EULYNX Initiative

EULYNX Documentation Plan

Contents

ID	Type	Requirement	Description	Document format	Cenelec Ph.	Resp. Cluster
Eu.Doc.55	Head	**1 Introduction**				
Eu.Doc.57	Head	**1.1 Release information**				
Eu.Doc.58	Info	[Eu.Doc.11] EULYNX Documentation plan Cenelec Phase: 1-5 Version: 4.1 (0.A) Approval date: 15.06.2023				
Eu.Doc.84	Info	**Version history**				
Eu.Doc.122	Info	version number: 4.0 (0.A) date: 17.05.2022 author: Mirko Blazic, Nico Huurman review: CCB changes: EUAR-534				
Eu.Doc.123	Info	version number: 4.1 (0.A) date: 27.06.2023 author: Nico Huurman review: CCB changes: EUAR-522, EUAR-564, EUAR-604, EUAR-613				
Eu.Doc.59	Head	**1.2 Impressum**				
Eu.Doc.60	Info	Publisher: **EULYNX Initiative** A full list of the **EULYNX Partners** can be found on www.eulynx.eu/index.php/members				
Eu.Doc.61	Info	Responsible for this document: EULYNX Project Management Office www.eulynx.eu				
Eu.Doc.83	Info	Copyright EULYNX Partners All information included or disclosed in this document is licensed under the European Union Public Licence EUPL, Version 1.2 or later.				

ID	Type	Requirement	Description	Document format	Cenelec Ph.	Resp. Cluster
Eu.Doc.62	Head	**1.3 Purpose**				
Eu.Doc.63	Info	The purpose of this document is to list, identify and define all documents developed by EULYNX.				
Eu.Doc.64	Head	**1.4 Appendices**				
Eu.Doc.65	Info	[A1] Eu.Doc.11_A1 Appendix A1 Documentation plan and structure				
Eu.Doc.56	Head	**2 Documents**				
Eu.Doc.6	Info	EULYNX Concept	Definition of the concept and purpose of EULYNX.	Text based-DOORS	1	Ref. Arch.
Eu.Doc.7	Info	EULYNX System definition	Definition of the EULYNX system, its subsystems and adjacent systems. Concept and basic system functions are described.	Text based-DOORS	2	Ref. Arch.
Eu.Doc.9	Info	EULYNX Glossary	Glossary of terms and abbreviations	Text based-DOORS Table / List	1-5	Ref. Arch.
Eu.Doc.10	Info	EULYNX Domain Knowledge	Provision of the domain knowledge relevant for textual and modelled specifications of the EULYNX project.	Text based-DOORS	1-5	Ref. Arch.
Eu.Doc.11	Info	EULYNX Documentation plan	List and structure of EULYNX documents	Text based-DOORS	1-5	Ref. Arch.
Eu.Doc.12	Info	EULYNX Reference document list	List of all external documents/standards referenced by EULYNX specifications	Text based-DOORS	1-5	Ref. Arch.
Eu.Doc.13	Info	EULYNX Specification of RAMS requirements	Specification of RAMS requirements for the EULYNX system.	Text based-DOORS	4	Ref. Arch.

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Eu.Doc.14	Info	EULYNX Risk analysis Concept	Concept on risk analysis within the EULYNX system.	Text based-DOORS	3	Ref. Arch.
Eu.Doc.15	Info	EULYNX Security Concept	Concept on establishing security within the EULYNX System.	Text based-DOORS	2	Ref. Arch.
Eu.Doc.16	Info	EULYNX System architecture specification	The specification of the system architecture for the EULYNX system. This document provides the guideline for all interface and subsystem specifications.	Text based-DOORS	4	Ref. Arch.
Eu.Doc.18	Info	Maintenance and data management specification	Specification of all functional, non-functional and technical requirements of the subsystem Maintenance and data management.	Text based-DOORS	4	Ref. Arch.
Eu.Doc.20	Info	Generic interface and subsystem requirements	Specification of generically defined interface and subsystem requirements for basic functionality	Model based-PTC Modeller Text based-DOORS	4	Ref. Arch.
Eu.Doc.119	Info	Generic interface and subsystem requirements for SCI	Specification of generically defined interface and subsystem requirements for SCI	Model based-PTC Modeller Text based-DOORS	4	Ref. Arch.
Eu.Doc.120	Info	Generic interface and subsystem requirements for SMI	Specification of generically defined interface and subsystem requirements for SMI	Model based-PTC Modeller Text based-DOORS	4	Ref. Arch.
Eu.Doc.92	Info	Interface definition SCI	The top level Cenelec Phase 5 document, presenting the definition of the SCI interfaces	Text based-DOORS	5	Ref. Arch.
Eu.Doc.93	Info	Interface specification SCI Generic	The generic interface specification for SCI interfaces	Text based-DOORS	5	Ref. Arch.
Eu.Doc.77	Info	Interface definition SDI	The generic definition of the SDI interface, applied to all SDI-XX interfaces.	Text based-DOORS	5	Ref. Arch.

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Eu.Doc.94	Info	Interface specification SDI Generic	The generic interface specification for SDI interfaces	Text based-DOORS	5	Ref. Arch.
Eu.Doc.76	Info	Interface definition and specification SMI	The generic definition and specification of the SMI interface, applied to all SMI-XX interfaces.	Text based-DOORS	5	Ref. Arch.
Eu.Doc.21	Info	Concept for diagnostics	Concept for diagnostic and monitoring functions of each subsystem of EULYNX.	Text based-DOORS	2	Ref. Arch.
Eu.Doc.100	Info	Specification of Point of Service-Signalling	Functional and technical requirements of the point of service.	Text based-DOORS	4	Ref. Arch.
Eu.Doc.25	Info	Guideline for network architecture	Non-mandatory description of network architecture to implement the communication system.	Text based-DOORS	4	Ref. Arch.
Eu.Doc.27	Info	System engineering process	Description of the engineering process and tooling platform applied in EULYNX.	Text based-DOORS	1-5	M&T
Eu.Doc.28	Info	Variability and configuration management	Description of the variability and configuration management applied in EULYNX.	Text based-DOORS	1-5	M&T
Eu.Doc.29	Info	Interpretation rules for model-based requirements	Guideline on interpretation of the model based requirements	Text based-DOORS	4-5	M&T
Eu.Doc.30	Info	Modelling standard	Description of modelling methodology and language applied in EULYNX.	Text based-DOORS	4-5	M&T
Eu.Doc.31	Info	Verification and validation plan	Verification and validation process for modelled specifications. Generic document relevant for all EULYNX partners.	Text based-DOORS	2-5	M&T

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Eu.Doc.32	Info	Requirements specification for subsystem Light Signal	Specification of the functional, non-functional and technical requirements for the subsystem Light Signal and functional requirements for interface SCI-LS	Model based-PTC Modeller Text based-DOORS	4	SCI-LS
Eu.Doc.33	Info	Interface specification SCI-LS	The technical requirements for the process data interface SCI-LS	Text based-DOORS	5	SCI-LS
Eu.Doc.78	Info	Interface specification SDI-LS	The interface specification for the interface SDI-LS	Text based-DOORS	5	SCI-LS
Eu.Doc.37	Info	Signal aspect table	Reference to all required signal aspects to be used by all EULYNX clusters	Table / List	4-5	SCI-LS
Eu.Doc.36	Info	Requirements specification for subsystem Point	Specification of the functional, non-functional and technical requirements for the subsystem Point and functional requirements for interface SCI-P	Model based-PTC Modeller Text based-DOORS	4	SCI-P
Eu.Doc.38	Info	Interface specification SCI-P	The technical requirements for the process data interface SCI-P.	Text based-DOORS	5	SCI-P
Eu.Doc.80	Info	Interface specification SDI-P	The interface specification for the interface SDI-P	Text based-DOORS	5	SCI-P
Eu.Doc.108	Info	Requirements specification for subsystem Level Crossing	Specification of the functional, non-functional and technical requirements for the subsystem Level Crossing and functional requirements for interface SCI-LC	Model based-PTC Modeller Text based-DOORS	4	SCI-LC
Eu.Doc.109	Info	Interface specification SCI-LC	The technical requirements for the process data interface SCI-LC	Text based-DOORS	5	SCI-LC
Eu.Doc.110	Info	Interface specification SDI-LC	The interface specification for the interface SDI-LC	Text based-DOORS	5	SCI-LC

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Eu.Doc.111	Info	Requirements specification for External Level Crossing System	Specification of the functional requirements for the interface SCI-LX	Model based-PTC Modeller Text based-DOORS	4	SCI-LX
Eu.Doc.112	Info	Interface specification SCI-LX	The technical requirements for the process data interface SCI-LX	Text based-DOORS	5	SCI-LX
Eu.Doc.41	Info	Requirements specification for SCI-ILS	Specification of the functional requirements for the interface SCI-ILS	Model based-PTC Modeller Text based-DOORS	4	SCI-ILS
Eu.Doc.42	Info	Interface specification SCI-ILS	The technical requirements for the process data interface SCI-ILS.	Text based-DOORS	5	SCI-ILS
Eu.Doc.43	Info	Requirements specification for subsystem Train Detection System	Specification of the functional, non-functional and technical requirements for the subsystem Train Detection System and functional requirements for interface SCI-TDS	Model based-PTC Modeller Text based-DOORS	4	SCI-TDS
Eu.Doc.44	Info	Interface specification SCI-TDS	The technical requirements for the process data interface SCI-TDS.	Text based-DOORS	5	SCI-TDS
Eu.Doc.81	Info	Interface specification SDI-TDS	The interface specification for the interface SDI-TDS	Text based-DOORS	5	SCI-TDS
Eu.Doc.45	Info	Requirements specification for subsystem Generic IO	Specification of the functional, non-functional and technical requirements for the subsystem Generic IO and functional requirements for interface SCI-IO	Model based-PTC Modeller Text based-DOORS	4	SCI-IO
Eu.Doc.46	Info	Interface specification SCI-IO	The technical requirements for the process data interface SCI-IO.	Text based-DOORS	5	SCI-IO
Eu.Doc.82	Info	Interface specification SDI-IO	The interface specification for the interface SDI-IO	Text based-DOORS	5	SCI-IO

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Eu.Doc.47	Info	Requirements specification for SCI-RBC	Specification of the functional requirements for the interface SCI-RBC	Model based-PTC Modeller Text based-DOORS	4	SCI-RBC
Eu.Doc.48	Info	Interface specification SCI-RBC	The technical requirements for the process data interface SCI-RBC	Text based-DOORS	5	SCI-RBC
Eu.Doc.49	Info	Requirements specification for SCI-CC	Specification of the functional requirements for the interface SCI-CC	Model based-PTC Modeller Text based-DOORS	4	SCI-CC
Eu.Doc.50	Info	Interface specification SCI-CC	The technical requirements for the process data interface SCI-CC	Text based-DOORS	5	SCI-CC
Eu.Doc.51	Info	EULYNX Data preparation requirements	Specification of requirements for EULYNX data preparation.	Text based-DOORS	2	Data Prep
Eu.Doc.114	Info	EULYNX Security Specification	Specification for the security requirements on the EULYNX architecture, including communication interfaces and system components, as well as required processes.	Text based-DOORS	4	Security
Eu.Doc.115	Info	EULYNX Security Parameter Specification	Specification of detailed requirements for parametrisation related to security.	Text based-DOORS	4	Security
Eu.Doc.116	Info	EULYNX Security Threat and Risk Analysis	Risk assessment applied to the EULYNX architecture, starting from threats and their impact on subsystems (zones/conduits), assigning measures/requirements from ISO 62443 and adding compensating measures for efficiency and to allow risk acceptance.	Text based-DOORS	3	Security

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Eu.Doc.117	Info	Interface definition and specification SSI	The generic definition and specification of the standard security interface SSI, applied to all SSI-XX interfaces.	Text based-DOORS	5	Security
Eu.Doc.121	Info	Security services specifications	Specification of all functional, non-functional and technical requirements of the subsystem Security services platform.	Text based-DOORS	4	Security