

# Interface Design (IDD)

## Description\_Arrowhead\_Zwave\_System\_Demonstrator\_Thermostat-BatteryLevel-Services

### 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-battery-level	

Communication Profile	Path
REST-JSON-TLS	

## 2. Interfaces

### GetBatteryLevel:

The base URL for the request is:

https://<host>:<port>/zwave

Function	URL subpath	Method	Input	Output	Description
GetBatteryLevel	"/thermostats /get-battery-level /{deviceId}"	GET	deviceId (String)	deviceId (String)  batteryLevel (String)	Get the thermostat batteryLevel value for the given deviceId

## 3. Information Model

Example: **GetBatteryLevel:**

Request:

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

Response:

```
{
  "deviceId": "22",
```

```
"batteryLevel" : "75"  
}
```

## 4. Data Model

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

## 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			