OCORA

Open CCS On-board Reference Architecture

Road Map

Revision history

Version	Change Description	Initial	Date of change
0.99	▪ Version for Review based on Road Map Presentation	RM	24.11.2021
1.00	▪ Official version for OCORA Release R1	RM	03.12.2021
2.00	▪ Official version for Release	RM	01.07.2022
2.10	▪ Roadmap adjustment toward System- and Innovation-Pillar	RM	09.11.2022
2.20	▪ Official version for Release	RM	19.04.2023

Table of contents

Table of figures

References

Reader's note: please be aware that the numbers in square brackets, e.g. [1], as per the list of referenced documents below, is used throughout this document to indicate the references to external documents. Wherever a reference to a TSI-CCS SUBSET is used, the SUBSET is referenced directly (e.g. SUBSET-026). OCORA always reference to the latest available official version of the SUBSET, unless indicated differently.

[1]   OCORA-BWS01-010 – Release Notes

[2]   OCORA-BWS01-020 – Glossary

[3]   OCORA-BWS01-030 – Question and Answers

[4]   OCORA-BWS01-040 – Feedback Form

[5]   OCORA-BWS03-010 – Introduction to OCORA

[6]   OCORA-BWS03-020 – Guiding Principles

[7]   OCORA-BWS04-010 – Problem Statements

[8]   OCORA-BWS07-010 – Alliances

1 Introduction

1.1 Purpose of the document

The purpose of this document is to outline the OCORA planning process and provide the results, such as the foreseen OCORA Releases and the OCORA Road Map.

This document is addressed to experts in the CCS domain and to any other person, interested in the OCORA concepts for on-board CCS. The reader is invited to provide feedback to the OCORA collaboration and can, therefore, engage in shaping OCORA. Feedback to this document and to any other OCORA documentation can be given by using the feedback form [4].

If you are a railway undertaking, you may find useful information to compile tenders for OCORA compliant CCS building blocks, complete on-board CCS system, or on-board CCS replacements for functional upgrades or life-cycle reasons.

If you are an organization interested in developing on-board CCS building blocks according to the OCORA standard, information provided in this document can be used as input for your development.

1.2 Applicability of the document

The document is currently considered informative. Subsequent releases of this document will be developed based on a modular and iterative approach, evolving within the progress of the OCORA collaboration and alignments with OCORA alliances [8] partners.

1.3 Context of the document

This document is published as part of an OCORA Release, together with the documents listed in the Release Notes [1]. Before reading this document, it is recommended to read them. If you are interested in the context and the motivation that drives OCORA we recommend reading the Introduction to OCORA [5], the Guiding Principles [7], and the Problem Statements [7]. The reader should also be aware of the Glossary [2] and the Question and Answers [3].

2   Planning Principles

The OCORA collaboration is based on an agile approach with fixed release cycle. In essence, topic based workstreams are defining a Workstream Definition for each release. Workstream Definitions are elaborated by each running workstream at the beginning of the release cycle. The Core Team approves the content and ensures alignment of cross-workstream topics.

At the end of each release cycle the content is firstly reviewed by the subject matter experts within the respective workstream. Secondly, the content is reviewed by the OCORA Core Team to ensure consistency among the release before the release is published. Currently OCORA operates on a semi-annual release cycle (July and December). New workstreams might be added by the Core Team at any time.

Parallel to the content-focused short-term release planning, OCORA maintains a long-term road map. This roadmap is adjusted on the regular release cycles and maintained to align with other initiatives such as EU-Rail. In addition, it is used to visualize the development and maturity of OCORA tender artefacts. This is done in regard to future use in Railway Undertakings' tendering for CCS Onboard equipment, both new build and refurbishments.

3   OCORA Planning Results

3.1   Short-term planning Results

This chapter provides the short-term planning results.

OCORA foresees the following releases:

- OCORA Release R5, early December 2023
- OCORA Release R6, early July 2024

In general, fewer operational workstreams will be continued, since with Europe's Rail Joint Undertaking activities have already been successfully and will be transferred into the System and Innovation Pillars.
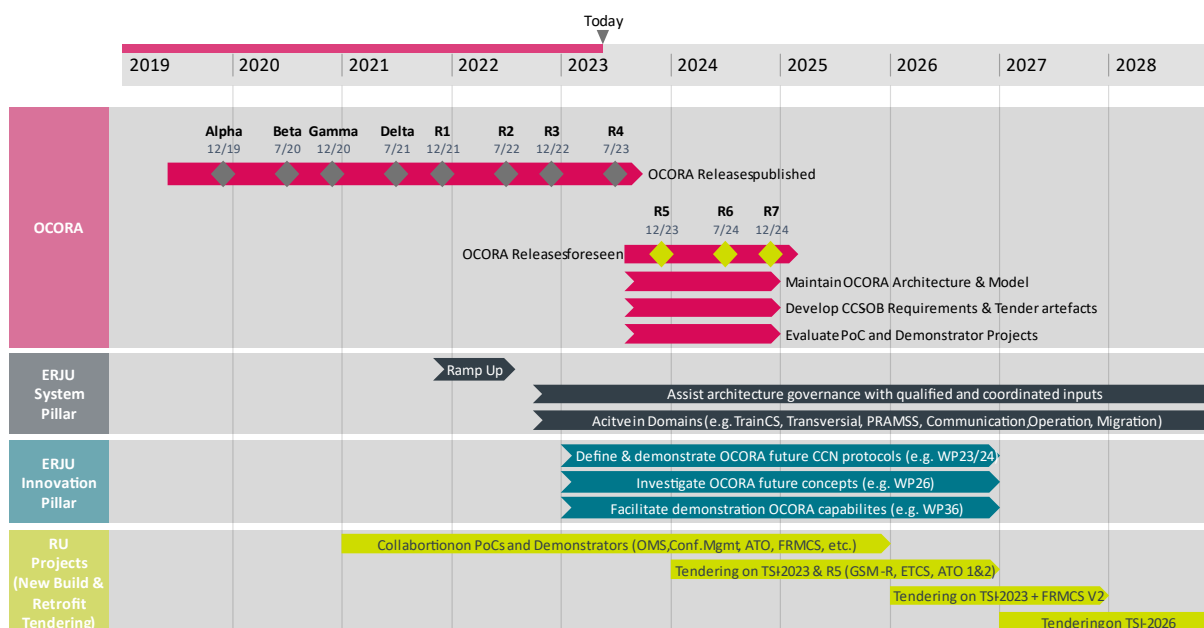
3.2   Road Map

Figure 1 - OCORA Road Map (long-term planning)