

**OCF “Fargo” – New Resource Type for deodorization device UUID – Security WG CR  
2940**

Legal Disclaimer

THIS IS A DRAFT SPECIFICATION DOCUMENT ONLY AND HAS NOT BEEN ADOPTED BY THE OPEN CONNECTIVITY FOUNDATION. THIS DRAFT DOCUMENT MAY NOT BE RELIED UPON FOR ANY PURPOSE OTHER THAN REVIEW OF THE CURRENT STATE OF THE DEVELOPMENT OF THIS DRAFT DOCUMENT. THE OPEN CONNECTIVITY FOUNDATION AND ITS MEMBERS RESERVE THE RIGHT WITHOUT NOTICE TO YOU TO CHANGE ANY OR ALL PORTIONS HEREOF, DELETE PORTIONS HEREOF, MAKE ADDITIONS HERETO, DISCARD THIS DRAFT DOCUMENT IN ITS ENTIRETY OR OTHERWISE MODIFY THIS DRAFT DOCUMENT AT ANY TIME. YOU SHOULD NOT AND MAY NOT RELY UPON THIS DRAFT DOCUMENT IN ANY WAY, INCLUDING BUT NOT LIMITED TO THE DEVELOPMENT OF ANY PRODUCTS OR SERVICES. IMPLEMENTATION OF THIS DRAFT DOCUMENT IS DONE AT YOUR OWN RISK AMEND AND IT IS NOT SUBJECT TO ANY LICENSING GRANTS OR COMMITMENTS UNDER THE OPEN CONNECTIVITY FOUNDATION INTELLECTUAL PROPERTY RIGHTS POLICY OR OTHERWISE. IN CONSIDERATION OF THE OPEN CONNECTIVITY FOUNDATION GRANTING YOU ACCESS TO THIS DRAFT DOCUMENT, YOU DO HEREBY WAIVE ANY AND ALL CLAIMS ASSOCIATED HEREWITH INCLUDING BUT NOT LIMITED TO THOSE CLAIMS DISCUSSED BELOW, AS WELL AS CLAIMS OF DETRIMENTAL RELIANCE.

The OCF logo is a trademark of Open Connectivity Foundation, Inc. in the United States or other countries. \*Other names and brands may be claimed as the property of others.

Copyright © 2019 Open Connectivity Foundation, Inc. All rights reserved.

Copying or other form of reproduction and/or distribution of these works are strictly prohibited.

## 1.1 Deodorization

### 1.1.1 Introduction

This Resource describes a deodorization function, which can be supported by controlling on air filter.

The Property "mode" is a mode of the deodorization function. The supported modes are defined by the enumeration ["off", "on", "auto"].

"off" means that the deodorization function is not enabled.

"on" means that the deodorization function is active.

"auto" means that the deodorization function is automatically controlled depending on sensed air condition in the device inside.

The Property "currentstate" is the current state of the deodorization function. In the case of "auto" mode, if the sensed air condition is determined to be bad, the function will be "on".

Then, "mode" value is "auto" and "currentstate" value is "on". If not, the function is remaining "off" state. Then, "currentstate" value is "off".

### 1.1.2 Example URI

/DeodorizationResURI

### 1.1.3 Resource type

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

### 1.1.4 OpenAPI 2.0 definition

```
{
  "swagger": "2.0",
  "info": {
    "title": "Deodorization",
    "version": "20190820",
    "license": {
      "name": "OCF Data 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": {
    "/DeodorizationResURI" : {
      "get": {
        "description": "This Resource describes a deodorization function, which can be supported
by controlling on air filter. \n The Property \"mode\" is a mode of the deodorization function.
The supported modes are defined by the enumeration [\"off\", \"on\", \"auto\"]. \n \"off\" means
that the deodorization function is not enabled.\n \"on\" means that the deodorization function is
active.\n \"auto\" means that the deodorization function is automatically controlled depending on
sensed air condition in the device inside. \nThe Property \"currentstate\" is the current state
of the deodorization function. In the case of \"auto\" mode, if the sensed air condition is
determined to be bad, the function will be \"on\". Then, \"mode\" value is \"auto\" and
\"currentstate\" value is \"on\". If not, the function is remaining \"off\" state. Then,
\"currentstate\" value is \"off\".",
        "parameters": [
          { "$ref": "#/parameters/interface" }
        ],
        "responses": {
          "200": {
            "description": "RETRIEVES the current deodorization function state.",
            "x-example":
{
              "rt": ["oic.r.deodorization"],
            }
          }
        }
      }
    }
  }
}
```

```

        "if": ["oic.if.a", "oic.if.baseline"],
        "mode": "auto",
        "currentstate": "off"
    },
    "schema": { "$ref": "#/definitions/Deodorization" }
}
},
"post": {
    "description": "Sets the desired deodorization function state.",
    "parameters": [
        { "$ref": "#/parameters/interface" },
        {
            "name": "body",
            "in": "body",
            "required": true,
            "schema": { "$ref": "#/definitions/DeodorizationUpdate" },
            "x-example":
                {
                    "mode": "on"
                }
        }
    ],
    "responses": {
        "200": {
            "description": "Indicates that the Deodorization function state was changed.\n\nThe new state is provided in the response.\n",
            "x-example":
                {
                    "mode": "on",
                    "currentstate": "on"
                },
            "schema": { "$ref": "#/definitions/Deodorization" }
        }
    }
},
},
},
},
"parameters": {
    "interface": {
        "in": "query",
        "name": "if",
        "type": "string",
        "enum": ["oic.if.a", "oic.if.baseline"]
    }
},
"definitions": {
    "Deodorization": {
        "properties": {
            "rt": {
                "description": "The Resource Type.",
                "items": {
                    "enum": ["oic.r.deodorization"],
                    "maxLength": 64,
                    "type": "string"
                },
                "minItems": 1,
                "uniqueItems": true,
                "readOnly": true,
                "type": "array"
            },
            "mode": {
                "description": "The modes of the Deodorization function.",
                "enum": [
                    "off",
                    "on",
                    "auto"
                ],
                "type": "string"
            }
        }
    }
},
},

```

```

    "currentstate": {
      "description": "The current state of the Deodorization function.",
      "enum": [
        "off",
        "on"
      ],
      "readonly": true,
      "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.a",
          "oic.if.baseline"
        ],
        "type": "string"
      },
      "minItems": 2,
      "uniqueItems": true,
      "readOnly": true,
      "type": "array"
    }
  },
  "type": "object",
  "required": ["mode", "currentstate"]
},
"DeodorizationUpdate" : {
  "properties": {
    "mode": {
      "description": "The modes of the Deodorization function.",
      "enum": [
        "off",
        "on",
        "auto"
      ],
      "type": "string"
    }
  },
  "type": "object",
  "required": ["mode"]
}
}
}

```

### 1.1.5 Property definition

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

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

Property name	Value type	Mandatory	Access mode	Description
mode	string	Yes	Read Write	The modes of the

				Deodorization function.
if	array: see schema	No	Read Only	The OCF Interface set supported by this Resource.
id	multiple types: see schema	No	Read Write	
n	multiple types: see schema	No	Read Write	
currentstate	string	Yes	Read Only	The current state of the Deodorization function.
rt	array: see schema	No	Read Only	The Resource Type.
mode	string	Yes	Read Write	The modes of the Deodorization function.

#### 1.1.6 CRUDN behaviour

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

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

Create	Read	Update	Delete	Notify
	get	post		observe