Service Description (SD) Arrowhead Z-wave System Demonstrator – Wall Plug-State-service

**Abstract**

This document provides the Service Description of Arrowhead compliant Interfaces of Zwave Wall Plug Services that includes **GetState, SetState.**

1. Service Description Overview

This service provides the interfaces to get plug state, set the plug state of the wall plug with requested deviceID.

The encrypted JSON object contains the following fields:

Example: SetState

Request:

{

" deviceID" : “24”,

" State" : "0",

}

Response:

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

1. Abstract Interfaces

This Service provides the following five functionalities.

# GetState:

This is used to Get the Plug state “0” for OFF and “255” for ON for the given deviceID using GET API.

# SetState:

Set the Plug state “0” for OFF and “255” for ON for the given deviceID using PUT API.

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. Non-functional Requirements

The service has none non-functional requirements.

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

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