



**EULYNX**

**EULYNX Baseline Set 3  
Release 1**

**Cover Document**

# Document History and Distribution

## Revision History

Revision #	Revision Date	Description of Change	Author
0A	20181127	First document issue	Mirko Blazic
1A	20181214	CCB approval	Mirko Blazic



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# 1 Introduction

The EULYNX Consortium is an initiative of several European railways and infrastructure managers with a common goal for standardisation of interfaces.

The following Infrastructure Managers are involved as members of the Consortium:

- Bane NOR
- Société Nationale des Chemins de Fer Luxembourgeois (CFL)
- DB Netz AG (DB)
- S.A. Infrabel
- Liikennevirasto (FTA)
- Network Rail
- ProRail B.V.
- Rete Ferroviaria Italiana (RFI)
- SBB AG
- Société Nationale des Chemins de Fer Français (SNCF)
- SŽ-Infrastruktura, d.o.o. (SŽ)
- Trafikverket

The EULYNX Baseline Set 3 Release 1 is a major documentation release. This Baseline Set includes architecture documents, subsystem and interface requirements and specifications, covering CENELEC Phases 1 – 4/5.

The Baseline Set also includes documents presenting the terms and domain knowledge, as well as the modelling standard applied in development of the specifications. To assist in the understanding of model based requirements, a guideline document called Interpretation Rules for Model-based Requirements is provided.

The Baseline Set includes the formal state machine models, available for generic functions and for subsystems Light Signal and Generic IO. Further state machine models for remaining subsystems will be available in the upcoming releases.

The full documentation list and structure are represented in the EULYNX Documentation plan.

Follow up releases of Baseline Set 3 are planned: Release 2 in April 2019, Release 3 in July 2019 and Release 4 in December 2019.

All deliverables are available in PDF format. All deliverables originating from DOORS are also available in requirements interchange format ReqIF.

## 2 Documents

The EULYNX Baseline Set 3 Release 1 includes the following documents:

<i>Document ID</i>	<i>Document Name</i>	<i>Document Version</i>	<i>CENELEC Phase</i>	<i>Release</i>
Eu.Doc.6	EULYNX Concept	2.0 (0.A)	1	12/2017
Eu.Doc.7	EULYNX System definition	3.0 (0.A)	2	12/2018
Eu.Doc.11	EULYNX Documentation plan	3.0 (0.A)	1-5	12/2018
Eu.Doc.12	EULYNX Reference document list	3.0 (0.A)	1-5	12/2018
Eu.Doc.31	Verification and validation plan	1.0 (0.A)	2	12/2018
Eu.Doc.16	EULYNX System architecture specification	1.0 (0.A)	4	12/2018
Eu.Doc.18	Maintenance and data management specification	3.0 (0.A)	4	12/2018
Eu.Doc.20	Generic interface and subsystem requirements	3.0 (0.A)	4	12/2018
Eu.Doc.92	Interface definition SCI	3.0 (0.A)	5	12/2018
Eu.Doc.93	Interface specification SCI Generic	2.0 (0.A)	5	12/2018
Eu.Doc.77	Interface definition SDI	2.0 (0.A)	5	12/2018
Eu.Doc.94	Interface specification SDI Generic	2.0 (0.A)	5	12/2018
Eu.Doc.30	Modelling standard	3.0 (0.A)	4-5	12/2018
Eu.Doc.29	Interpretation rules for model based requirements	1.3 (0.A)	4-5	12/2018
Eu.Doc.28	Variability and configuration management	1.0 (1.A)	1-5	12/2017
Eu.Doc.27	System engineering process	2.0 (0.A)	1-5	12/2017
Eu.Doc.32	Requirements specification for subsystem Light Signal	3.0 (0.A)	4	12/2018
Eu.Doc.33	Interface specification SCI-LS	3.0 (0.A)	5	12/2018
Eu.Doc.78	Interface specification SDI-LS	2.0 (0.A)	5	12/2018
Eu.Doc.37	Signal aspect table	2.0 (0.A)	4-5	12/2017
Eu.Doc.36	Requirements specification for subsystem Point	2.5 (0.A)	4	12/2018
Eu.Doc.38	Interface specification SCI-P	2.2 (0.A)	5	12/2018
Eu.Doc.80	Interface specification SDI-P	1.2 (0.A)	5	12/2018
Eu.Doc.45	Requirements specification for subsystem Generic IO	3.0 (0.A)	4	12/2018
Eu.Doc.46	Interface specification SCI-IO	3.0 (0.A)	5	12/2018
Eu.Doc.82	Interface specification SDI-IO	2.0 (0.A)	5	12/2018
Eu.Doc.43	Requirements specification for subsystem TDS	2.4 (0.A)	4	12/2018
Eu.Doc.44	Interface specification SCI-TDS	2.3 (0.A)	5	12/2018
Eu.Doc.81	Interface specification SDI-TDS	1.2 (0.A)	5	12/2018
Eu.Doc.39	Requirements specification for subsystem Level Crossing	1.3 (0.A)	4	12/2018
Eu.Doc.40	Interface specification SCI-LX	1.4 (0.A)	5	12/2018
Eu.Doc.91	Interface specification SDI-LX	1.2 (0.A)	5	12/2018
Eu.Doc.49	Requirements specification for SCI-CC	3.0 (0.A)	4	12/2018
Eu.Doc.50	Interface specification SCI-CC	3.0 (0.A)	5	12/2018
Eu.Doc.51	EULYNX Data preparation requirements	1.0 (1.A)	2	12/2017
Eu.Doc.53	Guideline to the EULYNX data platform	1.1 (0.A)	4	12/2018
Eu.Doc.52	EULYNX Data platform	1.30	4	12/2018

Eu.Doc.54	EULYNX Data format	0.2 (0.A)	5	12/2018
Eu.Doc.9	EULYNX Glossary	2.0 (0.A)	-	12/2018
Eu.Doc.10	EULYNX Domain Knowledge	1.4 (0.A)	-	12/2018

The EULYNX Baseline Set 3 Release 2 in April 2019 is scheduled to include the following documents:

<i>Document ID</i>	<i>Document Name</i>	<i>Document Version</i>	<i>CENELEC Phase</i>
Eu.Doc.43	Requirements specification for SCI-TDS	3.0 (0.A)	4
Eu.Doc.30	Modelling standard	3.1 (0.A)	4
Eu.Doc.29	Interpretation rules for model based requirements	2.0 (0.A)	5
Eu.Doc.100	Specification of Point of Service - Signalling	1.0 (0.A)	4

The EULYNX Baseline Set 3 Release 3 in July 2019 is scheduled to include the following documents:

<i>Document ID</i>	<i>Document Name</i>	<i>Document Version</i>	<i>CENELEC Phase</i>
Eu.Doc.76	Interface definition and specification SMI	1.0 (0.A)	5
Eu.Doc.36	Requirements specification for subsystem Point	3.0 (0.A)	4
Eu.Doc.39	Requirements specification for SCI-LX	2.0 (0.A)	4
Eu.Doc.40	Interface specification SCI-LX	2.0 (0.A)	5
Eu.Doc.91	Interface specification SDI-LX	2.0 (0.A)	5
Eu.Doc.41	Requirements specification for SCI-ILS	3.0 (0.A)	4
Eu.Doc.42	Interface specification SCI-ILS	3.0 (0.A)	5
Eu.Doc.47	Requirements specification for SCI-RBC	3.0 (0.A)	4
Eu.Doc.48	Interface specification SCI-RBC	3.0 (0.A)	5
Eu.Doc.15	EULYNX Security Concept	1.0 (0.A)	2

### 3 Variability management

Common requirements are identified with applicability information marked as “Default”, while Infrastructure Manager specific requirements are identified by a dedicated IM code. The mandatory set of specifications is the full superset of all mandatory requirements from all infrastructure managers. The application of partial IM specific subsets is not permitted.

The IM codes applied in the specifications are the following:

<i>IM Code</i>	<i>Infrastructure manager</i>
310900	FTA, Finland
007000	Network Rail, United Kingdom
007400	Trafikverket, Sweden
007600	Bane NOR, Norway
007900	SZ, Slovenia
008000	DB Netz, Germany
008200/008201	CFL, Luxembourg
008300	RFI, Italy
008400	ProRail, Netherlands
008500	SBB, Switzerland
008700	SNCF, France
008800	Infrabel, Belgium

## 4 Copyright information

All contents provided through the EULYNX Baseline Set are under Copyright © of EULYNX Partners - all information included or disclosed in the EULYNX Baseline Set is licensed under the European Union Public Licence EUPL, Version 1.1.



## 5 Further information

Further information is available directly from the EULYNX Consortium Office. The Consortium office can be contacted through [www.eulynx.eu](http://www.eulynx.eu) and [consortium@eulynx.eu](mailto:consortium@eulynx.eu).

Questions and comments shall be addressed through the EULYNX bulletin board, which is available on [bb.eulynx.eu](http://bb.eulynx.eu).