

# Service Description (SD) Arrowhead Z-wave System Demonstrator – ZwaveController Service

## Abstract

This document defines the Service Description of **live-zwave-devices** and **register-zwave-devices** service which gets the metadata (deviceId, deviceName, deviceType, deviceVendor, deviceVersion) and the services (deviceServices) provided by the device and stores that information into the DataManager respectively.

# 1. Service Description Overview

This service provides interfaces to get and register metadata ( deviceID, deviceName, deviceType, deviceVendor, deviceVersion) and the services (deviceServices) provided by the device for each live device currently connected to the z-wave controller.

The encrypted JSON object contains the following fields:

```
{
  "deviceID" : 24,
  "deviceName" : MainsDevice_24,
  "deviceType" ; Binary Power Switch,
  "deviceVendor" : Fibaro,
  "deviceVersion" : 1.1,
  "deviceServices" : [get-state, set-state, get-power, get-energy-consumption, set-
energy-counter-reset]
```

```
,{
  "deviceID" : 22,
  "deviceName" : DanfossRadiatorThermostat_22,
  "deviceType" ; Thermostat,
  "deviceVendor" : Danfoss
  "deviceVersion" : 1.1,
  "deviceServices" : [get-setpoint, set-setpoint, get-battery-level]
}
```

## 2. Data Model

Object Field	Value Type	Description
" deviceID"	String	Unique ID of the device from 2 to N assigned by the zwave controller / Hat
" deviceName"	String	Name of the device assigned by the zwave controller / Hat
" deviceType"	String	Type of the device
" deviceVendor"	String	Name of device manufacturer
" deviceVersion"	String	Version of the device
"deviceServices"	Array	Array of services provided by the device

## 3. Abstract Interfaces

This Service provides two functionalities.

### 3.1. live-zwave-devices:

This is used to get all the live devices connected with zwave hat in the zwave network after fresh inclusion after exclusion using GET API.

### 3.2. register-zwave-devices:

This is used to register all the live devices connected with zwave hat in the zwave network after fresh inclusion after exclusion using POST API.

## 4. Non-functional Requirements

The service has none non-functional requirements.

## 5. Revision history

### 5.1. Amendments

No.	Date	Version	Subject of Amendments	Author
1	2021-01-6	0.1	First draft	Salman Javed
2	2021-03-17	0.2	Second draft	Salman Javed

## 5.2. Quality Assurance

No.	Date	Version	Approved by
1			