

**OCF “Essen” – New Water Purifier Device Type – Data Model WG CR 2877**

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## 1.1 Water Info

### 1.1.1 Introduction

This Resource describes the water information to indicate type of water currently provided by the device. The water type can be read or set.

The Property "supportedwatertypes" is an array of the possible water types are defined by the enumeration ["cold", "hot", "ambient", "ice"].

The Property "supportedadditivetypes" is an array of the possible additive types for water.

The additive types mean optional types that can be added to the specific water type according to Client's preference and are defined by the enumeration ["none", "soda", "mineral"]. If absent, the default value is "none".

The Property "currentwatertype" is the currently desired water type.

The Property "currentadditivetypes" is the currently desired additive type(s).

For example, if "cold" is selected with the "currentwatertype", "soda" and "mineral" or both can be selected as "currentadditivetypes". Note that if "hot" is selected with the "currentwatertype", "soda" and "mineral" may be restricted for the "currentadditivetypes".

### 1.1.2 Example URI

/WaterInfoResURI

### 1.1.3 Resource type

The Resource Type is defined as: "oic.r.waterinfo".

### 1.1.4 OpenAPI 2.0 definition

```
{
  "swagger": "2.0",
  "info": {
    "title": "Water Info",
    "version": "2019-06-13",
    "license": {
      "name": "OCF Date Model License",
      "url":
"https://github.com/openconnectivityfoundation/core/blob/e28a9e0a92e17042ba3e83661e4c0fbce8bdc4b
a/LICENSE.md",
      "x-copyright": "Copyright 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": {
    "/WaterInfoResURI": {
      "get": {
        "description": "This Resource describes the water information to indicate type of
water currently provided by the device. The water type can be read or set.\n\nThe Property
\"supportedwatertypes\" is an array of the possible water types are defined by the enumeration
[\"cold\", \"hot\", \"ambient\", \"ice\"].\n\nThe Property \"supportedadditivetypes\" is an array
of the possible additive types for water. The additive types mean optional types that can be
added to the specific water type according to Client's preference and are defined by the
enumeration [\"none\", \"soda\", \"mineral\"]. If absent, the default value is \"none\". \n\nThe
Property \"currentwatertype\" is the currently desired water type. \n\nThe Property
\"currentadditivetypes\" is the currently desired additive type(s). \n\nFor example, if \"cold\"
is selected with the \"currentwatertype\", \"soda\" and \"mineral\" or both can be selected as
\"currentadditivetypes\". Note that if \"hot\" is selected with the \"currentwatertype\",
\"soda\" and \"mineral\" may be restricted for the \"currentadditivetypes\".",
        "parameters": [
          {
            "$ref": "#/parameters/interface"
          }
        ],
        "responses": {
          "200": {

```

```

    "description" : "RETRIEVES the set of supported water type information and
current desired water type information.",
    "x-example":
    {
      "rt": ["oic.r.waterinfo"],
      "if": ["oic.if.rw", "oic.if.baseline"],
      "supportedwatertypes": ["cold", "hot", "ambient", "ice"],
      "supportedadditivetypes": ["none", "soda", "mineral"],
      "currentwatertype": "cold",
      "currentadditivetypes": ["soda", "mineral"]
    },
    "schema": { "$ref": "#/definitions/WaterInfo" }
  },
  },
  "post":{
    "description": "Sets the desired water type.",
    "parameters": [
      { "$ref": "#/parameters/interface"},
      {
        "name": "body",
        "in": "body",
        "required": true,
        "schema": { "$ref": "#/definitions/WaterInfoUpdate" },
        "x-example": {
          "currentwatertype": "hot",
          "currentadditivetypes": ["none"]
        }
      }
    ],
    "responses":{
      "200": {
        "description" : "Indicates that the current desired water type and
additive type(s) were changed. \n\nThe new desired water type info is provided in the
response.\n",
        "x-example": {
          "currentwatertype": "hot",
          "currentadditivetypes": ["none"]
        },
        "schema": { "$ref": "#/definitions/WaterInfoUpdate" }
      },
      "403":{
        "description" : "This response is generated by the OCF Server when the
client sends:\n\n An UPDATE with an invalid property value for \"currentwatertype\".\n\nThe OCF
Server responds with the current resource representation.\n",
        "x-example": {
          "supportedwatertypes": ["cold", "hot", "ambient", "ice"],
          "supportedadditivetypes": ["none", "soda", "mineral"],
          "currentwatertype": "cold",
          "currentadditivetypes": ["soda", "mineral"]
        },
        "schema": { "$ref": "#/definitions/WaterInfo" }
      }
    }
  },
  },
  },
  "parameters": {
    "interface": {
      "in": "query",
      "name": "if",
      "type": "string",
      "enum": ["oic.if.rw", "oic.if.baseline"]
    }
  },
  "definitions": {
    "WaterInfo" : {
      "properties": {
        "rt": {
          "description": "The Resource Type.",

```



```
        "items": {
          "enum": ["oic.r.waterinfo"],
          "maxLength": 64,
          "type": "string"
        },
        "minItems": 1,
        "uniqueItems": true,
        "readOnly": true,
        "type": "array"
      },
      "supportedwatertypes": {
        "description": "The array of the possible water types.",
        "items": {
          "type": "string"
        },
        "readOnly": true,
        "type": "array"
      },
      "supportedadditivetypes": {
        "description": "The array of the possible additive types.",
        "items": {
          "type": "string"
        },
        "readOnly": true,
        "type": "array"
      },
      "currentwatertype": {
        "description": "The currently desired water type.",
        "type": "string"
      },
      "currentadditivetypes": {
        "description": "The currently desired additive type(s) according to
Client's preference.",
        "items": {
          "type": "string"
        },
        "minItems": 1,
        "type": "array"
      },
      "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": ["supportedwatertypes", "currentwatertype"]
  },
  "WaterInfoUpdate": {
    "properties": {
      "currentwatertype": {
        "description": "Set the desired water type.",
```

```

    "type": "string"
  },
  "currentadditivetypes": {
    "description": "Set the desired additive type(s).",
    "items": {
      "type": "string"
    },
    "minItems": 1,
    "type": "array"
  }
},
"type": "object",
"required": ["currentwatertype"]
}
}
}

```

### 1.1.5 Property definition

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

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

Property name	Value type	Mandatory	Access mode	Description
rt	array: see schema	No	Read Only	The Resource Type.
currentwatertype	string	Yes	Read Write	The currently desired water type.
n	multiple types: see schema	No	Read Write	
supportedwatertypes	array: see schema	Yes	Read Only	The array of the possible water types.
id	multiple types: see schema	No	Read Write	
supportedadditivetypes	array: see schema	No	Read Only	The array of the possible additive types.
if	array: see schema	No	Read Only	The OCF Interface set supported by this Resource.
currentadditivetypes	array: see schema	No	Read Write	The currently desired additive type(s) according to Client's preference.
currentwatertype	string	Yes	Read Write	Set the desired water type.
currentadditivetypes	array: see schema	No	Read Write	Set the desired additive type(s).

### 1.1.6 CRUDN behaviour

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

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

<b>Create</b>	<b>Read</b>	<b>Update</b>	<b>Delete</b>	<b>Notify</b>
	get	post		observe

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