

OCF 2.3 – New Resources for Zigbee Equivalency – DMWG CR 2676

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1.1 Battery

1.1.1 Introduction

This resource describes the attributes associated with a battery. The charge is an integer showing the current battery charge level as a percentage in the range 0 (fully discharged) to 100 (fully charged). The capacity represents the total capacity of battery in Amp Hours (Ah). The charging status and discharging status are represented by boolean values set to "True" indicating enabled and "False" indicating disabled. Low battery status is represented by a boolean value set to "True" indicating low charge level and "False" indicating otherwise, based upon the battery threshold represented as a percentage.

1.1.2 Example URI

/BatteryResURI

1.1.3 Resource type

The resource type (rt) is defined as: ['oic.r.energy.battery'].

1.1.4 Swagger 2.0 definition

```
{
  "swagger": "2.0",
  "info": {
    "title": "Battery",
    "version": "v1.2.0-20170814",
    "license": {
      "name": "copyright 2016-2018 Open Connectivity Foundation, Inc. All rights reserved.",
      "x-description": "Redistribution and use in source and binary forms, with or without
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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.\n"
    }
  },
  "schemes": ["http"],
  "consumes": ["application/json"],
  "produces": ["application/json"],
  "paths": {
    "/BatteryResURI" : {
      "get": {
        "description": "This resource describes the attributes associated with a battery. The
charge is an integer showing the current battery charge level as a percentage in the range 0 (fully
discharged) to 100 (fully charged). The capacity represents the total capacity of battery in Amp
Hours (Ah). The charging status and discharging status are represented by boolean values set to
\\"True\\" indicating enabled and \\"False\\" indicating disabled. Low battery status is represented by
a boolean value set to \\"True\\" indicating low charge level and \\"False\\" indicating otherwise,
based upon the battery threshold represented as a percentage.\n",
        "parameters": [
          { "$ref": "#/parameters/interface" }
        ],
        "responses": {
          "200": {
```



```
"description" : "Success path response for the Resource",
"x-example":
  {
    "rt": ["oic.r.energy.battery"],
    "id": "unique_example_id",
    "charge": 50,
    "capacity": 3000,
    "charging": true,
    "discharging": false,
    "lowbattery": false,
    "batterythreshold": 20,
    "defect": false
  },
  "schema": { "$ref": "#/definitions/Battery" }
}
},
"post": {
  "description": "Sets current battery values\n",
  "parameters": [
    { "$ref": "#/parameters/interface" },
    {
      "name": "body",
      "in": "body",
      "required": true,
      "schema": { "$ref": "#/definitions/BatteryUpdate" },
      "x-example":
        {
          "id": "unique_example_id",
          "batterythreshold": 20
        }
    }
  ],
  "responses": {
    "200": {
      "description": "",
      "x-example":
        {
          "id": "unique_example_id",
          "batterythreshold": 20
        },
      "schema": { "$ref": "#/definitions/BatteryUpdate" }
    }
  }
}
},
"parameters": {
  "interface": {
    "in": "query",
    "name": "if",
    "type": "string",
    "enum": ["oic.if.rw", "oic.if.baseline"]
  }
}
},
"definitions": {
  "Battery": {
    "properties": {
      "rt": {
        "description": "Resource Type",
        "items": {
          "maxLength": 64,
          "type": "string",
          "enum": ["oic.r.energy.battery", "oic.r.value.conditional"]
        }
      },

```

```
"minItems": 1,
  "readOnly": true,
  "type": "array"
},
"discharging" : {
  "description": "The status of discharging.",
  "readOnly": true,
  "type": "boolean"
},
"lowbattery" : {
  "description": "The status of the low battery warning based upon the defined threshold.",
  "readOnly": true,
  "type": "boolean"
},
"capacity" : {
  "description": "The total capacity in Amp-hours (Ah).",
  "readOnly": true,
  "type": "number"
},
"precision" : {
  "description": "Accuracy granularity of the exposed values",
  "readOnly": true,
  "type": "number"
},
"id" : {
  "description": "Instance ID of this specific resource",
  "maxLength": 64,
  "readOnly": true,
  "type": "string"
},
"batterythreshold" : {
  "description": "The threshold percentage for the low battery warning.",
  "maximum": 100,
  "minimum": 0,
  "type": "integer"
},
"charge" : {
  "description": "The current charge percentage.",
  "maximum": 100,
  "minimum": 0,
  "readOnly": true,
  "type": "integer"
},
"n" : {
  "description": "Friendly name of the resource",
  "maxLength": 64,
  "readOnly": true,
  "type": "string"
},
"charging" : {
  "description": "The status of charging.",
  "readOnly": true,
  "type": "boolean"
},
"defect" : {
  "description": "Battery defect detected. True = defect, False = no defect",
  "readOnly": true,
  "type": "boolean"
},
"if" : {
  "description": "The interface set supported by this resource",
  "items": {
    "enum": [
      "oic.if.baseline",
      "oic.if.rw"
    ]
  }
}
```

```

    ],
    "type": "string"
  },
  "minItems": 1,
  "readOnly": true,
  "type": "array"
}
},
"type" : "object",
"required": ["charge"]
},
"BatteryUpdate" : {
  "properties": {
    "n" : {
      "description": "Friendly name of the resource",
      "maxLength": 64,
      "readOnly": true,
      "type": "string"
    },
    "batterythreshold" : {
      "description": "The threshold percentage for the low battery warning.",
      "maximum": 100,
      "minimum": 0,
      "type": "integer"
    }
  }
},
"type" : "object",
"required": ["batterythreshold"]
}
}
}

```

1.1.5 Property definition

Table 1 The property definitions of the resource with type 'rt' = BatteryResURI

Property name	Value type	Mandatory	Access mode	Description
n	string	No	Read Only	Friendly name of the resource
batterythreshold	integer	Yes	Read Write	The threshold percentage for the low battery warning.
lowbattery	boolean	No	Read Only	The status of the low battery warning based upon the defined threshold.
id	string	No	Read Only	Instance ID of this specific resource
charging	boolean	No	Read Only	The status of charging.

capacity	number	No	Read Only	The total capacity in Amp-hours (Ah).
if	array: schema see	No	Read Only	The interface set supported by this resource
n	string	No	Read Only	Friendly name of the resource
precision	number	No	Read Only	Accuracy granularity of the exposed values
batterythreshold	integer	No	Read Write	The threshold percentage for the low battery warning.
discharging	boolean	No	Read Only	The status of discharging.
charge	integer	Yes	Read Only	The current charge percentage.
defect	boolean	No	Read Only	Battery defect detected. True = defect, False = no defect
rt	array: schema see	No	Read Only	Resource Type

1.1.6 CRUDN behaviour

Table 2 The CRUDN operations of the resource with type 'rt' = BatteryResURI

Resource	Create	Read	Update	Delete	Notify
/BatteryResURI		get	post		observe

1.2 Power Source

1.2.1 Introduction

This resource list the available power sources for the device.

The list is read only and is informative only.

If there is more than 1 power sources active, use multiple resources to indicate the active power sources.

If the power source is unknown use the value "unknown".

1.2.2 Example URI

/PowerResourcesExampleResourceURI

1.2.3 Resource type

The resource type (rt) is defined as: ['oic.r.powersource'].

1.2.4 Swagger 2.0 definition

```
{
  "swagger": "2.0",
  "info": {
    "title": "Power Source",
    "version": "0.1",
    "license": {
      "name": "copyright 2016-2018 Open Connectivity Foundation, Inc. All rights reserved.",
      "x-description": "Redistribution and use in source and binary forms, with or without
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Redistributions of source code must retain the above copyright notice, this list of conditions and
the following disclaimer.\n      2. Redistributions in binary form must reproduce the above
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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.\n"
    }
  },
  "schemes": ["http"],
  "consumes": ["application/json"],
  "produces": ["application/json"],
  "paths": {
    "/PowerResourcesExampleResourceURI" : {
      "get": {
        "description": "This resource list the available power sources for the device.\nThe list is
read only and is informative only.\nIf there is more than 1 power sources active, use multiple
resources \nto indicate the active power sources.\nIf the power source is unknown use the value
\"unknown\".\n",
        "parameters": [
          { "$ref": "#/parameters/interface" }
        ],
        "responses": {
          "200": {
            "description": "Success path response for this Resource",
            "x-example": {
              "rt": ["oic.r.powersource"],
              "id": "unique_example_id",
              "powerSources": [
                "Internal Battery",
                "AC (Mains) Power"],
              "sourcefault": false
            },
            "schema": { "$ref": "#/definitions/powerSourceSchema" }
          }
        }
      }
    }
  },
  "parameters": {
```



```
"interface" : {
  "in" : "query",
  "name" : "if",
  "type" : "string",
  "enum" : ["oic.if.r", "oic.if.baseline"]
},
"definitions": {
  "powerSourceSchema" : {
    "properties": {
      "rt" : {
        "description": "Resource Type",
        "items": {
          "maxLength": 64,
          "type": "string",
          "enum": ["oic.r.powersource"]
        },
        "minItems": 1,
        "readOnly": true,
        "type": "array"
      },
      "powerSources" : {
        "items": {
          "enum": [
            "unknown",
            "DC power",
            "Internal Battery",
            "External Battery",
            "Power over Ethernet",
            "USB",
            "AC (Mains) Power",
            "Solar"
          ],
          "minItems": 1,
          "type": "string",
          "uniqueItems": true
        },
        "type": "array"
      },
      "sourcefault": {
        "description": "Fault detected in currently active power source. True = fault detected",
        "readOnly": true,
        "type": "boolean"
      },
      "n" : {
        "description": "Friendly name of the resource",
        "maxLength": 64,
        "readOnly": true,
        "type": "string"
      },
      "id" : {
        "description": "Instance ID of this specific resource",
        "maxLength": 64,
        "readOnly": true,
        "type": "string"
      },
      "if" : {
        "description": "The interface set supported by this resource",
        "items": {
          "enum": [
            "oic.if.baseline",
            "oic.if.r"
          ],
          "type": "string"
        }
      }
    }
  }
}
```



```

    "minItems": 1,
    "readOnly": true,
    "type": "array"
  },
  "type": "object",
  "required": ["powerSources"]
}
}
}

```

1.2.5 Property definition

Table 3 The property definitions of the resource with type 'rt' = PowerResourcesExampleResourceURI

Property name	Value type	Mandatory	Access mode	Description
id	string	No	Read Only	Instance ID of this specific resource
if	array: schema see	No	Read Only	The interface set supported by this resource
rt	array: schema see	No	Read Only	Resource Type
powerSources	array: schema see	Yes	Read Write	
n	string	No	Read Only	Friendly name of the resource
sourcefault	boolean	No	Read Only	Fault detected in currently active power source. True = fault detected

1.2.6 CRUDN behaviour

Table 4 The CRUDN operations of the resource with type 'rt' = PowerResourcesExampleResourceURI

Resource	Create	Read	Update	Delete	Notify
/PowerResourcesExampleResourceURI		get			observe

1.3 IAS Zone Info

1.3.1 Introduction

This resource describes meta-information for an Intruder Alert System (IAS) Zone.

Zone Type provides the information about the type of device/alarm.

Zone Status provides an array which has items representing various status information(e.g., mode, alarm (Up to two), supervision of IAS network, etc.

A device implementing this resource can be enrolled to IAS Control and Indicator Equipment

(CIE).

IAS CIE can allocate ID for the device and update this resource of the device.

This resource may provide multiple sensitivity levels (>2).

NumberOfZoneSensitivityLevelSupported provides the number of the levels.

A specific level can be selected as currentzonesensitivityLevel.

1.3.2 Example URI

/IASZoneInfoResURI

1.3.3 Resource type

The resource type (rt) is defined as: ['oic.r.iaszoneinfo'].

1.3.4 Swagger 2.0 definition

```
{
  "swagger": "2.0",
  "info": {
    "title": "IAS Zone Info",
    "version": "OCF2.x",
    "license": {
      "name": "copyright 2018 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:\n
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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.\n"
    }
  },
  "schemes": ["http"],
  "consumes": ["application/json"],
  "produces": ["application/json"],
  "paths": {
    "/IASZoneInfoResURI" : {
      "get": {
        "description": "This resource describes meta-information for an Intruder Alert System (IAS)
Zone.\nZone Type provides the information about the type of device/alarm.\nZone Status provides an
array which has items representing various status information(e.g., mode, alarm (Up to two),
supervision of IAS network, etc.\nA device implementing this resource can be enrolled to IAS
Control and Indicator Equipment (CIE).\nIAS CIE can allocate ID for the device and update this
resource of the device.\nThis resource may provide multiple sensitivity levels
(>2).\nNumberOfZoneSensitivityLevelSupported provides the number of the levels.\nA specific level
can be selected as currentzonesensitivityLevel.\n",
        "parameters": [
          {"$ref": "#/parameters/interface-all"}
        ],
        "responses": {
          "200": {
            "description": "",
            "x-example": {
              "rt": ["oic.r.iaszoneinfo"],
              "zonetype": "motionsensor",
            }
          }
        }
      }
    }
  }
}
```

```
        "zonestatus": {
          "alarms": ["presence"],
          "tamper": false,
          "zonestatusreports": "statuschangeonly",
          "fault": false,
          "test": false
        },
        "iascieaddress": "ACDE9F56A3FE6B98",
        "zonestate": true,
        "zoneid": 64,
        "numzonesensitivitylevel": 3,
        "currentzonesensitivitylevel": 2
      },
      "schema": { "$ref": "#/definitions/IASZoneInfo" }
    }
  },
  "post": {
    "description": "Sets the current sensitivity level of the IASZone.\n",
    "parameters": [
      { "$ref": "#/parameters/interface-rw" },
      {
        "name": "body",
        "in": "body",
        "required": true,
        "schema": { "$ref": "#/definitions/IASZoneInfo-Update" },
        "x-example": {
          "currentzonesensitivitylevel": 3
        }
      }
    ],
    "responses": {
      "200": {
        "description": "Success path response code\n"
      }
    }
  }
},
"parameters": {
  "interface-all" : {
    "in" : "query",
    "name" : "if",
    "type" : "string",
    "enum" : ["oic.if.rw", "oic.if.baseline"]
  },
  "interface-rw" : {
    "in" : "query",
    "name" : "if",
    "type" : "string",
    "enum" : ["oic.if.rw"]
  }
},
"definitions": {
  "IASZoneInfo" : {
    "properties": {
      "rt" : {
        "description": "Resource Type",
        "items": {
          "type": "string",
          "enum": ["oic.r.iaszoneinfo"]
        },
        "minItems": 1,
        "readOnly": true,

```

```

    "type": "array"
  },
  "zonestate" : {
    "description": "The IAS zone state. True = enrolled, False = not enrolled.",
    "readOnly": true,
    "type": "boolean"
  },
  "zonestatus" : {
    "description": "Set of alarm indicators.",
    "properties": {
      "alarms": {
        "type": "array",
        "description": "Array of alarms. The alarms exposed are dependent on the zonetype.",
        "readOnly": true,
        "minItems": 1,
        "maxItems": 2,
        "items": {
          "type": "string",
          "enum":
["system", "intrusion", "presence", "1stportalopenclose", "2ndportalopenclose", "fire", "wateroverflow", "
CO", "cooking", "fall", "emergencybutton", "movement", "vibration", "panic", "emergency", "glassbreak"]
        }
      },
      "zonestatusreports": {
        "description": "Controls the generation of status indications",
        "type": "string",
        "enum": ["none", "statuschangeonly", "alarmclearonly", "statuschangeandalarmclear"]
      },
      "tamper": {
        "description": "Tamper status. True = tampered, False = not tampered.",
        "readOnly": true,
        "type": "boolean"
      },
      "test": {
        "description": "Test mode indicator. True = sensor is in test mode, False = sensor is
in operational mode",
        "readOnly": true,
        "type": "boolean"
      },
      "fault": {
        "description": "Fault indicator. True = fault detected, False = no fault detected",
        "readOnly": true,
        "type": "boolean"
      }
    },
    "readOnly": true,
    "type": "object"
  },
  "n" : {
    "description": "Friendly name of the resource",
    "maxLength": 64,
    "type": "string"
  },
  "numzonesensitivitylevel" : {
    "description": "Number of supported zone sensitivity levels",
    "minimum": 2,
    "readOnly": true,
    "type": "integer"
  },
  "zoneid" : {
    "description": "ID allocated by the IAS CIE",
    "readOnly": true,
    "type": "integer"
  },
  "iascieaddress" : {

```

```

      "description": "EUI-64 Address of the enrolled IAS Control and Indicating Equipment
(CIE)",
      "readOnly": true,
      "type": "string"
    },
    "zonetype" : {
      "description": "IAS zone type. See OCF Device Specification for set of valid values.",
      "readOnly": true,
      "type": "string"
    },
    "currentzonesensitivitylevel" : {
      "description": "Current zone sensitivity level",
      "minimum": 0,
      "type": "integer"
    },
    "id" : {
      "description": "Instance ID of this specific resource",
      "maxLength": 64,
      "readOnly": true,
      "type": "string"
    },
    "if" : {
      "description": "The interface set supported by this resource",
      "items": {
        "enum": [
          "oic.if.baseline",
          "oic.if.rw"
        ],
        "type": "string"
      },
      "minItems": 2,
      "maxItems": 2,
      "readOnly": true,
      "type": "array"
    }
  },
  "required": ["zonetype", "zonestate", "zonestatus", "zoneid", "iascieaddress"]
},
"IASZoneInfo-Update" : {
  "properties": {
    "currentzonesensitivitylevel" : {
      "description": "Current zone sensitivity level, Client can only set 1 or higher.",
      "minimum": 1,
      "type": "integer"
    }
  },
  "required": ["currentzonesensitivitylevel"]
}
}
}
}

```

1.3.5 Property definition

Table 5 The property definitions of the resource with type 'rt' = IASZoneInfoResURI

Property name	Value type	Mandatory	Access mode	Description
currentzonesensitivitylevel	integer	Yes	Read Write	Current zone sensitivity level, Client

				can only set 1 or higher.
if	array: see schema	No	Read Only	The interface set supported by this resource
n	string	No	Read Write	Friendly name of the resource
zonetype	string	Yes	Read Only	IAS zone type. See OCF Device Specification for set of valid values.
zoneid	integer	Yes	Read Only	ID allocated by the IAS CIE
currentzonesensitivitylevel	integer	No	Read Write	Current zone sensitivity level
zonestatus	object: see schema	Yes	Read Only	Set of alarm indicators.
id	string	No	Read Only	Instance ID of this specific resource
rt	array: see schema	No	Read Only	Resource Type
numzonesensitivitylevel	integer	No	Read Only	Number of supported zone sensitivity levels
iascieaddress	string	Yes	Read Only	EUI-64 Address of the enrolled IAS Control and Indicating Equipment (CIE)
zonestate	boolean	Yes	Read Only	The IAS zone state. True = enrolled, False = not enrolled.

1.3.6 CRUDN behaviour

Table 6 The CRUDN operations of the resource with type 'rt' = IASZoneInfoResURI

Resource	Create	Read	Update	Delete	Notify
/IASZoneInfoResURI		get	post		observe

1.4 IAS Zone Collection

1.4.1 Introduction

This resource models a collection that fully describes an Intruder Alert System (IAS) Zone. It is composed of an IASZoneInfo Resource, a Battery Resource and a Power Source Resource. A device implementing this resource can be enrolled to IAS Control and Indicator Equipment (CIE).

IAS CIE can allocate ID for the device and update this resource of the device.

This resource may provide multiple sensitivity levels (>2).

NumberOfZoneSensitivityLevelSupported provides the number of the levels.

A specific level can be selected as currentzonesensitivityLevel.

1.4.2 Example URI

/IASZoneResURI

1.4.3 Resource type

1.4.4 Swagger 2.0 definition

```
{
  "swagger": "2.0",
  "info": {
    "title": "IAS Zone Collection",
    "version": "OCF2.x",
    "license": {
      "name": "copyright 2018 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:\n      1.
Redistributions of source code must retain the above copyright notice, this list of conditions and
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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.\n"
    }
  },
  "schemes": ["http"],
  "consumes": ["application/json"],
  "produces": ["application/json"],
  "paths": {
    "/IASZoneResURI?if=oic.if.baseline" : {
      "get": {
        "description": "This resource models a collection that fully describes an Intruder Alert
System (IAS) Zone.\nIt is composed of an IASZoneInfo Resource, a Battery Resource and a Power
Source Resource.\nA device implementing this resource can be enrolled to IAS Control and Indicator
Equipment (CIE).\nIAS CIE can allocate ID for the device and update this resource of the
device.\nThis resource may provide multiple sensitivity levels
```

(>2).\nNumberOfZoneSensitivityLevelSupported provides the number of the levels.\nA specific level can be selected as currentzonesensitivityLevel.\n",

```

"parameters": [
  {"$ref": "#/parameters/interface-baseline"}
],
"responses": {
  "200": {
    "description": "",
    "schema": {"$ref": "#/definitions/baseline"},
    "x-example":
    {
      "rt": ["oic.r.iaszone"],
      "if": ["oic.if.ll", "oic.if.b", "oic.if.baseline"],
      "links": [
        {
          "href": "/myIASZoneInfoResURI",
          "rt": ["oic.r.iaszoneinfo"],
          "if": ["oic.if.rw", "oic.if.baseline"]
        },
        {
          "href": "/myBatteryResURI",
          "rt": ["oic.r.energy.battery"],
          "if": ["oic.if.rw", "oic.if.baseline"]
        },
        {
          "href": "/myPowersourceResURI",
          "rt": ["oic.r.powersource"],
          "if": ["oic.if.r", "oic.if.baseline"]
        }
      ]
    }
  }
}
},
"/IASZoneResURI?if=oic.if.ll" : {
  "get": {

```

"description": "This resource models a collection that fully describes an Intruder Alert System (IAS) Zone.\nIt is composed of an IASZoneInfo Resoyrce, a Battery Resource and a Power Source Resource.\nA device implementing this resource can be enrolled to IAS Control and Indicator Equipment (CIE).\nIAS CIE can allocate ID for the device and update this resource of the device.\nThis resource may provide multiple sensitivity levels

(>2).\nNumberOfZoneSensitivityLevelSupported provides the number of the levels.\nA specific level can be selected as currentzonesensitivityLevel.\n",

```

"parameters": [
  {"$ref": "#/parameters/interface-ll"}
],
"responses": {
  "200": {
    "description": "",
    "schema": {"$ref": "#/definitions/links"},
    "x-example":
    [
      {
        "href": "/myIASZoneInfoResURI",
        "rt": ["oic.r.iaszoneinfo"],
        "if": ["oic.if.rw", "oic.if.baseline"]
      },
      {
        "href": "/myBatteryResURI",
        "rt": ["oic.r.energy.battery"],
        "if": ["oic.if.rw", "oic.if.baseline"]
      },
      {
        "href": "/myPowersourceResURI",

```



```

        "rt": ["oic.r.powersource"],
        "if": ["oic.if.r", "oic.if.baseline"]
    }
}
}
},
"/IASZoneResURI?if=oic.if.b" : {
    "get": {
        "description": "This resource models a collection that fully describes an Intruder Alert
System (IAS) Zone.\nIt is composed of an IASZoneInfo Resource, a Battery Resource and a Power
Source Resource.\nA device implementing this resource can be enrolled to IAS Control and Indicator
Equipment (CIE).\nIAS CIE can allocate ID for the device and update this resource of the
device.\nThis resource may provide multiple sensitivity levels
(>2).\nNumberOfZoneSensitivityLevelSupported provides the number of the levels.\nA specific level
can be selected as currentzonesensitivitylevel.\n",
        "parameters": [
            { "$ref": "#/parameters/interface-b" }
        ],
        "responses": {
            "200": {
                "description": "",
                "schema": { "$ref": "#/definitions/IASZoneCollectionBatch-Retrieve" },
                "x-example":
                [
                    {
                        "href": "/myIASZoneInfoResURI",
                        "rep": {
                            "zonetype": "motionsensor",
                            "zonestatus": {
                                "alarms": ["presence"],
                                "tamper": false,
                                "zonestatusreports": "statuschangeonly",
                                "fault": false,
                                "test": false
                            },
                            "iascieaddress": "ACDE9F56A3FE6B98",
                            "zonestate": true,
                            "zoneid": 64,
                            "numzonesensitivitylevel": 3,
                            "currentzonesensitivitylevel": 2
                        }
                    },
                    {
                        "href": "/myBatteryResURI",
                        "rep": {
                            "charge": 70,
                            "defect": false
                        }
                    }
                ],
                {
                    "href": "/myPowersourceResURI",
                    "rep": {
                        "powerSources": ["AC (Mains) Power"],
                        "sourcefault": false
                    }
                }
            ]
        }
    },
    "post": {
        "description": "Sets the current sensitivity level of the IASZone.\n",
        "parameters": [

```



```
{ "$ref": "#/parameters/interface-b"},
{
  "name": "body",
  "in": "body",
  "required": true,
  "schema": { "$ref": "#/definitions/IASZoneCollectionBatch-Update" },
  "x-example":
  [
    {
      "href": "/myIASZoneInfoResURI",
      "rep": {
        "currentzonesensitivitylevel": 3
      }
    }
  ]
},
],
"responses": {
  "200": {
    "description": "Success path response code\n"
  }
}
},
},
"parameters": {
  "interface-all": {
    "in": "query",
    "name": "if",
    "type": "string",
    "enum": ["oic.if.ll", "oic.if.b", "oic.if.baseline"]
  },
  "interface-ll": {
    "in": "query",
    "name": "if",
    "type": "string",
    "enum": ["oic.if.ll"]
  },
  "interface-b": {
    "in": "query",
    "name": "if",
    "type": "string",
    "enum": ["oic.if.b"]
  },
  "interface-baseline": {
    "in": "query",
    "name": "if",
    "type": "string",
    "enum": ["oic.if.baseline"]
  }
},
"definitions": {
  "baseline": {
    "properties": {
      "rt": {
        "description": "Resource Type",
        "items": {
          "type": "string",
          "enum": ["oic.r.iaszone"]
        },
        "minItems": 1,
        "readOnly": true,
        "type": "array"
      },
      "rts": {
```

```
"description": "Allowed Resources",
"type": "array",
"minItems": 3,
"maxItems": 3,
"items": {
  "type": "string",
  "enum": ["oic.r.iaszoneinfo", "oic.r.energy.battery", "oic.r.powersource"]
},
},
"rts-m" : {
  "description": "Mandatory Resources",
  "type": "array",
  "minItems": 3,
  "maxItems": 3,
  "items": {
    "type": "string",
    "enum": ["oic.r.iaszoneinfo", "oic.r.energy.battery", "oic.r.powersource"]
  }
},
"n" : {
  "description": "Friendly name of the resource",
  "maxLength": 64,
  "readOnly": true,
  "type": "string"
},
"id" : {
  "description": "Instance ID of this specific resource",
  "maxLength": 64,
  "readOnly": true,
  "type": "string"
},
"links" : {
  "$ref": "#/definitions/links"
},
"if" : {
  "description": "The interface set supported by this resource",
  "items": {
    "enum": [
      "oic.if.ll",
      "oic.if.b",
      "oic.if.baseline"
    ],
    "type": "string"
  },
  "minItems": 1,
  "readOnly": true,
  "type": "array"
},
},
"type" : "object",
"required": ["links"]
},
"links": {
  "type": "array",
  "items": {
    "$ref": "#/definitions/oic.oic-link"
  }
},
"oic.oic-link": {
  "properties": {
    "if": {
      "description": "The interface set supported by this resource",
      "items": {
        "enum": [
          "oic.if.baseline",

```

```
        "oic.if.rw",
        "oic.if.r"
    ],
    "type": "string"
  },
  "minItems": 1,
  "uniqueItems": true,
  "readOnly": true,
  "type": "array"
},
"rt": {
  "description": "Resource Type of the Resource",
  "items": {
    "enum": [
      "oic.r.iaszoneinfo",
      "oic.r.energy.battery",
      "oic.r.powersource"
    ],
    "type": "string"
  },
  "minItems": 1,
  "maxItems": 1,
  "uniqueItems": true,
  "readOnly": true,
  "type": "array"
},
"anchor": {
  "$ref":
"https://openconnectivityfoundation.github.io/core/schemas/oic.links.properties.core-
schema.json#/definitions/anchor"
},
"di": {
  "$ref":
"https://openconnectivityfoundation.github.io/core/schemas/oic.links.properties.core-
schema.json#/definitions/di"
},
"eps": {
  "$ref":
"https://openconnectivityfoundation.github.io/core/schemas/oic.links.properties.core-
schema.json#/definitions/eps"
},
"href": {
  "$ref":
"https://openconnectivityfoundation.github.io/core/schemas/oic.links.properties.core-
schema.json#/definitions/href"
},
"ins": {
  "$ref":
"https://openconnectivityfoundation.github.io/core/schemas/oic.links.properties.core-
schema.json#/definitions/ins"
},
"p": {
  "$ref":
"https://openconnectivityfoundation.github.io/core/schemas/oic.links.properties.core-
schema.json#/definitions/p"
},
"rel": {
  "$ref":
"https://openconnectivityfoundation.github.io/core/schemas/oic.links.properties.core-
schema.json#/definitions/rel_array"
},
"title": {
  "$ref":
"https://openconnectivityfoundation.github.io/core/schemas/oic.links.properties.core-
schema.json#/definitions/title"
```

```
    },
    "type": {
      "$ref":
"https://openconnectivityfoundation.github.io/core/schemas/oic.links.properties.core-
schema.json#/definitions/type"
    }
  },
  "required": [
    "href",
    "rt",
    "if"
  ],
  "type": "object"
},
"IASZoneCollectionBatch-Retrieve": {
  "title": "Collection Batch Retrieve Format",
  "minItems": 3,
  "maxItems": 3,
  "type": "array",
  "uniqueItems": true,
  "items": {
    "additionalProperties": true,
    "type": "object",
    "properties": {
      "href": {
        "$ref":
"https://openconnectivityfoundation.github.io/core/schemas/oic.links.properties.core-
schema.json#/definitions/href"
      },
      "rep": {
        "anyOf": [
          {
            "$ref":
"https://openconnectivityfoundation.github.io/IoTDataModels/IASZoneInfoResURI.swagger.json#/definit
ions/IASZoneInfo"
          },
          {
            "$ref":
"https://openconnectivityfoundation.github.io/IoTDataModels/BatteryResURI.swagger.json#/definitions
/Battery"
          },
          {
            "$ref":
"https://openconnectivityfoundation.github.io/IoTDataModels/PowerSourcesResourceURI.swagger.json#/d
efinitions/powerSourceSchema"
          }
        ]
      }
    }
  },
  "required": ["href","rep"]
},
"IASZoneCollectionBatch-Update" : {
  "title": "Collection Batch Update Format",
  "minItems": 1,
  "type": "array",
  "items": {
    "additionalProperties": true,
    "type": "object",
    "properties": {
      "href": {
        "$ref":
"https://openconnectivityfoundation.github.io/core/schemas/oic.links.properties.core-
schema.json#/definitions/href"
      },

```


rt	array: schema	see	No	Read Only	Resource Type
n	string		No	Read Only	Friendly name of the resource
rts	array: schema	see	No	Read Write	Allowed Resources
if	array: schema	see	No	Read Only	The interface set supported by this resource
links	multiple types: see schema		Yes	Read Write	
rts-m	array: schema	see	No	Read Write	Mandatory Resources
href	multiple types: see schema		Yes	Read Write	
rep	multiple types: see schema		Yes	Read Write	
href	multiple types: see schema			Read Write	
rep	object: schema	see		Read Write	

1.4.6 CRUDN behaviour

Table 8 The CRUDN operations of the resource with type 'rt' = IASZoneResURI?if=oic.if.b

Resource	Create	Read	Update	Delete	Notify
/IASZoneResURI		get	post		observe

1.5 Window Covering

1.5.1 Introduction

This resource describes the information of a window covering, i.e., type, configuration status, and mode.

Velocity associated with lifting the window covering can be changed by updating Lift_Velocity(cm/sec).

Ramp up/down times to reaching the velocity setting can be changed by updating Lift_Acceleration Time/Lift_Deceleration Time (0.1sec).

1.5.2 Example URI

/WindowCoveringResURI

1.5.3 Resource type

The resource type (rt) is defined as: ['oic.r.windowcovering'].

1.5.4 Swagger 2.0 definition

```
{
  "swagger": "2.0",
  "info": {
```

```
"title": "Window Covering",
"version": "OCF2.x",
"license": {
  "name": "copyright 2018 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:\n      1.
Redistributions of source code must retain the above copyright notice, this list of conditions and
the following disclaimer.\n      2. Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following disclaimer in the documentation and/or
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EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS
OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)\n      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.\n"
}
},
"schemes": ["http"],
"consumes": ["application/json"],
"produces": ["application/json"],
"paths": {
  "/WindowCoveringResURI": {
    "get": {
      "description": "This resource describes the information of a window covering, i.e., type,
configuration status, and mode.\nVelocity associated with lifting the window covering can be
changed by updating Lift_Velocity(cm/sec).\nRamp up/down times to reaching the velocity setting can
be changed by updating Lift_Acceleration Time/Lift_Deceleration Time (0.1sec).\n",
      "parameters": [
        {"$ref": "#/parameters/interface-all"}
      ],
      "responses": {
        "200": {
          "description": "",
          "x-example": {
            "rt": ["oic.r.windowcovering"],
            "windowcoveringtype": "shutter",
            "configstatus": {
              "operational": true,
              "online": true,
              "rotationdirection": "normal",
              "controllift": "closedloop",
              "controltilt": "closedloop",
              "closedloopliftcontrol": "encoder",
              "closedlooptiltcontrol": "encoder"
            },
            "mode": {
              "motordirection": false,
              "calibration": false,
              "maintenance": false,
              "ledfeedback": true
            },
            "liftvelocity": 5,
            "liftaccelerationtime": 200,
            "liftdecelerationtime": 200
          },
          "schema": { "$ref": "#/definitions/WindowCovering" }
        }
      }
    }
  }
},
"post": {
```



```

    "description": "Update window covering settings.\n",
    "parameters": [
      { "$ref": "#/parameters/interface-all"},
      {
        "name": "body",
        "in": "body",
        "required": true,
        "schema": { "$ref": "#/definitions/WindowCovering-Update" },
        "x-example":
          {
            "mode": {
              "motordirection": true,
              "calibration": false,
              "maintenance": false,
              "ledfeedback": true
            },
            "liftvelocity": 10,
            "liftaccelerationtime": 500,
            "liftdecelerationtime": 500
          }
      }
    ],
    "responses": {
      "200": {
        "description": "Success path response code\n"
      }
    }
  }
},
"parameters": {
  "interface-all" : {
    "in" : "query",
    "name" : "if",
    "type" : "string",
    "enum" : ["oic.if.rw", "oic.if.baseline"]
  }
},
"definitions": {
  "WindowCovering" : {
    "properties": {
      "rt" : {
        "description": "Resource Type",
        "items": {
          "maxLength": 64,
          "type": "string",
          "enum": ["oic.r.windowcovering"]
        },
        "minItems": 1,
        "readOnly": true,
        "type": "array"
      },
      "windowcoveringtype" : {
        "description": "Window covering type. See OCF Device Specification for set of valid
values.",
        "readOnly": true,
        "type": "string"
      },
      "liftvelocity" : {
        "description": "Velocity in cm/sec associated with lifting the covering",
        "type": "integer"
      },
      "configstatus" : {
        "description": "Set of config status indicators.",
        "properties": {

```



```
    "controllift": {
      "description": "Closed loop control allows for intermediate settings, open loop
supports only up or down",
      "readOnly": true,
      "type": "string",
      "enum": ["closedloop", "openloop"]
    },
    "controltilt": {
      "description": "Closed loop control allows for intermediate settings, open loop
supports only tilted or not tilted",
      "readOnly": true,
      "type": "string",
      "enum": ["closedloop", "openloop"]
    },
    "closedloopliftcontrol": {
      "description": "Encoder or timer controlled",
      "readOnly": true,
      "type": "string",
      "enum": ["encoder", "timer"]
    },
    "closedlooptiltcontrol": {
      "description": "Encoder or timer controlled",
      "readOnly": true,
      "type": "string",
      "enum": ["encoder", "timer"]
    },
    "online": {
      "description": "True = online, False = not online",
      "readOnly": true,
      "type": "boolean"
    },
    "operational": {
      "description": "True = operational, False = not operational",
      "readOnly": true,
      "type": "boolean"
    },
    "rotationdirection": {
      "description": "Identifies if the direction of rotation has been reversed to match
physical installation.",
      "readOnly": true,
      "type": "string",
      "enum": ["normal", "reversed"]
    }
  },
  "readOnly": true,
  "type": "object"
},
"n" : {
  "description": "Friendly name of the resource",
  "maxLength": 64,
  "readOnly": true,
  "type": "string"
},
"liftaccelerationtime" : {
  "description": "Ramp up time to reach lift velocity (ms)",
  "type": "integer"
},
"liftdecelerationtime" : {
  "description": "Ramp down time from the velocity setting (ms)",
  "type": "integer"
},
"mode" : {
  "description": "Set of operational modes.",
  "properties": {
    "calibration": {
```

```

        "description": "True = calibration mode, False = normal mode",
        "type": "boolean"
    },
    "ledfeedback": {
        "description": "True = feedback enabled, False = LEDs are off",
        "type": "boolean"
    },
    "maintenance": {
        "description": "True = maintenance mode, False = normal mode",
        "type": "boolean"
    },
    "motordirection": {
        "description": "True = direction reversed, False = direction normal",
        "type": "boolean"
    }
},
"type": "object"
},
"id" : {
    "description": "Instance ID of this specific resource",
    "maxLength": 64,
    "readOnly": true,
    "type": "string"
},
"if" : {
    "description": "The interface set supported by this resource",
    "items": {
        "enum": [
            "oic.if.baseline",
            "oic.if.rw"
        ],
        "type": "string"
    },
    "minItems": 2,
    "maxItems": 2,
    "readOnly": true,
    "type": "array"
}
},
"required": ["windowcoveringtype", "configstatus", "mode"]
},
"WindowCovering-Update" : {
    "properties": {
        "liftaccelerationtime" : {
            "description": "Ramp up time to reach lift velocity (ms)",
            "type": "integer"
        },
        "liftdecelerationtime" : {
            "description": "Ramp down time from the velocity setting (ms)",
            "type": "integer"
        },
        "liftvelocity" : {
            "description": "Velocity in cm/sec associated with lifting the covering",
            "type": "integer"
        }
    },
    "mode" : {
        "description": "Set of operational modes.",
        "properties": {
            "calibration": {
                "description": "True = calibration mode, False = normal mode",
                "type": "boolean"
            },
            "ledfeedback": {
                "description": "True = feedback enabled, False = LEDs are off",
                "type": "boolean"
            }
        }
    }
}

```

```

    },
    "maintenance": {
      "description": "True = maintenance mode, False = normal mode",
      "type": "boolean"
    },
    "motordirection": {
      "description": "True = direction reversed, False = direction normal",
      "type": "boolean"
    }
  },
  "type": "object"
},
},
"required": ["mode"]
}
}
}

```

1.5.5 Property definition

Table 9 The property definitions of the resource with type 'rt' = WindowCoveringResURI

Property name	Value type	Mandatory	Access mode	Description
rt	array: see schema	No	Read Only	Resource Type
liftvelocity	integer	No	Read Write	Velocity in cm/sec associated with lifting the covering
liftaccelerationtime	integer	No	Read Write	Ramp up time to reach lift velocity (ms)
windowcoveringtype	string	Yes	Read Only	Window covering type. See OCF Device Specification for set of valid values.
id	string	No	Read Only	Instance ID of this specific resource
n	string	No	Read Only	Friendly name of the resource
if	array: see schema	No	Read Only	The interface set supported by this resource
liftdecelerationtime	integer	No	Read Write	

					Ramp down time from the velocity setting (ms)
mode	object: schema	see	Yes	Read Write	Set of operational modes.
configstatus	object: schema	see	Yes	Read Only	Set of config status indicators.
liftvelocity	integer		No	Read Write	Velocity in cm/sec associated with lifting the covering
mode	object: schema	see	Yes	Read Write	Set of operational modes.
liftaccelerationtime	integer		No	Read Write	Ramp up time to reach lift velocity (ms)
liftdecelerationtime	integer		No	Read Write	Ramp down time from the velocity setting (ms)

1.5.6 CRUDN behaviour

Table 10 The CRUDN operations of the resource with type 'rt' = WindowCoveringResURI

Resource	Create	Read	Update	Delete	Notify
/WindowCoveringResURI		get	post		observe