**3GPP TSG CT WG3 Meeting #138 *C3-246234\_R1***

**Orlando, US, 18 - 22 November, 2024**

|  |
| --- |
| *CR-Form-v12.3* |
| **CHANGE REQUEST** |
|  |
|  |  | **CR** | **0029** | **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)*.* |
|  |

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| ***Proposed change affects:*** | UICC apps |  | ME |  | Radio Access Network |  | Core Network | **X** |

|  |
| --- |
|  |
| ***Title:***  | Sdd\_InformACREvent API implementation |
|  |  |
| ***Source to WG:*** |  |
| ***Source to TSG:*** | CT3 |
|  |  |
| ***Work item code:*** | SEALDD\_Ph2 |  | ***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 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:*** | 3GPP TS 23.433 introduces Sdd\_InformACREvent API that needs to be implemented. |
|  |  |
| ***Summary of change:*** | Sdd\_InformACREvent API is implemented in 29.548. |
|  |  |
| ***Consequences if not approved:*** | Stage 2 requirements are not implemented in Stage 3. |
|  |  |
| ***Clauses affected:*** | 5.4.1, 5.4.2.1, 5.4.2.4 (new), 5.4.2.5 (new), 6.3.3.1, 6.3.3.3 (new), 6.3.5, 6.3.6.1, 6.3.6.2.8 (new), 6.3.6.2.9 (new), A.4 |
|  |  |
|  | **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 provides BC feature of the SDD\_DDContext API.
 |
| ***()*** |  |
| ***This CR's revision history:*** |  |

**Additional discussion(if needed):**

**Proposed changes:**

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

### 5.4.1 Service Description

The SDD\_DDContext service exposed by the SEALDD Server enables a service consumer to:

- push the DD context to the SEALDD Server;

- pull the DD context from the SEALDD Server;

- inform the SEALDD Server about ACR event(s); and

- receive DD related event(s) reporting.

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

#### 5.4.2.1 Introduction

The service operations defined for the SDD\_DDContext API are shown in the table 5.4.2.1-1.

Table 5.4.2.1-1: SDD\_DDContext Service Operations

|  |  |  |
| --- | --- | --- |
| Service operation name | Description | Initiated by |
| SDD\_DDContext\_Push | This service operation is used by a service consumer to push a DD context to the SEALDD Server. | e.g., SEALDD Server |
| SDD\_DDContext\_Pull | This service operation is used by a service consumer to pull a DD context from the SEALDD Server. | e.g., SEALDD Server |
| SDD\_DDContext\_InformACREvent | This service operation is used by a service consumer to inform the SEALDD Server on ACR event(s). | e.g., VAL Server |
| SDD\_DDContext\_Notify | This service operation is used by the SEALDD Server to notify the service consumer on DD related event(s). | SEALDD Server |

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

#### 5.4.2.4 SDD\_DDContext\_InformACREvent

##### 5.4.2.4.1 General

This service operation is used by a service consumer to inform the SEALDD Server on ACR event(s).

The following procedures are supported by the "SDD\_DDContext\_InformACREvent" service operation:

- Inform ACR Events Request.

##### 5.4.2.4.2 Inform ACR Events Request

Figure 5.4.2.4.2-1 depicts a scenario where a service consumer sends a request to the SEALDD Server to inform on ACR event(s) (see also clause 9.6 of 3GPP°TS°23.433°[7]).

Figure 5.4.2.4.2-1: Procedure for Inform ACR Event Request

1. In order to to inform on ACR event(s), the service consumer shall send an HTTP POST request targeting the URI of the corresponding custom operation (i.e., "InformACREvent"), with the request body including the InformACREvent data structure.

2a. Upon success, the SEALDD Server shall respond with an HTTP "204 No Content" status code.

2b. On failure, the appropriate HTTP status code indicating the error shall be returned and appropriate additional error information should be returned in the HTTP POST response body, as specified in clause 6.3.7.

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

#### 5.4.2.5 SDD\_DDContext\_Notify

##### 5.4.2.5.1 General

This service operation is used by a SEALDD Server to notify a service consumer on DD related event(s).

The following procedures are supported by the "SDD\_DDContext\_Notify" service operation:

- ACR Event Notification.

##### 5.4.2.5.2 ACR Event Notification

Figure 5.4.2.5.2-1 depicts a scenario where the SEALDD Server sends a request to notify a previously subscribed service consumer on ACR event status (see also clause 9.6 of 3GPP°TS°23.433°[7]).



Figure 5.4.2.5.2-1: Procedure for ACR Event Notification

1. In order to notify a previously subscribed service consumer on ACR event status, the SEALDD Server shall send an HTTP POST request to the service consumer with the request URI set to "{notifUri}/inform-acr", where the "notifUri" variable is set to the value received from the service consumer during the corresponding Inform ACR Event request defined in clause 5.4.2.4, and the request body including the AcrEventNotif data structure.

2a. Upon success, the service consumer shall respond to the SEALDD Server with an HTTP "204 No Content" status code to acknowledge the reception of the notification.

2b. On failure, the appropriate HTTP status code indicating the error shall be returned and appropriate additional error information should be returned in the HTTP POST response body, as specified in clause 6.3.7.

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

### 6.3.4 Custom Operations without associated resources

#### 6.3.4.1 Overview

The structure of the custom operation URIs of the SDD\_DDContext API is shown in Figure 6.3.4.1-1.



Figure 6.3.4.1-1: Custom operation URI structure of the SDD\_DDContext API

Table 6.3.4.1-1 provides an overview of the custom operations and applicable HTTP methods defined for the SDD\_DDContext API.

Table 6.3.4.1-1: Custom operations without associated resources

|  |  |  |  |
| --- | --- | --- | --- |
| Custom operation name | Custom operation URI | Mapped HTTP method | Description |
| InformACREvent | /inform | POST | Enables a service consumer to inform the SEALDD Server on ACR event(s). |

The custom operations shall support the URI variables defined in table 6.3.4.1-2.

Table 6.3.4.1-2: URI variables for this custom operation

|  |  |  |
| --- | --- | --- |
| Name | Data type | Definition |
| apiRoot | string | See clause 6.3.1. |

#### 6.3.4.2 Operation: InformACREvent

##### 6.3.4.2.1 Description

The custom operation enables a service consumer to inform the SEALDD Server on ACR event(s).

##### 6.3.4.2.2 Operation Definition

This operation shall support the request data structures specified in table 6.3.4.2.2-1 and the response data structures and response codes specified in table 6.3.4.2.2-2.

Table 6.3.4.2.2-1: Data structures supported by the POST Request Body on this custom operation

|  |  |  |  |
| --- | --- | --- | --- |
| Data type | P | Cardinality | Description |
| InformACREvent | M | 1 | Contains the ACR event information. |

Table 6.3.4.2.2-2: Data structures supported by the POST Response Body on this custom operation

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Data type | P | Cardinality | Responsecodes | Description |
|  |  |  | 204 No Content | Successful case. The ACR event information is successfully received and processed. |
| n/a |  |  | 307 Temporary Redirect | Temporary redirection.The response shall include a Location header field containing an alternative target URI located in an alternative SEALDD Server.Redirection handling is described in clause 5.2.10 of 3GPP TS 29.122 [2]. |
| n/a |  |  | 308 Permanent Redirect | Permanent redirection.The response shall include a Location header field containing an alternative target URI located in an alternative SEALDD Server.Redirection handling is described in clause 5.2.10 of 3GPP TS 29.122 [2] |
| NOTE: The mandatory HTTP error status codes for the HTTP POST method listed in table 5.2.6-1 of 3GPP TS 29.122 [2] shall also apply. |

Table 6.3.4.2.2-3: Headers supported by the 307 Response Code on this custom operation

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Name | Data type | P | Cardinality | Description |
| Location | string | M | 1 | Contains an alternative target URI located in an alternative SEALDD Server. |

Table 6.3.4.2.2-4: Headers supported by the 308 Response Code on this custom operation

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Name | Data type | P | Cardinality | Description |
| Location | string | M | 1 | Contains an alternative target URI located in an alternative SEALDD Server. |

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

### 6.3.5 Notifications

#### 6.3.5.1 General

Notifications shall comply to clause 6.6 of 3GPP TS 29.549 [15].

Table 6.3.5.1-1: Notifications overview

|  |  |  |  |
| --- | --- | --- | --- |
| Notification | Callback URI | HTTP method or custom operation | Description(service operation) |
| ACR Event Notification | {notifUri}/inform-acr | POST | Enables a SEALDD Server to notify the service consumer on ACR event status. |

#### 6.3.5.2 ACR Event Notification

##### 6.3.5.2.1 Description

The ACR Event Notification is used by the SEALDD Server to notify a previously subscribed service consumer on ACR event status.

##### 6.3.5.2.2 Target URI

The Callback URI **"{notifUri}/inform-acr"** shall be used with the callback URI variables defined in table 6.3.5.2.2-1.

Table 6.3.5.2.2-1: Callback URI variables

|  |  |
| --- | --- |
| Name | Definition |
| notifUri | Represents the callback URI encoded as a string formatted as a URI. |

##### 6.3.5.2.3 Standard Methods

6.3.5.2.3.1 POST

This method shall support the request data structures specified in table 6.3.5.2.3.1-1 and the response data structures and response codes specified in table 6.3.5.2.3.1-2.

Table 6.3.5.2.3.1-1: Data structures supported by the POST Request Body

|  |  |  |  |
| --- | --- | --- | --- |
| Data type | P | Cardinality | Description |
| AcrEventNotif | M | 1 | Represents the ACR Event Notification. |

Table 6.3.5.2.3.1-2: Data structures supported by the POST Response Body

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Data type | P | Cardinality | Response codes | Description |
| n/a |  |  | 204 No Content | Successful case. The ACR Event Notification is successfully received and acknowledged. |
| n/a |  |  | 307 Temporary Redirect | Temporary redirection.The response shall include a Location header field containing an alternative URI representing the end point of an alternative service consumer towards which the notification should be sent.Redirection handling is described in clause 5.2.10 of 3GPP TS 29.122 [3]. |
| n/a |  |  | 308 Permanent Redirect | Permanent redirection.The response shall include a Location header field containing an alternative URI representing the end point of an alternative service consumer towards which the notification should be sent.Redirection handling is described in clause 5.2.10 of 3GPP TS 29.122 [3]. |
| NOTE: The mandatory HTTP error status codes for the HTTP POST method listed in table 5.2.6-1 of 3GPP TS 29.122 [2] shall also apply. |

Table 6.3.5.2.3.1-3: Headers supported by the 307 Response Code on this resource

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Name | Data type | P | Cardinality | Description |
| Location | string | M | 1 | Contains an alternative URI representing the end point of an alternative service consumer towards which the notification should be redirected. |

Table 6.3.5.2.3.1-4: Headers supported by the 308 Response Code on this resource

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Name | Data type | P | Cardinality | Description |
| Location | string | M | 1 | Contains an alternative URI representing the end point of an alternative service consumer towards which the notification should be redirected. |

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

#### 6.3.6.1 General

This clause specifies the application data model supported by the API.

Table 6.3.6.1-1 specifies the data types defined for the SDD\_DDContext API.

Table 6.3.6.1-1: SDD\_DDContext API specific Data Types

|  |  |  |  |
| --- | --- | --- | --- |
| Data type | Section defined | Description | Applicability |
| InformACREvent | 6.3.6.2.8 | Represents the ACR event information. |  |
| AcrEventNotif | 6.3.6.2.9 | Represents the ACR Event Notification. |  |
| DdContext | 6.3.6.2.2 | Represents the DD context. |  |
| DdContextPushReq | 6.3.6.2.4 | Represents the DD context push request. |  |
| DdContextResp | 6.3.6.2.5 | Represents the DD context push response. |  |
| FlowTransResult | 6.3.6.3.3 | Represnets the flow transfer result. |  |
| SddUuContext | 6.3.6.2.6 | Represents the context related to the SEALDD-Uu connection. |  |
| SddSContext | 6.3.6.2.7 | Represents the context related to the SEALDD-S connection. |  |
| TranspLayerContext | 6.3.6.2.3 | Represents the transport layer context. |  |

Table 6.3.6.1-2 specifies data types re-used by the SDD\_DDContext API from other specifications, including a reference to their respective specifications, and when needed, a short description of their use within the SDD\_DDContext API.

Table 6.3.6.1-2: SDD\_DDContext API re-used Data Types

|  |  |  |  |
| --- | --- | --- | --- |
| Data type | Reference | Comments | Applicability |
| ConnInfo | 6.1.6.2.4 | Represents SEALDD Data transmission connection information. |  |
| DurationSec | 3GPP TS 29.122 [2] | Represents a time duration in seconds. |  |
| ProblemDetails | 3GPP TS 29.122 [2] | Represents error related information. |  |
| QoSInfo | 6.1.6.2.5 | Represents SEALDD related QoS requirements. |  |
| SupportedFeatures | 3GPP TS 29.571 [18] | Represents the list of supported feature(s) and used to negotiate the applicability of the optional features. |  |
| TransportProtocol | 3GPP TS 29.558 [17] | Represents the transport layer protocol. |  |
| ValServBdw | 6.1.6.2.6 | Represents VAL Server related bandwidth information. |  |
| ValTargetUe | 3GPP TS 29.549 [15] | Represents the identifier of a VAL UE or VAL user. |  |
| ValUsersBdw | 6.1.6.2.7 | Represents VAL users related bandwidth information. |  |
| Uri | 3GPP TS 29.122 [2] | Represents a URI. |  |

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

##### 6.3.6.2.8 Type: InformACREvent

Table 6.3.6.2.7-1: Definition of type InformACREvent

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Attribute name | Data type | P | Cardinality | Description | Applicability |
| valServerId | string | M | 1 | Contains the identifier of the VAL Server. |  |
| valServiceId | string | O | 0..1 | Contains the identifier of the VAL service. |  |
| notifUri | Uri | O | 0..1 | Contains URI via which ACR Event notifications shall be delivered. |  |
| suppFeat | SupportedFeatures | C | 0..1 | Represents the list of supported features among the ones defined in clause 6.3.8.This attribute shall be present only when feature negotiation needs to take place. |  |

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

##### 6.3.6.2.9 Type: AcrEventNotif

Table 6.3.6.2.7-1: Definition of type AcrEventNotif

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Attribute name | Data type | P | Cardinality | Description | Applicability |
| result | FlowTransResult | M | 1 | Represents the SEALDD flow transfer result. |  |

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

##### 6.3.6.3.3 Enumeration: FlowTransResult

The enumeration FlowTransResult represents the SEALDD flow transfer result. It shall comply with the provisions defined in table 6.3.6.3.3-1.

Table 6.3.6.3.3-1: Enumeration FlowTransResult

|  |  |  |
| --- | --- | --- |
| Enumeration value | Description | Applicability |
| SUCCESS | Indicates that the flow transfer was successful. |  |
| FAILURE | Indicates that the flow transfer failed. |  |

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

# A.4 SDD\_DDContext API

openapi: 3.0.0

info:

 title: SEALDD Server Data Delivery Context Relocation

 version: 1.0.0

 description: |

 SEALDD Server Data Delivery Context Relocation.

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externalDocs:

 description: >

 3GPP TS 29.548 V18.1.0 Service Enabler Architecture Layer for Verticals (SEAL);

 SEAL Data Delivery (SEALDD) Server Services; Stage 3.

 url: https://www.3gpp.org/ftp/Specs/archive/29\_series/29.548/

security:

 - {}

 - oAuth2ClientCredentials: []

servers:

 - url: '{apiRoot}/sdd-ddc/v1'

 variables:

 apiRoot:

 default: https://example.com

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

paths:

 /contexts:

 get:

 summary: Pull the DD context from the SEALDD Server.

 operationId: PullDdContext

 tags:

 - DD Contexts (Collection)

 parameters:

 - name: sealdd-pol-ind

 in: query

 required: false

 schema:

 type: boolean

 default: false

 description: >

 Indicates whether the configured SEALDD Policy(ies), if any, is/are requested and

 shall hence be provided in addition to the DD Context.

 true indicates that the configured SEALDD Policy(ies) is/are requested.

 false indicates that the configured SEALDD Policy(ies) is/are not requested.

 The default value when this query parameter is omitted is false.

 - name: supp-feats

 in: query

 description: Contains the list of supported features.

 required: false

 schema:

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

 responses:

 '200':

 description: Successful case. The requested DD context is returned.

 content:

 application/json:

 schema:

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

 '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'

 post:

 summary: Push the DD context to the SEALDD Server.

 tags:

 - DD Contexts (Collection)

 requestBody:

 description: >

 Represents the DD context to be pushed to the

 SEALDD Server.

 required: true

 content:

 application/json:

 schema:

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

 responses:

 '201':

 description: >

 Created. Successful case. The DD context is successfully pushed to the SEALDD Server and

 the related information is returned in the response body.

 content:

 application/json:

 schema:

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

 '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'

 /inform:

 post:

 summary: Inform the SEALDD Server on ACR event(s).

 operationId: InformAcrEvent

 tags:

 - Inform ACR Events Request

 requestBody:

 required: true

 content:

 application/json:

 schema:

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

 responses:

 '204':

 description: >

 No Content. The ACR event information is successfully received and processed.

 '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'

 callbacks:

 ACREventNotif:

 '{$request.body#/notifUri}/inform-acr':

 post:

 requestBody:

 required: true

 content:

 application/json:

 schema:

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

 responses:

 '204':

 description: >

 No Content. The ACR Event Notification is successfully received and

 acknowledged.

 '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'

components:

 securitySchemes:

 oAuth2ClientCredentials:

 type: oauth2

 flows:

 clientCredentials:

 tokenUrl: '{tokenUrl}'

 scopes: {}

 schemas:

#

# STRUCTURED DATA TYPES

#

 DdContext:

 description: Represents the DD context.

 type: object

 properties:

 uuContext:

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

 sContext:

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

 trLayerContext:

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

 required:

 - uuContext

 - sContext

 TranspLayerContext:

 description: Represents the transport layer context.

 type: object

 properties:

 transProtoc:

 $ref: 'TS29558\_Eees\_EASRegistration.yaml#/components/schemas/TransportProtocol'

 required:

 - transProtoc

 DdContextPushReq:

 description: Represents the DD context push request.

 type: object

 properties:

 ddContext:

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

 suppFeat:

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

 required:

 - ddContext

 DdContextResp:

 description: Represents the DD context push response.

 type: object

 properties:

 ddContext:

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

 endPoint:

 $ref: 'TS29548\_SDD\_Transmission.yaml#/components/schemas/ConnInfo'

 policies:

 type: array

 items:

 $ref: 'TS29548\_SDD\_PolicyConfiguration.yaml#/components/schemas/PolicyConfig'

 minItems: 1

 suppFeat:

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

 SddUuContext:

 description: Represents the context related to the SEALDD-Uu connection.

 type: object

 properties:

 sddFlowId:

 type: string

 description: Represents the SEALDD flow ID.

 valServiceId:

 type: string

 description: Contains the identifier of the VAL service.

 valServerId:

 type: string

 description: Contains the identifier of the VAL Server.

 valServEndPoint:

 $ref: 'TS29548\_SDD\_Transmission.yaml#/components/schemas/ConnInfo'

 ddClientConnInfo:

 $ref: 'TS29548\_SDD\_Transmission.yaml#/components/schemas/ConnInfo'

 ddServConnInfo:

 $ref: 'TS29548\_SDD\_Transmission.yaml#/components/schemas/ConnInfo'

 valTgtUe:

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

 comLifetime:

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

 valUsersBdw:

 $ref: 'TS29548\_SDD\_Transmission.yaml#/components/schemas/ValUsersBdw'

 pendingTimer:

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

 required:

 - sddFlowId

 - valServEndPoint

 SddSContext:

 description: Represents the context related to the SEALDD-S connection.

 type: object

 properties:

 valServerId:

 type: string

 description: Contains the identifier of the VAL Server.

 valServiceId:

 type: string

 description: Contains the identifier of the VAL service.

 valTargetId:

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

 valServerConnInfo:

 $ref: 'TS29548\_SDD\_Transmission.yaml#/components/schemas/ConnInfo'

 ddServerConnInfo:

 $ref: 'TS29548\_SDD\_Transmission.yaml#/components/schemas/ConnInfo'

 qosInfo:

 $ref: 'TS29548\_SDD\_Transmission.yaml#/components/schemas/QosInfo'

 valServerBdw:

 $ref: 'TS29548\_SDD\_Transmission.yaml#/components/schemas/ValServBdw'

 valUsersBdw:

 $ref: 'TS29548\_SDD\_Transmission.yaml#/components/schemas/ValUsersBdw'

 required:

 - valServerId

 - valServerConnInfo

 InformACREvent:

 description: Represents the ACR event information.

 type: object

 properties:

 valServerId:

 type: string

 valServiceId:

 type: string

 notifUri:

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

 suppFeat:

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

 required:

 - valServerId

 AcrEventNotif:

 description: Represents the ACR Event Notification.

 type: object

 properties:

 result:

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

 required:

 - result

# SIMPLE DATA TYPES

#

#

# ENUMERATIONS

#

 FlowTransResult:

 anyOf:

 - type: string

 enum:

 - SUCCESS

 - FAILURE

 - 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 SEALDD flow transfer result.

 Possible values are:

 - SUCCESS: Indicates that the flow transfer was successful.

 - FAILURE: Indicates that the flow transfer was failed.

# Data types describing alternative data types or combinations of data types:

#

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