Semantic Profile (SP) – Energy Forecast

**Abstract**

This document defines the template for the Semantic Profile of Arrowhead compliant services.

The Semantic Profile is describing the data format by pointing out what is the type of the encoding (e.g., JSON, XML, EXI compressed XML).

All Arrowhead Semantic Profiles should be specified using this template and stored on a common repository (available on the SVN server), in order to document and formalize the pilot demonstrators and the common Arrowhead framework.

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1. Overview

The energy forecast system uses JSON / XML messages.

1. Data Format

Example message with energy forecast:

{

"entry" : [ {

"outTemp" : 18.5,

"total" : 2.844743,

"water" : 0.19947559,

"timestamp" : 1534752000,

"building" : 1

} ],

"tstart" : 1534752000,

"tend" : 1534752000

}

Table 1 List of XML Schemas

|  |  |
| --- | --- |
| Schema | Location |
| Energy Forecast | energy.xsd |

1. Standards and Demarcations

Table 2 List of specifications

|  |  |  |
| --- | --- | --- |
| Specification | Type | Version |
| eXtensible Markup Language (XML) | W3C Specification | 1.0 |

1. Revision history

# Amendments

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| No. | Date | Version | Subject of Amendments | Author |
| 1 | 2017-12-12 | 0.1 | First draft | Thomas Pedersen |
| 2 | 2018-05-29 | 0.3 | Updated to learning algorithm. | Thomas Pedersen |
| 3 | 2018-08-20 | 0.4 | Updated to Arrowhead 4.0 | Thomas Pedersen |

# Quality Assurance

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