Interface Design Description (IDD) – Desktop Demonstrator- Temperature-Service

**Abstract**

This document defines the template for the Interface Design Description of Arrowhead compliant Interfaces.

An Interface Design Description provides a detailed description of how the service is implemented/realized by using the Communication Profile and the chosen technologies.

All Arrowhead Interface Designs 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.

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1. Interface Design Description Overview

This document describes the temperature service with REST interface. This interface uses HTTPs.

Table 1 Pointers to SD documents

|  |  |
| --- | --- |
| **Service description** | **Path** |
| get-temp |  |

Table 2 Pointers to CP documents

|  |  |
| --- | --- |
| **Communication Profile** | **Path** |
| REST-JSON-TLS |  |

1. Interfaces

The service contains one function for getting the temperature value. The base URL for the request: https://<host>:<port>/temp.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Function | URL subpath | Method | Input | Output |
| Generate | “/temp” | POST | Location  ServiceType | TempValue (Double) |

1. Information Model

**Request:**

{

“Location”:

“ServiceType”:

}

**Response**:

{

“Location”:

“ServiceType”:

“Value”:

}

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 |  |  |  |