Arrowhead Python Library SD

**Abstract**

This document defines the Arrowhead Python Library function within Arrowhead generation 4.0.

1. Service Overview

The Arrowhead Python Library contains classes and methods for using the mandatory core services within Arrowhead. This library is suppose to simplify the process of developing services within Arrrowhead.

1. Abstract Interfaces

This library provides two core classes and three bridges to the Arrowhead Core system written in Java.

# Core classes

## Provider

This class creates a provider which gives the user the ability to publish and unpublish services from the Service Registry within Arrowhead.

## Consumer

The Consumer is a class providing the method to subscribe to a provider. When a consumer makes a call to the provider the provider returns its information to the consumer.

# Bridges

## Orchestrator Bridge

The orchestrator bridge contains two important methods of the orchestrator. A method to register services to the orchestrator and requesting a service.

## Authorization Bridge

The authorization bridge contains two important methods of the Authorization Service. This is the ability to register a service and consumer authorization and to authorize a consumer.

## Service Registry Bridge

The service registry bridge contains two methods, these are the methods to publish and unpublish a service from the Service Registry within Arrowhead.

1. Revision history

# Amendments

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| No. | Date | Version | Subject of Amendments | Author |
| 1 | 2019-01-02 | G4.0 | Initial | Emil Vidmark |
| 2 |  |  |  |  |
| 3 |  |  |  |  |

# Quality Assurance

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