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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

## Audio Volume Mapping

### Introduction

This API defines the mapping between an instance of an OCF Audio Controls and the ASA Audio Volume interface.

### Example URI

/AudioVolumeResURI

### Resource Type

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

### RAML Definition

#%RAML 0.8

title: *AudioVolumeInterfaceMapping*

version: *OCFv1.1.0-20160701*

traits:

- interface-all :

queryParameters:

if:

enum: ["oic.if.a"]

/AudioVolumeResURI:

description: |

This API defines the mapping between an instance of an OCF Audio Controls  
 and the ASA Audio Volume interface.

is : ['interface-all']

get:

responses :

200:

body:

application/json:

schema: |

{  
 "id": "http://openinterconnect.org/asamapping/schemas/asa.operation.audiovolume.json#",  
 "$schema": "http://json-schema.org/draft-04/schema#",  
 "description" : "Copyright (c) 2016 Open Connectivity Foundation, Inc. All rights reserved.",  
 "title": "Audio Volume",  
 "definitions": {  
 "operation.audiovolume": {  
 "type": "object",  
 "properties": {  
 "volume": {  
 "type": "integer",  
 "description": "Speaker volume index",  
 "ocf-conversion": {  
 "ocf-alias": "oic.r.audio",  
 "to-ocf": [  
 "volume = volume"  
 ],  
 "from-ocf": [  
 "volume = volume"  
 ]  
 }  
 },  
 "maxvolume": {  
 "type": "integer",  
 "description": "maximum volume",  
 "ocf-conversion": {  
 "ocf-alias": "oic.r.audio",  
 "to-ocf": [  
 "range[1] = maxvolume"  
 ],  
 "from-ocf": [  
 "maxvolume = range[1]"  
 ]  
 }  
 },  
 "mute": {  
 "type": "boolean",  
 "description": "mute (no sound)",  
 "ocf-conversion": {  
 "ocf-alias": "oic.r.audio",  
 "to-ocf": [  
 "mute = mute"  
 ],  
 "from-ocf": [  
 "mute = mute"  
 ]  
 }  
 }  
 }  
 }  
 },  
 "type": "object",  
 "allOf": [  
 {"$ref": "#/definitions/operation.audiovolume"}  
 ],  
 "required": [ "volume","maxvolume","mute" ]  
 }

example: |

{  
 "rt": ["oic.r.audio"],  
 "maxvolume" : 100,  
 "volume" : 50,  
 "mute" : false  
 }

post:

body:

application/json:

schema: |

{  
 "id": "http://openinterconnect.org/asamapping/schemas/asa.operation.audiovolume.json#",  
 "$schema": "http://json-schema.org/draft-04/schema#",  
 "description" : "Copyright (c) 2016 Open Connectivity Foundation, Inc. All rights reserved.",  
 "title": "Audio Volume",  
 "definitions": {  
 "operation.audiovolume": {  
 "type": "object",  
 "properties": {  
 "volume": {  
 "type": "integer",  
 "description": "Speaker volume index",  
 "ocf-conversion": {  
 "ocf-alias": "oic.r.audio",  
 "to-ocf": [  
 "volume = volume"  
 ],  
 "from-ocf": [  
 "volume = volume"  
 ]  
 }  
 },  
 "maxvolume": {  
 "type": "integer",  
 "description": "maximum volume",  
 "ocf-conversion": {  
 "ocf-alias": "oic.r.audio",  
 "to-ocf": [  
 "range[1] = maxvolume"  
 ],  
 "from-ocf": [  
 "maxvolume = range[1]"  
 ]  
 }  
 },  
 "mute": {  
 "type": "boolean",  
 "description": "mute (no sound)",  
 "ocf-conversion": {  
 "ocf-alias": "oic.r.audio",  
 "to-ocf": [  
 "mute = mute"  
 ],  
 "from-ocf": [  
 "mute = mute"  
 ]  
 }  
 }  
 }  
 }  
 },  
 "type": "object",  
 "allOf": [  
 {"$ref": "#/definitions/operation.audiovolume"}  
 ],  
 "required": [ "volume","maxvolume","mute" ]  
 }

responses :

200:

body:

application/json:

schema: |

{  
 "id": "http://openinterconnect.org/asamapping/schemas/asa.operation.audiovolume.json#",  
 "$schema": "http://json-schema.org/draft-04/schema#",  
 "description" : "Copyright (c) 2016 Open Connectivity Foundation, Inc. All rights reserved.",  
 "title": "Audio Volume",  
 "definitions": {  
 "operation.audiovolume": {  
 "type": "object",  
 "properties": {  
 "volume": {  
 "type": "integer",  
 "description": "Speaker volume index",  
 "ocf-conversion": {  
 "ocf-alias": "oic.r.audio",  
 "to-ocf": [  
 "volume = volume"  
 ],  
 "from-ocf": [  
 "volume = volume"  
 ]  
 }  
 },  
 "maxvolume": {  
 "type": "integer",  
 "description": "maximum volume",  
 "ocf-conversion": {  
 "ocf-alias": "oic.r.audio",  
 "to-ocf": [  
 "range[1] = maxvolume"  
 ],  
 "from-ocf": [  
 "maxvolume = range[1]"  
 ]  
 }  
 },  
 "mute": {  
 "type": "boolean",  
 "description": "mute (no sound)",  
 "ocf-conversion": {  
 "ocf-alias": "oic.r.audio",  
 "to-ocf": [  
 "mute = mute"  
 ],  
 "from-ocf": [  
 "mute = mute"  
 ]  
 }  
 }  
 }  
 }  
 },  
 "type": "object",  
 "allOf": [  
 {"$ref": "#/definitions/operation.audiovolume"}  
 ],  
 "required": [ "volume","maxvolume","mute" ]  
 }

### Property Definition

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| ASA Property name | OCF Resource | To OCF | From OCF | Description |
| volume | oic.r.audio | volume = volume | volume = volume | Speaker volume index |
| maxvolume | oic.r.audio | range[1] = maxvolume | maxvolume = range[1] | maximum volume |
| mute | oic.r.audio | mute = mute | mute = mute | mute (no sound) |

### CRUDN behavior

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Resource | Create | Read | Update | Delete | Notify |
| /AudioVolumeResURI |  | get | post |  |  |