



Release notes RCA Baseline set 0, Release 3

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1. RCA Baseline set 0, Release 3

RCA BL0 R2 is an internal release (after Alpha, Beta and Gamma, BL0 R1, BL0 R2) 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 public releases are made directly available here: https://public.3.basecamp.com/p/Kee-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 R3
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 11/2021 0.4 (0.A)
RCA.Doc.6	RCA Documentation Plan	Overview of the documentation set of RCA	Update 11/2021 0.5 (0.A)

RCA.Doc.7	RCA FAQ	Frequently asked questions and	Unchanged
		answers regarding RCA. Useful	
2012		for a quick overview.	
RCA.Doc.8	Concept: Modular Safety	A modular architecture requires	Unchanged
		and enables concepts to reduce	
DCA D== 10	Company DCA Effects Designed Con-	the safety workload.	Lin also a sol
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
NCA.DOC.11	Concept. Flattionii independence	larity between applications and	Officialiged
		the platfforms.	
RCA.Doc.12	Concept: RCA Effects - Capacity	The effects on traffic capacity for	Unchanged
NCA.DUC.12	Concept. NCA Lifects - Capacity	an RCA-based system.	Offichanged
RCA.Doc.13	Concept: Architectural approach /	Architectural principles for the	Unchanged
MCM.D0C.13	System-of-systems perspective	RCA.	Onchanged
RCA.Doc.14	RCA Glossary	Definition of used terms.	Update 11/2021
NCA.DUC.14	New Glossal y	Definition of used terms.	0.4 (0.A)
RCA.Doc.15	RCA System Concept	A high-level description of the	Unchanged
		goals and fundamental concepts	Stichangea
		of RCA:	
RCA.Doc.18	RCA Domain knowledge	Defines important domain con-	Unchanged
110,1100.10	ner bomain knowledge	cepts used in the specification.	Onenangea
RCA.Doc.28	Migration	Illustrates how migration to-	Unchanged
		wards an RCA-based system can	
		be planned, including examples	
		of different IMs.	
		Includes a summary of results in	
		presentation format (Migration	
		Results v0.9).	
RCA.Doc.29	Concept: LSL - Enhanced L3, Supervi-	Evolution of ETCS, rationale for	Unchanged
	sion, Localisation	submitted TSI CRs.	
RCA.Doc.30	Concept: Principles of the safety	Geometric-based interlocking for	Unchanged
	logic	more capacity and flexibility.	
RCA.Doc.31	Concept: Operational plan	Concept for the standardized in-	Update 11/2021
		terface between RCA and a TMS.	1.4 (0.A)
RCA.Doc.32	Concept: Degraded modes	The role of degraded modes in	Unchanged
		specifying RCA.	
RCA.Doc.33	Methods and Tooling : Arch Process	Describes the methods and	New 11/2021 12
		tools used for developing the	(0.A)
		RCA specifi-cation.	
RCA.Doc.34	RCA Roadmap	Overview planned development	Unchanged
		for RCA.	
RCA.Doc.35	RCA System Architecture	Definition of the RCA System architecture	Unchanged
RCA.Doc.36	RCA Documentation plan - Annex	Visualization of the documenta-	Unchanged
		tion plan.	
RCA.Doc.37	Concept: RCA effects overview	Overview of potential the effects	Unchanged
		/ benefits of an RCA-based sys-	
		tem.	

RCA.Doc.40	RCA Architecture Poster	Diagram of the interface architecture of RCA.	Update 11/2021 0.3 (0.A)
	LVC. Beilman Leadingtion Coston		
	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	Unchanged
		and trackside infrastructure in-	
		formation in the form of struc-	
		tured map data.	
RCA.Doc.47	Concept : Plan Execution	Overview and the principles of	Update 11/2021
		plan execution.	0.3 (0.A)
RCA.Doc.48	Realization of RCA goals	Description of the goals and ob-	Unchanged
		jectives of RCA	
RCA.Doc.49	Concept: Architectural Design for	Description for the architectural	New 11/2021 0.2
	Plan Execution	design related to plan execution.	(A.0)
RCA.Doc.50	A.P.M business targets and strategy	Describes the strategy of the	New 11/2021 0.5
	The same of the sa	A.P.M. part of RCA and business	(A.0)
		requirements	(*)
RCA.Doc.53	A.P.M objectives	Objectives (high level require-	New 11/2021 0.3
110/11200130		ments) list for APS	(A.0)
RCA.Doc.55	Digital Map Business Case	Business Case for Digital Map	New 11/2021 1.0
110/11000.55	Digital Map Basiless case	Dusiness case for Digital Map	(0.A)
RCA.Doc.56	Digital Map Evaluation Onboard Map	Solution evaluation for Onboard	New 11/2021 1.1
NCA.DOC.30	Digital Wap Evaluation Onsoala Wap	Map	(0.A)
RCA.Doc.57	Digital Map Evaluation Reference	Reference Model for evaluation	New 11/2021 0.3
RCA.DUC.37	Model	Reference Model for evaluation	(0.A)
	Computing Platform Whitepaper	Whitepaper for Computing Plat-	New 11/2021
	Computing Platform Wintepaper	form	INCM TT/ZUZT
	Computing Platform Paguinaments		New 11/2021
	Computing Platform Requirements	Requirements for Computing	INSM 11/5051
DCA D CC	E de collection de la constant	Platform	N. 44/2024 4 2
RCA.Doc.60	Explanation to the RCA ARCH Pro-	Explanation of the architecture	New 11/2021 1.0
	cesses	process applied in RCA	(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 https://ertms.be/workgroups/ccs_architecture and here https://ertms.be/workgroups/ccs_architecture-white-paper.
- Command and Control 4.0 by Josef Doppelbauer (ERA): https://www.era.europa.eu/sites/de-fault/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.