Arrowhead Proxy Service IDD

**Abstract**

This document defines interface design of the Proxy Service based on the REST approach within Arrowhead Framework generation 4.0.

1. Overview

This document describes the Proxy Service of G4.0 with a REST-based interface.

This interface can use HTTP and HTTPS

1. Interfaces

As per the SD of this Service, there is two methods implemented. Table 1 describes these methods.

Table 1 Function description

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Function** | **URL subpath** | **Method** | **Input** | **Output** |
| Push | /proxy/{systemName }/{serviceName} | PUT | **SensorData** | HTTP OK, BAD\_REQUEST NOT\_AUTH |
| Fetch | /proxy/{systemName }/{serviceName} | GET | **SensorData** | HTTP OK, BAD\_REQUEST  NOT\_AUTH |

1. Information Model

The SensorData request payload contains generic sensor data. SensorData normally contains information about the unit, source system, timestamp and metadata. The default payload type is JSON-encoded SenML (RFC 8428). The response to a Store/ Retrieve request is a simple HTTP/CoAP status code (Created/OK – request was a success, No Content – request had no effect). For the Push function, the content-type must be set to ‘application/json’. For Fetch, the response content-type is ‘application/json’.

# 3.1. SensorData Store- SenML request

[

{"bn":" TempSys23433:","bt":1.276020076001e+09, "bu":"Cel","bver":5,

"n":" IndoorTemperature ","u":"Cel","v":22.1},

{"n":" IndoorTemperature ","t":-5,"v":22.2},

{"n":" IndoorTemperature ","t":-4,"v":22.4}

]

1. Revision history

# Amendments

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| No. | Date | Version | Subject of Amendments | Author |
| 1 | 2018-09-17 | G4.0 | Initial | Jens Eliasson |
| 2 | 2018-10-30 | G4.0 | Text update | Jens Eliasson |
| 3 | 2019-03-20 | G4.0 | Updated data model to RFC 8428 | Jens Eliasson |
| 4 | 2020-05-27 | G4.1.3 | Updated text | Jens Eliasson |
|  |  |  |  |  |

# Quality Assurance

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