**3GPP TSG-CT WG3 Meeting #130 *C3-234359***

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

**Source: Ericsson**

**Title: Pseudo-CR on the ENs resolution in the Sdd\_DDContext API**

**Spec: 3GPP TS 29.548 V0.3.0**

**Agenda item: 18.22**

**Document for: Agreement**

**1. Introduction**

TS 23.433 is introduced the Sdd\_DDContext API for SEALDD Layer. The ENs were introduced in the last meeting that shall be resolved.

**2. Reason for Change**

The ENs shall be resolved in the Sdd\_DDContext API.

**3. Conclusions**

**4. Proposal**

It is proposed to agree the following changes to 3GPP TS 29.548 V0.3.0.

\*\*\* First 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 |
| DdContext | 6.3.6.2.2 | Represents the DD context. |  |
| DdContextPushReq | 6.3.6.2.4 | Represents the DD context relocation push request. |  |
| DdContextPushResp | 6.3.6.2.5 | Represents the DD context relocation push response. |  |
| SddContext | 6.3.6.2.6 | Represents the context related to the SEALDD 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: Re-used Data Types

|  |  |  |  |
| --- | --- | --- | --- |
| Data type | Reference | Comments | Applicability |
| ConnInfo | clause 6.1.6.2.4 | Represents SEALDD Data transmission connection information. |  |
| RouteInformation | 3GPP TS 29.571 [18] | Represents the end point information. |  |
| SupportedFeatures | 3GPP TS 29.571 [18] | Represents the supported features and used to negotiate the supported optional features. |  |
| TransportProtocol | 3GPP TS 29.558 [17] | Represents the transport layer protocol. |  |

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

##### 6.3.6.2.2 Type: DdContext

Table 6.3.6.2.2-1: Definition of type DdContext

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Attribute name | Data type | P | Cardinality | Description | Applicability |
| uuContext | SddContext | M | 1 | Represents the context related to the SEALDD-Uu connection. |  |
| sContext | SddContext | M | 1 | Represents the context related to the SEALDD-S connection. |  |
| trLayerContext | TranspLayerContext | O | 0..1 | Represents the transport layer context. |  |

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

##### 6.3.6.2.6 Type: SddContext

Table 6.3.6.2.6-1: Definition of type SddContext

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Attribute name | Data type | P | Cardinality | Description | Applicability |
| sddFlowId | string | M | 1 | Represents the SEALDD flow identity. |  |
| valServiceId | string | O | 0..1 | Represents the VAL service identity. |  |
| valServerId | string | O | 0..1 | Represents the identity of the VAL ServerThis attribute shall be present only when this data type is used to encode a SEALDD-Uu context. |  |
| endPoint | RouteInformation | M | 1 | Represents the endpoint information for the selected VALSserver. |  |
| trafficDescr | ConnInfo | O | 0..1 | Represents SEALDD traffic descriptor. |  |
| valTgtUe | ValTargetUeId | O | 0..1 | Represents the VAL UE or VAL user identity. |  |
| comLifetime | DurationSec | O | 0..1 | Represents the SEALDD communication lifetime. |  |

Editor's Note: The encoding of the "valTgtUe" attribute is FFS and pending for the Stage 2 feedback.

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

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

# A.3 SDD\_DDContext API

openapi: 3.0.0

info:

 title: SEALDD Server Data Delivery Context Relocation

 version: 1.0.0-alpha.1

 description: |

 SEALDD Server Data Delivery Context Relocation.

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externalDocs:

 description: >

 3GPP TS 29.548 V0.3.0 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 Context Instances (Collection)

 parameters:

 - 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/DdContextPushReq'

 '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'

 post:

 summary: Push the DD context to the SEALDD Server.

 tags:

 - DD Context Instances (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:

 '200':

 description: >

 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/DdContextPushResp'

 '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:

 DdContext:

 description: Represents the DD context.

 type: object

 properties:

 uuContext:

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

 sContext:

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

 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 relocation push request.

 type: object

 properties:

 ddContext:

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

 suppFeat:

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

 DdContextPushResp:

 description: Represents the DD context relocation push response.

 type: object

 properties:

 endPoint:

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

 suppFeat:

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

 SddContext:

 description: Represents the DD context relocation push response.

 type: object

 properties:

 sddFlowId:

 type: string

 description: Represents the SEALDD flow identity.

 valServiceId:

 type: string

 description: Represents the VAL service identity.

 valServerId:

 type: string

 description: Identity of the VAL server, applicable only for SEALDD-Uu context.

 endPoint:

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

 trafDescr:

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

 comLifetime:

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

 required:

 - sddFlowId

 - endPoint

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