RPM-JSON-CUSTOM-HTTP-SECURE\_AC

**Abstract**

This document defines the Interface Design Description of a RPM controller service.

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1. Interface Design Description Overview

This document must describe how to realize the service, pointing out the technologies and the Communication Profile to be used.

Table 1 Pointers to SD documents

|  |  |
| --- | --- |
| **Service description** | **Path** |
| RPM | RPM Service 1.0 |

Table 2 Pointers to CP documents

|  |  |
| --- | --- |
| **Communication Profile** | **Path** |
| HTTP-NONE | - |

Table 3 Pointers to SP documnets

|  |  |
| --- | --- |
| **Semantic Profile** | **Path** |
| - | Custom semantic profile. |

1. Interfaces

Table 4 Function description

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Function | Method URL | Method type | Input | Output |
| setRPM | /rpm | POST | RPMInput | RPMOutput  (200 OK) |

The main service interface is accessible via a POST request to the service URL. The data is to be sent in a proprietary JSON format (no ontology or standard-based semantic profile).

The service interface consists of “/baseURL/methodURL”, where the baseURL is service provider instance specific, and is registered in the Service Registry under baseURI.

The method URL is provided in section

1. Information Model

# RPMInput

|  |
| --- |
| RPMInput |
| -RPM:Integer |

Example request payload:

{

"RPM": 10000

}

# RPMOutput

|  |
| --- |
| RPMOutput |
| -CurrentRPM:Integer |

Example response: 200 OK,

{

"currentRPM": 10000

}

1. Security

This Service is configured to work in secured mode, and implements the Arrowhead access token as well.

The Arrowhead token is implemented as service URL path parameter.

1. Revision history

# Amendments

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| No. | Date | Version | Subject of Amendments | Author |
| 1 | 22-11-2018 | 1.0 | Draft | Crisitna Paniagua |
| 2 | 23-11-2018 | 1.1 | Fixes | Csaba Hegedűs |

# Quality Assurance

|  |  |  |  |
| --- | --- | --- | --- |
| No. | Date | Version | Approved by |
| 1 |  |  |  |
| 2 |  |  |  |