

OCF “Fargo” – Healthcare data models – Data Model WG CR 3030

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1.1 Muscle Oxygen Saturation

1.1.1 Introduction

This Resource describes the muscle oxygen saturation (SmO₂), which is the percentage of hemoglobin that is saturated with oxygen in the capillaries of a muscle.

The unit is percentage.

The smo₂ Property is a read-only value that is provided by the server.

1.1.2 Example URI

/MuscleOxygenSaturationResURI

1.1.3 Resource type

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

1.1.4 OpenAPI 2.0 definition

```
{
  "swagger": "2.0",
  "info": {
    "title": "Muscle Oxygen Saturation",
    "version": "2019-08-20",
    "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": {
    "/MuscleOxygenSaturationResURI": {
      "get": {
        "description": "This Resource describes the muscle oxygen saturation (SmO2), which is
the percentage of hemoglobin that is saturated with oxygen in the capillaries of a muscle.\n The
unit is percentage.\n The smo2 Property is a read-only value that is provided by the server.",
        "parameters": [
          {
            "$ref": "#/parameters/interface"
          }
        ],
        "responses": {
          "200": {
            "description": "",
            "x-example": {
              "rt": [
                "oic.r.muscleoxygensaturation"
              ],
              "muscleoxygensaturation": 80.0
            },
            "schema": {
              "$ref": "#/definitions/MuscleOxygenSaturation"
            }
          }
        }
      }
    }
  }
}
```

```

    }
  }
},
"parameters": {
  "interface": {
    "in": "query",
    "name": "if",
    "type": "string",
    "enum": [
      "oic.if.s",
      "oic.if.baseline"
    ]
  }
},
"definitions": {
  "MuscleOxygenSaturation": {
    "properties": {
      "muscleoxygensaturation": {
        "description": "This Property describes the muscle oxygen saturation (SmO2), which is the percentage of hemoglobin that is saturated with oxygen in the capillaries of a muscle. The unit is percentage.",
        "type": "number",
        "minimum": 0,
        "maximum": 100,
        "readOnly": true
      },
      "rt": {
        "description": "The Resource Type.",
        "items": {
          "enum": [
            "oic.r.muscleoxygensaturation"
          ],
          "type": "string"
        },
        "minItems": 1,
        "uniqueItems": true,
        "readOnly": true,
        "type": "array"
      },
      "n": {
        "$ref": "https://openconnectivityfoundation.github.io/core/schemas/oic.common.properties.core-schema.json#/definitions/n"
      },
      "if": {
        "description": "The OCF Interface set supported by this Resource.",
        "items": {
          "enum": [
            "oic.if.s",
            "oic.if.baseline"
          ],
          "type": "string"
        },
        "minItems": 1,
        "uniqueItems": true,
        "readOnly": true,
        "type": "array"
      }
    },
    "type": "object",
    "required": [
      "muscleoxygensaturation"
    ]
  }
}
}
}

```

1.1.5 Property definition

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

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

| Property name | Value type | Mandatory | Access mode | Description |
|------------------------|----------------------------|-----------|-------------|---|
| muscleoxygensaturation | number | Yes | Read Only | This Property describes the muscle oxygen saturation (SmO ₂), which is the percentage of hemoglobin that is saturated with oxygen in the capillaries of a muscle. The unit is percentage. |
| rt | array: see schema | No | Read Only | The Resource Type. |
| n | multiple types: see schema | No | Read Write | |
| if | array: see schema | No | Read Only | The OCF Interface set supported by this Resource. |

1.1.6 CRUDN behaviour

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

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

| Create | Read | Update | Delete | Notify |
|--------|------|--------|--------|---------|
| | get | | | observe |