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, HTTPS, CoAP, and CoAPS.

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** |
| Upload message | “/proxy/{name}” | PUT | **Upload** | HTTP OK, BAD\_REQUEST NOT\_AUTH |
| Download message | “/proxy/{name}”” | GET | **Download** | HTTP OK, BAD\_REQUEST  NOT\_AUTH |

1. Information Model

The Upload payload consists of a SenML-compliant. The *bn* field must match the Arrowhead producer system name. The uploader immediately receives a HTTP\_OK response (if the payload passes the sanity checks. It will also receive an UploadResponse, after the upload process has finished. Any errors are sent back to the uploading system. The err response tag will contain information about any errors regarding faulty semantics, incorrect message format etc. An “ok” response means no errors occurred.

# 3.1. Message

[

{"bn":"urn:sys:name:lc2monitor:","bt":1.276020076001e+09,

"bu":"A","bver":5,

"n":"voltage","u":"V","v":120.1},

{"n":"current","t":-5,"v":1.2},

{"n":"current","t":-4,"v":1.3},

{"n":"current","t":-3,"v":1.4},

{"n":"current","t":-2,"v":1.5},

{"n":"current","t":-1,"v":1.6},

{"n":"current","v":1.7}

]

# 3.2. UploadResponse

{

"err" : “ok”

}

1. Revision history

# Amendments

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| No. | Date | Version | Subject of Amendments | Author |
| 1 | 2018-09-17 | G4.0 | Initial | Jens Eliasson |
|  |  |  |  |  |

# Quality Assurance

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