

OCF "Fargo" – Add "range" Property to "oic.r.sensor.illuminance" Resource – Data Model WG CR 3055

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6.40 Illuminance Sensor

6.40.1 Introduction

This Resource describes an illuminance sensor. The Property "illuminance" is a float and represents the sensed luminous flux per unit area in lux.

6.40.2 Example URI

/IlluminanceSensorResURI

6.40.3 Resource type

The Resource Type is defined as: "oic.r.sensor.illuminance".

6.40.4 OpenAPI 2.0 definition

```
{
  "swagger": "2.0",
  "info": {
    "title": "Illuminance Sensor",
    "version": "20190215",
    "license": {
      "name": "OCF Data Model License",
      "url":
        "https://github.com/openconnectivityfoundation/core/blob/e28a9e0a92e17042ba3e83661e4c0fbce8bdc4b
        a/LICENSE.md",
      "x-copyright": "copyright 2016-2017, 2019 Open Connectivity Foundation, Inc. All rights
        reserved."
    },
    "termsOfService": "https://openconnectivityfoundation.github.io/core/DISCLAIMER.md"
  },
  "schemes": ["http"],
  "consumes": ["application/json"],
  "produces": ["application/json"],
  "paths": {
    "/IlluminanceSensorResURI" : {
      "get": {
        "description": "This Resource describes an illuminance sensor.\n\nThe Property
        \\\\"illuminance\\" is a float and represents the sensed luminous flux per unit area in lux.",
        "parameters": [
          { "$ref": "#/parameters/interface" }
        ],
        "responses": {
          "200": {
            "description": "",
            "x-example": {
              "rt": ["oic.r.sensor.illuminance"],
              "if": ["oic.if.s", "oic.if.baseline"],
              "illuminance": 450.0,
              "range": [100.0, 500.0]
            },
            "schema": { "$ref": "#/definitions/Illuminance" }
          }
        }
      }
    }
  },
  "parameters": {
    "interface": {
      "in": "query",
      "name": "if",
      "type": "string",
      "enum": ["oic.if.s", "oic.if.baseline"]
    }
  }
}
```

```

"definitions": {
  "Illuminance" : {
    "properties": {
      "rt": {
        "description": "The Resource Type.",
        "items": {
          "enum": ["oic.r.sensor.illuminance"],
          "maxLength": 64,
          "type": "string"
        },
        "minItems": 1,
        "uniqueItems": true,
        "readOnly": true,
        "type": "array"
      },
      "illuminance": {
        "description": "The sensed luminous flux per unit area in lux.",
        "readOnly": true,
        "type": "number"
      },
      "n": {
        "$ref":
"https://openconnectivityfoundation.github.io/core/schemas/oic.common.properties.core-
schema.json#/definitions/n"
      },
      "id": {
        "$ref":
"https://openconnectivityfoundation.github.io/core/schemas/oic.common.properties.core-
schema.json#/definitions/id"
      },
      "range": {
        "$ref":
"https://openconnectivityfoundation.github.io/IoTDataModels/schemas/oic.baseresource.properties-
schema.json#/definitions/range_number"
      },
      "if": {
        "description": "The OCF Interface set supported by this Resource.",
        "items": {
          "enum": [
            "oic.if.s",
            "oic.if.baseline"
          ],
          "type": "string"
        },
        "minItems": 2,
        "uniqueItems": true,
        "readOnly": true,
        "type": "array"
      }
    },
    "type": "object",
    "required": ["illuminance"]
  }
}

```

6.40.5 Property definition

Table 83 defines the Properties that are part of the "oic.r.sensor.illuminance" Resource Type.

Table 1 – The Property definitions of the Resource with type "rt" = "oic.r.sensor.illuminance".

Property name	Value type	Mandatory	Access mode	Description
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illuminance	number	Yes	Read Only	The sensed luminous flux per unit area in lux.
id	multiple types: see schema	No	Read Write	
rt	array: see schema	No	Read Only	The Resource Type.
range	multiple types: see schema	No	Read Write	
if	array: see schema	No	Read Only	The OCF Interface set supported by this Resource.
n	multiple types: see schema	No	Read Write	

6.40.6 CRUDN behaviour

Table 84 defines the CRUDN operations that are supported on the "oic.r.sensor.illuminance" Resource Type.

Table 2 – The CRUDN operations of the Resource with type "rt" = "oic.r.sensor.illuminance".

Create	Read	Update	Delete	Notify
	get			observe