ServiceDiscoveryM2 REST-JSON-TLS

**Abstract**

This document defines interface design of the ServiceDiscoveryM2 Service based on REST.

1. Overview

This document describes the ServiceDiscovery service of G3.2 within the REST interface.

This interface uses HTTP or HTTPS, therefore the related CP is valid.

1. Interfaces

As per the SD of this Service, there are three methods implemented (and two supporting ones). Table 1 describe these.

Table 1 Function description

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Function** | **URL subpath** | **Method** | **Input** | **Output** |
| Publish | “/register” | POST | ServiceRegistryEntry | 200 OK,  CONTENT\_RESET,  INTERNAL\_SERVER\_ERROR |
| Unpublish | “/remove” | PUT | **ServiceRegistryEntry** | 200 OK,  REMOVED,  INTERNAL\_SERVER\_ERROR |
| Query | “/query” | PUT | **ServiceQueryForm** | **ServiceQueryResult**  OK,  NO\_CONTENT,  INTERNAL\_SERVER\_ERROR |

1. Information Model

As per discussed in the SD document, there are two possible request payloads and one response payload. Here, examples are given for these messages for this interface implementation (REST-JSON-TLS).

# ServiceRegistryEntry

{

"providedService": {

"serviceGroup": "Temperature",

"serviceDefinition": "IndoorTemperature",

"interfaces": ["json"],

"serviceMetadata": {

"unit": "celsius"

}

},

"provider": {

"systemGroup": "TemperatureSensors",

"systemName": "InsecureTemperatureSensor",

"address": "0.0.0.0",

"port": 8454

},

"serviceURI": "temperature",

"version": 1,

"isUDP": false

}

# ServiceQueryForm

{

"service": {

"serviceGroup": "Temperature",

"serviceDefinition": "IndoorTemperature",

"interfaces": ["json"],

"serviceMetadata": {

"entry": [

{

"key": "security",

"value": "token"

},

{

"key": "unit",

"value": "celsius"

}

]

}

},

"pingProviders" : false,

"metadataSearch" : false

}

# ServiceQueryResult

{

"serviceQueryData": [{

"UDP": false,

"providedService": {

"interfaces": [

"json"

],

"serviceDefinition": "IndoorTemperature",

"serviceGroup": "Temperature",

"serviceMetadata": {

"entry": [{

"key": "security",

"value": "token"

},

{

"key": "unit",

"value": "celsius"

}

]

}

},

"provider": {

"address": "127.0.0.1",

"port": 8454,

"systemGroup": "TemperatureSensors",

"systemName": "InsecureTemperatureSensor"

},

"serviceURI": "temperature",

"version": 1

}]

}

1. Revision history

# Amendments

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| No. | Date | Version | Subject of Amendments | Author |
| 1 | 2017-09-29 | M2 | Initial | Csaba Hegedűs |

# Quality Assurance

|  |  |  |  |
| --- | --- | --- | --- |
| No. | Date | Version | Approved by |
| 1 |  |  |  |
| 2 |  |  |  |