

Document title Document Interface Design (IDD) type IDD $Description_Arrowhead_Zwave_System_Demonstrator_ThermostatsSetPointServices$ Version 2021-03-18 0.2 Author Status Salman Javed For Approval Contact Page Salman.javed@ltu.se 1 (4)

Interface Design (IDD) Description_Arrowhead_Zwave_System_De monstrator_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	Metho d	Input	Output	Description
GetSetPoin t	"/thermos tats/get- setpoint/{	GET	deviceID (String)	deviceID (String)	Get the thermostat setpoint value for the given deviceID
	deviceID} "			SetPoint (String)	

SetSetPoint:

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

Function	URL subpath	Method	Input	Output	Description
SetSetPoin	"/thermostat	PUT	deviceID	UPDATED	Set the thermostat setpoint
t	s/set-		(String)	,	value for the given
	setpoint/{de			BAD_REQ	deviceID
	viceID}"		SetPoint	UEST	
	_		(String)		

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3. Information Model

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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

1	No.	Date	Version	Subject of Amendments	Author
1	[2021-01-6	0.1	First Draft	Salman Javed
2	2	2021-03-18	0.2	Second Draft	Salman Javed

5.2. Quality Assurance

No.	Date	Version	Approved by
1			