**3GPP TSG-CT WG3 Meeting #108eC3-201270**

**E-Meeting, 19th – 28th February 2020**

**Source: Samsung**

**Title: Pseudo-CR on SEAL Events Service Definition**

**Spec: 3GPP TS 29.549 v1.0.0**

**Agenda item: 16.28**

**Document for: Decision**

**1. Introduction**

Subscribe/Notify semantic service operations are specified in TS 23.434 for various SEAL services. The event type service API (SS\_Events) needs to be specified, which applies for all SEAL services that need. This contribution proposes the SEAL Events service definition.

**2. Reason for Change**

SS\_Events service definition needs to be specified that is needed for all SEAL services.

**3. Conclusions**

Add SEAL Events service definition

**4. Proposal**

It is proposed to agree the following changes to 3GPP TS 29.549 v1.0.0.

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

## 5.x Events APIs

### 5.x.1 SS\_Events API

#### 5.x.1.1 Service Description

##### 5.x.1.1.1 Overview

The SS\_Events API, allows a VAL server via LM-S, GM-S, CM-S reference points to subscribe and unsubscribe from SEAL events and to receive notifications from the Location Management Server, Group Management Server and Configuration Management Server respectively.

#### 5.x.1.2 Service Operations

##### 5.x.1.2.1 Introduction

The service operations defined for the SS\_Events API are shown in the table 5.x.1.2.1-1.

Table 5.x.1.2.1-1: Operations of the SS\_Events API

|  |  |  |
| --- | --- | --- |
| Service operation name | Description | Initiated by |
| Subscribe\_Event | This service operation is used by VAL server to subscribe for events from SEAL servers. | VAL Server |
| Unsubscribe\_Event | This service operation is used by VAL server to unsubscribe for events from SEAL servers. | VAL Server |
| Notify\_Event | This service operation is used by SEAL servers to send the notifications to the VAL server. | SEAL servers (Location Management, Group Management, Configuration Management). |

##### 5.x.1.2.2 Subscribe\_Event

###### 5.x.1.2.2.1 General

This service operation is used by a VAL server to subscribe to the SEAL events.

###### 5.x.1.2.2.1 Subscribing to SEAL events using Subscribe\_Event service operation

To subscribe to SEAL events, the VAL server shall send an HTTP POST message to the SEAL server. The body of the HTTP POST message shall include VAL Server Identifier, Event Type, Event Filters, Reporting Requirements and a Notification Destination URI as specified in clause 7.x.1.2.2.3.1.

Upon receiving the above described HTTP POST message, the SEAL server shall:

1. verify the identity of the VAL server and check if the VAL server is authorized to subscribe to the SEAL events mentioned in the HTTP POST message;

2. if the VAL server is authorized to subscribe to the SEAL events, the SEAL server shall:

a. create a new resource as specified in clause 7.x.1.2.1; and

b. return the SEAL Resource URI in the response message.

##### 5.x.1.2.3 Notify\_Event

###### 5.x.1.2.3.1 General

This service operation is used by the SEAL servers to send notifications to the VAL server.

###### 5.x.1.2.3.2 Notifying SEAL events using Notify\_Event service operation

To notify the SEAL events, the SEAL server shall send an HTTP POST message using the Notification Destination URI received in the subscription request. The body of the HTTP POST message shall include an Event Notification and SEAL Resource URI.

Upon receiving the HTTP POST message, the VAL server shall process the Event Notification.

##### 5.x.1.2.4 Unsubscribe\_Event

###### 5.x.1.2.4.1 General

This service operation is used by a VAL server to un-subscribe from the SEAL events.

###### 5.x.1.2.4.2 Unsubscribing from SEAL events using Unsubscribe\_Event service operation

To unsubscribe from SEAL events, the VAL server shall send an HTTP DELETE message to the resource representing the event in the SEAL server as specified in clause 7.x.1.2.3.3.1.

Upon receiving the HTTP DELETE message, the SEAL sever shall:

1. verify the identity of the VAL server and check if the VAL server is authorized to Unsubscribe from the SEAL event associated with the SEAL Resource URI; and

2. if the VAL server is authorized to unsubscribe from the SEAL events, the SEAL server shall delete the resource pointed by the SEAL Resource URI.

\* \* \* End of Change \* \* \* \*