**3GPP TSG- Meeting #C3-234xxx**

**Xiamen, China, – was C3-234130**

**Source: Huawei**

**Title: Pseudo-CR on defining the API definition clauses of the SDD\_PolicyConfiguration API**

**Spec: 3GPP TS 29.548 V 0.3.0**

**Agenda item: 18.22 (SEALDD)**

**Document for: Agreement**

**1. Introduction**

As specified in clause 9.10 of TS 23.433, the SDD\_PolicyConfiguration Service API was defined in order to support the functionality of SEALDD policy configuration.

The stage 3 definition of this API in this specification needs hence to be started.

**2. Reason for Change**

Start the definition of the API definition clauses of the new SDD\_PolicyConfiguration Service API in the new TS 29.548.

**3. Conclusions**

N/A

**4. Proposal**

It is proposed to agree the following changes to 3GPP TS 29.548 V 0.3.0.

\* \* \* \* Start of changes \* \* \* \*

## 6.5 SDD\_PolicyConfiguration API

### 6.5.1 Introduction

The SDD\_PolicyConfiguration service shall use the SDD\_PolicyConfiguration API.

The API URI of the SDD\_PolicyConfiguration Service API shall be:

**{apiRoot}/<apiName>/<apiVersion>**

The request URIs used in HTTP requests shall have the Resource URI structure defined in clause 6.5 of 3GPP TS 29.549 [15], i.e.:

**{apiRoot}/<apiName>/<apiVersion>/<apiSpecificSuffixes>**

with the following components:

- The {apiRoot} shall be set as described in clause 6.5 of 3GPP TS 29.549 [15].

- The <apiName>shall be "sdd-pc".

- The <apiVersion> shall be "v1".

- The <apiSpecificSuffixes> shall be set as described in clause 6.5 of 3GPP TS 29.549 [15].

NOTE: When 3GPP TS 29.122 [2] is referenced for the common protocol and interface aspects for API definition in the clauses under clause 6.5, the service producer (i.e. SEALDD Server) takes the role of the SCEF and the service consumer (i.e. VAL Server) takes the role of the SCS/AS.

### 6.5.2 Usage of HTTP

The provisions of clause 6.3 of 3GPP TS 29.549 [15] shall apply for the SDD\_PolicyConfiguration API.

### 6.5.3 Resources

#### 6.5.3.1 Overview

This clause describes the structure for the Resource URIs and the resources and methods used for the service.

Figure 6.5.3.1-1 depicts the resource URIs structure for the SDD\_PolicyConfiguration API.



Figure 6.5.3.1-1: Resource URIs structure of the SDD\_PolicyConfiguration API

Table 6.5.3.1-1 provides an overview of the resources and applicable HTTP methods for the SDD\_PolicyConfiguration API.

Table 6.5.3.1-1: Resources and methods overview

|  |  |  |  |
| --- | --- | --- | --- |
| Resource name | Resource URI | HTTP method or custom operation | Description |
| Policy Configurations | /configurations | POST | Request the creation of a Policy Configuration. |
| Individual Policy Configuration | /configurations/{configId} | GET | Retrieve an existing "Individual Policy Configuration". |
| PUT | Request the update of an existing "Individual Policy Configuration". |
| PATCH | Request the modification of an existing "Individual Policy Configuration". |
| DELETE | Request the deletion of an existing "Individual Policy Configuration". |

#### 6.5.3.2 Resource: Policy Configurations

##### 6.5.3.2.1 Description

This resource represents the collection of SEALDD Policy Configurations managed by the SEALDD Server.

##### 6.5.3.2.2 Resource Definition

Resource URI: **{apiRoot}/sdd-pc/****<apiVersion>/configurations**

This resource shall support the resource URI variables defined in table 6.5.3.2.2-1.

Table 6.5.3.2.2-1: Resource URI variables for this resource

|  |  |  |
| --- | --- | --- |
| Name | Data type | Definition |
| apiRoot | string | See clause 6.5.1. |

##### 6.5.3.2.3 Resource Standard Methods

###### 6.5.3.2.3.1 POST

The HTTP POST method allows a service consumer (e.g., VAL Server) to request the creation of a Policy Configuration at the SEALDD Server.

This method shall support the URI query parameters specified in table 6.5.3.2.3.1-1.

Table 6.5.3.2.3.1-1: URI query parameters supported by the POST method on this resource

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Name | Data type | P | Cardinality | Description | Applicability |
| n/a |  |  |  |  |  |

This method shall support the request data structures specified in table 6.5.3.2.3.1-2 and the response data structures and response codes specified in table 6.5.3.2.3.1-3.

Table 6.5.3.2.3.1-2: Data structures supported by the POST Request Body on this resource

|  |  |  |  |
| --- | --- | --- | --- |
| Data type | P | Cardinality | Description |
| PolicyConfig | M | 1 | Represents the parameters to request the creation of a Policy Configuration. |

Table 6.5.3.2.3.1-3: Data structures supported by the POST Response Body on this resource

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Data type | P | Cardinality | Response  codes | Description |
| PolicyConfig | M | 1 | 201 Created | Successful case. The Policy Configuration is successfully created and a representation of the created "Individual Policy Configuration" resource shall be returned.  An HTTP "Location" header that contains the resource URI of the created resource shall also be included. |
| NOTE: The mandatory HTTP error status code for the HTTP POST method listed in table 5.2.6-1 of 3GPP TS 29.122 [2] shall also apply. | | | | |

Table 6.5.3.2.3.1-4: Headers supported by the 201 Response Code on this resource

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Name | Data type | P | Cardinality | Description |
| Location | string | M | 1 | Contains the URI of the newly created resource, according to the structure:  {apiRoot}/sdd-pc/<apiVersion>/configurations/{configId} |

##### 6.5.3.2.4 Resource Custom Operations

There are no resource custom operations defined for this resource in this release of the specification.

#### 6.5.3.3 Resource: Individual Policy Configuration

##### 6.5.3.3.1 Description

This resource represents a SEALDD Policy Configuration managed by the SEALDD Server.

##### 6.5.3.3.2 Resource Definition

Resource URI: **{apiRoot}/sdd-pc/<apiVersion>/configurations/{configId}**

This resource shall support the resource URI variables defined in table 6.5.3.3.2-1.

Table 6.5.3.3.2-1: Resource URI variables for this resource

|  |  |  |
| --- | --- | --- |
| Name | Data type | Definition |
| apiRoot | string | See clause 6.5.1. |
| configId | string | Represents the identifier of the "Individual Policy Configuration" resource. |

##### 6.5.3.3.3 Resource Standard Methods

###### 6.5.3.3.3.1 GET

The HTTP GET method allows a service consumer (e.g., VAL Server) to retrieve an existing "Individual Policy Configuration" resource at the SEALDD Server.

This method shall support the URI query parameters specified in table 6.5.3.3.3.1-1.

Table 6.5.3.3.3.1-1: URI query parameters supported by the GET method on this resource

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Name | Data type | P | Cardinality | Description | Applicability |
| n/a |  |  |  |  |  |

This method shall support the request data structures specified in table 6.5.3.3.3.1-2 and the response data structures and response codes specified in table 6.5.3.3.3.1-3.

Table 6.5.3.3.3.1-2: Data structures supported by the GET Request Body on this resource

|  |  |  |  |
| --- | --- | --- | --- |
| Data type | P | Cardinality | Description |
| n/a |  |  |  |

Table 6.5.3.3.3.1-3: Data structures supported by the GET Response Body on this resource

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Data type | P | Cardinality | Response  codes | Description |
| PolicyConfig | M | 1 | 200 OK | Successful case. The requested "Individual Policy Configuration" resource shall be returned. |
| n/a |  |  | 307 Temporary Redirect | Temporary redirection. The response shall include a Location header field containing an alternative URI of the resource 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 URI of the resource 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 code for the HTTP GET method listed in table 5.2.6-1 of 3GPP TS 29.122 [2] shall also apply. | | | | |

Table 6.5.3.3.3.1-4: Headers supported by the 307 Response Code on this resource

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Name | Data type | P | Cardinality | Description |
| Location | string | M | 1 | An alternative URI of the resource located in an alternative SEALDD Server. |

Table 6.5.3.3.3.1-5: Headers supported by the 308 Response Code on this resource

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Name | Data type | P | Cardinality | Description |
| Location | string | M | 1 | An alternative URI of the resource located in an alternative SEALDD Server. |

###### 6.5.3.3.3.2 PUT

The HTTP PUT method allows a service consumer (e.g., VAL Server) to request the update of an existing "Individual Policy Configuration" resource at the SEALDD Server.

This method shall support the URI query parameters specified in table 6.5.3.3.3.2-1.

Table 6.5.3.3.3.2-1: URI query parameters supported by the PUT method on this resource

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Name | Data type | P | Cardinality | Description | Applicability |
| n/a |  |  |  |  |  |

This method shall support the request data structures specified in table 6.5.3.3.3.2-2 and the response data structures and response codes specified in table 6.5.3.3.3.2-3.

Table 6.5.3.3.3.2-2: Data structures supported by the PUT Request Body on this resource

|  |  |  |  |
| --- | --- | --- | --- |
| Data type | P | Cardinality | Description |
| PolicyConfig | M | 1 | Represents the updated representation of the "Individual Policy Configuration" resource. |

Table 6.5.3.3.3.2-3: Data structures supported by the PUT Response Body on this resource

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Data type | P | Cardinality | Response  codes | Description |
| PolicyConfig | M | 1 | 200 OK | Successful case. The "Individual Policy Configuration" resource is successfully updated and a representation of the updated resource shall be returned in the response body. |
| n/a |  |  | 204 No Content | Successful case. The "Individual Policy Configuration" resource is successfully updated and no content is returned in the response body. |
| n/a |  |  | 307 Temporary Redirect | Temporary redirection. The response shall include a Location header field containing an alternative URI of the resource 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 URI of the resource 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 code for the HTTP PUT method listed in table 5.2.6-1 of 3GPP TS 29.122 [2] shall also apply. | | | | |

Table 6.5.3.3.3.2-4: Headers supported by the 307 Response Code on this resource

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Name | Data type | P | Cardinality | Description |
| Location | string | M | 1 | An alternative URI of the resource located in an alternative SEALDD Server. |

Table 6.5.3.3.3.2-5: Headers supported by the 308 Response Code on this resource

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Name | Data type | P | Cardinality | Description |
| Location | string | M | 1 | An alternative URI of the resource located in an alternative SEALDD Server. |

###### 6.5.3.3.3.3 PATCH

The HTTP PATCH method allows a service consumer (e.g., VAL Server) to request the modification of an existing "Individual Policy Configuration" resource at the SEALDD Server.

This method shall support the URI query parameters specified in table 6.5.3.3.3.3-1.

Table 6.5.3.3.3.3-1: URI query parameters supported by the PATCH method on this resource

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Name | Data type | P | Cardinality | Description | Applicability |
| n/a |  |  |  |  |  |

This method shall support the request data structures specified in table 6.5.3.3.3.3-2 and the response data structures and response codes specified in table 6.5.3.3.3.3-3.

Table 6.5.3.3.3.3-2: Data structures supported by the PATCH Request Body on this resource

|  |  |  |  |
| --- | --- | --- | --- |
| Data type | P | Cardinality | Description |
| PolicyConfigPatch | M | 1 | Represents the parameters to request the modification of the "Individual Policy Configuration" resource. |

Table 6.5.3.3.3.3-3: Data structures supported by the PATCH Response Body on this resource

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Data type | P | Cardinality | Response  codes | Description |
| PolicyConfig | M | 1 | 200 OK | Successful case. The "Individual Policy Configuration" resource is successfully modified and a representation of the updated resource shall be returned in the response body. |
| n/a |  |  | 204 No Content | Successful case. The "Individual Policy Configuration" resource is successfully modified and no content is returned in the response body. |
| n/a |  |  | 307 Temporary Redirect | Temporary redirection. The response shall include a Location header field containing an alternative URI of the resource 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 URI of the resource 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 code for the HTTP PATCH method listed in table 5.2.6-1 of 3GPP TS 29.122 [2] shall also apply. | | | | |

Table 6.5.3.3.3.3-4: Headers supported by the 307 Response Code on this resource

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Name | Data type | P | Cardinality | Description |
| Location | string | M | 1 | An alternative URI of the resource located in an alternative SEALDD Server. |

Table 6.5.3.3.3.3-5: Headers supported by the 308 Response Code on this resource

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Name | Data type | P | Cardinality | Description |
| Location | string | M | 1 | An alternative URI of the resource located in an alternative SEALDD Server. |

###### 6.5.3.3.3.4 DELETE

The HTTP DELETE method allows a service consumer (e.g., VAL Server) to request the deletion of an existing "Individual Policy Configuration" resource at the SEALDD Server.

This method shall support the URI query parameters specified in table 6.5.3.3.3.4-1.

Table 6.5.3.3.3.4-1: URI query parameters supported by the DELETE method on this resource

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Name | Data type | P | Cardinality | Description | Applicability |
| n/a |  |  |  |  |  |

This method shall support the request data structures specified in table 6.5.3.3.3.4-2 and the response data structures and response codes specified in table 6.5.3.3.3.4-3.

Table 6.5.3.3.3.4-2: Data structures supported by the DELETE Request Body on this resource

|  |  |  |  |
| --- | --- | --- | --- |
| Data type | P | Cardinality | Description |
| n/a |  |  |  |

Table 6.5.3.3.3.4-3: Data structures supported by the DELETE Response Body on this resource

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Data type | P | Cardinality | Response  codes | Description |
| n/a |  |  | 204 No Content | Successful case. The "Individual Policy Configuration" resource is successfully deleted. |
| n/a |  |  | 307 Temporary Redirect | Temporary redirection. The response shall include a Location header field containing an alternative URI of the resource 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 URI of the resource 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 code for the HTTP DELETE method listed in table 5.2.6-1 of 3GPP TS 29.122 [2] shall also apply. | | | | |

Table 6.5.3.3.3.4-4: Headers supported by the 307 Response Code on this resource

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Name | Data type | P | Cardinality | Description |
| Location | string | M | 1 | An alternative URI of the resource located in an alternative SEALDD Server. |

Table 6.5.3.3.3.4-5: Headers supported by the 308 Response Code on this resource

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Name | Data type | P | Cardinality | Description |
| Location | string | M | 1 | An alternative URI of the resource located in an alternative SEALDD Server. |

##### 6.5.3.3.4 Resource Custom Operations

There are no resource custom operations defined for this resource in this release of the specification.

### 6.5.4 Custom Operations without associated resources

There are no custom operations without associated resources defined for this API in this release of the specification.

### 6.5.5 Notifications

There are no notifications defined for this API in this release of the specification.

### 6.5.6 Data Model

#### 6.5.6.1 General

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

Table 6.5.6.1-1 specifies the data types defined for the SDD\_PolicyConfiguration API.

Table 6.5.6.1-1: SDD\_PolicyConfiguration API specific Data Types

|  |  |  |  |
| --- | --- | --- | --- |
| Data type | Clause defined | Description | Applicability |
| BdwCtrlPolicy | 6.5.6.3.4 | Represents the bandwidth control policy. |  |
| QualGuarPolicy | 6.5.6.3.3 | Represents the quality guarantee policy. |  |
| PolicyConfig | 6.5.6.2.2 | Represents a SEALDD Policy Configuration. |  |
| PolicyConfigPatch | 6.5.6.2.3 | Represents the parameters to request the modification of a SEALDD Policy Configuration. |  |
| SealddPolicy | 6.5.6.2.4 | Represents a SEALDD Policy. |  |

Table 6.5.6.1-2 specifies data types re-used by the SDD\_PolicyConfiguration API from other specifications, including a reference to their respective specifications, and when needed, a short description of their use within the SDD\_PolicyConfiguration API.

Table 6.5.6.1-2: SDD\_PolicyConfiguration API re-used Data Types

|  |  |  |  |
| --- | --- | --- | --- |
| Data type | Reference | Comments | Applicability |
| DateTimeRo | 3GPP TS 29.571 [18] | Represents a date and a time with the "read-only" property. |  |
| Uri | 3GPP TS 29.122 [2] | Represents a URI. |  |
| ValTargetUeId | Clause 6.4.6.2.9 | Represents the identifier of a targeted VAL UE. |  |
| SupportedFeatures | 3GPP TS 29.571 [18] | Used to negotiate the applicability of the optional features. |  |

#### 6.5.6.2 Structured data types

##### 6.5.6.2.1 Introduction

This clause defines the data structures to be used in resource representations.

##### 6.5.6.2.2 Type: PolicyConfig

Table 6.5.6.2.2-1: Definition of type PolicyConfig

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Attribute name | Data type | P | Cardinality | Description | Applicability |
| appTrafficIds | array(string) | M | 1 | Contains the identifier(s) of the targeted application traffic. This can be in the form of e.g. VAL Service ID, VAL Server ID. |  |
| valUeId | ValTargetUeId | O | 0..1 | Contains the identifier of the VAL UE to which the SEALDD policy configuration is related. |  |
| sealddPol | SealddPolicy | M | 1 | Represents the SEALDD policy that is to be configured. |  |
| expTime | DateTimeRo | O | 0..1 | Contains the expiration time of the policy configuration.  This attribute may only be present in the Policy Configuration creation/update responses.  If this attribute is absent, this means that the Policy Configuration shall not expire, until explicitly deleted by the service consumer (e.g. VAL Server). |  |
| suppFeat | SupportedFeatures | C | 0..1 | Contains the list of supported features among the ones defined in clause 6.5.8.  This attribute shall be provided if feature negotiation shall take place. |  |

Editor's Note: The encoding of the "valUeId" attribute is FFS.

##### 6.5.6.2.3 Type: PolicyConfigPatch

Table 6.5.6.2.3-1: Definition of type PolicyConfigPatch

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Attribute name | Data type | P | Cardinality | Description | Applicability |
| sealddPol | SealddPolicy | O | 0..1 | Represents the updated SEALDD policy. |  |

##### 6.5.6.2.4 Type: SealddPolicy

Table 6.5.6.2.4-1: Definition of type SealddPolicy

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Attribute name | Data type | P | Cardinality | Description | Applicability |
| qualGuarSets | array(QualGuarPolicy) | O | 1..N | Contains the quality guarantee policy.  This attribute shall not contain any combination of the "ESTABLISH\_REDUNDANT\_TRANS\_PATH", "REESTABLISH\_TRANS\_PATH", "SWITCH\_TO\_BACKUP\_TRANS\_PATH" actions.  (NOTE) |  |
| bdwCtrlSets | array(BdwCtrlPolicy) | O | 1..N | Contains the bandwidth control policy.  This attribute shall not contain at the same time both the "REALLOCATE\_DL" and "NOT\_REALLOCATE\_DL" actions nor both the "REALLOCATE\_UL" and "NOT\_REALLOCATE\_UL" actions.  (NOTE) |  |
| NOTE: At least one of these attributes shall be present. | | | | | |

#### 6.5.6.3 Simple data types and enumerations

##### 6.5.6.3.1 Introduction

This clause defines simple data types and enumerations that can be referenced from data structures defined in the previous clauses.

##### 6.5.6.3.2 Simple data types

The simple data types defined in table 6.5.6.3.2-1 shall be supported.

Table 6.5.6.3.2-1: Simple data types

|  |  |  |  |
| --- | --- | --- | --- |
| Type Name | Type Definition | Description | Applicability |
|  |  |  |  |

##### 6.5.6.3.3 Enumeration: QualGuarPolicy

The enumeration QualGuarPolicy represents the quality guarantee policy. It shall comply with the provisions defined in table 6.5.6.3.3-1.

Table 6.5.6.3.3-1: Enumeration QualGuarPolicy

|  |  |  |
| --- | --- | --- |
| Enumeration value | Description | Applicability |
| ESTABLISH\_REDUNDANT\_TRANS\_PATH | Indicates that the quality guarantee action to be performed is to establish a redundant transmission path. |  |
| REESTABLISH\_TRANS\_PATH | Indicates that the quality guarantee action to be performed re- establish the transmission path. |  |
| SWITCH\_TO\_BACKUP\_TRANS\_PATH | Indicates that the quality guarantee action to be performed is to switch to the backup transmission path. |  |
| CHANGE\_SEALDD\_SERVER | Indicates that the quality guarantee action to be performed is to change the connected SEALDD Server. |  |

##### 6.5.6.3.4 Enumeration: BdwCtrlPolicy

The enumeration BdwCtrlPolicy represents the the bandwidth control policy. It shall comply with the provisions defined in table 6.5.6.3.4-1.

Table 6.5.6.3.4-1: Enumeration BdwCtrlPolicy

|  |  |  |
| --- | --- | --- |
| Enumeration value | Description | Applicability |
| REALLOCATE\_DL | Indicates that the bandwidth control action to be performed is to reallocate the bandwidth limit between different VAL users for DL traffic. |  |
| REALLOCATE\_UL | Indicates that the bandwidth control action to be performed is to reallocate the bandwidth limit between different VAL users for UL traffic. |  |
| NOT\_REALLOCATE\_DL | Indicates that the bandwidth control action to be performed is to not reallocate the bandwidth limit between different VAL users for DL traffic. |  |
| NOT\_REALLOCATE\_UL | Indicates that the bandwidth control action to be performed is to not reallocate the bandwidth limit between different VAL users for UL traffic. |  |

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

There are no data types describing alternative data types or combinations of data types defined for this API in this release of the specification.

#### 6.5.6.5 Binary data

##### 6.5.6.5.1 Binary Data Types

Table 6.5.6.5.1-1: Binary Data Types

|  |  |  |
| --- | --- | --- |
| Name | Clause defined | Content type |
|  |  |  |

### 6.5.7 Error Handling

#### 6.5.7.1 General

For the SDD\_PolicyConfiguration API, error handling shall be supported as specified in clause 6.7 of 3GPP TS 29.549 [15].

In addition, the requirements in the following clauses are applicable for the SDD\_PolicyConfiguration API.

#### 6.5.7.2 Protocol Errors

No specific protocol errors for the SDD\_PolicyConfiguration API are specified.

#### 6.5.7.3 Application Errors

The application errors defined for the SDD\_PolicyConfiguration API are listed in Table 6.5.7.3-1.

Table 6.5.7.3-1: Application errors

|  |  |  |  |
| --- | --- | --- | --- |
| Application Error | HTTP status code | Description | Applicability |
|  |  |  |  |

### 6.5.8 Feature negotiation

The optional features listed in table 6.5.8-1 are defined for the SDD\_PolicyConfiguration API. They shall be negotiated using the extensibility mechanism defined in clause 6.8 of 3GPP TS 29.549 [15].

Table 6.5.8-1: Supported Features

|  |  |  |
| --- | --- | --- |
| Feature number | Feature Name | Description |
|  |  |  |

### 6.5.9 Security

The provisions of clause 9 of 3GPP TS 29.549 [15] shall apply for the SDD\_PolicyConfiguration API.

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