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

**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 services provided by Thermostat Valve with REST interface. This interface uses HTTPs.

|  |  |
| --- | --- |
| **Service description** | **Path** |
| get-zwave-devices |  |
|  |  |
|  |  |

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

1. Interfaces

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

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Function | URL subpath | Method | Input | Output | Description |
| ZwaveDeviceList | “/get-zwave-devices” | POST | ServiceType  DeviceType | List | Switch the Plug State ON (255) or OFF (0) store the response Plug device manager |

1. Information Model

Example:

**Request:**

{

"serviceType" : "GetAllDevices",

"deviceType" : "Zwave"

}

**Response**:

Devices are added to the zwave device list with unique ID and type and the Device List is returned.

{

“zwave device id” : 22,

“type” : “thermostat”

,{

“zwave device id” : 23,

“type”: “binary power switch”

}

1. Revision history

# Amendments

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

# Quality Assurance

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