

Document title
System Description (SysD) – SoSD Wind Farm

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System Description (SysD) – SoSD Wind Farm

Abstract

This document provides the main template for the System Description of Arrowhead compliant Systems. It should be used to define the main services and interfaces of a system, without describing its internal implementation.

All Arrowhead systems 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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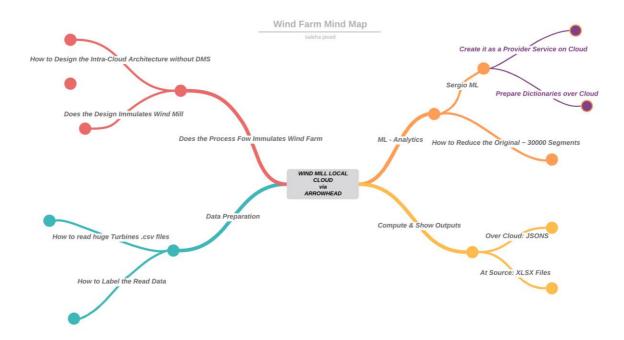
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1. System Description Overview

The designed system captures the windfarm data via sensors values and performs analytics on them to compute spiking values. Aim is to get anomaly detection using arrowhead core systems.

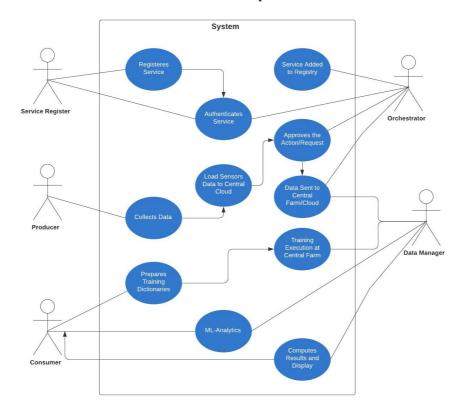




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2. Behaviour Diagrams

Generic overview of the behaviour of all components is shown below:



3. Application services

This application has two services by producer and three by the consumer.

3.1.1. Produced Services

Table 1 Pointers to IDD documents

Service	IDD Document Reference	
1. MLComp1234		
	API End Point:	
	http://localhost:8443/serviceregistry/register	
2. Analytics		
	<pre>@app.route('/analytics/average', methods=['GET'])</pre>	
	Output_json = jsonify	

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3.1.2. Consumed Services

Table 2 Pointers to IDD documents

Service	IDD Document Reference		
1. Authorize	@app.route('/Consumer/authorize',		
	methods=['GET'])		
	<pre>@app.route('/authenticate', methods=['GET'])</pre>		
2. Register	@app.route('/register', methods=['GET'])		
3. Orchestrate	<pre>@app.route('/orchestrate', methods=['GET'])</pre>		

4. Security

System was executed in insecure mode.

5. Revision history

5.1. Amendments

No.	Date	Version	Subject of Amendments	Author
1	2020-03	0.1	Final draft	Saleha Javed

5.2. Quality Assurance

No.	Date	Version	Approved by
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