Service Description (SD) – Desktop Demonstrator- Servo Position Service

**Abstract**

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

A Service Description provides an 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.

All Arrowhead Service Description 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.

Table of contents

No table of contents entries found.

1. Service Description Overview

This service sets the position of the servo motor to either 90 degrees or 180 degrees based on the temperature value read from one of the provider temperature sensors through the logic residing in the consumer system.

The encrypted JSON object contains the following fields:

{

“Location”: <indoor>

“ServoPosition”: < position in degrees >

}

Where:

“Location” indicates whether it is indoor or outdoor environment.

“ServoPosition” indicates to which position the servo motor should move

1. Abstract Interfaces

This Service provides one functionality.

# POST:

This is used to move the position of the servo with the input sent in service request using POST API.

1. Abstract Information Model

The output of the service is a “String” value.

Table 1 Temperature Service Request

|  |  |
| --- | --- |
| **Field** | **Description** |
| Location | Indoor or Outdoor |
| Position | Position of the Servo Motor |

Table 2 Temperature Service Response

|  |  |
| --- | --- |
| **Field** | **Description** |
| Output | It indicates if the request is received or not. |

1. Non-functional Requirements

The service has none non-functional requirements.

1. Revision history

# Amendments

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| No. | Date | Version | Subject of Amendments | Author |
| 1 | 2020-01-31 | 0.1 | First draft | Aparajita Tripathy |

# Quality Assurance

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