

Controller Application System

System Description

Abstract

This document provides system description for the **Controller Application System**.

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1 Overview

This document describes the Controller Application System, which exists to demonstrate a created digital twin. This system will consume a service running on a digital twin that in turn will send a control command to a 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 control commands to the digital twin as demonstration purposes.

1.2 Important Delimitations

No delimitations.

2 Services consumed

2.1 service **lamp**

The controller system orchestrates for a lamp service, if found a turn on or turn off command can be sent.

3 Security

The security of Eclipse Arrowhead - and therefore the security of Controller - 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>

4 References

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	