

# OCORA

Open CCS On-board Reference Architecture

## Road Map

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## Revision history

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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
2.30	▪ Official version for Release	RM	07.11.2023
2.40	▪ Official version for Release	LDL	24.01.2025

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

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

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

## 1.2 Applicability of the document

The document is 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 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 with agile on-demand release cycles. Release cycles can be started whenever OCORA members produce new valuable content that needs to be shared with the sector. OCORA also introduced the concept of maintenance releases starting from R5.1, which mainly includes minor updates of the last release.

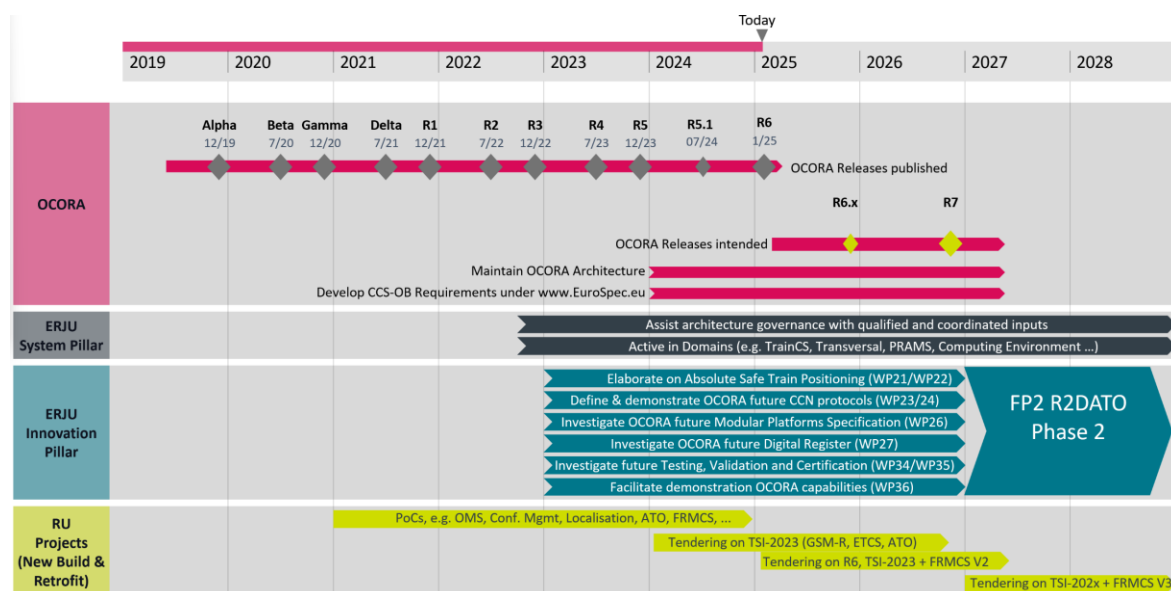
Parallel to the content-focused short-term release planning, OCORA maintains a long-term road map. This roadmap is adjusted on the release cycles and maintained to align with EU-Rail initiatives. In addition, it is used to visualize the development and maturity of OCORA tender artefacts. This is done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

The development of CCS-OB requirements and tender artefacts published under [www.EuroSpec.eu](http://www.EuroSpec.eu) are separately scheduled.

## 3 OCORA Planning Results

In general, only a few operational workstreams will be continued, since with Europe's Rail Joint Undertaking activities have already been successfully transferred into the System Pillar and Innovation Pillar.

### 3.1 Road Map



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