

Task 3: TMS/CMS

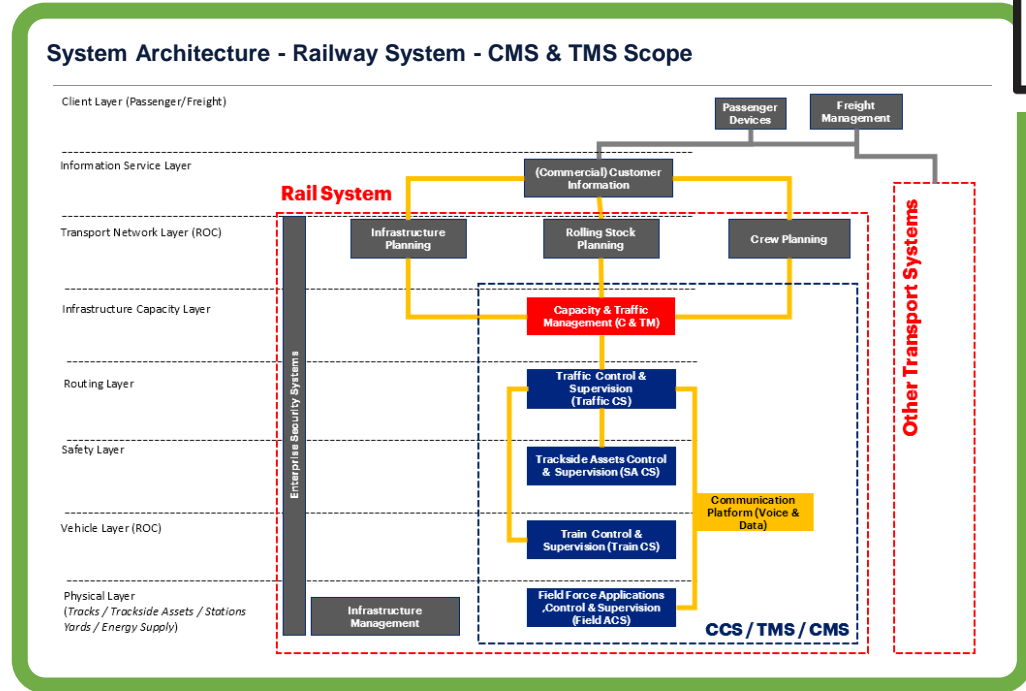
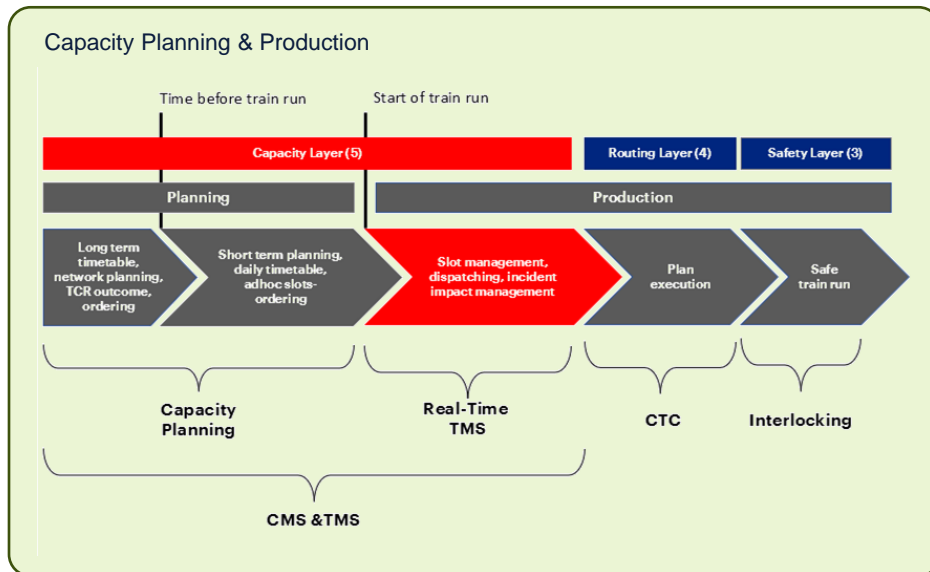


The Task 3 Capacity and Traffic Management is the domains responsible for all planning activities including producing the operational plan and keeping it up to date, based upon the RT-operational state and RT-operational events of a railway infrastructure provider.

The two main areas of activities are:

- **Capacity planning (CMS):** long and short-term Capacity planning (infrastructure planning, planning resulting from Temporary Capacity Restrictions (TCRs)) and,
- **Capacity production (TMS):** Capacity production based on capacity plan including its dispatching to Traffic CS and management of disruptions

The idea behind a European roof CMS & TMS is to strengthen the cooperation in the traffic planning and management in the form of a European network. The network is based on the full commitment of each RIM to implement guidelines which will allow a major improvement in the quality of international traffic management.



The Task 3: TMS/CMS Team will focus on developing the following new functions and technical enablers for the “Harmonized European Rail Operation” migration plateau and the “Automated European Railway”:

- Long-term and Short-term Capacity planning and support to defined Operational Processes
- Instantiation of an operational plan based on the capacity plan and real-time adaptation to the evolution due to the real-time field events
- Traffic management for any topology geometry according the published data model
- Conflict Detection and Solution and Operational Plan optimization
- Management of the impact due to incidents and collaboration with neighboring systems
- Integration into the Digital European Railway
- TMS / CMS: Full SP Task 3 architecture

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Lead STIP Deliverables

- **STIP_16: Integration of TTR messages (D03)** - tbd
- **STIP_17: Function distribution and Interface between TMS/TCS (D03)** - 2026
- **STIP_18: Function distribution and Interface between TMS/CMS (D02)** - 2026

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

- D01 Interface TMS/Traffic CS: Update Func. distribution and Interface between TMS/TCS** - Q3 2025
- D02 Recommendation of harmonization scope TMS/CMS** – Q1 2025
- D03 Integration of TTR Messages**– Q3 2025
- D04 Cross border variants analysis CMS & TMS** – Q3 2025

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

- **Latest Achievements:** The following achievements have been accomplished by the CMS/TMS domain:
 - **Planned 2024 Deliverables:** Released for SP domain, CG and Mirror Group review.
 - **Remit Plan 2023-2024- Summary of activities:** Cover document released to give a synthesis of 2024 activities
 - **CMS TMS Variants Executive Summary SPSG:** Cover document focusing on CMS/TMS Variants analysis, for SP STG
 - **Task 3 Kickoff:** meeting done, to agree and start 2024 planned activities.
- **Domain Current challenges:** The domain is facing the following challenges:
 - **TMS/Traffic CS interface :** Anticipate the finalization of the Interface TMS/Traffic CS specification, to support Motional design activity
 - **Domain Stability:** Ensure work continuity in SC2.4 period, replacing contribution SBB who left SP
- **Design Decisions:** The domain has made the following design decisions that impact the Overall Model: None

Expected outcomes for sector review in the next 3 months

- **Closeout Phase 2.3**
 - Document update and release according to Mirror Group and other stakeholders' reviews
 - Close Cover documents with integrations from SPCG review
- **Prepare Phase 2.4**
 - Set up of roles of team members in the RACI Matrix
 - Finalize 2025 planning with intermediate milestones in Polarion