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| Technical Specification |
| 3rd Generation Partnership Project;Technical Specification Group Core Network and Terminals;Enabling Edge Applications;Application Programming Interface (API) specification;Stage 3;(Release 17) |
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Contents

Foreword 6

1 Scope 8

2 References 8

3 Definitions of terms, symbols and abbreviations 8

3.1 Terms 8

3.2 Symbols 8

3.3 Abbreviations 8

4 Overview 8

5 Services offered by Edge Enabler Server 9

5.1 Introduction 9

5.2 EAS Registration 9

5.3 Capability exposure 9

5.4 Service continuity 9

5.x <Services Category> 9

5.x.1 <Service name - Eees\_xxx> Service 9

5.x.1.1 Service Description 9

5.x.1.1.1 Overview 9

5.x.1.2 Service Operations 9

5.x.1.2.1 Introduction 9

5.x.1.2.2 <Service Operation Name> 10

5.x.1.2.2.1 General 10

5.x.1.2.2.2 <Description> <Service Operation Name> operation 10

6 Services offered by Edge Configuration Server 10

6.1 Introduction 10

6.2 EES Registration 10

6.3 Service continuity 10

6.x <Services Category> 10

6.x.1 <Service name - Eecs\_xxx> Service 10

6.x.1.1 Service Description 10

6.x.1.1.1 Overview 10

6.x.1.2 Service Operations 10

6.x.1.2.1 Introduction 10

6.x.1.2.2 <Service Operation Name> 11

6.x.1.2.2.1 General 11

6.x.1.2.2.2 <Description> <Service Operation Name> operation 11

7 Information applicable to all EdgeApp APIs 11

8 Edge Enabler Server API Definitions 11

8.x <API Name – Eees\_xxx> API 11

8.x.1 API URI 11

8.x.2 Resources 11

8.x.2.1 Overview 11

8.x.2.2 Resource: <Resource name> 12

8.x.2.2.1 Description 12

8.x.2.2.2 Resource Definition 12

8.x.2.2.3 Resource Standard Methods 12

8.x.2.2.3.1 <Method Name> 12

8.x.2.2.4 Resource Custom Operations 13

8.x.2.2.4.1 Overview 13

8.x.2.2.4.2 Operation: < operation 1 > 13

8.x.2.2.4.2.1 Description 13

8.x.2.2.4.2.2 Operation Definition 13

8.x.3 Notifications 14

8.x.3.1 General 14

8.x.3.2 <notification 1> 14

8.x.3.2.1 Description 14

8.x.3.2.2 Notification definition 14

8.x.4 Data Model 15

8.x.4.1 General 15

8.x.4.2 Structured data types 15

8.x.4.2.1 Introduction 15

8.x.4.2.2 Type: <Data type name> 15

8.x.4.3 Simple data types and enumerations 15

8.x.4.3.1 Introduction 16

8.x.4.3.2 Simple data types 16

8.x.4.3.3 Enumeration: <EnumType1> 16

8.x.5 Error Handling 16

8.x.6 Feature negotiation 16

9 Edge Configuration Server API Definitions 16

9.x <API Name – Eecs\_xxx> API 16

9.x.1 API URI 17

9.x.2 Resources 17

9.x.2.1 Overview 17

9.x.2.2 Resource: <Resource name> 17

9.x.2.2.1 Description 17

9.x.2.2.2 Resource Definition 17

9.x.2.2.3 Resource Standard Methods 17

9.x.2.2.3.1 <Method Name> 17

9.x.2.2.4 Resource Custom Operations 18

9.x.2.2.4.1 Overview 19

9.x.2.2.4.2 Operation: < operation 1 > 19

9.x.2.2.4.2.1 Description 19

9.x.2.2.4.2.2 Operation Definition 19

9.x.3 Notifications 20

9.x.3.1 General 20

9.x.3.2 <notification 1> 20

9.x.3.2.1 Description 20

9.x.3.2.2 Notification definition 20

9.x.4 Data Model 21

9.x.4.1 General 21

9.x.4.2 Structured data types 21

9.x.4.2.1 Introduction 21

9.x.4.2.2 Type: <Data type name> 21

9.x.4.3 Simple data types and enumerations 21

9.x.4.3.1 Introduction 22

9.x.4.3.2 Simple data types 22

9.x.4.3.3 Enumeration: <EnumType1> 22

9.x.5 Error Handling 22

9.x.6 Feature negotiation 22

10 Using Common API Framework 22

11 Security 22

Annex A (normative): OpenAPI specification 23

A.1 General 23

Annex B (informative): Change history 24

# Foreword

This Technical Specification has been produced by the 3rd Generation Partnership Project (3GPP).

The contents of the present document are subject to continuing work within the TSG and may change following formal TSG approval. Should the TSG modify the contents of the present document, it will be re-released by the TSG with an identifying change of release date and an increase in version number as follows:

Version x.y.z

where:

x the first digit:

1 presented to TSG for information;

2 presented to TSG for approval;

3 or greater indicates TSG approved document under change control.

y the second digit is incremented for all changes of substance, i.e. technical enhancements, corrections, updates, etc.

z the third digit is incremented when editorial only changes have been incorporated in the document.

In the present document, modal verbs have the following meanings:

**shall** indicates a mandatory requirement to do something

**shall not** indicates an interdiction (prohibition) to do something

The constructions "shall" and "shall not" are confined to the context of normative provisions, and do not appear in Technical Reports.

The constructions "must" and "must not" are not used as substitutes for "shall" and "shall not". Their use is avoided insofar as possible, and they are not used in a normative context except in a direct citation from an external, referenced, non-3GPP document, or so as to maintain continuity of style when extending or modifying the provisions of such a referenced document.

**should** indicates a recommendation to do something

**should not** indicates a recommendation not to do something

**may** indicates permission to do something

**need not** indicates permission not to do something

The construction "may not" is ambiguous and is not used in normative elements. The unambiguous constructions "might not" or "shall not" are used instead, depending upon the meaning intended.

**can** indicates that something is possible

**cannot** indicates that something is impossible

The constructions "can" and "cannot" are not substitutes for "may" and "need not".

**will** indicates that something is certain or expected to happen as a result of action taken by an agency the behaviour of which is outside the scope of the present document

**will not** indicates that something is certain or expected not to happen as a result of action taken by an agency the behaviour of which is outside the scope of the present document

**might** indicates a likelihood that something will happen as a result of action taken by some agency the behaviour of which is outside the scope of the present document

**might not** indicates a likelihood that something will not happen as a result of action taken by some agency the behaviour of which is outside the scope of the present document

In addition:

**is** (or any other verb in the indicative mood) indicates a statement of fact

**is not** (or any other negative verb in the indicative mood) indicates a statement of fact

The constructions "is" and "is not" do not indicate requirements.

# 1 Scope

This clause shall start on a new page.

The present document …

# 2 References

The following documents contain provisions which, through reference in this text, constitute provisions of the present document.

- References are either specific (identified by date of publication, edition number, version number, etc.) or non‑specific.

- For a specific reference, subsequent revisions do not apply.

- For a non-specific reference, the latest version applies. In the case of a reference to a 3GPP document (including a GSM document), a non-specific reference implicitly refers to the latest version of that document *in the same Release as the present document*.

[1] 3GPP TR 21.905: "Vocabulary for 3GPP Specifications".

# 3 Definitions of terms, symbols and abbreviations

This clause and its three subclauses are mandatory. The contents shall be shown as "void" if the TS/TR does not define any terms, symbols, or abbreviations.

## 3.1 Terms

For the purposes of the present document, the terms given in 3GPP TR 21.905 [1] and the following apply. A term defined in the present document takes precedence over the definition of the same term, if any, in 3GPP TR 21.905 [1].

**example:** text used to clarify abstract rules by applying them literally.

## 3.2 Symbols

For the purposes of the present document, the following symbols apply:

<symbol> <Explanation>

## 3.3 Abbreviations

For the purposes of the present document, the abbreviations given in 3GPP TR 21.905 [1] and the following apply. An abbreviation defined in the present document takes precedence over the definition of the same abbreviation, if any, in 3GPP TR 21.905 [1].

<ABBREVIATION> <Expansion>

# 4 Overview

This clause will provide the overview of the EdgeApp services, along with core network capabilities utilized by the Edge Enabler layer.

# 5 Services offered by Edge Enabler Server

## 5.1 Introduction

*This clause will provide the list of Edge Enabler Server services with their respective service operations.*

## 5.2 EAS Registration

*This clause provides services offered related to registration of EAS.*

## 5.3 Capability exposure

*This clause provides services offered related to capabilities offered by EES to the EAS.*

## 5.4 Service continuity

*This clause provides services offered related to service continuity.*

## 5.x <Services Category>

*Add a copy of this clause for new category of APIs, adding the detail of the each individual API. Yellow highlighted text needs to be replaced with appropriate clause number and the API, Service operation name.*

### 5.x.1 <Service name - Eees\_xxx> Service

*Add a copy of this clause for a new API, adding the overview of the API, Details of service operations, detailed description of each service operation. Yellow highlighted text needs to be replaced with appropriate clause number and the API, Service operation name.*

#### 5.x.1.1 Service Description

##### 5.x.1.1.1 Overview

#### 5.x.1.2 Service Operations

##### 5.x.1.2.1 Introduction

The service operation defined for <API Name> API is shown in the table 5.x.1.2.1-1.

Table 5.x.1.2.1-1: Operations of the <API Name> API

|  |  |  |
| --- | --- | --- |
| Service operation name | Description | Initiated by |
|  |  |  |

##### 5.x.1.2.2 <Service Operation Name>

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

###### 5.x.1.2.2.2 <Description> <Service Operation Name> operation

# 6 Services offered by Edge Configuration Server

## 6.1 Introduction

*This clause will provide the list of Edge Configuration Server services with their respective service operations.*

## 6.2 EES Registration

*This clause provides services offered related to registration of EES.*

## 6.3 Service continuity

*This clause provides services offered related to service continuity.*

## 6.x <Services Category>

*Add a copy of this clause for new category of APIs, adding the detail of the each individual API. Yellow highlighted text needs to be replaced with appropriate clause number and the API, Service operation name.*

### 6.x.1 <Service name - Eecs\_xxx> Service

*Add a copy of this clause for a new API, adding the overview of the API, Details of service operations, detailed description of each service operation. Yellow highlighted text needs to be replaced with appropriate clause number and the API, Service operation name.*

#### 6.x.1.1 Service Description

##### 6.x.1.1.1 Overview

#### 6.x.1.2 Service Operations

##### 6.x.1.2.1 Introduction

The service operation defined for <API Name> API is shown in the table 6.x.1.2.1-1.

Table 6.x.1.2.1-1: Operations of the <API Name> API

|  |  |  |
| --- | --- | --- |
| Service operation name | Description | Initiated by |
|  |  |  |

##### 6.x.1.2.2 <Service Operation Name>

###### 6.x.1.2.2.1 General

###### 6.x.1.2.2.2 <Description> <Service Operation Name> operation

# 7 Information applicable to all EdgeApp APIs

*This clause will provide the design aspects that are common for all the EdgeApp APIs.*

# 8 Edge Enabler Server API Definitions

*This clause will provide the definitions of all the EdgeApp APIs from EES.*

## 8.x <API Name – Eees\_xxx> API

*Add a copy of this clause for a new API definition, adding all the clauses below. All the clauses are mandatory for each API. Yellow highlighted text needs to be replaced with appropriate clause number and the API, Service operation name.*

### 8.x.1 API URI

### 8.x.2 Resources

#### 8.x.2.1 Overview



Figure 8.x.2.1-1: Resource URI structure of the <API Name> API

Table 8.x.2.1-1 provides an overview of the resources and applicable HTTP methods.

Table 8.x.2.1-1: Resources and methods overview

|  |  |  |  |
| --- | --- | --- | --- |
| Resource name | Resource URI | HTTP method or custom operation | Description |
|  |  |  |  |

#### 8.x.2.2 Resource: <Resource name>

##### 8.x.2.2.1 Description

##### 8.x.2.2.2 Resource Definition

##### 8.x.2.2.3 Resource Standard Methods

###### 8.x.2.2.3.1 <Method Name>

Table 8.x.2.2.3.1-1: URI query parameters supported by the <Method Name> method on this resource

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Name | Data type | P | Cardinality | Description |
| <name> or n/a | <type> or <leave empty> | <M, C or O> | 0..1 or 1 or 0..N or 1..N or <leave empty> | <only if applicable> |

This method shall support the request data structures specified in table 8.x.2.2.3.1-2 and the response data structures and response codes specified in table 8.x.2.2.3.1-3.

Table 8.x.2.2.3.1-2: Data structures supported by the <Method Name> Request Body on this resource

|  |  |  |  |
| --- | --- | --- | --- |
| Data type | P | Cardinality | Description |
| "<type>" or "array*(<type>*)" or "map*(<type>*)" or n/a | "M", "C" or "O" | "0..1", "1", or "M..N", or <leave empty> | <only if applicable> |

Table 8.x.2.2.3.1-3: Data structures supported by the <Method Name> Response Body on this resource

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Data type | P | Cardinality | Responsecodes | Description |
| "*<type>*" or "array*(<type>*)" or "map*(<type>*)" or n/a | "M", "C" or "O" | "0..1", "1", or "M..N", or <leave empty> | <list applicable codes with name from the applicable RFCs> | <Meaning of the success case>or<Meaning of the error case with additional statement regarding error handling> |
| NOTE: The manadatory HTTP error status code for the <method 1> method listed in <Table X of 3GPP TS 29.xxx [x]> also apply. |

Table 8.x.2.2.3.1-4: Headers supported by the <e.g. GET> method on this resource

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Name | Data type | P | Cardinality | Description |
| <header name>  | <data type>e.g. string | "M", "C" or "O" | "0..1", "1", "1..N", "1..N", or <leave empty> | <description> |

Table 8.x.2.2.3.1-5: Headers supported by the <e.g. 200> response code on this resource

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Name | Data type | P | Cardinality | Description |
| <header name>  | <data type>e.g. string | "M", "C" or "O" | "0..1", "1", "1..N", "1..N", or <leave empty> | <description> |

Table 8.x.2.2.3.1-6: Links supported by the 200 Response Code on this endpoint

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Name | Resource name | HTTP method or custom operation | Link parameter(s) | Description |
| <link name>e.g. search | <resource 1>e.g. Stored Search (Document) | <method 1>e.g. GET | <parameter>e.g. searchId | <description of the link> |

##### 8.x.2.2.4 Resource Custom Operations

The following clauses will specify the custom operations supported by the resource.

It will describe, for each custom operation, the use and the URI of the operation, the HTTP method on which it is mapped, request and response data structures and response codes, and if applicable, HTTP headers specific to the operation.

###### 8.x.2.2.4.1 Overview

Table 8.x.2.2.4.1-1: Custom operations

|  |  |  |  |
| --- | --- | --- | --- |
| Operation name | Custom operaration URI | Mapped HTTP method | Description |
| <custom operation name> | <custom operation URI> | e.g.POST | <Operation executed by Custom operation> |
|  |  |  |  |

###### 8.x.2.2.4.2 Operation: < operation 1 >

This clause will specify the meaning of the operation applied on the resource.

8.x.2.2.4.2.1 Description

This sublause will describe the custom operation and what it is used for, and the custom operation's URI.

8.x.2.2.4.2.2 Operation Definition

This clause will specify the custom operation and the HTTP method on which it is mapped.

This operation shall support the request data structures specified in table 8.x.2.2.4.2.2-1 and the response data structure and response codes specified in table 8.x.2.2.4.2.2-2.

Table 8.x.2.2.4.2.2-1: Data structures supported by the <e.g. POST> Request Body on this resource

|  |  |  |  |
| --- | --- | --- | --- |
| Data type | P | Cardinality | Description |
| "*<type>*" or "array*(<type>*)" or "map*(<type>*)" | "M", "C" or "O" | "0..1", "1", or "M..N", or <leave empty> | <only if applicable> |

Table 8.x.2.2.4.2.2-2: Data structures supported by the <e.g. POST> Response Body on this resource

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Data type | P | Cardinality | Responsecodes | Description |
| "*<type>*" or "array*(<type>*)" or "map*(<type>*)" | "M", "C" or "O" | "0..1", "1" or "M..N", or <leave empty> | <list applicable codes with name from the applicable RFCs> | <Meaning of the success case>or<Meaning of the error case with additional statement regarding error handling> |
| NOTE: The manadatory HTTP error status code for the <e.g. POST> method listed in <Table X of 3GPP TS 29.xxx [x]> also apply. |

### 8.x.3 Notifications

#### 8.x.3.1 General

Table 8.x.3.1-1: Notifications overview

|  |  |  |  |
| --- | --- | --- | --- |
| Notification | Callback URI | HTTP method or custom operation | Description(service operation) |
| <notification 1>e.g. Status Change Notification | < Callback URI >e.g. {StatusCallbackUri} | e.g POST | e.g. Notify Event  |
|  |  |  |  |

#### 8.x.3.2 <notification 1>

##### 8.x.3.2.1 Description

##### 8.x.3.2.2 Notification definition

Callback URI: <Notification resource URI>

This method shall support the URI query parameters specified in table 8.x.3.2.2-1.

Table 8.x.3.2.2-1: URI query parameters supported by the <Method Name> method on this resource

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Name | Data type | P | Cardinality | Description |
|  |  |  |  |  |

This method shall support the request data structures specified in table 8.x.3.2.2-2 and the response data structures and response codes specified in table 8.x.3.2.2-3.

Table 8.x.3.2.2-2: Data structures supported by the <Method Name> Request Body on this resource

|  |  |  |  |
| --- | --- | --- | --- |
| Data type | P | Cardinality | Description |
| "*<type>*" or "array*(<type>*)" or "map*(<type>*)" | "M", "C" or "O" | "0..1", "1", or "M..N", or <leave empty> | <only if applicable> |

Table 8.x.3.2.2-3: Data structures supported by the <Method Name> Response Body on this resource

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Data type | P | Cardinality | Response codes | Description |
| "*<type>*" or "array*(<type>*)" or "map*(<type>*)" | "M", "C" or "O" | "0..1", "1" or "M..N", or <leave empty> | <list applicable codes with name from the applicable RFCs> | <Meaning of the success case>or<Meaning of the error case with additional statement regarding error handling> |

### 8.x.4 Data Model

#### 8.x.4.1 General

This clause specifies the application data model supported by the API. Data types listed in clause <7.X related to EdgeApp design aspects common for all APIs> apply to this API

Table 8.x.4.1-1 specifies the data types defined specifically for the <API Name> API service.

Table 8.x.4.1-1: <API Name> API specific Data Types

|  |  |  |  |
| --- | --- | --- | --- |
| Data type | Section defined | Description | Applicability |
|  |  |  |  |

Table 8.x.4.1-2 specifies data types re-used by the <API Name> API service.

Table 8.x.4.1-2: Re-used Data Types

|  |  |  |  |
| --- | --- | --- | --- |
| Data type | Reference | Comments | Applicability |
|  |  |  |  |

#### 8.x.4.2 Structured data types

##### 8.x.4.2.1 Introduction

##### 8.x.4.2.2 Type: <Data type name>

Table 8.x.4.2.2-1: Definition of type <Data Type name>

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Attribute name | Data type | P | Cardinality | Description | Applicability |
| <*attribute name*> | "*<type>*" or "array*(<type>*)" or "map*(<type>*)" | "M", "C" or "O" | "0..1", "1" or "M..N" | <only if applicable> |  |
|  |  |  |  |  |  |

#### 8.x.4.3 Simple data types and enumerations

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

##### 8.x.4.3.1 Introduction

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

##### 8.x.4.3.2 Simple data types

The simple data types defined in table 8.x.4.3.2-1 shall be supported.

Table 8.x.4.3.2-1: Simple data types

|  |  |  |  |
| --- | --- | --- | --- |
| Type Name | Type Definition | Description | Applicability |
|  | <one simple data type, i.e. boolean, integer, number, or string> |  |  |

##### 8.x.4.3.3 Enumeration: <EnumType1>

The enumeration <EnumType1> represents <something>. It shall comply with the provisions defined in table 8.x.4.3.3-1.

Table 8.x.4.3.3-1: Enumeration < EnumType1>

|  |  |  |
| --- | --- | --- |
| Enumeration value | Description | Applicability |
|  |  |  |

### 8.x.5 Error Handling

### 8.x.6 Feature negotiation

General feature negotiation procedures are defined in clause <7.X>. Table 8.x.6-1 lists the supported features for <API name> API.

Table 8.x.6-1: Supported Features

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

# 9 Edge Configuration Server API Definitions

*This clause will provide the definitions of all the EdgeApp APIs from ECS.*

## 9.x <API Name – Eecs\_xxx> API

*Add a copy of this clause for a new API definition, adding all the clauses below. All the clauses are mandatory for each API. Yellow highlighted text needs to be replaced with appropriate clause number and the API, Service operation name.*

### 9.x.1 API URI

### 9.x.2 Resources

#### 9.x.2.1 Overview



Figure 9.x.2.1-1: Resource URI structure of the <API Name> API

Table 9.x.2.1-1 provides an overview of the resources and applicable HTTP methods.

Table 9.x.2.1-1: Resources and methods overview

|  |  |  |  |
| --- | --- | --- | --- |
| Resource name | Resource URI | HTTP method or custom operation | Description |
|  |  |  |  |

#### 9.x.2.2 Resource: <Resource name>

##### 9.x.2.2.1 Description

##### 9.x.2.2.2 Resource Definition

##### 9.x.2.2.3 Resource Standard Methods

###### 9.x.2.2.3.1 <Method Name>

Table 9.x.2.2.3.1-1: URI query parameters supported by the <Method Name> method on this resource

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Name | Data type | P | Cardinality | Description |
| <name> or n/a | <type> or <leave empty> | <M, C or O> | 0..1 or 1 or 0..N or 1..N or <leave empty> | <only if applicable> |

This method shall support the request data structures specified in table 9.x.2.2.3.1-2 and the response data structures and response codes specified in table 9.x.2.2.3.1-3.

Table 9.x.2.2.3.1-2: Data structures supported by the <Method Name> Request Body on this resource

|  |  |  |  |
| --- | --- | --- | --- |
| Data type | P | Cardinality | Description |
| "<type>" or "array*(<type>*)" or "map*(<type>*)" or n/a | "M", "C" or "O" | "0..1", "1", or "M..N", or <leave empty> | <only if applicable> |

Table 9.x.2.2.3.1-3: Data structures supported by the <Method Name> Response Body on this resource

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Data type | P | Cardinality | Responsecodes | Description |
| "*<type>*" or "array*(<type>*)" or "map*(<type>*)" or n/a | "M", "C" or "O" | "0..1", "1", or "M..N", or <leave empty> | <list applicable codes with name from the applicable RFCs> | <Meaning of the success case>or<Meaning of the error case with additional statement regarding error handling> |
| NOTE: The manadatory HTTP error status code for the <method 1> method listed in <Table X of 3GPP TS 29.xxx [x]> also apply. |

Table 9.x.2.2.3.1-4: Headers supported by the <e.g. GET> method on this resource

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Name | Data type | P | Cardinality | Description |
| <header name>  | <data type>e.g. string | "M", "C" or "O" | "0..1", "1", "1..N", "1..N", or <leave empty> | <description> |

Table 9.x.2.2.3.1-5: Headers supported by the <e.g. 200> response code on this resource

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Name | Data type | P | Cardinality | Description |
| <header name>  | <data type>e.g. string | "M", "C" or "O" | "0..1", "1", "1..N", "1..N", or <leave empty> | <description> |

Table 9.x.2.2.3.1-6: Links supported by the 200 Response Code on this endpoint

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Name | Resource name | HTTP method or custom operation | Link parameter(s) | Description |
| <link name>e.g. search | <resource 1>e.g. Stored Search (Document) | <method 1>e.g. GET | <parameter>e.g. searchId | <description of the link> |

##### 9.x.2.2.4 Resource Custom Operations

The following clauses will specify the custom operations supported by the resource.

It will describe, for each custom operation, the use and the URI of the operation, the HTTP method on which it is mapped, request and response data structures and response codes, and if applicable, HTTP headers specific to the operation.

###### 9.x.2.2.4.1 Overview

Table 9.x.2.2.4.1-1: Custom operations

|  |  |  |  |
| --- | --- | --- | --- |
| Operation name | Custom operaration URI | Mapped HTTP method | Description |
| <custom operation name> | <custom operation URI> | e.g.POST | <Operation executed by Custom operation> |
|  |  |  |  |

###### 9.x.2.2.4.2 Operation: < operation 1 >

This clause will specify the meaning of the operation applied on the resource.

9.x.2.2.4.2.1 Description

This sublause will describe the custom operation and what it is used for, and the custom operation's URI.

9.x.2.2.4.2.2 Operation Definition

This clause will specify the custom operation and the HTTP method on which it is mapped.

This operation shall support the request data structures specified in table 9.x.2.2.4.2.2-1 and the response data structure and response codes specified in table 9.x.2.2.4.2.2-2.

Table 9.x.2.2.4.2.2-1: Data structures supported by the <e.g. POST> Request Body on this resource

|  |  |  |  |
| --- | --- | --- | --- |
| Data type | P | Cardinality | Description |
| "*<type>*" or "array*(<type>*)" or "map*(<type>*)" | "M", "C" or "O" | "0..1", "1", or "M..N", or <leave empty> | <only if applicable> |

Table 9.x.2.2.4.2.2-2: Data structures supported by the <e.g. POST> Response Body on this resource

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Data type | P | Cardinality | Responsecodes | Description |
| "*<type>*" or "array*(<type>*)" or "map*(<type>*)" | "M", "C" or "O" | "0..1", "1" or "M..N", or <leave empty> | <list applicable codes with name from the applicable RFCs> | <Meaning of the success case>or<Meaning of the error case with additional statement regarding error handling> |
| NOTE: The manadatory HTTP error status code for the <e.g. POST> method listed in <Table X of 3GPP TS 29.xxx [x]> also apply. |

### 9.x.3 Notifications

#### 9.x.3.1 General

Table 9.x.3.1-1: Notifications overview

|  |  |  |  |
| --- | --- | --- | --- |
| Notification | Callback URI | HTTP method or custom operation | Description(service operation) |
| <notification 1>e.g. Status Change Notification | < Callback URI >e.g. {StatusCallbackUri} | e.g POST | e.g. Notify Event  |
|  |  |  |  |

#### 9.x.3.2 <notification 1>

##### 9.x.3.2.1 Description

##### 9.x.3.2.2 Notification definition

Callback URI: <Notification resource URI>

This method shall support the URI query parameters specified in table 9.x.3.2.2-1.

Table 9.x.3.2.2-1: URI query parameters supported by the <Method Name> method on this resource

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Name | Data type | P | Cardinality | Description |
|  |  |  |  |  |

This method shall support the request data structures specified in table 9.x.3.2.2-2 and the response data structures and response codes specified in table 9.x.3.2.2-3.

Table 9.x.3.2.2-2: Data structures supported by the <Method Name> Request Body on this resource

|  |  |  |  |
| --- | --- | --- | --- |
| Data type | P | Cardinality | Description |
| "*<type>*" or "array*(<type>*)" or "map*(<type>*)" | "M", "C" or "O" | "0..1", "1", or "M..N", or <leave empty> | <only if applicable> |

Table 9.x.3.2.2-3: Data structures supported by the <Method Name> Response Body on this resource

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Data type | P | Cardinality | Response codes | Description |
| "*<type>*" or "array*(<type>*)" or "map*(<type>*)" | "M", "C" or "O" | "0..1", "1" or "M..N", or <leave empty> | <list applicable codes with name from the applicable RFCs> | <Meaning of the success case>or<Meaning of the error case with additional statement regarding error handling> |

### 9.x.4 Data Model

#### 9.x.4.1 General

This clause specifies the application data model supported by the API. Data types listed in clause <7.X related to EdgeApp design aspects common for all APIs> apply to this API

Table 9.x.4.1-1 specifies the data types defined specifically for the <API Name> API service.

Table 9.x.4.1-1: <API Name> API specific Data Types

|  |  |  |  |
| --- | --- | --- | --- |
| Data type | Section defined | Description | Applicability |
|  |  |  |  |

Table 9.x.4.1-2 specifies data types re-used by the <API Name> API service.

Table 9.x.4.1-2: Re-used Data Types

|  |  |  |  |
| --- | --- | --- | --- |
| Data type | Reference | Comments | Applicability |
|  |  |  |  |

#### 9.x.4.2 Structured data types

##### 9.x.4.2.1 Introduction

##### 9.x.4.2.2 Type: <Data type name>

Table 9.x.4.2.2-1: Definition of type <Data Type name>

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Attribute name | Data type | P | Cardinality | Description | Applicability |
| <*attribute name*> | "*<type>*" or "array*(<type>*)" or "map*(<type>*)" | "M", "C" or "O" | "0..1", "1" or "M..N" | <only if applicable> |  |
|  |  |  |  |  |  |

#### 9.x.4.3 Simple data types and enumerations

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

##### 9.x.4.3.1 Introduction

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

##### 9.x.4.3.2 Simple data types

The simple data types defined in table 9.x.4.3.2-1 shall be supported.

Table 9.x.4.3.2-1: Simple data types

|  |  |  |  |
| --- | --- | --- | --- |
| Type Name | Type Definition | Description | Applicability |
|  | <one simple data type, i.e. boolean, integer, number, or string> |  |  |

##### 9.x.4.3.3 Enumeration: <EnumType1>

The enumeration <EnumType1> represents <something>. It shall comply with the provisions defined in table 9.x.4.3.3-1.

Table 9.x.4.3.3-1: Enumeration < EnumType1>

|  |  |  |
| --- | --- | --- |
| Enumeration value | Description | Applicability |
|  |  |  |

### 9.x.5 Error Handling

### 9.x.6 Feature negotiation

General feature negotiation procedures are defined in clause <7.X>. Table 9.x.6-1 lists the supported features for <API name> API.

Table 9.x.6-1: Supported Features

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

|  |  |  |  |
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# 10 Using Common API Framework

*This clause will provide the EdgeApp APIs aspects when used with Common API Framework*

# 11 Security

*This clause will provide the security aspects.*

Annex A (normative):
OpenAPI specification

This is a normative annex clause to specify the Open API representation of the all the EdgeApp APIs defined in this specification.

## A.1 General

*This clause provides the introduction of the Open API specification files and their location.*

Annex B (informative):
Change history

|  |
| --- |
| **Change history** |
| **Date** | **Meeting** | **TDoc** | **CR** | **Rev** | **Cat** | **Subject/Comment** | **New version** |
| 2020-01 | CT3#113e |  |  |  |  | TS skeleton for Enabling Edge Applications, Application Programming Interface (API) specification. | 0.0.0 |