

**OCF “Fargo” – New OCF Resource type for EnOcean Keycard Switch – Data Model WG
CR 2986**

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 KeyCard Switch

1.1.1 Introduction

This Resource describes the operation of a KeyCard style switch. It has one mandatory Property, "stateofcard", which is a string enum type. It has two enum values: "validCardInserted", "validCardNotInserted". "validCardInserted" means that a keycard was inserted and passed validation check. "validCardNotInserted" means that a keycard is not inserted or it was inserted but failed to pass validation check.

5.2.1 Example URI

/KeyCardSwitchResURI

5.2.2 Resource type

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

5.2.3 OpenAPI 2.0 definition

```
{
  "swagger": "2.0",
  "info": {
    "title": "KeyCard Switch",
    "version": "20190807",
    "license": {
      "name": "OCF Data Model License",
      "url":
"https://github.com/openconnectivityfoundation/core/blob/e28a9e0a92e17042ba3e83661e4c0fbce8bdc4b
a/LICENSE.md",
      "x-copyright": "Copyright 2018-2019 Open Connectivity Foundation, Inc. All rights
reserved."
    },
    "termsOfService": "https://openconnectivityfoundation.github.io/core/DISCLAIMER.md"
  },
  "schemes": ["http"],
  "consumes": ["application/json"],
  "produces": ["application/json"],
  "paths": {
    "/KeyCardSwitchResURI" : {
      "get": {
        "description": "This Resource describes the operation of a KeyCard style switch. It has
one mandatory Property, \"stateofcard\", which is a string enum type. It has two enum values:
\\\"validCardInserted\\\", \\\"validCardNotInserted\\\". \\\"validCardInserted\\\" means that a keycard
was inserted and passed validation check. \\\"validCardNotInserted\\\" means that a keycard is not
inserted or it was inserted but failed to pass validation check.",
        "parameters": [
          { "$ref": "#/parameters/interface" }
        ],
        "responses": {
          "200": {
            "description": "",
            "x-example":
{
          "rt": ["oic.r.keycardswitch"],
          "if": ["oic.if.s", "oic.if.baseline"],
          "stateofcard": "validCardInserted"
        }
          ,
          "schema": { "$ref": "#/definitions/KeyCardSwitch" }
        }
      }
    }
  }
},
"parameters": {
```

```

    "interface" : {
      "in": "query",
      "name": "if",
      "type": "string",
      "enum": ["oic.if.s", "oic.if.baseline"]
    }
  },
  "definitions": {
    "KeyCardSwitch" : {
      "properties": {
        "rt": {
          "description": "The Resource Type of KeyCardSwitch",
          "items": {
            "enum": ["oic.r.keycardswitch"],
            "maxLength": 64,
            "type": "string"
          },
          "minItems": 1,
          "uniqueItems": true,
          "readOnly": true,
          "type": "array"
        },
        "stateofcard": {
          "description": "The status of the keycardswitch. \"validCardInserted\" means that a
keycard was inserted and passed validation check. \"validCardNotInserted\" means that a keycard
is not inserted or it was inserted but failed to pass validation check.",
          "readOnly": true,
          "type": "string",
          "enum": [
            "validCardInserted",
            "validCardNotInserted"
          ]
        },
        "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.s",
              "oic.if.baseline"
            ],
            "type": "string"
          },
          "minItems": 2,
          "uniqueItems": true,
          "readOnly": true,
          "type": "array"
        }
      },
      "type": "object",
      "required": ["stateofcard"]
    }
  }
}

```

5.2.4 Property definition

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

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

Property name	Value type	Mandatory	Access mode	Description
rt	array: see schema	No	Read Only	The Resource Type of KeyCardSwitch
stateofcard	string	Yes	Read Only	The status of the keycardswitch. "validCardInserted" means that a keycard was inserted and passed validation check. "validCardNotInserted" means that a keycard is not inserted or it was inserted but failed to pass validation check.
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.

5.2.5 CRUDN behaviour

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

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

Create	Read	Update	Delete	Notify
	get			observe