EventPublishing Service SD

**Abstract**

This document defines the EventPublishing Service functionality within Arrowhead generation 4.0.

1. Service Overview

The EventPublishing Service provides a REST interface to publish events to the Local Cloud. ArrowheadSystems can subscribe to a specific event type to receive newly published events from that type.

1. Abstract Interfaces

This Service provides one functionality.

# Publish

This method is used to publish an event to the Local Cloud through the Event Handler Core System.

1. Abstract Information Model

The response to this Service is optional and asynchronous. The response will happen only after all the Subscribers received the event (or the event sending request failed), and only if the event Publisher asked for the results of the event propagation.

|  |  |
| --- | --- |
| **Field name** | **Description** |
| source | ArrowheadSystem publishing the event. |
| event | The published event, which contains the following fields:   * type: the type of the event, an event ID of sorts * payload: String data of the event * timestamp: date and time of the event * eventMetadata: key-value pairs of additional data about the event |
| deliveryCompleteUri | The URL subpath the Event Handler can use to inform the publisher about the results of the event propagation. If null, the Event Handler will not try to send the results. |

Table 1 - PublishEvent

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| --- | --- |
| **Field name** | **Description** |
| resultMap | A map: the key is the URLs where the event was sent, and the value is a Boolean, indicating whether or not the Event Handler received an acknowledge about the event propagation from the Subscriber. |

Table 2 - EventPublishingResponse

1. Non-functional Requirements

1. Revision history

# Amendments

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

# Quality Assurance

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