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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

## OICBinarySwitch

### Introduction

This resource describes a binary switch (on/off).  
The value is a boolean.  
A value of 'true' means that the switch is on.  
A value of 'false' means that the switch is off.

### Example URI

/BinarySwitchResURI

### Resource Type

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

### Swagger2.0 Definition

{  
 "swagger": "2.0",  
 "info": {  
 "title": "OICBinarySwitch",  
 "version": "v1.0.0-20151223",  
 "license": {  
 "name": "copyright 2016 Open Connectivity Foundation, Inc. All rights reserved.",  
 "x-description": "Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:  
 1. Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.  
 2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.  
  
 THIS SOFTWARE IS PROVIDED BY THE Open Connectivity Foundation, INC. 'AS IS' AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE OR WARRANTIES OF NON-INFRINGEMENT, ARE DISCLAIMED.   
 IN NO EVENT SHALL THE Open Connectivity Foundation, INC. OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)   
 HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.  
"  
 }  
 },  
 "schemes": ["http"],  
 "consumes": ["application/json"],  
 "produces": ["application/json"],  
 "paths": {  
 "/BinarySwitchResURI" : {  
 "get": {  
 "description": "This resource describes a binary switch (on/off).  
The value is a boolean.  
A value of 'true' means that the switch is on.  
A value of 'false' means that the switch is off.  
",  
 "parameters": [  
 {"$ref": "#/parameters/interface"}  
 ],  
 "responses": {  
 "200": {  
 "description" : "",  
 "x-example":  
 {  
 "rt": "oic.r.switch.binary",  
 "id": "unique\_example\_id",  
 "value": false  
 }  
 ,  
 "schema": { "$ref": "#/definitions/BinarySwitch" }  
 }  
 }  
 },  
 "post": {  
 "description": "",  
 "parameters": [  
 {"$ref": "#/parameters/interface"},  
 {  
 "name": "body",  
 "in": "body",  
 "required": true,  
 "schema": { "$ref": "#/definitions/BinarySwitch" },  
 "x-example":  
 {  
 "id": "unique\_example\_id",  
 "value": true  
 }  
 }  
 ],  
 "responses": {  
 "200": {  
 "description" : "",  
 "x-example":  
 {  
 "id": "unique\_example\_id",  
 "value": true  
 }  
 ,  
 "schema": { "$ref": "#/definitions/BinarySwitch" }  
 }  
 }  
 }  
 }  
 },  
 "parameters": {  
 "interface" : {  
 "in" : "query",  
 "name" : "if",  
 "type" : "string",  
 "enum" : ["oic.if.a"]  
 }  
 },  
 "definitions": {  
 "BinarySwitch" :   
 {  
 "properties": {  
 "BLAH1": {  
 "description": "BLAH1 description",  
 "readOnly": true,  
 "type": "boolean"  
 },  
 "BLAH2": {  
 "description": "BLAH2 description",  
 "readOnly": true,  
 "type": "boolean"  
 },  
 "BLAH3": {  
 "description": "BLAH3 description",  
 "readOnly": true,  
 "type": "boolean"  
 },  
 "BLAHF1": {  
 "description": "Status of the switch",  
 "readOnly": false,  
 "type": "string"  
 },  
 "BLAHF2": {  
 "description": "Status of the switch",  
 "readOnly": false,  
 "type": "number"  
 },  
 "BLAHF3": {  
 "description": "Status of the switch",  
 "readOnly": false,  
 "type": "integer"  
 },  
 "value": {  
 "description": "description value",  
 "type": "boolean"  
 },  
 "value2": {  
 "description": "description value2",  
 "type": "boolean"  
 }  
 },  
 "required": [  
 "value"  
 ],  
 "type": "object"  
 }  
  
 }  
}

### Property Definition

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Property name | Value type | Mandatory | Access mode | Description |
| BLAH3 | boolean |  | Read Only | BLAH3 description |
| BLAH2 | boolean |  | Read Only | BLAH2 description |
| BLAHF1 | string |  | Read Write | Status of the switch |
| BLAHF2 | number |  | Read Write | Status of the switch |
| BLAHF3 | integer |  | Read Write | Status of the switch |
| value2 | boolean |  | Read Write | description value2 |
| BLAH1 | boolean |  | Read Only | BLAH1 description |
| value | boolean | yes | Read Write | description value |

### CRUDN behavior

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