

Interface Design (IDD)

Description_Arrowhead_Zwave_System_Demonstrator_Thermostats-SetPoint-Service

Abstract

This document provides the Interface Design Description of Arrowhead compliant Interfaces of Zwave Thermostat Services.

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1. Interface Design Description Overview

This document describes the services provided by Thermostat Valve with REST interface. This interface uses HTTPs.

Service description	Path
get-setpoint	
Set-setpoint	

Communication Profile	Path
REST-JSON-TLS	

2. Interfaces

GetSetPoint:

The base URL for the request is:
<https://<host>:<port>/zwave>

Function	URL subpath	Method	Input	Output	Description
GetSetPoint	"/thermostats/get-setpoint/{deviceId}"	GET	deviceId (String)	deviceId (String) SetPoint (String)	Get the thermostat setpoint value for the given deviceId

SetSetPoint:

The base URL for the request is:
<https://<host>:<port>/zwave>

Function	URL subpath	Method	Input	Output	Description
SetSetPoint	"/thermostats/set-setpoint/{deviceId}"	PUT	deviceId (String) SetPoint (String)	UPDATED, BAD_REQUEST	Set the thermostat setpoint value for the given deviceId

3. Information Model

Example: **GetSetPoint**:

Request:

```
{  
  "deviceId" : "22"  
}
```

Response:

```
{  
  "deviceId" : "22",  
  
  "setpoint" : "15"  
}
```

4. 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

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			