

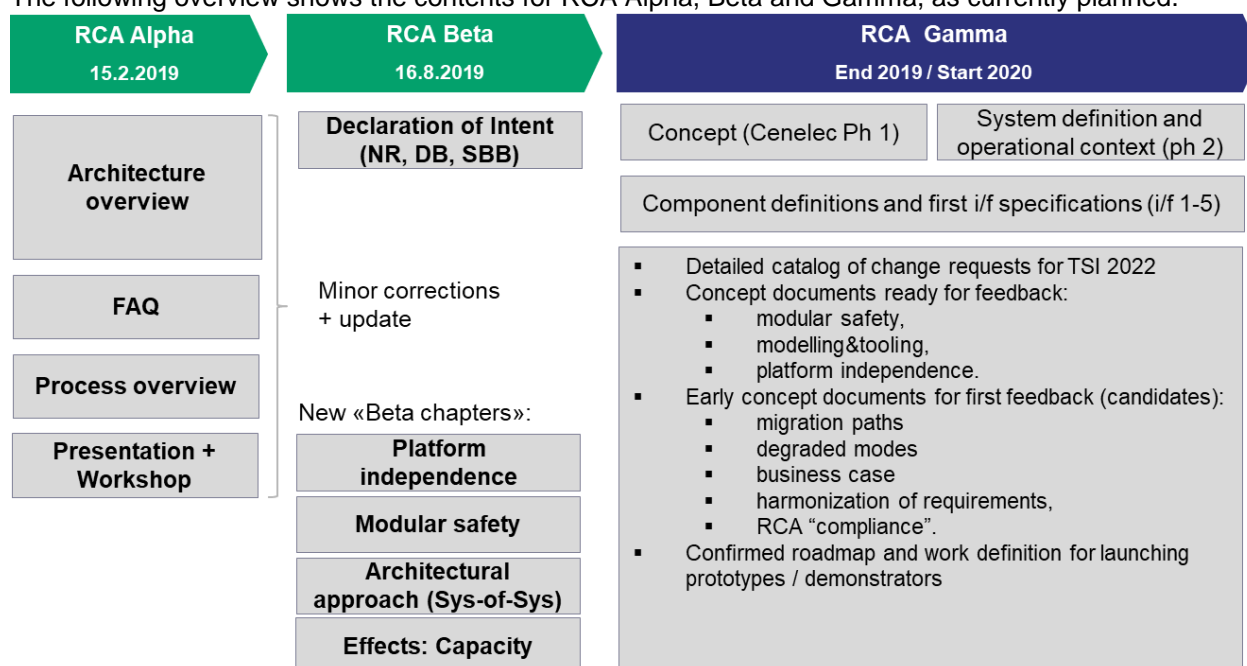
RCA Beta – Release notes

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1. Release Plan

The following overview shows the contents for RCA Alpha, Beta and Gamma, as currently planned.



1.1. RCA Beta

RCA Beta is an update of RCA Alpha taking into account feedback from RCA Alpha (from railways, suppliers, sector organizations). RCA Beta mostly deals with corrections, misunderstandings and frequently asked questions. RCA Beta is released in the form of an updated set of documents from RCA Alpha and with a few additional "Beta chapters" on topics which had generated a lot of interest. See "Content of RCA Beta" below.

1.2. RCA Alpha

The version RCA Alpha is the result of iteration 0 on the RCA performed by the RCA group in the second half of 2018 and provides a first, high-level draft of the RCA called release "alpha". RCA Alpha provides a starting point for:

- achieving the next level of understanding and commitment by the EUG and EULYNX members concerning RCA;

- organizing the next steps in the RCA development process (the RCA process is described separately) involving several working groups;
- continuing the discussion, allowing feedback, providing guidance with other stakeholders (industry, regulators, owners).

RCA Alpha is far from being a complete or precise specification of RCA. It is likely that the architecture will change/evolve in 2019, based on feedback we expect from within and from the outside of the RCA group.

2. Imprint

- Publisher: RCA Group.
- RCA Group partners: ERTMS User Group (www.ertms.be) and EULYNX (www.eulynx.eu).
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3. Content of RCA Beta (Beta.1 / 26.8.2019)

Document	Content	ID	Version	Change
RCA - Architecture Overview	An overview of the goals, constraints, design principles etc. for RCA.	RCA.Doc.2	Beta.1	Updated
RCA - Process Overview	How the RCA group works to prepare, maintain and bring RCA to the market	RCA.Doc.3	Alpha.1-1	Unchanged
RCA - FAQ	Frequently asked questions and answers regarding RCA. Useful for quick overview.	RCA.Doc.7	Beta.1	Updated
RCA - Glossary	A summary of frequently used terms and abbreviations.	RCA.Doc.4	Beta.1	New
RCA Beta - Chapter on Modular Safety	First overview on concept modular safety in RCA.	RCA.Doc.8	Beta.1	New
RCA Beta – Chapter on Platform Independence	Explanation of concept of platform independence briefly described in the Architecture Overview.	RCA.Doc.11	Beta.1	New
RCA Beta – Chapter on Capacity effects	Where the capacity effects in an RCA-based architecture come from and first quantification.	RCA.Doc.12	Beta.1	New
RCA Beta – Chapter on Architectural approach and “Systems-of-systems” view.	The meaning of architecture in RCA and how RCA fits other approaches.	RCA.Doc.13	Beta.1	New
RCA: Declaration of Intent	Declaration on cooperation for RCA by NR, DB and SBB.	-	6.4.2019	New

Related documents:

- RCA white paper: the rationale for starting RCA, accessible here https://ertms.be/workgroups/ccs_architecture and here <https://www.eulynx.eu/index.php/home2/37-reference-ccs-architecture-white-paper>.
- 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. Since the RCA material is not completely self-explaining, workshops with railways and suppliers will be organized to explain and discuss the architecture. Attending such a workshop is recommended before providing detailed, technical feedback.

Feedback workshops are going to be organized together with UNIFE/UNISIG and Shift2Rail.

If you would like to attend a workshop or give feedback, please contact Michael Leining (michael.leining@nextrail.com).

The RCA group will provide feedback on if and how feedback is integrated in future work. The RCA group has planned the next releases for beginning of 2020.

5. Authors and Reviewers of RCA

RCA initiative is initiated and supported by EUG and EULYNX.

RCA Beta.

The update has been reviewed by members of the RCA group including: Andrew Simmons (NR), Brian Hughes (NR), Imtithal Aziz (NR), Roman Treydel (DB), Oliver Lemke (DB), Bernd Elsweiler (DB), Mirko Blazic (EULYNX), Odile Cornet (Infrabel), Emmanuel Manigart (Infrabel), Nicola Furness (NR), Maarten Bartholomeus (ProRail), Bernhard Rytz (SBB), Steffen Schmidt (SBB), Michael Leining (SBB / nextrail), Jens Holst Møller (Banedanmark), Matthias Moritz (DB), Maarten van der Werff (ProRail), Joel Silmon (DB), Jonas Denissen (DB), Martin Zehnder (SBB), Michel Ruesen (EUG), Nikolaus Fries (DB), Peter Moosmann (SBB), Ramin Hedayati (DB), Simon Heller (DB), Thilo Girlich (DB).

RCA Alpha.

The RCA Alpha has been authored and released for feedback on the 31.1.2019 by the RCA group, including the following participants:

Roman Treydel (DB), Oliver Lemke (DB), Bernd Elsweiler (DB), Rob Dijkman (EUG), Mirko Blazic (EULYNX), Odile Cornet (Infrabel), Emmanuel Manigart (Infrabel), Nicola Furness (NetworkRail), Colin Brown (NetworkRail), Maarten Bartholomeus (ProRail), Bernhard Rytz (SBB), Steffen Schmidt (SBB), Michael Leining (SBB / nextrail), Andreas Wik (trafikverket), Jacques Cremilliac (SNCF).

Additional participants at preceding meetings and reviewers included:

Jens Holst Møller (Banedanmark), Matthias Moritz (DB), Maarten van der Werff (ProRail), Alessandro Spinuzzi (RFI), Pierre-Etienne Gautier (SNCF), Markus Kuhn (SBB), Jan Bystrom (trafikverket)