Document title		Document type	
Light		**SysD**	
Date		Version	
2024-01-04		**4.6.0**	
Author		Status	
Lukas Ledin		**RELEASE**	
Contact		Page	
lukled-9@student.ltu.se		**1 (3)**	

Light

System Description

Abstract

This document provides system description for the **Light**.

Document title
Light
Date
2024-01-04

Version
4.6.0
Status
RELEASE
Page
2 (3)

Contents

Document title
Light
Date
2024-01-04

Version
4.6.0
Status
RELEASE
Page
3 (3)

1   Overview

This document describes the Light application system with the purpose of subscribing on a topic ("notification") and based on payload either turn on or off.

2   Services consumed

2.1   service subscribe

Consumes the eventhandlers subscribe service.

3   Security

The security of Eclipse Arrowhead - and therefore the security of Light - 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`

- Example: `lightsubscriber.arrowhead.ltu.arrowhead.eu`

The system sets up a filter that is responsible for validating whether the received HTTPS requests are coming from one of the local cloud's clients based on its certificate.