**3GPP TSG-SA5 Meeting #138e *S5-214160rev1***

**23 August to 31 August 2021, E-meeting**

|  |
| --- |
| *CR-Form-v12.0* |
| **CHANGE REQUEST** |
|  |
|  | **28.550** | **CR** | **0068** | **rev** | **1** | **Current version:** | **16.7.0** |  |
|  |
| *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)*.* |
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|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| ***Proposed change affects:*** | UICC apps |  | ME |  | Radio Access Network | **X** | Core Network | **x** |

|  |
| --- |
|  |
| ***Title:***  | Correction of OpenAPI |
|  |  |
| ***Source to WG:*** | Intel |
| ***Source to TSG:*** | S5 |
|  |  |
| ***Work item code:*** | NETSLICE-ADPM5G |  | ***Date:*** | 2021-08-10 |
|  |  |  |  |  |
| ***Category:*** | A |  | ***Release:*** | 16 |
|  | *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-12 (Release 12)**Rel-13 (Release 13)Rel-14 (Release 14)Rel-15 (Release 15)Rel-16 (Release 16)**Rel-17 (Release 17)* |
|  |  |
| ***Reason for change:*** | Correction of OpenAPI to align with 32.158. |
|  |  |
| ***Summary of change:*** | Corrected OpenAPI and mapping tables. |
|  |  |
| ***Consequences if not approved:*** | The OpenAPI will not be implementable. |
|  |  |
| ***Clauses affected:*** | 8, Annex E |
|  |  |
|  | **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:*** | Forge branch link: https://forge.3gpp.org/rep/sa5/MnS/commit/4c7a7b105773057d3f66156a84545ff236b6f7ec |
|  |  |
| ***This CR's revision history:*** |  |

|  |
| --- |
| **1st modified section** |

# 8 RESTful HTTP-based solution set of performance measurement job control service specific operations and notifications

## 8.1 Mapping of operations

### 8.1.1 Introduction

The IS operations are mapped to SS equivalents according to table 8.1.1-1.

Table 8.1.1-1: Mapping of IS operations to SS equivalents

|  |  |  |  |
| --- | --- | --- | --- |
| **IS operation** | **HTTP Method** | **Resource URI** | **Qualifier** |
| createMeasurementJob | POST | /measJobs | M |
| listMeasurementJobs | GET | /measJobs | M |
| /measJobs/{jobId} | M |
|  stopMeasurementJob  | DELETE | /measJobs/{jobId} | M |

### 8.1.2 Operation createMeasurementJob

The IS operation parameters are mapped to SS equivalents according to table 8.1.2-1 and table 8.1.2-2.

Table 8.1.2-1: Mapping of IS operation input parameters to SS equivalents (HTTP POST)

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **IS operation parameter name** | **SS parameter location** | **SS parameter name** | **SS parameter type** | **Qualifier** |
| iOCName | request body | iOCName | string | M |
| iOCInstanceList | request body | iOCInstanceList | array(uri-Type) | M |
| measurementCategoryList | request body | measurementCategoryList | array(string) | M |
| reportingMethod | request body | reportingMethod | reportingMethodType | M |
| granularityPeriod | request body | granularityPeriod | Integer | M |
| reportingPeriod | request body | reportingPeriod | Integer | M |
| startTime | request body | startTime | dateTime-Type | O |
| stopTime | request body | stopTime | dateTime-Type | O |
| schedule | request body | schedule | ScheduleType | O |
| streamTarget | request body | streamTarget | string | M |
| priority | request body | priority | PriorityType | O |
| reliability | request body | reliability | string | O |

Table 8.1.2-2: Mapping of IS operation output parameters to SS equivalents (HTTP POST)

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **IS operation parameter name** | **SS parameter location** | **SS parameter name** | **SS parameter type** | **Qualifier** |
| jobId | Location header | href | uri-Type | M |
| unsupportedList | response body | unsupportedList | array(unsupportedMeas-Type) | M |
| status | response status codesresponse body | n/aerror | n/aerror-ResponseType | M |

### 8.1.3 Operation listMeasurementJobs

The IS operation parameters are mapped to SS equivalents according to table 8.1.3-1 and table 8.1.3-2.

Table 8.1.3-1: Mapping of IS operation input parameters to SS equivalents (HTTP GET)

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **IS operation parameter name** | **SS parameter location** | **SS parameter name** | **SS parameter type** | **Qualifier** |
| jobIdList | PathQuery | MeasJobs/{jobId}jobIdList | jobId: stringarray(string) | O |

Table 8.1.3-2: Mapping of IS operation output parameters to SS equivalents (HTTP POST)

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **IS operation parameter name** | **SS parameter location** | **SS parameter name** | **SS parameter type** | **Qualifier** |
| jobInfoList | response body | data | measJobsRetrieval-ResponseType | O |
| status | response status codesresponse body | n/aerror | n/aerror-ResponseType | M |

### 8.1.4 Operation stopMeasurementJob

The IS operation parameters are mapped to SS equivalents according to table 8.1.4-1 and table 8.1.4-2.

Table 8.1.4-1: Mapping of IS operation input parameters to SS equivalents (HTTP DELETE)

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **IS operation parameter name** | **SS parameter location** | **SS parameter name** | **SS parameter type** | **Qualifier** |
| jobId | path | /MeasJobs/{jobId} | jobId:string | M |

Table 8.1.4-2: Mapping of IS operation output parameters to SS equivalents (HTTP DELETE)

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **IS operation parameter name** | **SS parameter location** | **SS parameter name** | **SS parameter type** | **Qualifier** |
| status | response status codesresponse body | n/aerror | n/aerror-ResponseType | M |

## 8.2 Resources

### 8.2.0 Resource structure

Figure 8.2.0-1 shows the resource structure of the performance measurement job control service.



Figure 8.2.0-1: Resource URI structure of the performance measurement job control service

Table 8.2.0-1 provides an overview of the resources and applicable HTTP methods.

Table 8.2.0-1: Resources and methods overview

|  |  |  |  |
| --- | --- | --- | --- |
| Resource name | Resource URI | HTTP method | Description |
| measJobs | /measJobs | GET | Retrieve all or a list of measurement jobs |
| POST | Create a measurement job |
| measJob | /measJobs/{jobId} | GET | Retrieve a measurement job |
| DELETE | Stop a measurement job |

### 8.2.1 Resource definitions

#### 8.2.1.1 Void

#### 8.2.1.2 Resource “/measJobs”

##### 8.2.1.2.1 Description

This resource represents a collection of measurement jobs.

##### 8.2.1.2.2 URI

Resource URI = {MnSRoot}/PerfMeasJobCtrlMnS/{MnSVersion}/measJobs

The resource URI variables a defined in the following table.

Table 8.2.1.2.2-1: URI variables

|  |  |
| --- | --- |
| **Name** | **Definition** |
| MnSRoot | See subclause 4.4.3 of TS 32.158 [14] |
| MnSVersion | See subclause 4.4.3 of TS 32.158 [14] |
|  |  |

##### 8.2.1.2.3 HTTP methods

8.2.1.2.3.1 HTTP POST

This method shall support the URI query parameters specified in the following table.

**Table 8.2.1.2.3.1-1: URI query parameters supported by the POST method on this resource**

|  |  |  |  |
| --- | --- | --- | --- |
| **Name** | **Data type** | **Description** | **SQ** |
|  |  |  |  |

This method shall support the request data structures, the response data structures and response codes specified in the following table.

**Table 8.2.1.2.3.1-2: Data structures supported by the POST request body on this resource**

|  |  |  |
| --- | --- | --- |
| **Data type** | **Description** | **SQ** |
| measJobCreation-RequestType | The resource representation of the measurement job to be created | M |

**Table 8.2.1.2.3.1-3: Data structures supported by the POST Response Body on this resource**

|  |  |  |  |
| --- | --- | --- | --- |
| **Data type** | **Response****codes** | **Description** | **SQ** |
| measJobCreation-ResponseType | 201 Created | In case of success the representation of the created measurement job is returned. | M |
| 202 Partially created | In case of partial success the representation of the created measurement job with unsupported list is returned. |  |
| error-Type | 4xx/5xx | Returned in case of an error | M |

8.2.1.2.3.2 HTTP GET

This method shall support the URI query parameters specified in the following table.

**Table 8.2.1.2.3.2-1: URI query parameters supported by the GET method on this resource**

|  |  |  |  |
| --- | --- | --- | --- |
| **Name** | **Data type** | **Description** | **SQ** |
| jobIdList | Array (string) | This parameter extends the set of targeted resources beyond the base resource identified with the path component of the URI. No scoping mechanism is specified in the present release. | O |

This method shall support the request data structures, the response data structures and response codes specified in the following tables.

**Table 8.2.1.2.3.2-2: Data structures supported by the GET request body on this resource**

|  |  |  |
| --- | --- | --- |
| **Data type** | **Description** | **SQ** |
|  |  |  |

**Table 8.2.1.2.3.2-3: Data structures supported by the GET response body on this resource**

|  |  |  |  |
| --- | --- | --- | --- |
| **Data type** | **Response****codes** | **Description** | **SQ** |
| measJobsRetrieval-ResponseType | 200 OK | The resource representations of the measurement job list retrieved. | M |
| error-ResponseType | 4xx/5xx | Returned in case of an error | M |

#### 8.2.1.3 Resource “/measJobs/{jobId}”

##### 8.2.1.3.1 Description

This resource represents a measurement job.

##### 8.2.1.3.2 URI

Resource URI = {MnSRoot}/PerfMeasJobCtrlMnS/{MnSVersion}/measJobs/{jobId}

The resource URI variables a defined in the following table.

Table 8.2.1.3.2-1: URI variables

|  |  |
| --- | --- |
| **Name** | **Definition** |
| MnSRoot | See subclause 4.4.3 of TS 32.158 [14] |
| MnSVersion | See subclause 4.4.3 of TS 32.158 [14] |
|  |  |
| jobId | The id of the measurement job |

##### 8.2.1.3.3 HTTP methods

8.2.1.3.3.1 HTTP GET

This method shall support the URI query parameters specified in the following table.

**Table 8.2.1.3.3.1-1: URI query parameters supported by the GET method on this resource**

|  |  |  |  |
| --- | --- | --- | --- |
| **Name** | **Data type** | **Description** | **SQ** |
|  |  |  |  |

This method shall support the request data structures, the response data structures and response codes specified in the following tables.

**Table 8.2.1.3.3.1-2: Data structures supported by the GET request body on this resource**

|  |  |  |
| --- | --- | --- |
| **Data type** | **Description** | **SQ** |
| n/a | n/a | n/a |

**Table 8.2.1.3.3.1-3: Data structures supported by the GET response body on this resource**

|  |  |  |  |
| --- | --- | --- | --- |
| **Data type** | **Response****codes** | **Description** | **SQ** |
| measJobsRetrieval-ResponseType | 200 OK | The resource representations of the measurement job retrieved. | M |
| error-ResponseType | 4xx/5xx | Returned in case of an error | M |

8.2.1.3.3.2 HTTP DELETE

This method shall support the URI query parameters specified in the following table.

**Table 8.2.1.3.3.2-1: URI query parameters supported by the DELETE method on this resource**

|  |  |  |  |
| --- | --- | --- | --- |
| **Name** | **Data type** | **Description** | **SQ** |
|  |  |  |  |

This method shall support the request data structures, the response data structures and response codes specified in the following tables.

**Table 8.2.1.3.3.2-2: Data structures supported by the DELETE request body on this resource**

|  |  |  |
| --- | --- | --- |
| **Data type** | **Description** | **SQ** |
| n/a | n/a | n/a |

**Table 8.2.1.3.3.2-3: Data structures supported by the DELETE response body on this resource**

|  |  |  |  |
| --- | --- | --- | --- |
| **Data type** | **Response****codes** | **Description** | **SQ** |
| n/a | 204 No Content | In case of success no message body is returned | M |
| error-ResponseType | 4xx/5xx | Returned in case of an error | M |

## 8.3 Data type definitions

### 8.3.1 General

Table 8.3.1-1: Data types defined in this specification

|  |  |  |
| --- | --- | --- |
| **Data type** | **Reference** | **Description** |
| **General types** |
| dataTime-Type | 8.3.8.2 | Data type of date and time. |
| uri-Type | 8.3.8.2 | The data type of a URI |
| **Types used in paths** |
|  |  |  |
| **Types used in query parts** |
|  |  |  |
| **Types used in request bodies** |
| measJobCreation-RequestType | 8.3.6.1 | Used in the request body of HTTP POST describing the measurement job to be created |
| **Types used in response bodies** |
| measJobCreation-ResponseType | 8.3.6.2 | Used in the response body of HTTP POST describing the measurement job created |
| measJobsRetrieval-ResponseType | 8.3.6.3 | Used in the response body of HTTP GET describing the measurement job(s) retrieved |
| error-ResponseType | 8.3.6.4 | Used in the response body describing the error. |
| **Types used for resources** |
| measJobInfo-ResourceType | 8.3.6.5 | Used for representation of the measurement job information. |
| **Types referenced by the definitions above** |
| reportingMethod-Type | 8.3.8.3 | This defines the data type for reporting method. |
|  |  |  |
| schedule-Type | 8.3.7.1 | This defines the data type for schedule. |
| priority-Type | 8.3.8.4 | This defines the data type for priority of the measurement job. |
| unsupportedMeas-Type | 8.3.7.5 | This defines the data type for the unsupported measurement types for an IOC instance. |
|  |  |  |

Table 8.3.1-2: Data types imported

|  |  |  |
| --- | --- | --- |
| **Data type** | **Reference** | **Description** |
|  |  |  |

### 8.3.2 Void

### 8.3.3 Void

### 8.3.4 Structured general data types

None.

### 8.3.5 Structured path data types

None.

### 8.3.6 Query, message body and resource data types

#### 8.3.6.1 Type measJobCreation-RequestType

Table 8.3.6.1-1: Definition of type measJobCreation-RequestType

|  |  |  |  |
| --- | --- | --- | --- |
| **Attribute name** | **Data type** | **Description** | **SQ** |
| iOCName | string | The IOC name of the IOC instances for which the measurement job is to be created. | M |
| iOCInstanceList | array(uri-Type) | The URI(s) of the IOC instances for which the measurement job is to be created. | M |
| measurementCategoryList | array(string) | The list of measurement type(s) to be measured.  | M |
| reportingMethod | reportingMethod-Type | The reporting method of the measurements to be collected, i.e., by performance data file or by performance data streaming. | M |
| granularityPeriod | Integer | The granularity period of the measurement job. | M |
| reportingPeriod | Integer | The reporting period of the measurement job. | M |
| startTime | dateTime-Type | The begin time from which the measurement job will be active. | O |
| stopTime | dateTime-Type | The end time after which the measurement job will be stopped. | O |
| schedule | schedule-Type | The detailed time frames (within the startTime and stopTime) during which the measurement job is active and monitors the measurement type(s). | O |
| streamTarget | string | The target of performance data streams carrying the performance data stream unit(s). | M |
| priority | priority-Type | The priority of the measurement job. | O |
| reliability | string | The reliability of the measurement job. | O |

#### 8.3.6.2 Type measJobCreation-ResponseType

Table 8.3.6.2-1: Definition of type measJobCreation-ResponseType

|  |  |  |  |
| --- | --- | --- | --- |
| **Attribute name** | **Data type** | **Description** | **SQ** |
| unsupportedList | array(unsupportedMeas-Type) | The list of unsupported IOC instances, unsupported measurement types and reason. | M |

#### 8.3.6.3 Type measJobsRetrieval-ResponseType

Table 8.3.6.3-1: Definition of type measJobsRetrieval-ResponseType

|  |  |  |  |
| --- | --- | --- | --- |
| **Attribute name** | **Data type** | **Description** | **SQ** |
| jobInfoList | array(measJobInfo-ResourceType) | The list of measurement job information. | M |

#### 8.3.6.4 Type error-ResponseType

Table 8.3.6.4-1: Definition of type error-ResponseType

|  |  |  |  |
| --- | --- | --- | --- |
| **Attribute name** | **Data type** | **Description** | **SQ** |
| error | object | Key indicating the response body containing an error | M |
| > errorInfo | string | Attribute allowing to convey error information in string format | M |

#### 8.3.6.5 Type measJobInfo-ResourceType

Table 8.3.6.3-1: Definition of type measJobsRetrieval-ResponseType

|  |  |  |  |
| --- | --- | --- | --- |
| **Attribute name** | **Data type** | **Description** | **SQ** |
| href | uri-Type | The URI of the measurement job. | M |
| iOCName | string | The IOC name of the IOC instances for which the measurement job created. | M |
| iOCInstanceList | array(uri-Type) | The URI(s) of the IOC instances for which the measurement job is created. | M |
| measurementCategoryList | array(string) | The list of measurement type(s) measured.  | M |
| reportingMethod | reportingMethod-Type | The reporting method of the measurements, i.e., by performance data file or by performance data streaming. | M |
| granularityPeriod | Integer | The granularity period of the measurement job. | M |
| reportingPeriod | Integer | The reporting period of the measurement job. | M |
| startTime | dateTime-Type | The begin time from which the measurement job is active. | O |
| stopTime | dateTime-Type | The end time after which the measurement job will be stopped. | O |
| schedule | schedule-Type | The detailed time frames (within the startTime and stopTime) during which the measurement job is active and monitors the measurement type(s). | O |
| streamTarget | string | The target of performance data streams carrying the performance data stream unit(s). | M |
| priority | priority-Type | The priority of the measurement job. | O |
| reliability | string | The reliability of the measurement job. | O |

### 8.3.7 Referenced structured data types

#### 8.3.7.1 Type schedule-Type

Table 8.3.7.1-1: Definition of schedule-Type

|  |  |  |  |
| --- | --- | --- | --- |
| **Attribute name** | **Data type** | **Description** | **SQ** |
| scheduleOption | scheduleOption-Type | It indicates the schedule is daily or weekly | M |
| dailySchedule | array(timeInterval-Type) | It defines the daily schedule. | M |
| weeklySchedule | array(scheduleOfDay-Type) | It defines the weekly schedule. | M |

#### 8.3.7.2 Type timeInterval-Type

Table 8.3.7.2-1: Definition of timeInterval-Type

|  |  |  |  |
| --- | --- | --- | --- |
| **Attribute name** | **Data type** | **Description** | **SQ** |
| intervalStart | string | It defines the start time of the schedule, by a string in Time format.  | M |
| intervalEnd | string | It defines the end time of the schedule, by a string in Time format.s | M |

#### 8.3.7.3 Type scheduleOfDay-Type

Table 8.3.7.3-1: Definition of scheduleOfDay-Type

|  |  |  |  |
| --- | --- | --- | --- |
| **Attribute name** | **Data type** | **Description** | **SQ** |
| dayOfWeek | dayOfWeek-Type | It defines the day of a week.  | M |
| intervalsOfDay | array(timeInterval-Type) | It defines the schedule of the day. | M |

#### 8.3.7.4 Void

#### 8.3.7.5 Type unsupportedMeas-Type

Table 8.3.7.5-1: Definition of unsupportedMeas-Type

|  |  |  |  |
| --- | --- | --- | --- |
| **Attribute name** | **Data type** | **Description** | **SQ** |
| iOCInstance | uri-Type | The URI of the IOC instance. | M |
| measurementTypeName | string | It defines the measurement type name that the IOC Instance as indicated above does not support | M |
| reason | string | It specifies the reason that measurement type name is not supported by the IOC instance | M |

### 8.3.8 Simple data types and enumerations

#### 8.3.8.1 General

This subclause defines simple data types and enumerations that are used by the data structures defined in the previous subclauses.

#### 8.3.8.2 Simple data types

Table 8.3.8.2-1: Simple data types

|  |  |  |
| --- | --- | --- |
| Type name | Type definition | Description |
| dataTime-Type | string | The data type for date and time in “date-time” format. |
| uri-Type | string | The type of a URI |

#### 8.3.8.3 Enumeration reportingMethod-Type

Table 8.3.8.3-1: Enumeration reportingMethod-Type

|  |  |
| --- | --- |
| Enumeration value | Description |
| file | It indicates that the performance data are to be reported by performance data file.  |
| streaming | It indicates that the performance data are to be reported by performance data streaming. |

#### 8.3.8.4 Enumeration priority-Type

Table 8.3.8.4-1: Enumeration priority-Type

|  |  |
| --- | --- |
| Enumeration value | Description |
| Low | It indicates that the priority of the measurement job is low |
| medium | It indicates that the priority of the measurement job is medium |
| high | It indicates that the priority of the measurement job is high |

#### 8.3.8.5 Enumeration scheduleOption-Type

Table 8.3.8.5-1: Enumeration scheduleOption-Type

|  |  |
| --- | --- |
| Enumeration value | Description |
| daily | It indicates the schedule of the measurement job is daily. |
| weekly | It indicates the schedule of the measurement job is weekly. |

#### 8.3.8.6 Enumeration dayOfWeek-Type

Table 8.3.8.6-1: Enumeration dayOfWeek-Type

|  |  |
| --- | --- |
| Enumeration value | Description |
| Monday | It indicates Monday of a week. |
| Tuesday | It indicates Tuesday of a week. |
| Wednesday | It indicates Wednesday of a week. |
| Thursday | It indicates Thursday of a week. |
| Friday | It indicates Friday of a week. |
| Saturday | It indicates Saturday of a week. |
| Sunday | It indicates Sunday of a week. |

|  |
| --- |
| **Next modified section** |

Annex E (normative):
OpenAPI specification

## E.1 Introduction

This clause describes the capabilities of the Management Services in the structure of the OpenAPI Specification Version 3.0.1. The OpenAPI document is represented in the YAML format option.

## E.2 Performance measurement job control service

openapi: 3.0.1

info:

 title: TS 28.550 Performance Measurement Job Control Service

 version: 16.8.0

 description: >-

 OAS 3.0.1 specification of the Performance Measurement Job Control Service

 @ 2020, 3GPP Organizational Partners (ARIB, ATIS, CCSA, ETSI, TSDSI, TTA, TTC).

 All rights reserved.

externalDocs:

 description: 3GPP TS 28.550 V16.8.0; Performance assurance

 url: http://www.3gpp.org/ftp/Specs/archive/28\_series/28.550/

servers:

 - url: '{MnSRoot}/PerfMeasJobCtrlMnS/{MnSVersion}'

 variables:

 MnSRoot:

 description: See clause 4.4.2 of TS 32.158

 default: http://example.com/3GPPManagement

 MnSVersion:

 description: Version number of the OpenAPI definition

 default: XXX

paths:

 /measJobs:

 post:

 summary: Create a measurement job

 description: To create a measurement job the representation of the measurement job is POSTed on the /measJobs collection resource.

 requestBody:

 required: true

 content:

 application/json:

 schema:

 $ref: '#/components/schemas/measJobCreation-RequestType'

 responses:

 '201':

 description: Success case ("201 Created"). The representation of the newly created measurement job resource shall be returned.

 content:

 application/json:

 schema:

 $ref: '#/components/schemas/measJobCreation-ResponseType'

 '202':

 description: Partial success case ("202 Partically created"). The representation of the newly created measurement job resource with unsupported list shall be returned.

 content:

 application/json:

 schema:

 $ref: '#/components/schemas/measJobCreation-ResponseType'

 default:

 description: Error case.

 content:

 application/json:

 schema:

 $ref: '#/components/schemas/error-ResponseType'

 get:

 summary: Read resources of measurement jobs

 description: 'With HTTP GET, resources of measurement jobs are read. The resources to be read are identified with the path component (base resource) and the query component (jobIdList) of the URI. The fields query component allows to select the resource properties to be returned.'

 parameters:

 - name: jobIdList

 in: query

 description: This parameter identifies the list of jobId to select the resources from the collection resources identified with the path component of the URI.

 required: true

 schema:

 type: array

 items:

 type: string

 responses:

 '200':

 description: 'Success case ("200 OK"). The resources identified in the request for retrieval are returned in the response message body. In case the fields query parameter is used, the selected resources are returned.'

 content:

 application/json:

 schema:

 $ref: '#/components/schemas/measJobsRetrieval-ResponseType'

 default:

 description: Error case.

 content:

 application/json:

 schema:

 $ref: '#/components/schemas/error-ResponseType'

 '/measJobs/{jobId}':

 get:

 summary: Read resource of a single measurement job

 description: 'With HTTP GET, resource of a measurement job is read. The resource to be read is identified with the path component of the URI.'

 parameters:

 - name: jobId

 in: path

 description: Identifies the measurement job to be read.

 required: true

 schema:

 $ref: '#/components/schemas/uri-Type'

 responses:

 '200':

 description: 'Success case ("200 OK"). The resource identified in the path for retrieval is returned in the response message body. '

 content:

 application/json:

 schema:

 $ref: '#/components/schemas/measJobsRetrieval-ResponseType'

 default:

 description: Error case.

 content:

 application/json:

 schema:

 $ref: '#/components/schemas/error-ResponseType'

 delete:

 summary: Delete a single measurement job

 description: The measurement job is deleted by deleting the corresponding measurement job resource. The resource to be deleted is identified with the path component of the URI.

 parameters:

 - name: jobId

 in: path

 description: Identifies the measurement job to be deleted.

 required: true

 schema:

 $ref: '#/components/schemas/uri-Type'

 responses:

 '204':

 description: Success case ("204 No Content"). The measurement job resource has been deleted. The response message body is absent.

 default:

 description: Error case.

 content:

 application/json:

 schema:

 $ref: '#/components/schemas/error-ResponseType'

components:

 schemas:

 dateTime-Type:

 type: string

 format: date-Time

 uri-Type:

 type: string

 measJobCreation-RequestType:

 type: object

 properties:

 iOCName:

 type: string

 iOCInstanceList:

 type: array

 items:

 $ref: '#/components/schemas/uri-Type'

 measurementCategoryList:

 type: array

 items:

 type: string

 reportingMethod:

 $ref: '#/components/schemas/reportingMethod-Type'

 granularityPeriod:

 type: integer

 reportingPeriod:

 type: integer

 startTime:

 $ref: '#/components/schemas/dateTime-Type'

 stopTime:

 $ref: '#/components/schemas/dateTime-Type'

 schedule:

 $ref: '#/components/schemas/schedule-Type'

 streamTarget:

 type: string

 priority:

 $ref: '#/components/schemas/priority-Type'

 reliability:

 type: string

 measJobCreation-ResponseType:

 type: object

 properties:

 unsupportedList:

 type: array

 items:

 $ref: '#/components/schemas/unsupportedMeas-Type'

 measJobsRetrieval-ResponseType:

 type: object

 properties:

 jobInfoList:

 type: array

 items:

 $ref: '#/components/schemas/measJobInfo-ResourceType'

 error-ResponseType:

 type: object

 properties:

 error:

 type: object

 properties:

 errorInfo:

 type: string

 measJobInfo-ResourceType:

 type: object

 properties:

 href:

 $ref: '#/components/schemas/uri-Type'

 iOCName:

 type: string

 iOCInstanceList:

 type: array

 items:

 $ref: '#/components/schemas/uri-Type'

 measurementCategoryList:

 type: array

 items:

 type: string

 reportingMethod:

 $ref: '#/components/schemas/reportingMethod-Type'

 granularityPeriod:

 type: integer

 reportingPeriod:

 type: integer

 startTime:

 $ref: '#/components/schemas/dateTime-Type'

 stopTime:

 $ref: '#/components/schemas/dateTime-Type'

 schedule:

 $ref: '#/components/schemas/schedule-Type'

 streamTarget:

 type: string

 priority:

 $ref: '#/components/schemas/priority-Type'

 reliability:

 type: string

 schedule-Type:

 type: object

 properties:

 scheduleOption:

 $ref: '#/components/schemas/scheduleOption-Type'

 dailySchedule:

 type: array

 items:

 $ref: '#/components/schemas/timeInterval-Type'

 weeklySchedule:

 type: array

 items:

 $ref: '#/components/schemas/scheduleOfDay-Type'

 timeInterval-Type:

 type: object

 properties:

 intervalStart:

 type: string

 format: Time

 intervalEnd:

 type: string

 format: Time

 scheduleOfDay-Type:

 type: object

 properties:

 dayOfWeek:

 $ref: '#/components/schemas/dayOfWeek-Type'

 intervalsOfDay:

 type: array

 items:

 $ref: '#/components/schemas/timeInterval-Type'

 unsupportedMeas-Type:

 type: object

 properties:

 iOCInstance:

 $ref: '#/components/schemas/uri-Type'

 measurementTypeName:

 type: string

 reason:

 type: string

 reportingMethod-Type:

 type: string

 enum:

 - file

 - streaming

 priority-Type:

 type: string

 enum:

 - low

 - medium

 - high

 scheduleOption-Type:

 type: string

 enum:

 - daily

 - weekly

 dayOfWeek-Type:

 type: string

 enum:

 - Monday

 - Tuesday

 - Wednesday

 - Thursday

 - Friday

 - Saturday

 - Sunday

## E.3 Void

|  |
| --- |
| **End of modified sections** |