**3GPP TSG- Meeting #130 *C3-234359\_R1***

**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 | C | 0..1 | Represents the transport layer context.  This attribute shall be provided if the SEALDD Server supports transportation layer service continuity. |  |

\*\*\* 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 | C | 0..1 | Represents the identity of the VAL Server.  This 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 VAL Server. |  |
| trafficDescr | ConnInfo | O | 0..1 | Represents SEALDD traffic descriptor. |  |
| valTgtUe | FFS | 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 SEALDD Data transmission connection information.

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'

trafficDescr:

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

comLifetime:

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

required:

- sddFlowId

- endPoint

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