EventPublishing Service IDD

**Abstract**

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

1. Overview

This document describes the EventPublishing Service of G4.0 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.

The base URL for the requests: http://<host>:<port>/eventhandler.

Table 1 Function description

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Function** | **URL subpath** | **Method** | **Input** | **Output** |
| Token  Generation | “/publish” | POST | **PublishEvent** | HTTP OK, BAD\_REQUEST |

1. Information Model

The PublishEvent payload consists of a source (ArrowheadSystem), the event itself, and an optional subpath the EventHandler can use to asynchronously send back the results of the event propagation. The publisher immediately receives a HTTP\_OK response (if the payload passes the sanity checks), and if a subpath was given, it will also receive a Map, after the event propagation is finished. The Map contains the URLs where the event was sent, and a Boolean indicating the success of these HTTP requests.

# 3.1. PublishEvent

{

"source" : {

"systemName" : "InsecureSubscriber",

"address" : "0.0.0.0",

"port" : 8462

},

"event" : {

"type" : "temperature",

"payload" : "21 degrees celsius",

"timestamp" : "2018-05-22T13:16:32.496"

},

"deliveryCompleteUri" : "publisher/feedback"

}

# 3.2. EventPublishingResponse

{

"http://0.0.0.0:8464/notify" : true,

"http://10.0.0.71:8464/notify" : false,

}

1. Revision history

# Amendments

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| No. | Date | Version | Subject of Amendments | Author |
| 1 | 2018-05-22 | G4.0 | Initial | Zoltán Umlauf |
|  |  |  |  |  |

# Quality Assurance

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