XXX

System Description

Abstract
This is the template for System Description (SysD document) according to the Eclipse Arrowehad documentation structure.

Contents

1 Overview

This document describes the [XX] system, which provides [brief description of system functionality]. Prefereable make use of SysML/UML use case diagram.

The rest of this document is organized as follows. In Section 1.1, we reference major prior art capabilitites of the system. In Section 1.2, we the intended usage of the system. In Section 1.3, we describe fundmental properties provided by the system. In Section 1.4, we describe de-limitations of capabilitites ofn the system. In Section 2, we describe the abstract service functions consumed or produced by the system. In Section 3, we describe the security capabilitites of the system.

1.1 Significant Prior Art

Describe significant prior art which provides the foundation for the system - May be omitted for simple services

1.2 How This System Is Meant to Be Used

Describe intended usage of the system. Usage scenarios shall be described. Preferable a SysML/UML blaock diagram of the System should be provided. See the SysML profile and library (github.com/eclipse-arrowhead/profile-library-sysml) for support on how such block diagram should look like. Suitable tools are Eclipse Papyrus and MagicDraw.

1.3 System functionalities and properties

Narrative describe system functionalities and properties (no implmentation details) like e.g.:

1.3.1 Functional properties of the system
1.3.2 Configuration of system properties
1.3.3 Data stored by the system

Brief overview of data stored to achive the functionality of the system.

1.3.4 Non functional properties

- security,
- safety,
- energy consumption,
- latency
- Power saving properties,

1.3.5 Stateful or stateless

- states preserved, functional and non-functional

1.4 Important Delimitations

Provide delimitations of the provided system. Describe what the system solve and what i does not solve.

2 Services

This section describes consumed and produced service. In particular, each subsection names a prodiuced or consumed service indicating the different capabilities and associated interfaces of the service. Reference to the appropriate SD document shall be made.

2.1 Produced service

with references to SD and IDD documents

2.2 Consumed services

with references to SD and IDD documents

3 Security

Overview of security leel chosen for the system
The follwoing bullets should be covered

- If the system can be started in un-secure and/or Arrowhead secure mode.
- Handling of Arrowhead compliant and non-compliant X.509 certificates.

3.1 Security model

The following points should be described:

- protocol supported
- data protection supported
- system authentication capability supported
- produced service authorisation checking,
- etc.

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

4 Revision History

4.1 Amendments

Revision history and Quality assurance as per examples below

No.	Date	Version	Subject of Amendments	Author
1	2020-12-05	X.Y.Z		Tanyi Szvetlin
2	2021-07-14	X.Y.Z	Minor updates	Jerker Delsing
3	2022-01-12	X.Y.Z	Minor updates	Jerker Delsing

4.2 Quality Assurance

No.	Date	Version	Approved by
1	2022-01-10	X.Y.Z	