Interface Design (IDD) Description\_Arrowhead\_Zwave\_System\_Demonstrator\_DanfossThermostatServices

**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.

Table of contents

[1. Interface Design Description Overview 2](#_Toc377455180)

[2. Interfaces 3](#_Toc377455181)

[3. Information Model 3](#_Toc377455182)

[4. References 3](#_Toc377455183)

[5. Revision history 4](#_Toc377455184)

[5.1. Amendments 4](#_Toc377455185)

[5.2. Quality Assurance 4](#_Toc377455186)

1. Interface Design Description Overview

This document describes the services provided by Thermostat Valve with REST interface. This interface uses HTTPs.

|  |  |
| --- | --- |
| **Service description** | **Path** |
| set-point-thermo |  |
| Set-point-history |  |
|  |  |

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

1. Interfaces

The base URL for the request is: https://<host>:<port>/zwave/thermostats/{id}

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Function | URL subpath | Method | Input | Output | Description |
| SetPointFromThermo | “/set-point-thermo” | POST | serviceType  deviceType | SetPoint (Double) | Post the thermostat value to the thermostat device data manager |
| SetPointHistory | “/set-point-history” | GET |  | SetPoint (Double)  serviceType  deviceType | Get the history of setpoints values posted the manager |

1. Information Model

Example:

**Request:**

{

"serviceType" : "SetPoint",

"deviceType" : "Thermostat"

}

**Response**:

{

“setpoint” : Value

}

1. Revision history

# Amendments

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| No. | Date | Version | Subject of Amendments | Author |
| 1 | 2021-01-6 | 0.1 | First Draft | Salman Javed |

# Quality Assurance

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