TokenGeneration M3 REST-JSON-TLS

**Abstract**

This document defines interface design of the TokenGeneration M3 Service based on REST.

1. Overview

This document describes the TokenGeneration Service of G3.2 with 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 is one method implemented. Table 1 describes this method.

Table 1 Function description

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Function** | **URL subpath** | **Method** | **Input** | **Output** |
| Token  Generation | “/token” | PUT | **TokenGenerataionRequest** | **TokenGenerationResponse**  HTTP OK,  DATA\_NOT\_FOUND,  INTERNAL\_SERVER\_ERROR |

1. Information Model

The TokenGenerationRequest payload has a response payload called TokenGenerationResponse. Examples for these payloads are given here for the REST-JSON-TLS implementation. If the TokenGenerationRequest does not define the consumerCloud field, then it is assumed the consumer is in the Local Cloud. Duration “0” means the token is valid without a time limitation.

# 3.1. TokenGenerationRequest

{

"consumer": {

"systemName": "Client1",

"address": "127.0.0.1",

"port": 8080

},

"providers": [{

"systemName": "SecureTemperatureSensor",

"address": "127.0.0.1",

"port": 8455,

"authenticationInfo": ”Base64 encoded public key”

}],

"service": {

"serviceDefinition": "IndoorTemperature",

"interfaces": [

"json"

],

"serviceMetadata": {

"unit": "celsius",

"security": "token"

}

},

"duration": 0

}

# 3.2. TokenGenerationResponse

{

"tokenData": [{

"signature": "eyZGL8Yv6AlNXXahPHHLV+KkK8VTd9plbl44ySzp6qcV2ubwrtgo8tEaCAGn0Vg71K8iRom56vDIQ2bOggZ3qLgX+xHYY4DgQjIwjwgUVE+3Vmc8EXITblFj51800eKWzQ9XflFEWkR/qq1t9A9eB+/0P4Cg6UXqxdcMTKcehlCAxwjNo7/E1b63VvZ9kxtPceb6A01E6KUrHlLtyJnlvlw4BTe0atTGh1Ds0nmgyKFdwNY90kX7jbS2gI7CodZkZgVQCuVMjFvh4esVKO+unrd4jkm7+KFK7JEXgc1ua/yoMobsxgwyi8RrlaCCvtW/yMVMK2Ge39t/6iVHTlIS9A==",

"system": {

"systemName": "SecureTemperatureSensor",

"address": "127.0.0.1",

"port": 8455,

"authenticationInfo": ”Base64 encoded public key”

},

"token": "IiF+jPtH9Ju5ZFJT6eTzqK2kw/mxOLAKAFTQyEwY+vvISjcwgkikpiW0RB29VNwhpwqIDF2VkyKc+iEepJfWWh3ZwUcu/c9FiJj8Sk8q2MVxXww+Cc7wnHvBkNNrz/M2rdUtysmIcdcVAPc1ZBrXli0BXNIIk9M8z03k7WOiAwLhV6yiOwLJvkFlUioCfBkn/VpbypAXR0nbVCjbgWfmrVfXQ4H294BtuIKs6v42vZaLYmDhVrnotINGOOxOvYZVeqP4iG8rlvGkVAFvnoAoSSSF5kiMkjCyc5bUOi095nB6xJ2jzPkw4w0wUvxn81hZLeWg39QaShavWOpUk+bp5w=="

}]

}

1. Revision history

# Amendments

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| No. | Date | Version | Subject of Amendments | Author |
| 1 | 2017-10-02 | M2 | Initial | Csaba Hegedűs |
| 2 | 2018-02-14 | M3 | Updating document to M3 | Csaba Hegedűs |

# Quality Assurance

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