	Document title	Document type
	Sensor Retrieval Application System	**SysD**
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	2024-01-04	**4.6.1**
	Author	Status
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Sensor Retrieval Application System

System Description

Abstract

This document provides system description for the **Sensor Retrieval Application System**.

Document title
Sensor Retrieval Application System
Date
2024-01-04

Version
4.6.1
Status
RELEASE
Page
2 (7)

Contents

1   Overview

This document describes the Sensor Retrieval Application System, which exists to demonstrate a created digital twin. This system will consume a service running on a digital twin that in will return the lates sensor data that has been received from the relevant physical twin.

   The rest of this document is organized as follows. In Section 1.1, we describe the intended usage of the system. In Section 1.2, we describe delimitations of capabilities of the system. In Section 2, we describe the abstract service operations consumed by the system. In Section 3, we describe the security capabilities of the system.

1.1   How This System Is Meant to Be Used

This system provides a command line interface, that makes it possible to send a request to get sensor data to the digital twin as demonstration purposes.

1.2   Important Delimitations

No delimitations.

Document title
Sensor Retrieval Application System
Date
2024-01-04

Version
4.6.1
Status
RELEASE
Page
4 (7)

2   Services consumed

2.1   service temperature

The Sensor Retrieval system orchestrates for a temperature service, if found a request will be sent to the digital twin, to get the temperature data.

Document title
Sensor Retrieval Application System
Date
2024-01-04

Version
4.6.1
Status
RELEASE
Page
5 (7)

3 Security

The security of Eclipse Arrowhead - and therefore the security of Sensor Retrieval - is relying on X.509 certificate trust chains. The Arrowhead trust chain consists of three level:

- Master certificate: `arrowhead.eu`

- Cloud certificate: `my-cloud.my-company.arrowhead.eu`

- Client certificate: `my-client.my-cloud.my-company.arrowhead.eu`

For Arrowhead certificate profile see `https://github.com/eclipse-arrowhead/documentation`

Document title
Sensor Retrieval Application System
Date
2024-01-04

Version
4.6.1
Status
RELEASE
Page
6 (7)

4   References

Document title
Sensor Retrieval Application System
Date
2024-01-04

Version
4.6.1
Status
RELEASE
Page
7 (7)

5 Revision History

5.1 Amendments

No.	Date	Version	Subject of Amendments	Author
1	YYYY-MM-DD	4.6.1		Xxx Yyy

5.2 Quality Assurance

No.	Date	Version	Approved by
1	YYYY-MM-DD	4.6.1	