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Revision History

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| --- | --- | --- | --- |
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| 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

## Binary Switch

### 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.

### RAML Definition

#%RAML 0.8

title: *OICBinarySwitch*

version: *v1.0.0-20151223*

traits:

- interface :

queryParameters:

if:

enum: ["oic.if.a"]

/BinarySwitchResURI:

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.

is : ['interface']

get:

responses :

200:

body:

application/json:

schema: |

{  
 "id": "http://openinterconnect.org/schemas/oic.r.switch.binary#",  
 "$schema": "http://json-schema.org/draft-04/schema#",  
 "description" : "copyright 2016 Open Interconnect Consortium, Inc. All rights reserved.",  
 "title": "Binary Switch",  
 "definitions": {  
 "oic.r.switch.binary": {  
 "type": "object",  
 "properties": {  
 "value": {  
 "type": "boolean",  
 "description": "description value"   
 },  
 "value2": {  
 "description": "description value2",  
 "type": "boolean"   
 },  
 "BLAH1": {  
 "description": "BLAH1 description",  
 "readOnly": true,  
 "type": "boolean"   
 },  
 "BLAH2": {  
 "readOnly": true,  
 "description": "BLAH2 description",  
 "type": "boolean"   
 },  
 "BLAH3": {  
 "description": "BLAH3 description",  
 "type": "boolean",  
 "readOnly": true   
 },  
 "BLAHF1": {  
 "description": "Status of the switch",  
 "readOnly": false,  
 "type": "string"   
 },  
 "BLAHF2": {  
 "readOnly": false,  
 "description": "Status of the switch",  
 "type": "number"   
 },  
 "BLAHF3": {  
 "description": "Status of the switch",  
 "type": "integer",  
 "readOnly": false   
 }   
 }  
 }  
 },  
 "type": "object",  
 "allOf": [  
 {"$ref": "#/definitions/oic.r.switch.binary"}  
 ],  
 "required": [ "value" ]  
 }

example: |

{  
 "rt": "oic.r.switch.binary",  
 "id": "unique\_example\_id",  
 "value": false  
 }

post:

body:

application/json:

schema: |

{  
 "id": "http://openinterconnect.org/schemas/oic.r.switch.binary#",  
 "$schema": "http://json-schema.org/draft-04/schema#",  
 "description" : "copyright 2016 Open Interconnect Consortium, Inc. All rights reserved.",  
 "title": "Binary Switch",  
 "definitions": {  
 "oic.r.switch.binary": {  
 "type": "object",  
 "properties": {  
 "value": {  
 "type": "boolean",  
 "description": "description value"   
 },  
 "value2": {  
 "description": "description value2",  
 "type": "boolean"   
 },  
 "BLAH1": {  
 "description": "BLAH1 description",  
 "readOnly": true,  
 "type": "boolean"   
 },  
 "BLAH2": {  
 "readOnly": true,  
 "description": "BLAH2 description",  
 "type": "boolean"   
 },  
 "BLAH3": {  
 "description": "BLAH3 description",  
 "type": "boolean",  
 "readOnly": true   
 },  
 "BLAHF1": {  
 "description": "Status of the switch",  
 "readOnly": false,  
 "type": "string"   
 },  
 "BLAHF2": {  
 "readOnly": false,  
 "description": "Status of the switch",  
 "type": "number"   
 },  
 "BLAHF3": {  
 "description": "Status of the switch",  
 "type": "integer",  
 "readOnly": false   
 }   
 }  
 }  
 },  
 "type": "object",  
 "allOf": [  
 {"$ref": "#/definitions/oic.r.switch.binary"}  
 ],  
 "required": [ "value" ]  
 }

example: |

{  
 "id": "unique\_example\_id",  
 "value": true  
 }

responses :

200:

body:

application/json:

schema: |

{  
 "id": "http://openinterconnect.org/schemas/oic.r.switch.binary#",  
 "$schema": "http://json-schema.org/draft-04/schema#",  
 "description" : "copyright 2016 Open Interconnect Consortium, Inc. All rights reserved.",  
 "title": "Binary Switch",  
 "definitions": {  
 "oic.r.switch.binary": {  
 "type": "object",  
 "properties": {  
 "value": {  
 "type": "boolean",  
 "description": "description value"   
 },  
 "value2": {  
 "description": "description value2",  
 "type": "boolean"   
 },  
 "BLAH1": {  
 "description": "BLAH1 description",  
 "readOnly": true,  
 "type": "boolean"   
 },  
 "BLAH2": {  
 "readOnly": true,  
 "description": "BLAH2 description",  
 "type": "boolean"   
 },  
 "BLAH3": {  
 "description": "BLAH3 description",  
 "type": "boolean",  
 "readOnly": true   
 },  
 "BLAHF1": {  
 "description": "Status of the switch",  
 "readOnly": false,  
 "type": "string"   
 },  
 "BLAHF2": {  
 "readOnly": false,  
 "description": "Status of the switch",  
 "type": "number"   
 },  
 "BLAHF3": {  
 "description": "Status of the switch",  
 "type": "integer",  
 "readOnly": false   
 }   
 }  
 }  
 },  
 "type": "object",  
 "allOf": [  
 {"$ref": "#/definitions/oic.r.switch.binary"}  
 ],  
 "required": [ "value" ]  
 }

example: |

{  
 "id": "unique\_example\_id",  
 "value": true  
 }

### Property Definition

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

### CRUDN behavior

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

### Referenced JSON schemas

#### ../test/in/test\_1/oic.core.json

##### Property Definition

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Property name | Value type | Mandatory | Access mode | Description |
| rt | array: see schema |  | Read Only | Resource Type |
| n | string |  | Read Only | Friendly name of the resource |
| id | string |  | Read Only | Instance ID of this specific resource |
| if | array: see schema |  | Read Only | The interface set supported by this resource |

##### Schema Definition

{  
 "id": "http://openinterconnect.org/iotdatamodels/schemas/oic.core.json#",  
 "$schema": "http://json-schema.org/draft-04/schema#",  
 "description" : "Copyright (c) 2016 Open Connectivity Foundation, Inc. All rights reserved.",  
 "title": "Core",  
 "$ref": "#/definitions/oic.core",  
 "definitions": {  
 "oic.core": {  
 "type": "object",  
 "properties": {  
 "rt": {  
 "type": "array",  
 "items" : [  
 {  
 "type" : "string",  
 "maxLength": 64  
 }  
 ],  
 "minItems" : 1,  
 "readOnly": true,  
 "description": "Resource Type"  
 },  
 "if": {  
 "type" : "array",  
 "readOnly": true,  
 "description": "The interface set supported by this resource",  
 "items": {  
 "type": "string",  
 "enum" : ["oic.if.baseline", "oic.if.ll", "oic.if.b", "oic.if.lb", "oic.if.rw", "oic.if.r", "oic.if.a", "oic.if.s" ]  
 }  
 },  
 "n": {  
 "type": "string",  
 "readOnly": true,  
 "description": "Friendly name of the resource"  
 },  
 "id": {  
 "type": "string",  
 "readOnly": true,  
 "description": "Instance ID of this specific resource"  
 }  
 }  
 }  
 }  
}

#### ../test/in/test\_1/oic.baseResource.json

##### Property Definition

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Property name | Value type | Mandatory | Access mode | Description |
| range | array: see schema |  | Read Write | The valid range for the value Property |
| value | multiple types: see schema |  | Read Write | The value sensed or actuated by this Resource |

##### Schema Definition

{  
 "id": "http://openinterconnect.org/iotdatamodels/schemas/oic.baseResource.json#",  
 "$schema": "http://json-schema.org/draft-04/schema#",  
 "description" : "Copyright (c) 2016 Open Connectivity Foundation, Inc. All rights reserved.",  
 "title": "Base Resource",  
 "definitions": {  
 "oic.r.baseresource": {  
 "type": "object",  
 "properties": {  
 "value": {  
 "anyOf": [  
 {"type": "array"},  
 {"type": "string"},  
 {"type": "boolean"},  
 {"type": "integer"},  
 {"type": "number"},  
 {"type": "object"}  
 ],  
 "description": "The value sensed or actuated by this Resource"  
 },  
 "range": {  
 "type": "array",  
 "description": "The valid range for the value Property",  
 "minItems": 2,  
 "maxItems": 2,  
 "items": {  
 "anyOf": [  
 {"type": "number"},  
 {"type": "integer"}  
 ]  
 }  
 }  
 }  
 }  
 },  
 "type": "object",  
 "allOf": [  
 {"$ref": "oic.core.json#/definitions/oic.core"},  
 {"$ref": "#/definitions/oic.r.baseresource"}  
 ]  
}