Interface Design (IDD) Description\_Arrowhead\_Zwave\_System\_Demonstrator\_ WallPlug-State-Services

**Abstract**

This document provides the Interface Design Description of Arrowhead compliant Interfaces of Zwave Wall Plug Services.

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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-state |  |
| set-state |  |

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

1. Interfaces

**GetState**:

The base URL for the request is: https://<host>:<port>/zwave

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Function | URL subpath | Method | Input | Output | Description |
| GetState | /plugs/get-state/{deviceID}  ” | GET | deviceID  (String) | deviceID  (String)  State  (String) | Get the Plug state “0” for OFF and “255” for ON for the given deviceID |

**SetState**:

The base URL for the request is: https://<host>:<port>/zwave

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Function | URL subpath | Method | Input | Output | Description |
| SetState | /plugs/set-state/{deviceID}  ” | PUT | deviceID  (String)  State  (String) | UPDATED,  BAD\_REQUEST | Set the Plug state “0” for OFF and “255” for ON for the given deviceID |

1. Information Model

Example: SetState

Request:

{

" deviceID" : “24”,

" State" : "0",

}

Response:

The Plug is switched OFF with resource successfully updated with response of 200=OK

1. Data Model

|  |  |  |
| --- | --- | --- |
| Object Field | Value Type | Description |
| ” deviceID” | [String](#_bookmark12) | Unique ID of the device from 2 to N assigned by the zwave Hat |
| ” state” | String | Plug state “0” for OFF and “255” for ON |

1. Revision history

# Amendments

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| No. | Date | Version | Subject of Amendments | Author |
| 1 | 2021-01-6 | 0.1 | First Draft | Salman Javed |
| 2 | 2021-03-18 | 0.2 | Second draft | Salman Javed |

# Quality Assurance

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