

Document title Document type

Service Description (SD) Arrowhead Z-wave System Demonstrator - Wall Plug Energy

service

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For Approval

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Service Description (SD) Arrowhead Z-wave System Demonstrator – Wall Plug Energy service

Abstract

This document provides the Service Description of Arrowhead compliant Interfaces of Zwave Wall Plug Services that includes GetPower, GetEnergyConsumption, SetEnergyCounterReset.



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1. Service Description Overview

This service provides the interfaces to get the KW power of the device connected with the plug, get KWH energy consumption of the device connected to the plug and also reset the energy consumption counter of the wall plug with requested deviceID.

The encrypted JSON object contains the following fields:

2. Abstract Interfaces

This Service provides the following five functionalities.

2.1. GetPower:

Get the Plug power (the power of the device connected to the plug) in KW for the given deviceID GET API.

2.2. GetEnergyConsumption:

Get the Plug energy consumption (the energy consumed by the device connected to the plug) in KWH for the given deviceID GET API.

2.3. SetEnergyCounterReset:

Set the Plug energy counter reset for the given deviceID using PUT API.



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3. Data Model

Object Field	Value Type	Description
" deviceID"	String	Unique ID of the device from 2 to N assigned by the zwave Hat
" power"	String	Plug power (the power of the device connected to the plug) in KW
"energyConsumption"	String	Plug energy consumption (the energy consumed by the device connected to the plug) in KWH

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			