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Revision History

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| --- | --- | --- | --- |
| Revision | Date | Editor | Comments |
| 0.00 | 20-Nov-2014 | M. Trayer | Initial Draft |
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# Scope

<<Scope>>

# Normative references

The following documents, in whole or in part, are normatively referenced in this document and are indispensable for its application. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

IEC 60169-24, Radio-frequency connectors – Part 24: Radio-frequency coaxial connectors with screw coupling, typically for use in 75 ohm cable distribution systems (Type F)

# Terms, definitions, symbols and abbreviations

## Terms and definitions

TBD

To Be Determined

## Symbols and abbreviations

TBD

To Be Determined

<<Description>>

## Conventions

In this specification a number of terms, conditions, mechanisms, sequences, parameters, events, states, or similar terms are printed with the first letter of each word in uppercase and the rest lowercase (e.g., Network Architecture). Any lowercase uses of these words have the normal technical English meaning.

# Document conventions and organization

TBD

# Operational Scenarios

# Sensor Resource Model

# Actuator Resource Model

<<Summary Table of All Defined Actuator Resources>>

## <<Resource Name>>

### introduction

URI

### RAML Definition

#%RAML 0.8

title: APILight

version: baseversion

/device

description: Root node for the OIC device

get

responses:

200:

application/json

schema: |

{ "$schema": "http://json-schema.org/schema",  
  
 "name": { "type": "string", title:"mytitle", description:"the description"},  
  
 "deviceType": { "type": "string" },  
  
 "id": { "type": "string" },  
  
 "location": { "type": "string" },  
  
 "resourceList": {  
  
 "link": { "type": "string" }  
  
 }  
  
 }

example: |

{

responses :

200:

body:

application/json:

schema: |

{  
 "$schema": "http://json-schema.org/draft-04/schema#",  
 "description" : "Copyright (c) 2016 Open Connectivity Foundation, Inc. All rights reserved.",  
 "id": "http://openconnectivityfoundation.org/core/schemas/oic.rule-schema.json#",  
 "title" : "Rule",  
 "definitions": {  
 "oic.rule": {  
 "type": "object",  
 "properties": {  
 "condition": {  
 "type": "string",  
 "description": "condition of the rule",  
 "format": "UTF8"  
 },  
 "currentStatus": {  
 "type": "string",  
 "description": "ReadOnly, the current state, can be one of: enabled, disabled, error"  
 },  
 "n": {  
 "type": "string",  
 "description": "Used to name the Rule collection",  
 "format": "UTF8"  
 },  
 "test": {  
 "type": "boolean",  
 "description": "Inidcates initiation of test mode for the rule"  
 },  
 "id": {  
 "type": "string",  
 "description": "Can be an value that is unique to the use context or a UUIDv4"  
 },  
 "rts": {  
 "type": "string",  
 "description": "ReadOnly, Defines the list of allowable resource types in links included in the collection; new links being created can only be from this list"  
 },  
 "links": {

### Attribute/Property Definition

Unit, type

### CRUDN Behaviour

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Resource | Create | Read | Update | Delete | Notify |
| /{link} |  | get | put |  |  |

### Example Representation

## Air Quality Mapping

### Introduction

This API defines the mapping between the ASA AirQuality interface and the OCF AirQuality Resource. The OCF Resource is an array of objects, each instance in the array equates to an instance of the ASA AirQuality Interface if more than one instance is exposed. The mapping defined in the schema describes the population of the OCF array object. There shall only be single instance of an OCF AirQuality Resource. The array size therein equates to the number of instances of the ASA CurrentAirQuality interface that are exposed. When mapping from OCF the valueType of the Resource shall be introspected, this API is invoked only if this is set to 'Measured'

### Example URI

/CurrentAirQualityResURI

### Resource Type

The resource type (rt) is defined as: oic.r.airquality.

### RAML Definition

#%RAML 0.8

title: *CurrentAirQualityInterfaceMapping*

version: *OCFv1.1.0-20160701*

traits:

- interface-sensor :

queryParameters:

if:

enum: ["oic.if.s", "oic.if.baseline"]

/CurrentAirQualityResURI:

description: |

This API defines the mapping between the ASA AirQuality interface and the OCF AirQuality Resource.  
 The OCF Resource is an array of objects, each instance in the array equates to an instance of the ASA AirQuality Interface if more than one instance is exposed.  
 The mapping defined in the schema describes the population of the OCF array object.  
 There shall only be single instance of an OCF AirQuality Resource  
 The array size therein equates to the number of instances of the ASA CurrentAirQuality interface that are exposed.  
 When mapping from OCF the valueType of the Resource shall be introspected, this API is invoked only if this is set to 'Measured'

is : ['interface-sensor']

get:

responses :

200:

body:

application/json:

schema: |

{  
 "id": "http://openinterconnect.org/asamapping/schemas/asa.environment.currentairquality.json#",  
 "$schema": "http://json-schema.org/draft-04/schema#",  
 "description" : "Copyright (c) 2016 Open Connectivity Foundation, Inc. All rights reserved.",  
 "title": "Current Air Quality",  
 "definitions": {  
 "asa.environment.currentairquality": {  
 "type": "object",  
 "properties": {  
 "contaminanttype": {  
 "type": "integer",  
 "description": "The contaminant type",  
 "ocf-conversion": {  
 "ocf-alias": "oic.r.airquality",  
 "to-ocf": [  
 "valuetype = Measured",  
 "contaminanttypearray = [CH2O,CO2,CO,PM2\_5,PM10,VOC]",  
 "ocf.contaminanttype = contaminanttypearray[asa.contaminanttype]"  
 ],  
 "from-ocf": [  
 "asa.contaminanttype = indexof contaminanttypearray[ocf.contaminanttype]"  
 ]  
 }  
 },  
 "currentvalue": {  
 "type": "number",  
 "ocf-conversion": {  
 "ocf-alias": "oic.r.airquality",  
 "to-ocf": [  
 "value = currentvalue"  
 ],  
 "from-ocf": [  
 "currentvalue = value"  
 ]  
 }  
 },  
 "minvalue": {  
 "type": "number",  
 "ocf-conversion": {  
 "ocf-alias": "oic.r.airquality",  
 "to-ocf": [  
 "range[0] = minvalue"  
 ],  
 "from-ocf": [  
 "minvalue = range[0]"  
 ]  
 }  
 },  
 "maxvalue": {  
 "type": "number",  
 "ocf-conversion": {  
 "ocf-alias": "oic.r.airquality",  
 "to-ocf": [  
 "range[1] = maxvalue"  
 ],  
 "from-ocf": [  
 "maxvalue = range[1]"  
 ]  
 }  
 },  
 "precision": {  
 "type": "number",  
 "description": "Mapped to vendor defined Property (x.org.alljoyn)"  
 },  
 "updatemintime": {  
 "type": "integer",  
 "description": "Mapped to vendor defined Property (x.org.alljoyn)"  
 }  
 }  
 }  
 },  
 "type": "object",  
 "allOf": [  
 {"$ref": "#/definitions/asa.environment.airquality"}  
 ],  
 "required": ["contaminanttype","currentvalue","minvalue","maxvalue","precision","updatemintime"]  
 }

example: |

{  
 "rt": ["oic.r.airquality"]  
 }

### Property Definition

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| ASA Property name | OCF Resource | To OCF | From OCF | Description |
| currentvalue | oic.r.airquality | value = currentvalue | currentvalue = value |  |
| updatemintime |  |  |  | Mapped to vendor defined Property (x.org.alljoyn) |
| maxvalue | oic.r.airquality | range[1] = maxvalue | maxvalue = range[1] |  |
| precision |  |  |  | Mapped to vendor defined Property (x.org.alljoyn) |
| minvalue | oic.r.airquality | range[0] = minvalue | minvalue = range[0] |  |
| contaminanttype | oic.r.airquality | valuetype = Measuredcontaminanttypearray = [CH2O,CO2,CO,PM2\_5,PM10,VOC]ocf.contaminanttype = contaminanttypearray[asa.contaminanttype] | asa.contaminanttype = indexof contaminanttypearray[ocf.contaminanttype] | The contaminant type |

### CRUDN behavior

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Resource | Create | Read | Update | Delete | Notify |
| /CurrentAirQualityResURI |  | get |  |  |  |