

XXX

System Description

Abstract

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

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1 Overview

This document describes the [XX] system, which provides [brief description of system functionality]. Preferable 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 capabilities of the system. In Section 1.2, we the intended usage of the system. In Section 1.3, we describe fundamental properties provided by the system. In Section 1.4, we describe de-limitations of capabilities 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 capabilities 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 block 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

Describe system functionalities and properties like e.g.:

1.3.1 Functional properties of the system

1.3.2 Configuration of the system

Available parameters

1.3.3 Data stored by the system

Brief overview of data stored to achieve 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 it does not solve.

2 Services

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

3 Security

- If the system can be started in un-secure and/or Arrowhead secure mode.
- Handling of Arrowhead compliant and non-compliant X.509 certificates.
- Implemented security model shall be described, protocol used, data protection used, system authentication capability, produced service authorisation checking, etc.

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



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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	