Service Description (SD) – Monitorable

**Abstract**

This document defines the template for the Service Description of Arrowhead compliant Services.

A Service Description provides an abstract description of what is needed for systems/devices/units/software to provide and/or consume a specific service.

SD’s for Application Services are created (specified) by the Pilots WP’s and by the common Arrowhead framework. The SD shall make it possible for an engineer with technical programming knowledge to achieve an Arrowhead compliant realization of a provider and/or consumer of description of how the service is implemented/realized by using the Communication Profile and the chosen technologies.

A Service Description (SD) is the Service in a specific technology. All systems/devices/units/software implementing an Interface Design Description which complies with this SD will be able to exchange information with each other.

Table of contents

1. Service Description Overview

2. Abstract Interfaces

3. Abstract Information Model

4. Non-Functional Requirement

5. Revision History

1. Service Description Overview

This document describes the Monitorable service offered by the “Fischertechnik AssemblyLine” system in the arrowhead cloud. This service offers to check the availability of the system in arrowhead cloud.

1. Abstract Interfaces

This section lists the interfaces that must be exposed by the Monitorable service in alphabetical order. In particular, each subsection names an abstract interface, an input type, an output type and a set of possible exceptions, in that order. The input type is named inside parentheses, while the output type is preceded by a colon. Input and output types are only denoted when accepted or returned, respectively, by the interface in question. All abstract data types named in this section are defined in the Information model section.

**2.1 Interface getAllServicesInfo**

Called to check all the available registered service information of the fischertechnik system in the service registry.

**2.2 Interface getServiceInfo**

Called to check the availibity of the particular registered service information of the fischertechnik system in the service registry.

**2.3 Interface Monitor**

Called to check that the application system is alive and responding to service requests.

1. Abstract Information Model

Here, the data objects that can be part of Monitorable service calls are listed in alphabetic order. Note that each subsection, which describes one type of object, begins with the struct or union keywords. The former is used to denote a collection of named fields, each with its own data type, while the latter is used to express that a value is allowed to be any one out of a number of listed variant types. For this service there is one object which is called:

**Service**

JSON object with the following fields.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Field** | **Type** | **Description** | **Mandatory** | **Default** |
| ServiceId | String | The Id of the individual service | True |  |
| SystemId | String | The Id of the application system the particular service is registered to. | True |  |
| ServiceDefinition | String | Definition/name of the service. | True |  |

1. Non-functional Requirements

The service has none non-functional requirements.

1. Revision history

# Amendments

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| No. | Date | Version | Subject of Amendments | Author |
| 1 | 2020-04-25 | 0.1 | First draft | Aparajita Tripathy |

# Quality Assurance

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