



EULYNX Initiative

EULYNX Reference Document list

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Contents

1	Introduction	1
1.1	Release information	1
1.2	Impressum	1
1.3	Purpose	1
2	Reference documents	2
2.1	Regulations	2
2.2	Standards and Guidelines	2

ID	Type	Reference	Applies to	JIRA	V 4.3 (0.A) > V 4.2 (0.A)
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Eu.Ref.27	Head	1.1 Release information	-		
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Eu.Ref.160	Info	Version history	-		
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Eu.Ref.2	Info	Responsible for this document: EULYNX Project Management Office www.eulynx.eu	-		
Eu.Ref.159	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.	-		
Eu.Ref.28	Head	1.3 Purpose	-		
Eu.Ref.29	Info	The purpose of this document is to list and centrally maintain entries of all external documents / standards / regulations referenced by EULYNX specifications.	-		

ID	Type	Reference	Applies to	JIRA	V 4.3 (0.A) > V 4.2 (0.A)
Eu.Ref.157	Info	The applicability of each reference to a particular EULYNX specification is indicated by the column "Applies to".	-		
Eu.Ref.6	Head	2 Reference documents	-		
Eu.Ref.153	Head	2.1 Regulations	-		
Eu.Ref.155	Info	[CSM] COMMISSION IMPLEMENTING REGULATION (EU) No 402/2013 of 30 April 2013 on the common safety method for risk evaluation and assessment and repealing Regulation (EC) No 352/2009 amended by Commission implementing Regulation (EU) 2015/1136 of 13 July 2015 amending implementing Regulation (EU) No 402/2013 on the common safety method for risk evaluation and assessment	EfeS ILS MDM System Definition SCI SMI SDI		
Eu.Ref.165	Info	[TSI CCS] Commission regulation (EU) 2016/919 of 27 May 2016 on the technical specification for interoperability relating to the 'control-command and signalling' subsystems of the rail system in the European Union amended by Commission Implementing Regulation (EU) 2019/776 of 16 May 2019, Commission Implementing Regulation (EU) 2020/387 of 9 March 2020 and Commission Implementing Regulation (EU) 2020/420 of 16 March 2020	-		
Eu.Ref.154	Info	[ERA] ERA/ERTMS/033281 Interfaces between Control-Command and Signalling Trackside and other Subsystems Version 4.0	TDS		
Eu.Ref.30	Head	2.2 Standards and Guidelines	-		
Eu.Ref.31	Info	[EN ISO 9001:2015] Quality management systems - Requirements (ISO 9001:2015); EN ISO 9001:2015	EfeS ILS MDM System Definition System Architecture IT-Security SCI SMI SDI Assurance		
Eu.Ref.32	Info	[DIN VDE 0831] Elektrische Bahn-Signalanlagen (Electric signalling systems for railways); German version DIN VDE 0831:2006-04;	EfeS ILS SCI		
Eu.Ref.33	Info	[0831-103] Electric signalling systems for railways - Part 103: Identification of safety requirements for technical functions in railway signalling; DIN VDE V 0831-103:2014;	System Definition		
Eu.Ref.34	Info	[0831-104] Electric signalling systems for railways - Part 104: IT Security Guideline based on IEC 62443; DIN VDE V 0831-104:2015,	IT-Security		
Eu.Ref.35	Info	[IEC 62443] Industrial communication networks - Network and system security - Part 2-1: Establishing an industrial automation and control system security program - Part 2-4: Security program requirements for IACS service providers - Part 3-2: Security risk assessment for system design - Part 3-3: System security requirements and security levels - Part 4-2: Technical security requirements for IACS components	IT-Security		

ID	Type	Reference	Applies to	JIRA	V 4.3 (0.A) > V 4.2 (0.A)
Eu.Ref.188	Info	[ISO/IEC 27000] Information technology – Information security management systems - Overview and vocabulary; ISO/IEC 27000:2018	IT-Security		
Eu.Ref.189	Info	[ISO/IEC 27001] Information technology – Security techniques – Information security management systems – Requirements; ISO/IEC 27001:2013	IT-Security		
Eu.Ref.196	Info	[ISO/IEC 17025] ISO/IEC 17025 – General requirements for the competence of testing and calibration laboratories	Assurance		
Eu.Ref.191	Info	[TS 50701] Railway applications - Cybersecurity; CLC/TS 50701:2021	IT-Security		
Eu.Ref.192	Info	[EN 16704-2-1] Railway applications - Track - Safety protection on the track during work - Part 2-1: Common solutions and technologies - Technical requirements for Track Warning Systems (TWS); EN 16704-2-1:2016	SCI-TSS		
Eu.Ref.42	Info	[EN 50121-1] Railway applications - Electromagnetic compatibility - Part 1: General; EN 50121-1:2017	EfeS		
Eu.Ref.44	Info	[EN 50121-4] Railway applications - Electromagnetic compatibility - Part 4: Emission and immunity of the signalling and telecommunications apparatus; EN 50121-4:2016	EfeS		
Eu.Ref.46	Info	[EN 50124-1] Railway applications - Insulation coordination - Part 1: Basic requirements - Clearances and creepage distances for all electrical and electronic equipment; EN 50124-1:2001 + A1:2003 + A2:2005; Corrigendum to DIN EN 50124-1 (VDE 0115-107-1):2006-04; CENELEC-Cor.:2010 to EN 50124-1:2001; EN 50124-1:2017	EfeS		
Eu.Ref.48	Info	[EN 50125-3] Railway applications - Environmental conditions for equipment - Part 3: Equipment for signalling and telecommunications - EN 50125-3:2003, Corrigendum to DIN EN 50125-3 (VDE 0115-108-3):2003-10; CENELEC-Cor.:2010 to EN 50125-3:2003	ILS MDM System Definition System Architecture EfeS		
Eu.Ref.49	Info	[EN 50126] Railway applications - The specification and demonstration of Reliability, Availability, Maintainability and Safety (RAMS); EN 50126-1:2017, EN 50126-2:2017	EfeS ILS MDM System Definition System Architecture IT-Security		
Eu.Ref.50	Info	[EN 50128] Railway applications - Communication, signalling and processing systems - Software for railway control and protection systems; EN 50128:2011, Corrigendum to DIN EN 50128 (VDE 0831-128):2012-03; EN 50128:2011/AC:2014; Supplement 1: Additional information for the application of DIN EN 50128 (VDE 0831-128)	EfeS ILS MDM System Definition System Architecture SCI		
Eu.Ref.51	Info	[EN 50129] Railway applications - Communication, signalling and processing systems - Safety related electronic systems for Signalling - EN 50129:2018	EfeS ILS MDM System Definition System Architecture SCI		

ID	Type	Reference	Applies to	JIRA	V 4.3 (0.A) > V 4.2 (0.A)
Eu.Ref.52	Info	[EN 50159] Railway applications - Communication, signalling and processing systems - Safety-related communication in transmission systems; EN 50159:2010	System Architecture IT-Security SCI PoS-Signalling		
Eu.Ref.54	Info	[EN 50238-1] Railway applications - Compatibility between rolling stock and train detection systems. General; EN 50238-1:2003 + AC:2014	TDS		
Eu.Ref.167	Info	[EN 50238-2] Railway applications - Compatibility between rolling stock and train detection systems. Compatibility with track circuits; EN 50238-2:2015	TDS		
Eu.Ref.166	Info	[EN 50238-3] Railway applications - Compatibility between rolling stock and train detection systems. Compatibility with axle counters; EN 50238-3:2013	TDS		
Eu.Ref.168	Info	[EN 50592] Railway applications - Testing of rolling stock for electromagnetic compatibility with axle counters; EN 50592:2016	TDS		
Eu.Ref.56	Info	[EN 50617-2] Railway Applications - Technical parameters of train detection systems for the interoperability of the trans-European railway system - Part 2: Axle counters; EN 50617-2:2015 + AC:2016	TDS		
Eu.Ref.61	Info	[EN 60721-3-1] Classification of environmental conditions - Part 3: Classification of groups of environmental parameters and their severities - Section 1: Storage (IEC 104/648/CD:2015)	ILS MDM EfeS		
Eu.Ref.62	Info	[EN 60721-3-2] Classification of environmental conditions - Part 3: Classification of groups of environmental parameters and their severities - Section 2: Transportation and handling (IEC 104/670/CD:2015)	ILS MDM EfeS		
Eu.Ref.63	Info	[EN 60721-3-3] Classification of environmental conditions - Part 3: Classification of groups of environmental parameters and their severities; section 3: Stationary use at weatherprotected locations; Amendment A2 (IEC 60721-3-3:1994/A2:1996); EN 60721-3-3:1995/A2:1997	ILS MDM EfeS		
Eu.Ref.64	Info	[EN 60721-3-4] Classification of environmental conditions - Part 3: Classification of groups of environmental parameters and their severities; section 4: Stationary use at non-weatherprotected locations; Amendment A1 (IEC 60721-3-4:1995/A1:1996); EN 60721-3-4:1995/A1:1997	ILS MDM EfeS		
Eu.Ref.65	Info	[EN 61000-4-2] Electromagnetic compatibility (EMC) - Part 4-2: Testing and measurement techniques - Electrostatic discharge immunity test; EN 61000-4-2:2009-12 (IEC 61000-4-2:2008)	TDS		
Eu.Ref.66	Info	[EN 61000-4-3] Electromagnetic compatibility (EMC) - Part 4-3: Testing and measurement techniques - Radiated, radio-frequency, electromagnetic field immunity test; EN 61000-4-3:2011-04 (IEC 61000-4-3:2006 + A1:2007 + A2:2010)	TDS		
Eu.Ref.67	Info	[EN 61000-4-6] Electromagnetic compatibility (EMC) - Part 4-6: Testing and measurement techniques - Immunity to conducted disturbances, induced by radio-frequency fields; EN 61000-4-6:2014-08 (IEC 61000-4-6:2013)	TDS		

ID	Type	Reference	Applies to	JIRA	V 4.3 (0.A) > V 4.2 (0.A)
Eu.Ref.68	Info	[EN 61000-4-8] Electromagnetic compatibility (EMC) - Part 4-8: Testing and measurement techniques - Power frequency magnetic field immunity test; EN 61000-4-8:2010-11 (IEC 61000-4-8:2009)	TDS		
Eu.Ref.70	Info	[EN 61000-6-2] Electromagnetic compatibility (EMC) - Part 6-2: Generic standards - Immunity standard for industrial environments; EN 61000-6-2:2016-05 (IEC 77/488/CDV:2015)	TDS		
Eu.Ref.74	Info	[UDP] RFC 768 - User Datagram Protocol, J.Postel, 28.08.1980	System Architecture IT-Security SCI SDI		
Eu.Ref.75	Info	[RaSTA] DIN VDE V 0831-200 VDE V 0831-200:2015-06: Electric signalling systems for railways - Part 200: Safe transmission protocol according to DIN EN 50159	System Architecture SCI		
Eu.Ref.76	Info	[MD5] RFC 1321 – The MD5 Message-Digest Algorithm, R. Rivest, April 1992	ILS MDM System Architecture EfeS		
Eu.Ref.77	Info	[SysML] OMG Systems Modeling Language (OMG SysML™). Version 1.6	EfeS ILS MDM SCI		
Eu.Ref.158	Info	[UML] OMG Unified Modeling Language (OMG UML™), Version 2.5	EfeS ILS MDM SCI		
Eu.Ref.169	Info	[Sub26] SUBSET-026, System Requirements Specification	SCI-RBC		
Eu.Ref.78	Info	[Sub36] SUBSET-036, FFFIS for Eurobalise	Light Signal		
Eu.Ref.176	Info	[Sub93] SUBSET-093, GSM-R Interfaces Class 1 Requirements	PoS-Signalling		
Eu.Ref.82	Info	[NTP] RFC 5905 - Network Time Protocol Version 4: Protocol and Algorithmus Spezification	System Architecture SDI		
Eu.Ref.84	Info	[OPC] IEC 62541 OPC Unified Architecture	SMI SDI		
Eu.Ref.195	Info	[TCP] IETF RFC 793 – Transmission Control Protocol and IETF RFC 7323 – TCP Extensions for High Performance	SCI SMI		
Eu.Ref.203	Info	[TLS] RFC 8446 - The Transport Layer Security (TLS) Protocol Version 1.3, E. Rescorla, August 2018	System Architecture IT-Security SCI		
Eu.Ref.183	Info	[IEEE 802.3] IEEE 802.3 - Ethernet standards	PoS-Signalling		

ID	Type	Reference	Applies to	JIRA	V 4.3 (0.A) > V 4.2 (0.A)
Eu.Ref.198	Info	[IEEE 802.1Q] IEEE 802.1Q - IEEE Standard for Local and Metropolitan Area Network--Bridges and Bridged Networks	PoS-Signalling		
Eu.Ref.185	Info	[IEC 60603-7] IEC 60603-7 - Connectors for electronic equipment	PoS-Signalling		
Eu.Ref.184	Info	[IEC 61754-20] IEC 61754-20 - Fibre optic interconnecting devices and passive components - Fibre optic connector interfaces - Part 20: Type LC connector family	PoS-Signalling		
Eu.Ref.177	Info	[RFC 0791] IETF RFC 0791 - Internet Protocol	PoS-Signalling		
Eu.Ref.200	Info	[RFC 3260] RFC 3260 - New Terminology and Clarifications for Diffserv	PoS-Signalling		
Eu.Ref.178	Info	[RFC 8200] IETF RFC 8200 - Internet Protocol, Version 6 (IPv6) Specification	PoS-Signalling		
Eu.Ref.179	Info	[RFC 6349] IETF RFC 6349 - Framework for TCP Throughput Testing	PoS-Signalling		
Eu.Ref.180	Info	[ITU-T Y.1564] ITU-T Y.1564 - Ethernet service activation test methodology	PoS-Signalling		
Eu.Ref.181	Info	[O-2475] UIC O-2475 - ERTMS/GSM-R Quality of Service, Test Specification	PoS-Signalling		
Eu.Ref.206	Info	[RFC 2474] RFC 2474 - Definition of the Differentiated Services Field (DS Field) in the IPv4 and IPv6 Headers	PoS-Signalling	EUAR-710	object created after baseline 4.2 (0.A)