Service Description (SD) Arrowhead Z-wave System Demonstrator – Get Z-wave Devices service

**Abstract**

This document defines the template for the Service Description of Arrowhead compliant Services. A Service Description provides an abstract description of what is needed for systems/devices/units/software to provide and/or consume a specific service. SD’s for Application Services are created (specified) by the Pilots WP’s and by the common Arrowhead framework. The SD shall make it possible for an engineer with technical programming knowledge to achieve an Arrowhead compliant realization of a provider and/or consumer of description of how the service is implemented/realized by using the Communication Profile and the chosen technologies. A Service Description (SD) is the Service in a specific technology. All systems/devices/units/software implementing an Interface Design Description which complies with this SD will be able to exchange information with each other. All Arrowhead Service Description 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.

1. Service Description Overview

This service Add current Zwave devices with unique ID and Type (e.g Thermostat or Plug) into the Zwave Device manager.

The encrypted JSON object contains the following fields:

**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. Abstract Interfaces

This Service provides one functionality.

# POST:

This is used create a new record to add the available z-wave devices connected to the z-wave controller to the z-wave device manager using POST API.

1. Abstract Information Model

The output of the service is a List of devices.

Table 1 Zwave Devices Service Request

|  |  |
| --- | --- |
| **Field** | **Description** |
| serviceType | Get All the Devices connected with the z-wave controller |
| deviceType | Zwave |

Table 2 Zwave Devices Service Response

|  |  |
| --- | --- |
| **Field** | **Description** |
| Output | It gives the List of all the connected devices with their unique IDs and Type |

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 |

# Quality Assurance

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