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

Abstract

This document provides the Service Description of Zwave Thermostat services that includes the **GetSetPoint, SetSetPoint, GetBatteryLevel** services.

1. Service Description Overview

This service provides the interfaces to get setpoint value, set the setpoint value and also to get the batterylevel of thermostat with requested deviceID.

The encrypted JSON object contains the following fields:

Example: **GetSetPoint**:

Request:
  {
" deviceID" : "22"
    }

Response:
  {
" deviceID" : "22",

"setpoint" : "15"
}

2. Data Model

Object Field	Value Type	Description
" deviceID"	String	Unique ID of the device from 2 to N assigned by the zwave Hat
" setpoint"	String	SetPoint value of the thermostat in degree Celsius
" batteryLevel"	String	Battery Level in percentage of the thermostat

3. Abstract Interfaces

This Service provides three functionalities.

3.1.   GetSetPoint :

This is used to get the current setpoint value of the thermostat with deviceID provided using GET API.

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3.2. SETSetPoint :

This is used to get the set the setpoint value of the thermostat with deviceID provided using PUT API.

3.3. GetBatteryLevel :

This is used to get the current batterylevel value of the thermostat with deviceID provided 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	2021-03-18	0.2	Second draft	Salman Javed

5.2. Quality Assurance

No.	Date	Version	Approved by
1			