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

Abstract

This document defines the Service Description of **live-zwave-devices** service which gets the metadata (deviceID, deviceName, deviceType, deviceVendor, deviceVersion) and the services (deviceServices) provided by the device.

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 following functionality.

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.

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			