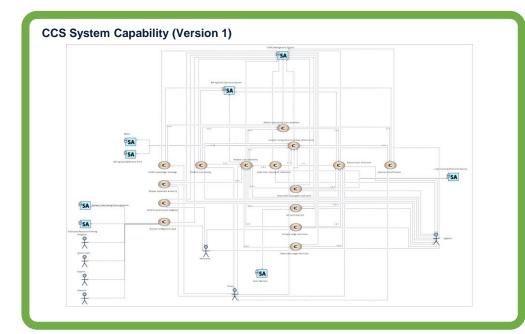
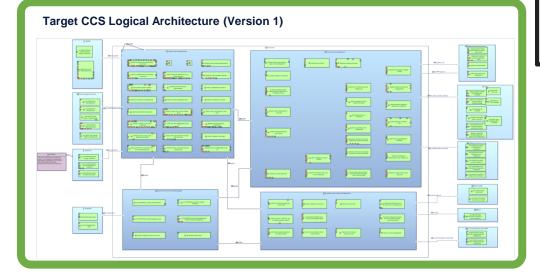


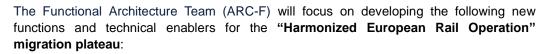
Task 2: Architecture

T2 ARC domain is responsible for the "coordination areas". Each coordination issue is not a design task per se, but fulfils a cross-domain, cross-task and SP-IP oriented roles, supported by the SP Core-group.

The generic target of the coordination is to provide the information for **external communication** and **Task 2 internal management** of a cross-domain, cross-task or SP-IP issues. The second target is a faster decision process, by collating the necessary information to allow key architectural questions to be answered.







- ETCS L2 Functionality based on System Version 2.3 or higher
- CCS Architecture based on: Harmonized Trackside Protection System ("TPS", combining a cleaned-up interlocking and RBC functionality specialized on ETCS L2) and Plan Execution System ("PE"; EAL)
- Safe traffic control for mixed traffic with trains with or without train integrity/train length information;
- Supervised maneuvers and harmonized ETCS shunting signals as implem. option
- All other interfaces of the System Pillar Target Architecture, which are perhaps agreed and published at this time, can be used for optional implementations

ARC-F will also focus on developing the following new functions and technical enablers for a "Digital European Railway" and an "Automated European Railway":

- Automatic Train Operation Grade of Automation to level 3 and 4
- Harmonized Remote Train Operation functionality (optional)





Task 2: Architecture



Lead STIP Deliverables

- STIP_5: High level logical architecture on system level 3: Names of the subsystems and interfaces 2024
- STIP_135: ETCS CR enhancements completion dates are defined in the Standardisation and TSI Input Plan (STIP)

Latest Achievements, Challenges and Design Decisions (to be filled periodically by the domain)

- Latest Achievements: The following achievements have been accomplished by ARC domain:
 - Achievement #1: Completed first version of the CCS System Definition
 - Achievement #2: Completed first version of the CCS System Architecture including interface catalogue and System Pillar Reference Architecture model
 - Achievement #3: Completed Granularity Principles Version 4 integrated into SEMP
 - Achievement #4: Completed first versions Standardisation TSI Input Plan Architecture Roadmap
 - Achievement #5: ETCS Change Request process integrated into CCM process and following the STIP change requests are being processed as planned.
- **Domain Current challenges:** The domain is facing the following challenges:
 - Challenge #1: Reorganisation with new roles and members for ARC2.4.
- **Design Decisions:** The domain has made the following design decisions that impact the Overall Model:
 - Decision: see achievements. Especially the functional allocation on higher level (aka System Level 3) is finalized on CCS level.

Deliverables Request for Service (SC2.4) – Year 3 [Oct-24 – Oct-25]

D01 ATP/ETCS overview - Sept 2025

D02 TSI CR Overview - Continuous

D03 High level logical architecture on System Level 3 - Continuous

D04 System Pillar Document and Release Plan ("DRP") - Continuous

D05 Support to the EGNOS Project - Dec 2025

Expected outcomes for sector review in the next 3 months

• The next review will be in Q2/2025: Complete System Level 3 architecture