Arrowhead EventSubscription Service IDD

**Abstract**

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

1. Overview

This document describes the EventSubscription 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 are three methods implemented. Table 1 describe these.

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

Table 1 Function description

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Function** | **URL subpath** | **Method** | **Input** | **Output** |
| Subscribe | “/subscription” | POST | **EventFilter** | HTTP CODE: CREATED, NO\_CONTENT  BAD\_REQUEST |
| Unsubscribe | “/subscription” | PUT | **EventFilter** | HTTP CODE: OK, NO\_CONTENT  BAD\_REQUEST |
| Unsubscribe | /subscription/type/{type} /consumer/{systemName} | DELETE | **—** | HTTP CODE: OK, NO\_CONTENT  BAD\_REQUEST |

1. Information Model

The EventFilter request payload specifies the types of event the Subscriber is interested in receiving. Events can be filtered based on type, source, timestamp and metadata. The response to a subscribe/unsubscribe request is a simple HTTP status code (Created/Ok – request was success, No Content – request had no effect).

# 

# 3.1. EventFilter

{

"eventType" : "temperature",

"consumer" : {

"systemName" : "InsecureSubscriber",

"address" : "0.0.0.0",

"port" : 8464

},

"sources" : [{

"systemName" : "InsecurePublisher",

"address" : "0.0.0.0",

"port" : 8462

}],

"filterMetadata" : { },

"notifyUri" : "notify",

"matchMetadata" : false

}

# 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 |  |  |  |