. process the VAL service area change event(s) notification; and

2. upon success, respond to the LM Server with a "204 No Content" status code. Otherwise, the SEAL Server shall respond to the LM Server with an appropriate error response as specified in clause 7.1.3.5.

\* \* \* End of changes \* \* \* \*