| | Document title | Document type |
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| | System Description (SysD) – Eventhanlder-SIB | Template |
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| | Author | Status |
| | Abdullah Aziz | For Approval |
| | Contact | Page |
| | abdullah.aziz@ltu.se | 1 (4) |

ARROWHEAD

# System Description (SysD) – Eventhanlder-SIB

**Abstract**

This document provides the main template for the System Description of Arrowhead compliant Systems. It should be used to define the main services and interfaces of a system, without describing its internal implementation.
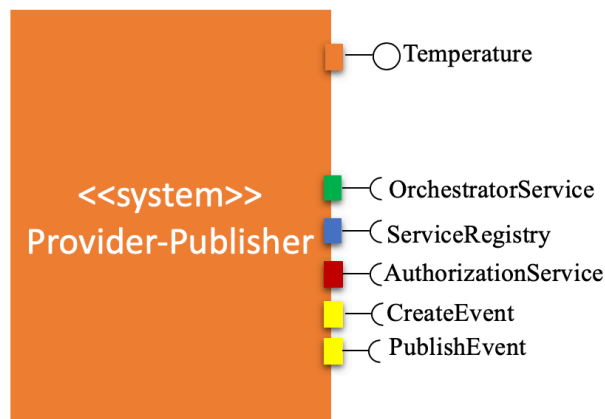
All Arrowhead systems should be specified using this template and stored on a common repository (available on the SVN server), in order to document and formalize the pilot demonstrators and the common Arrowhead framework.

# 1. System Description Overview

The whole system has two main application systems which are as follows.
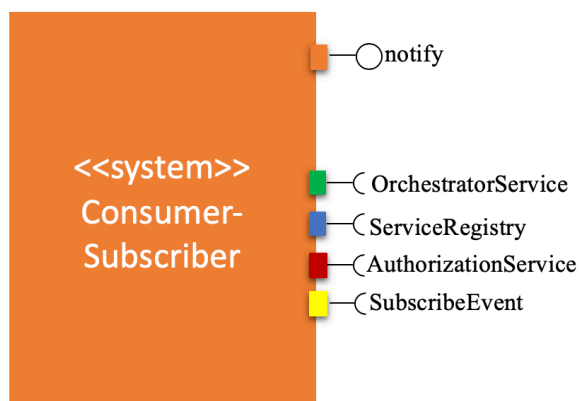
## 1.1.    Provider-Publisher

This system provides services to create an event, and to publish an event. The system consumes services of core components.
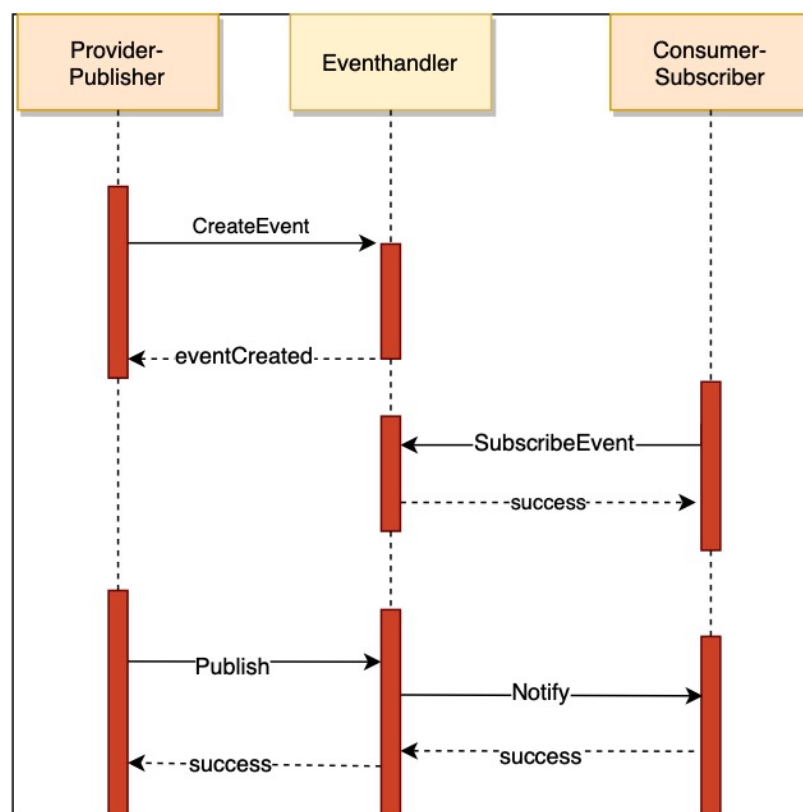


## 1.2.    Consumer-Subscriber

This system subscribes to an event from publisher and authenticate in the authorization. The system consumes services of core components. The subscriber will expose a servicer where it can receive notification from the eventhandler.



# 2. Behaviour Diagrams

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# 3. Application services

This section contains the Produced and Consumed services, which are described on a technology dependent Interface Design Description (IDD) document. An IDD accordingly specifies the details needed for implementation of service providers and consumers for a Service Description (SD) it refers to, appointing specific technology and semantics to be used and any interpretation, selection of parts, etc. – i.e. all details needed for plug and play.

## 3.1. Produced Services

Table 1 Pointers to IDD documents

| Service | IDD Document Reference |
|---|---|
| PublishEvent | IDD Interface Design Description – EventHandler-SIB.docx |
| Notify | IDD Interface Design Description – EventHandler-SIB.docx |

## 3.2.  Consumed Services

**Table 2 Pointers to IDD documents**

| Service | IDD Document Reference |
|---|---|
| CreateEvent | n/a |
| AuthenticateSubscriber | n/a |
| SubscribeEvent | n/a |
| PublishEvent | n/a |

# 4. Security

If the secure option is enabled the system will verify request against the Authorization system. As the system is developed with nodejs implementation, we need to need to add https module to run this as secure mode.

# 5. References

- https://github.com/arrowhead-f/core-java-spring
- https://github.com/misterabdullahAziz/arrwohead-evenhandler-sib

# 6. Revision history

| No. | Date | Version | Subject of Amendments | Author |
|---|---|---|---|---|
| 1 | 2020-01-10 | 0.1 | First draft | Abdullah Aziz |