



Release notes RCA Baseline set 0, Release 2

Table of contents

1.	RCA Baseline set 0, Release 2	1
2.	Imprint	1
3.	New or updated content of RCA Baseline set 0, Release 2	1
4.	Feedback for RCA	3
5.	Authors and Reviewers of RCA	3

1. RCA Baseline set 0, Release 2

RCA BL0 R2 is an internal release (after Alpha, Beta and Gamma, BL0 R1) of the documents prepared by the RCA initiative.

- This release includes updates to previously released documents and several new documents. Content which belongs to the specification in strict sense is being prepared in a MBSE (model-based systems engineering) approach.
- The documentation structure is described in "RCA Documentation Plan" [RCA.Doc.6].
- Access: RCA releases are made directly available here: hzqFmXv5R2N7tGDjaEokq or through links on the EUG or EULYNX websites.
- This release is not yet a complete or precise specification of RCA. It is likely that the architecture will change/evolve, based on feedback we expect from within and outside of the RCA group.

2. Imprint

- Publisher: RCA (an initiative of the ERTMS Users Group and EULYNX Consortium)
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3. New or updated content of RCA Baseline set 0, Release 2

The complete documentation plan can be found in [RCA.Doc.6]

Id	Name	Short description	Update BLO R1
RCA.Doc.1	RCA White Paper	The rationale for starting RCA. Foundation for MoU between EUG and EULYNX.	Unchanged
RCA.Doc.3	RCA Process Overview	How the RCA group works to prepare, maintain and bring the RCA specification to the sector.	Unchanged
RCA.Doc.5	RCA Release Notes	Description of current release of RCA deliverables.	Update 07/2021 0.3
RCA.Doc.6	RCA Documentation Plan	Overview of the documentation set of RCA	Update 07/2021 0.4 (0.A)

RCA.Doc.7	RCA FAQ	Frequently asked questions and	Unchanged
		answers regarding RCA. Useful	
		for a quick overview.	
RCA.Doc.8	Concept: Modular Safety	A modular architecture requires	Unchanged
		and enables concepts to reduce	
		the safety workload.	
RCA.Doc.10	Concept: RCA Effects - Business Case	The economic effects (savings) of	Unchanged
		an RCA-based implementation,	
		based on smartrail 4.0 and ex-	
		trapolated to other IMs.	
RCA.Doc.11	Concept: Plattform Independence	The need to achieve more modu-	Unchanged
		larity between applications and	
		the platfforms.	
RCA.Doc.12	Concept: RCA Effects - Capacity	The effects on traffic capacity for	Unchanged
		an RCA-based system.	
RCA.Doc.13	Concept: Architectural approach /	Architectural principles for the	Unchanged
DOA D	System-of-systems perspective	RCA.	
RCA.Doc.14	RCA Glossary	Definition of used terms.	Update 07/2021 0.3 (0.A)
RCA.Doc.15	RCA System Concept	A high-level description of the	Unchanged
		goals and fundamental concepts	
		of RCA:	
RCA.Doc.18	RCA Domain knowledge	Defines important domain con-	Update 07/2021
		cepts used in the specification.	0.3 (0.A)
RCA.Doc.28	Migration	Illustrates how migration to-	Update 07/2021
		wards an RCA-based system can	1.2
		be planned, including examples	
		of different IMs.	
		Includes a summary of results in	
		presentation format (Migration	
DCA Dag 20	Concept ICL Takeneed 12 Concept	Results v0.9). Evolution of ETCS, rationale for	Linghangad
RCA.Doc.29	Concept: LSL - Enhanced L3, Supervi-		Unchanged
RCA.Doc.30	sion, Localisation Concept: Principles of the safety	submitted TSI CRs. Geometric-based interlocking for	Linchangod
RCA.DUC.30			Unchanged
RCA.Doc.31	logic Concept: Operational plan	more capacity and flexibility. Concept for the standardized in-	Update 07/2021
UCU'DOC'21	Concept. Operational plan	terface between RCA and a TMS.	1.1 (0.A)
RCA.Doc.32	Concept: Degraded modes	The role of degraded modes in	Unchanged
NCA.DUC.32	Concept. Degraded initides	specifying RCA.	Gilchangeu
RCA.Doc.34	RCA Roadmap	Overview planned development	Unchanged
110/11000.34	Test Hodding	for RCA.	Stichanged
RCA.Doc.35	RCA System Architecture (merged): Sy	1	Update 07/2021
	lie to jotom i dinecetti (merged). 5	, crain 2 ci, cystein neds, sys Aten	0.3 (0.A)
RCA.Doc.36	RCA Documentation plan - Annex	Visualization of the documenta-	Unchanged
22 20.00	, mich	tion plan.	
RCA.Doc.37	Concept: RCA effects overview	Overview of potential the effects	Unchanged
		/ benefits of an RCA-based sys-	
		tem.	
DCA Doc 40	RCA Architecture Poster	Diagram of the interface archi-	Update 07/2021
RCA.Doc.40	I NCA AICHILECIUIE POSIEI		

18E112	LWG: Railways Localisation System	Provided by the Localisation	Unchanged
	HL Users' Requirements	Working Group of the EUG.	
RCA.Doc.43	Concept: Informal Architecture Over-	Provides an informal overview,	Unchanged
	view	until the MBSE-generated docu-	
		ments are officially published.	
RCA.Doc.45	(Cyber) Security Guideline	A guideline to and definition of a	Unchanged
		harmonized Security Risk Assess-	
		ment for System Design process	
RCA.Doc.46	Concept : Digital Map	Concept for provision of track	New 07/2021
		and trackside infrastructure in-	1.1 (0.A)
		formation in the form of struc-	
		tured map data.	
RCA.Doc.47	Concept : Plan Execution	Overview and the principles of	New 07/2021
		plan execution.	0.1 (0.A)
RCA.Doc.48	Realization of RCA goals	Description of the goals and ob-	New 07/2021
		jectives of RCA	1.0 (0.A)

Related documents:

- RCA white paper: the rationale for starting RCA, accessible here
 https://ertms.be/workgroups/ccs_architecture and here https://ertms.be/workgroups/ccs_architecture and here https://ertms.be/workgroups/ccs_architecture and here https://ertms.be/workgroups/ccs_architecture and here
- Command and Control 4.0 by Josef Doppelbauer (ERA): https://www.era.europa.eu/sites/default/files/library/docs/command and control en.pdf

4. Feedback for RCA

Feedback for RCA is welcome! If you would like to attend a workshop or give feedback, please contact rca@eulynx.eu.

RCA will inform if and how feedback is integrated in future work. RCA will continue to provide regular updates in the form of new releases.

5. Authors and Reviewers of RCA

The RCA initiative is initiated and supported by EUG and EULYNX.