

**OCF “Ipanema” – New Resource Type to represent Civic Location – Smart Home WG CR  
3415**

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## 1.1 Civic Location

### 1.1.1 Introduction

This Resource describes the properties associated with the current civic location. The Properties modelled follow the definition of the Location Object provided by RFC 4117 and clarified by RFC 5774.

If a Device supports this Resource but has no defined content for it (yet) the response to a RETRIEVE contains just the "name" Property containing an empty string

### 1.1.2 Example URI

/CivicLocationResURI

### 1.1.3 Resource type

The Resource Type is defined as: "oic.r.location.civic".

### 1.1.4 OpenAPI 2.0 definition

```
{
  "swagger": "2.0",
  "info": {
    "title": "Civic Location",
    "version": "2020-09-09",
    "license": {
      "name": "OCF Data Model License",
      "url":
"https://github.com/openconnectivityfoundation/core/blob/e28a9e0a92e17042ba3e83661e4c0fbce8bdc4ba/LICENSE.md",
      "x-copyright": "copyright 2020 Open Connectivity Foundation, Inc. All rights reserved."
    },
    "termsOfService": "https://openconnectivityfoundation.github.io/core/DISCLAIMER.md"
  },
  "schemes": ["http"],
  "consumes": ["application/json"],
  "produces": ["application/json"],
  "paths": {
    "/CivicLocationResURI" : {
      "get": {
        "description": "This Resource describes the properties associated with the current civic location.\n\nThe Properties modelled follow the definition of the Location Object provided by RFC 4117 and clarified by RFC 5774.\n\nIf a Device supports this Resource but has no defined content for it (yet) the response to a RETRIEVE contains just the \"name\" Property containing an empty string",
        "parameters": [
          { "$ref": "#/parameters/interface" }
        ],
        "responses": {
          "200": {
            "description": "RETRIEVES the current civic location. ",
            "x-example": {
              "rt": ["oic.r.location.civic"],
              "if": ["oic.if.rw", "oic.if.baseline"],
              "country": "US",
              "national-a1": "New York",
              "region-a2": "King's County",
              "city-a3": "New York",
              "citydivision-a4": "Manhattan",
              "block-a5": "Morningside Heights",
              "street-a6": "Broadway",
              "prd": "N",
              "pod": "SW",
            }
          }
        }
      }
    }
  }
}
```

```

        "sts": "Avenue",
        "buildingnumber": 123,
        "buildingnumbersuffix": "A",
        "landmark": "Low Library",
        "loc": "Room 543",
        "flr": 5,
        "name": "Joe's Barbershop",
        "postalcode": "10027"
    },
    "schema": { "$ref": "#/definitions/Civiclocation" }
}
},
"post": {
    "description": "Update or set Civic Location information.",
    "parameters": [
        { "$ref": "#/parameters/interface-rw",
          {
            "name": "body",
            "in": "body",
            "required": true,
            "schema": { "$ref": "#/definitions/Civiclocation-Update" },
            "x-example": {
                "country": "GB",
                "national-a1": "Scotland",
                "region-a2": "Perthshire",
                "city-a3": "Doune",
                "street-a6": "Castle Hill",
                "landmark": "Doune Castle",
                "postalcode": "FK16 6EA"
            }
          }
        ]
    },
    "responses": {
        "200": {
            "description": "",
            "x-example": {
                "country": "GB",
                "national-a1": "Scotland",
                "region-a2": "Perthshire",
                "city-a3": "Doune",
                "street-a6": "Castle Hill",
                "landmark": "Doune Castle",
                "postalcode": "FK16 6EA"
            },
            "schema": { "$ref": "#/definitions/Civiclocation-Update" }
        }
    }
}
},
"parameters": {
    "interface": {
        "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": {
    "Civiclocation": {
        "properties": {
            "rt": {
                "description": "The Resource Type.",
                "items": {

```

```

    "enum": ["oic.r.location.civic"],
    "maxLength": 64,
    "type": "string"
  },
  "minItems": 1,
  "uniqueItems": true,
  "readOnly": true,
  "type": "array"
},
"country": {
  "description": "The Country using the ISO 3166 two letter code.",
  "type": "string"
},
},
"national-a1": {
  "description": "The National subdivision (state, province etc).",
  "type": "string"
},
},
"region-a2": {
  "description": "The Regional subdivision (county, parish, district etc).",
  "type": "string"
},
},
"city-a3": {
  "description": "The City, Township, or similar.",
  "type": "string"
},
},
"citydivision-a4": {
  "description": "The division within a City or Town.",
  "type": "string"
},
},
"block-a5": {
  "description": "The block or neighbourhood.",
  "type": "string"
},
},
"street-a6": {
  "description": "The Street name.",
  "type": "string"
},
},
"prd": {
  "description": "Leading Street Direction.",
  "type": "string",
  "enum": ["N", "S", "E", "W", "NE", "NW", "SE", "SW"]
},
},
"pod": {
  "description": "Trailing Street Suffix.",
  "type": "string",
  "enum": ["N", "S", "E", "W", "NE", "NW", "SE", "SW"]
},
},
"sts": {
  "description": "Street Suffix.",
  "type": "string"
},
},
"buildingnumber": {
  "description": "House or Building Number.",
  "type": "integer"
},
},
"buildingnumbersuffix": {
  "description": "Building Number Suffix.",
  "type": "string"
},
},
"landmark": {
  "description": "Landmark or vanity address.",
  "type": "string"
},
},
"loc": {
  "description": "Additional location information.",
  "type": "string"
},
},
"flr": {
  "description": "Floor of the building. Zero (0) represents the floor that is at street
(ground) level.",
  "type": "integer"
}

```

```

    },
    "name": {
      "description": "Resident, Business etc.",
      "type": "string"
    },
    "postalcode": {
      "description": "Postal or Zip code.",
      "type": "string"
    },
    "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"
    },
    "if": {
      "description": "The OCF Interface set supported by this Resource.",
      "items": {
        "enum": [
          "oic.if.rw",
          "oic.if.baseline"
        ],
        "type": "string"
      },
      "minItems": 2,
      "uniqueItems": true,
      "readOnly": true,
      "type": "array"
    }
  },
  "type": "object",
  "required": ["name"]
},
"Civiclocation-Update" : {
  "properties": {
    "country": {
      "description": "The Country using the ISO 3166 two letter code.",
      "type": "string"
    },
    "national-a1": {
      "description": "The National subdivision (state, province etc).",
      "type": "string"
    },
    "region-a2": {
      "description": "The Regional subdivision (county, parish, district etc).",
      "type": "string"
    },
    "city-a3": {
      "description": "The City, Township, or similar.",
      "type": "string"
    },
    "citydivision-a4": {
      "description": "The division within a City or Town.",
      "type": "string"
    },
    "block-a5": {
      "description": "The block or neighbourhood.",
      "type": "string"
    },
    "street-a6": {
      "description": "The Street name.",
      "type": "string"
    },
    "prd": {
      "description": "Leading Street Direction.",
      "type": "string",
      "enum": ["N", "S", "E", "W", "NE", "NW", "SE", "SW"]
    }
  }
}

```

```

    },
    "pod": {
      "description": "Trailing Street Suffix.",
      "type": "string",
      "enum": [ "N", "S", "E", "W", "NE", "NW", "SE", "SW" ]
    },
    "sts": {
      "description": "Street Suffix.",
      "type": "string"
    },
    "buildingnumber": {
      "description": "House or Building Number.",
      "type": "integer"
    },
    "buildingnumbersuffix": {
      "description": "Building Number Suffix.",
      "type": "string"
    },
    "landmark": {
      "description": "Landmark or vanity address.",
      "type": "string"
    },
    "loc": {
      "description": "Additional location information.",
      "type": "string"
    },
    "flr": {
      "description": "Floor of the building. Zero (0) represents the floor that is at street
(ground) level.",
      "type": "integer"
    },
    "name": {
      "description": "Resident, Business etc.",
      "type": "string"
    },
    "postalcode": {
      "description": "Postal or Zip code.",
      "type": "string"
    }
  },
  "type": "object"
}
}
}

```

### 1.1.5 Property definition

<Table Reference Here> defines the Properties that are part of the "oic.r.location.civic" Resource Type.

**Table 1 – The Property definitions of the Resource with type "rt" = "oic.r.location.civic".**

Property name	Value type	Mandatory	Access mode	Description
rt	array: see schema	No	Read Only	The Resource Type.
country	string	No	Read Write	The Country using the ISO 3166 two letter code.
national-a1	string	No	Read Write	The National subdivision (state, province etc).
region-a2	string	No	Read Write	The Regional subdivision (county, parish, district etc).
city-a3	string	No	Read Write	The City, Township, or similar.

citydivision-a4	string	No	Read Write	The division within a City or Town.
block-a5	string	No	Read Write	The block or neighbourhood.
street-a6	string	No	Read Write	The Street name.
prd	string	No	Read Write	Leading Street Direction.
pod	string	No	Read Write	Trailing Street Suffix.
sts	string	No	Read Write	Street Suffix.
buildingnumber	integer	No	Read Write	House or Building Number.
buildingnumbersuffix	string	No	Read Write	Building Number Suffix.
landmark	string	No	Read Write	Landmark or vanity address.
loc	string	No	Read Write	Additional location information.
flr	integer	No	Read Write	Floor of the building. Zero (0) represents the floor that is at street (ground) level.
name	string	Yes	Read Write	Resident, Business etc.
postalcode	string	No	Read Write	Postal or Zip code.
n	multiple types: see schema	No	Read Write	
id	multiple types: see schema	No	Read Write	
if	array: see schema	No	Read Only	The OCF Interface set supported by this Resource.
country	string		Read Write	The Country using the ISO 3166 two letter code.
national-a1	string		Read Write	The National subdivision (state, province etc).
region-a2	string		Read Write	The Regional subdivision (county, parish, district etc).
city-a3	string		Read Write	The City, Township, or similar.
citydivision-a4	string		Read Write	The division within a City or Town.
block-a5	string		Read Write	The block or neighbourhood.
street-a6	string		Read Write	The Street name.
prd	string		Read Write	Leading Street Direction.
pod	string		Read Write	Trailing Street Suffix.

sts	string		Read Write	Street Suffix.
buildingnumber	integer		Read Write	House or Building Number.
buildingnumbersuffix	string		Read Write	Building Number Suffix.
landmark	string		Read Write	Landmark or vanity address.
loc	string		Read Write	Additional location information.
flr	integer		Read Write	Floor of the building. Zero (0) represents the floor that is at street (ground) level.
name	string		Read Write	Resident, Business etc.
postalcode	string		Read Write	Postal or Zip code.

### 1.1.6 CRUDN behaviour

<Table Reference Here> defines the CRUDN operations that are supported on the "oic.r.location.civic" Resource Type.

**Table 2 – The CRUDN operations of the Resource with type "rt" = "oic.r.location.civic".**

Create	Read	Update	Delete	Notify
	get	post		observe