

Beta - Architecture

Presentation Overview











Hardware / Physical View

- Components
- Scope
- Interfaces
- Building Blocks (1st and final Iteration)

Computing Platform

- High-Level Architecture
- Approaches

Functional / Logical View

- Components
- Scope
- **Interfaces**
- Building Blocks (1st and final Iteration)

Functional Interfaces of Selected Components

> ATPM

 VL

VS

TIS

NTC-APPs

FVA

- > AV
- APV













Hardware / Physical View

Hardware – Components

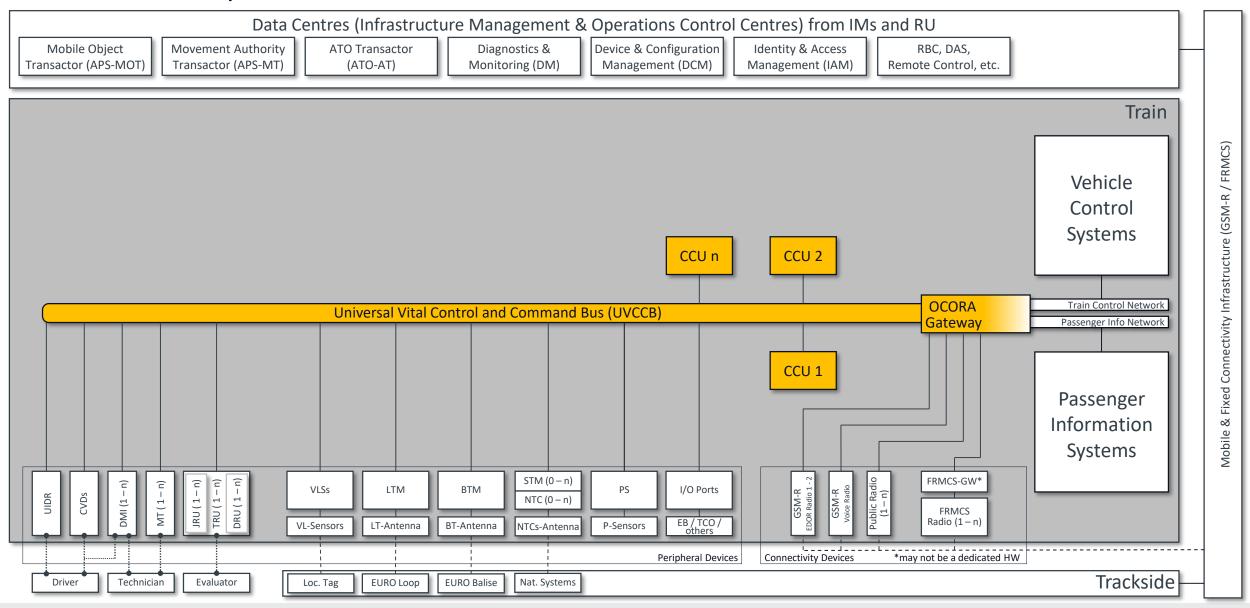














Hardware – Scope

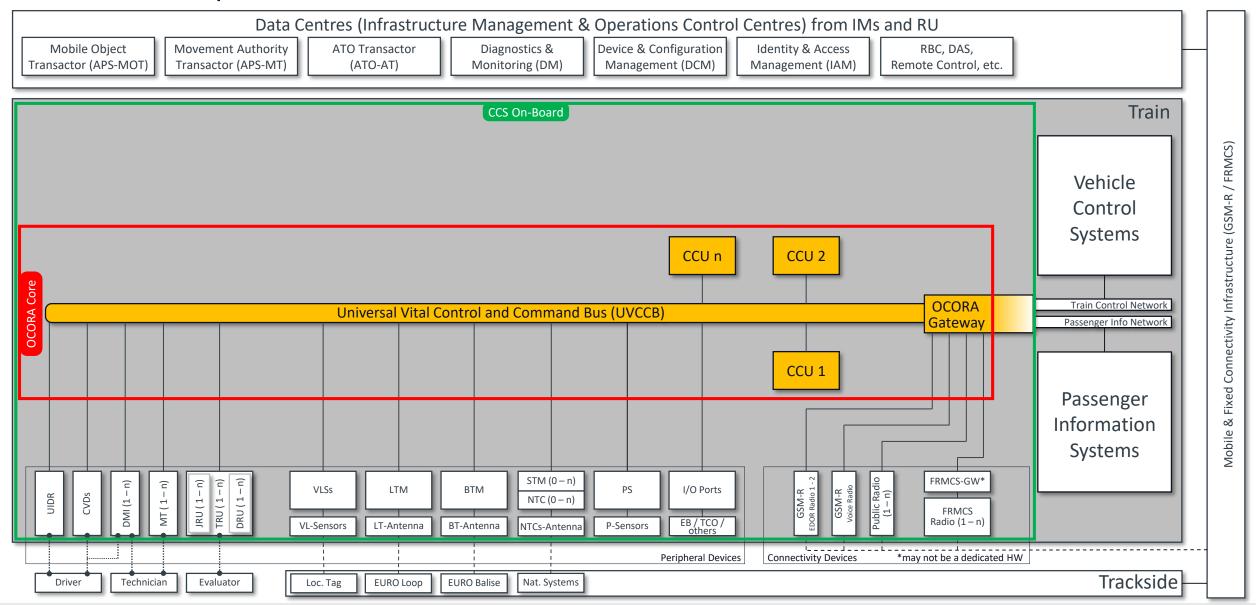














Hardware – Interfaces

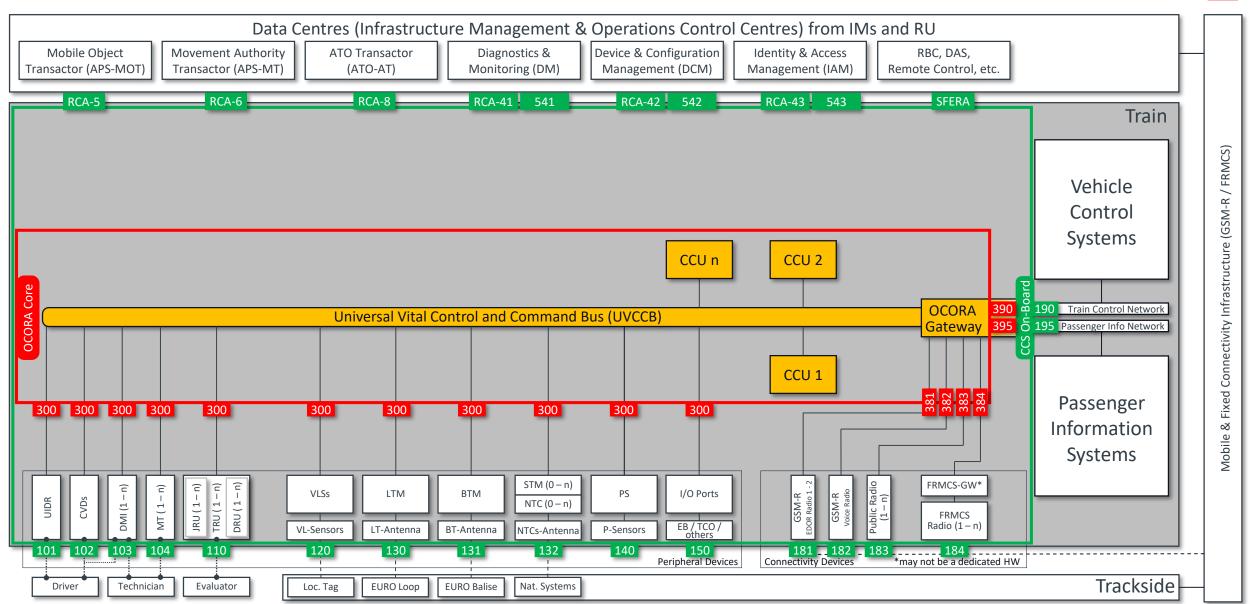














Building Blocks – Hardware – Initial Iteration

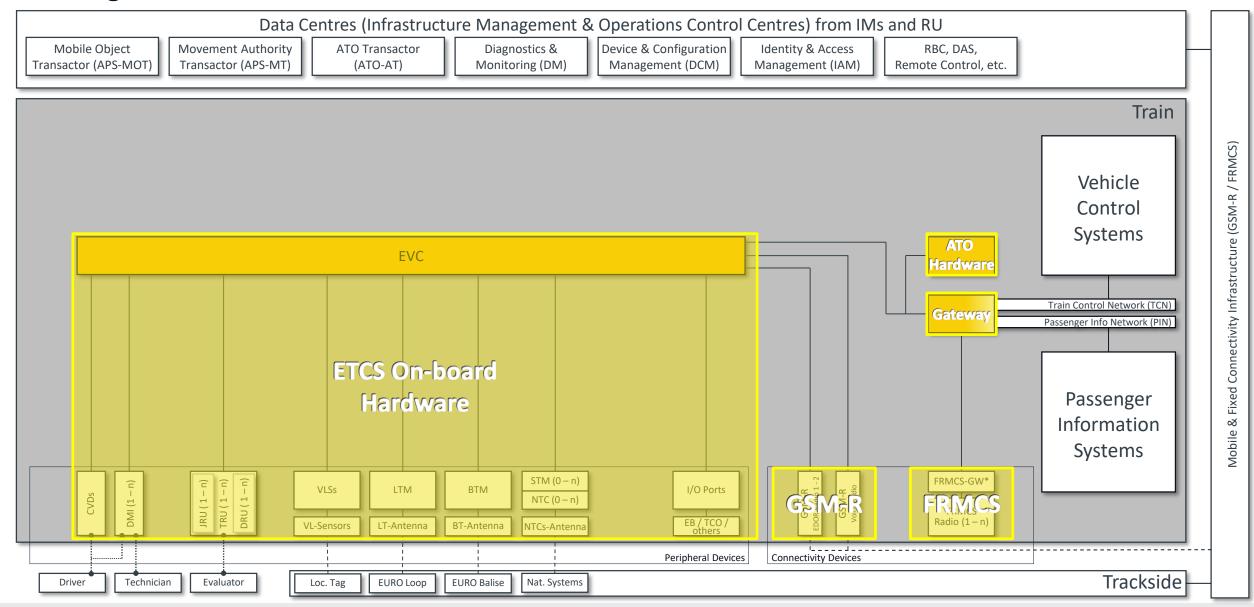














Building Blocks – Hardware – Final Iteration

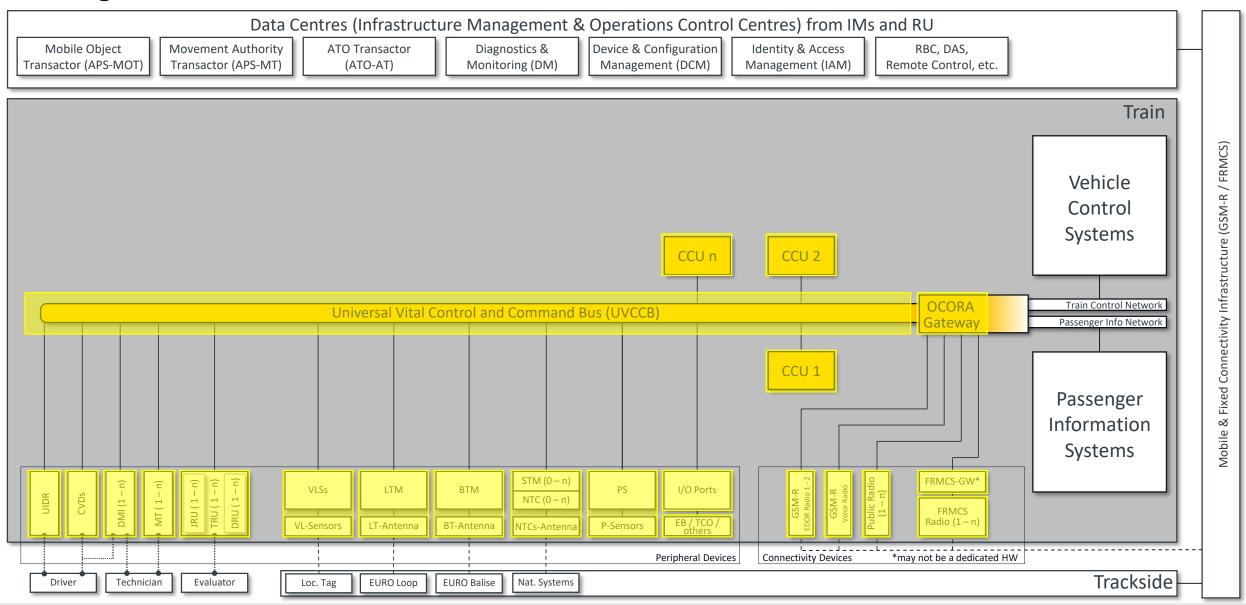
























Computing Platform – High Level Architecture

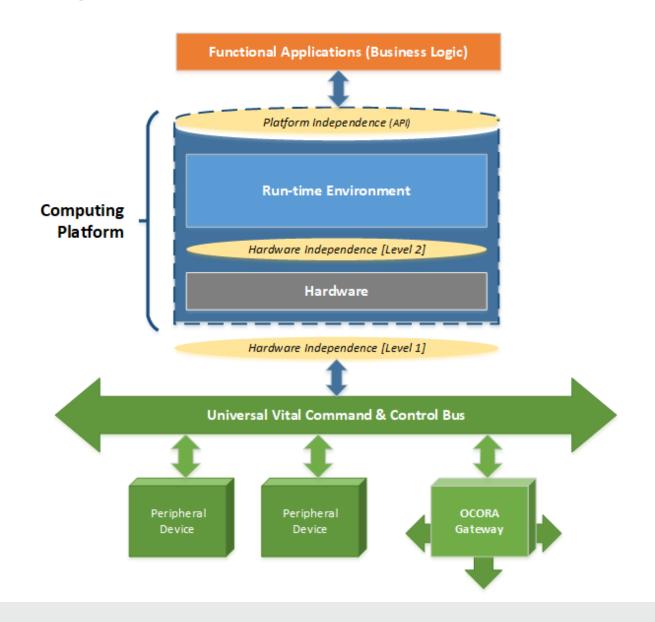














Computing Platform – Approaches

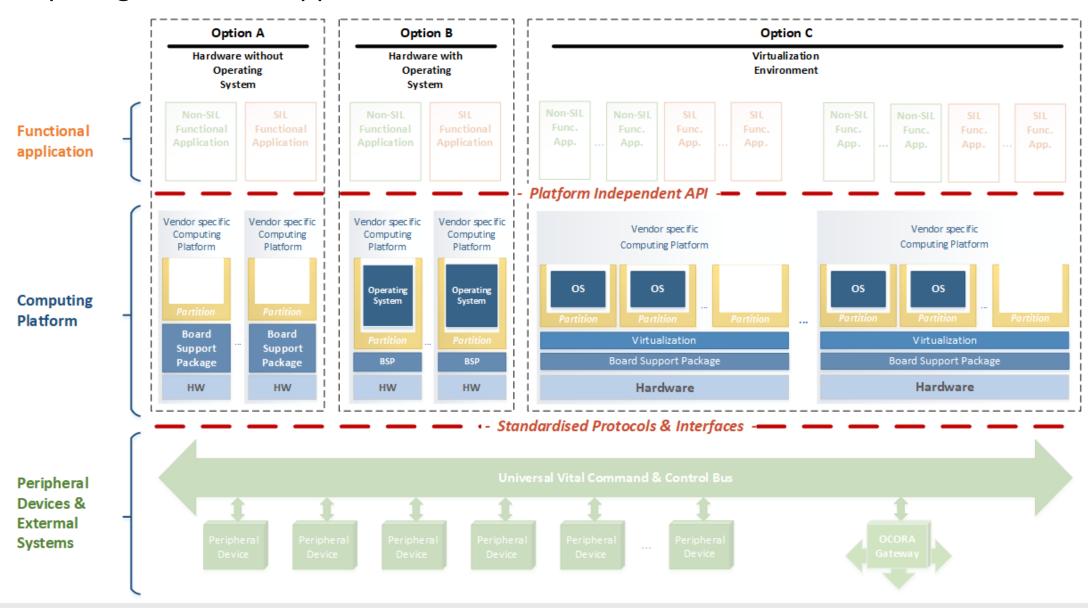
























Functional – Components

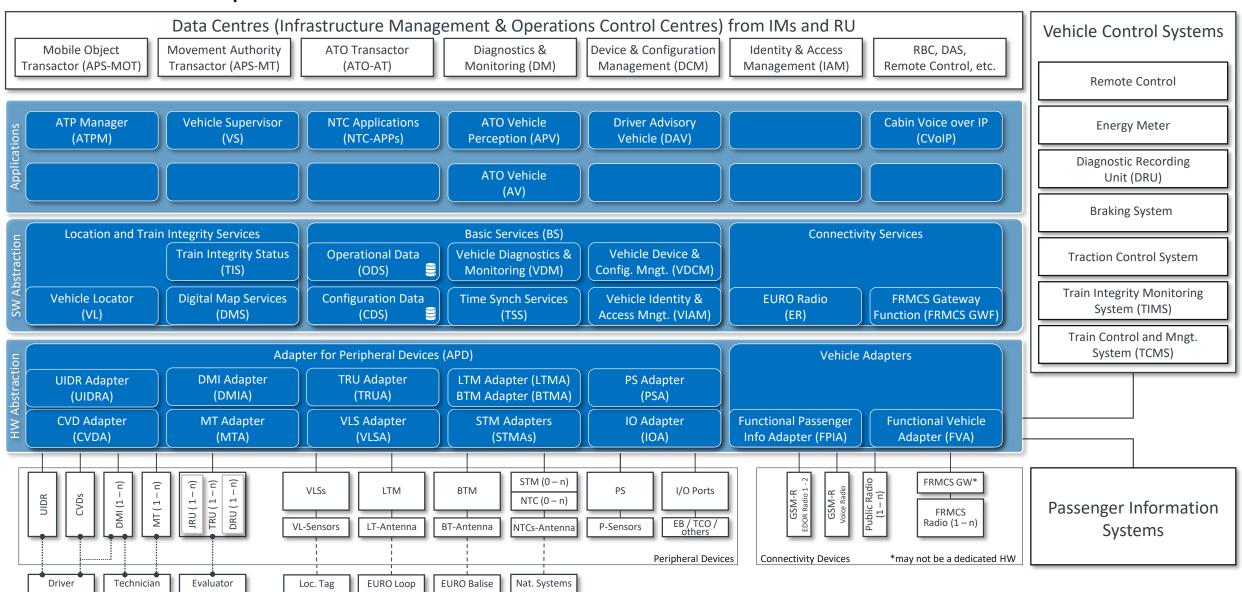










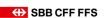




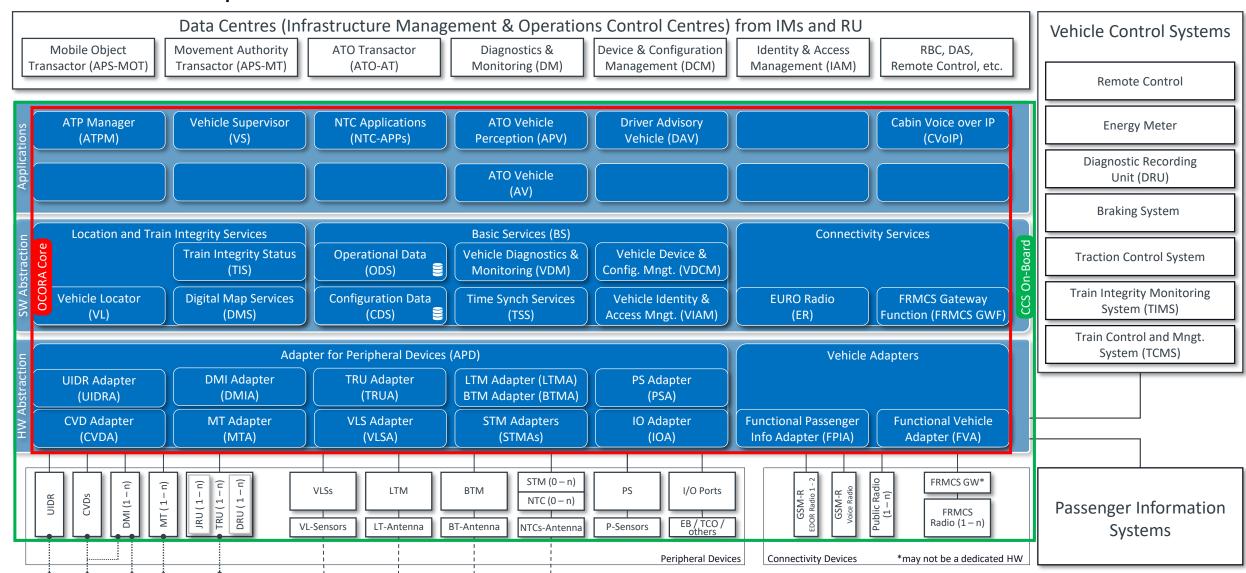
Functional – Scope











Nat. Systems

EURO Balise



Driver

Technician

Evaluator

Loc. Tag

EURO Loop

Functional – Interfaces

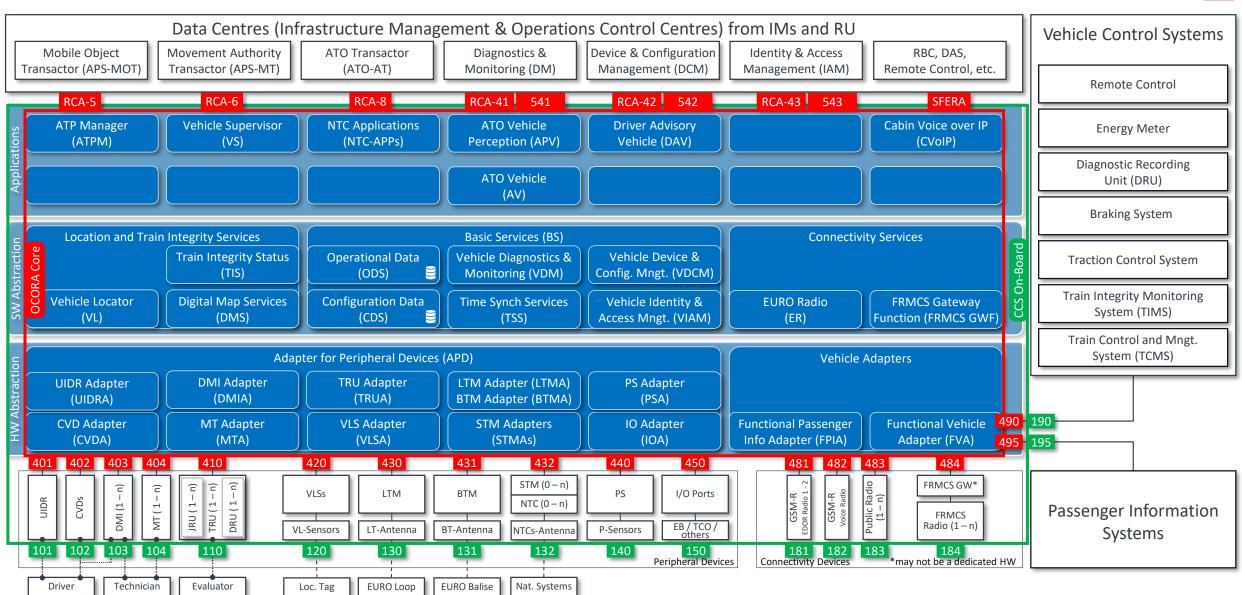










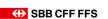




Building Blocks – Functional – Initial Iteration

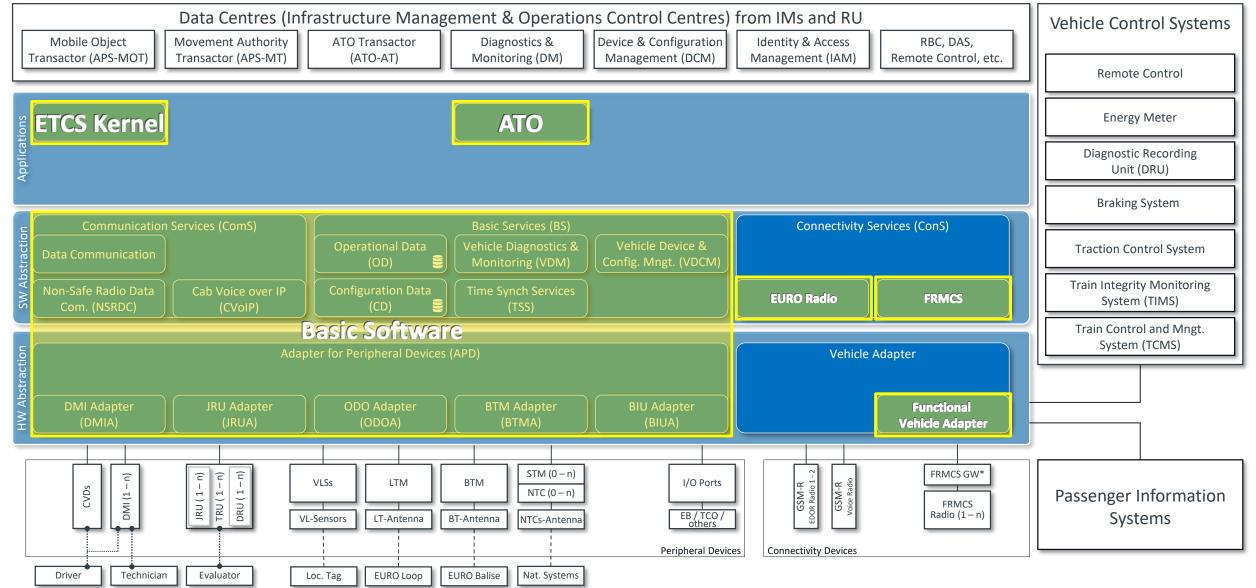














Building Blocks – Functional – Final Iteration

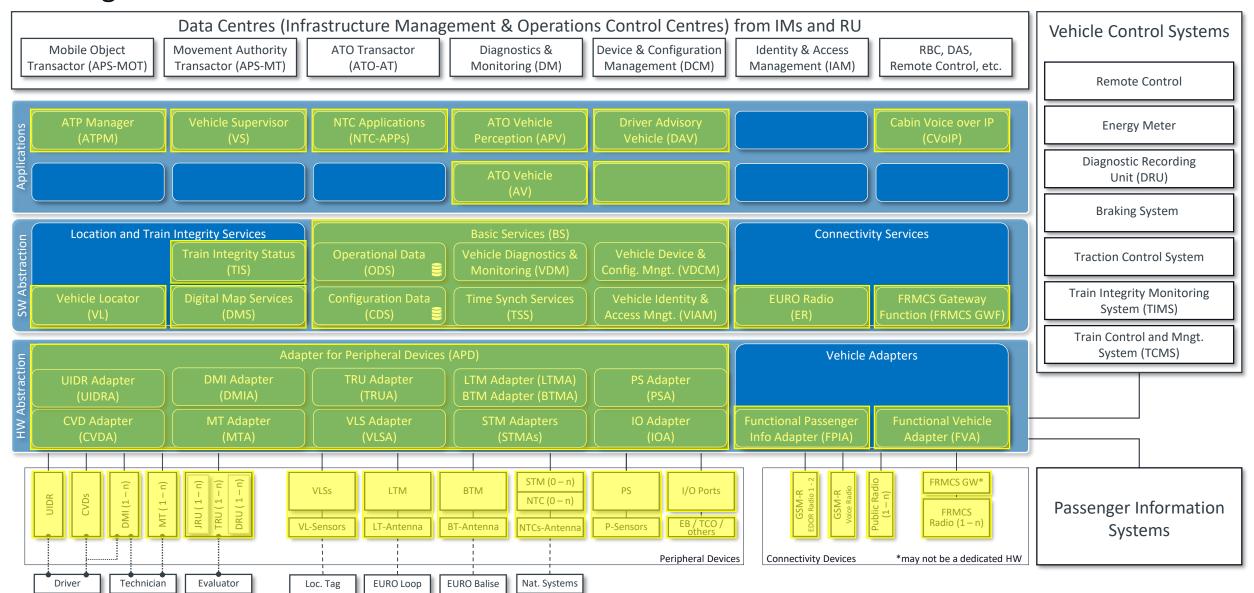






















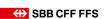


Functional Interfaces of Selected Components

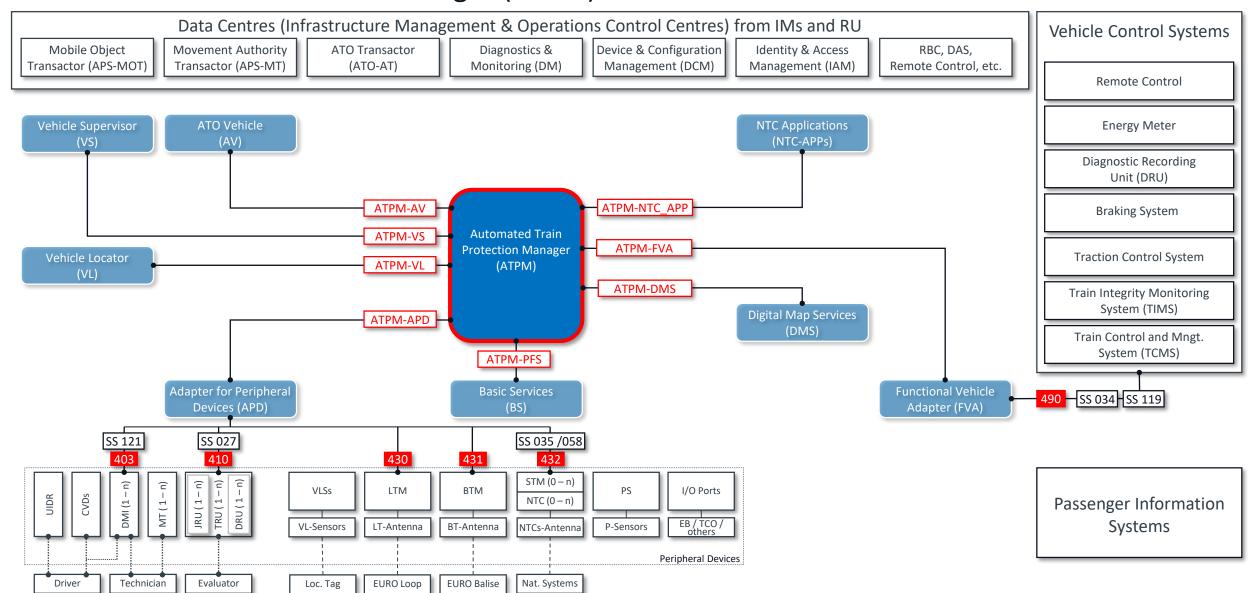
Automated Train Protection Manager (ATPM) – Functional IFs













Vehicle Supervisor (VS) – Functional IFs

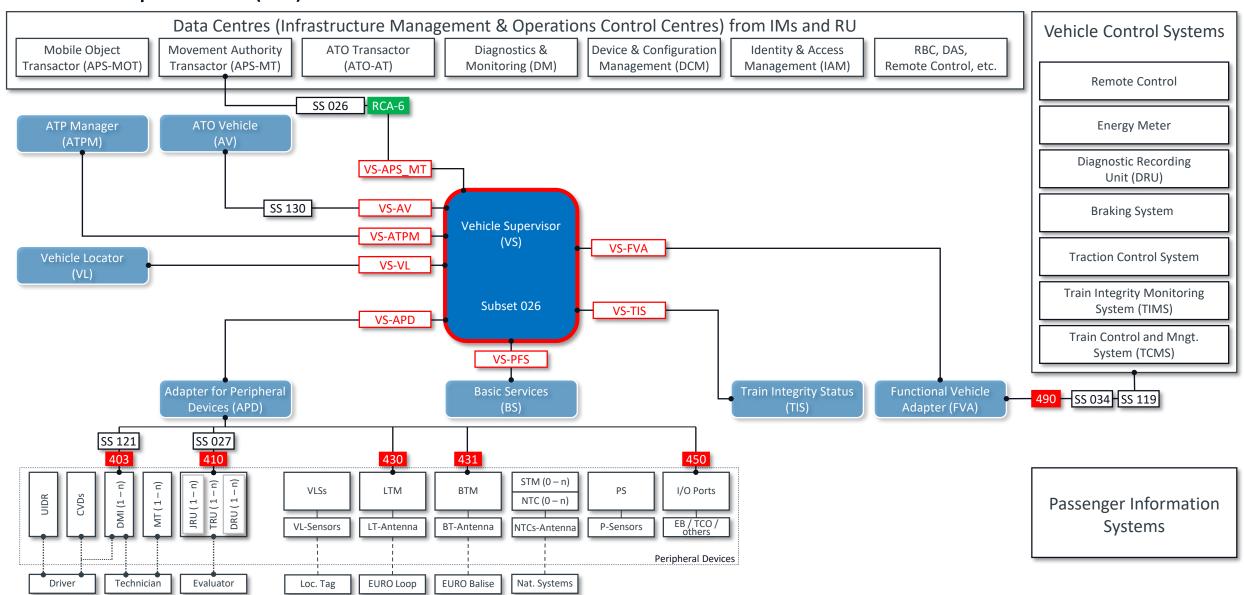














National Train Controls (NTC-APPs) — Functional IFs

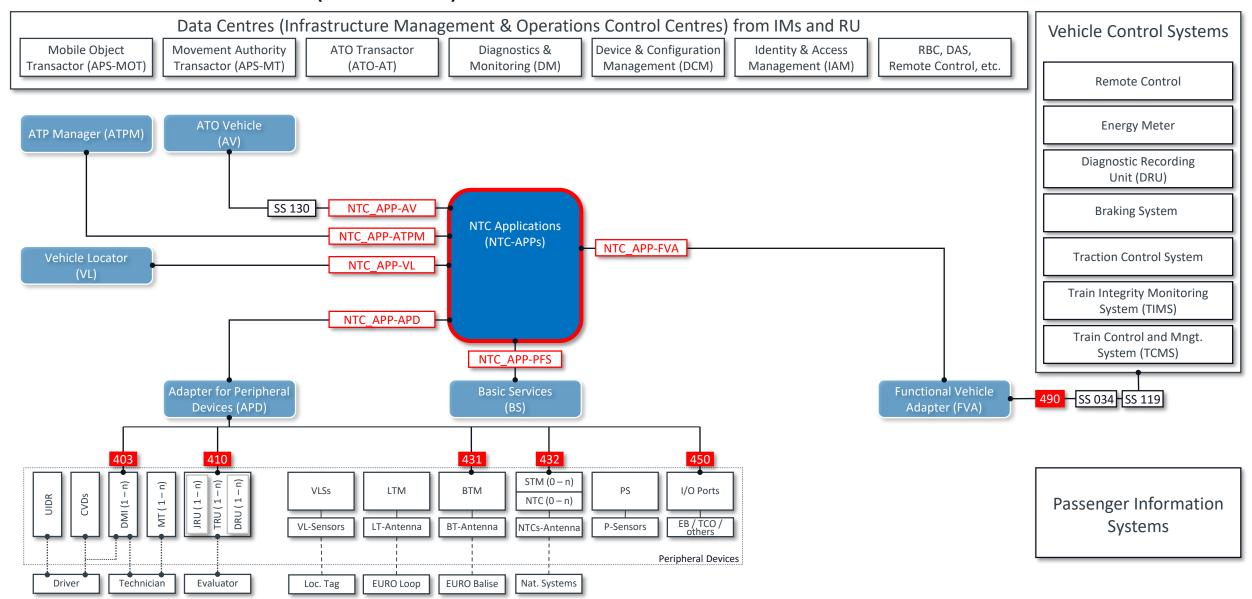














ATO Vehicle (AV) – Functional IFs

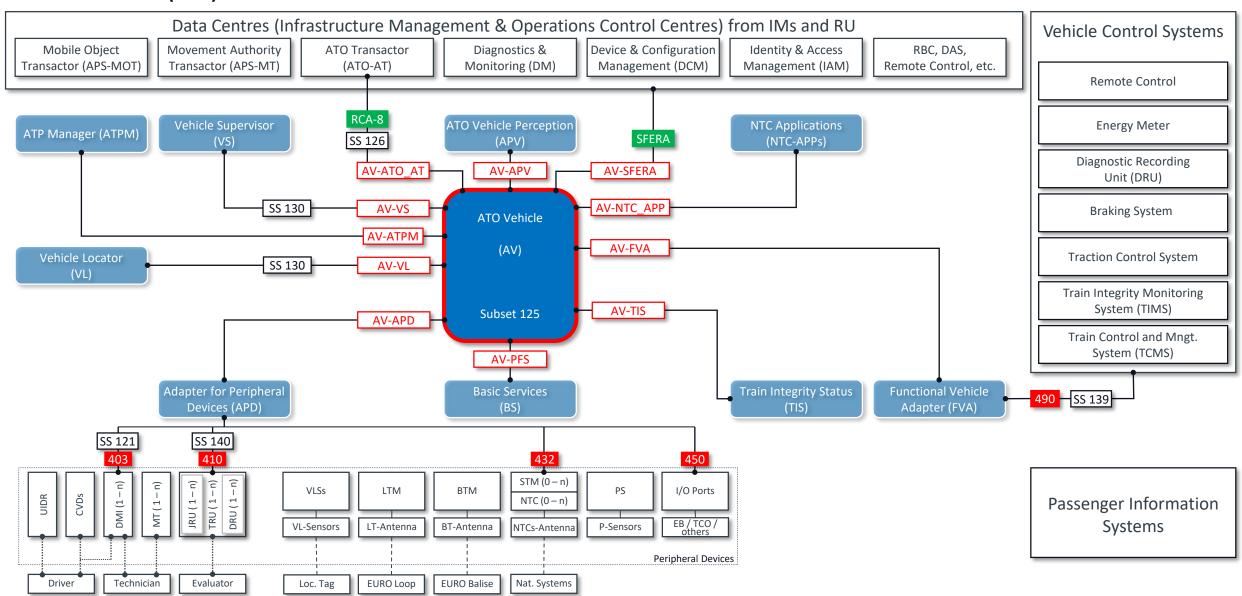










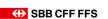




ATO Perception Vehicle (APV) – Functional IFs

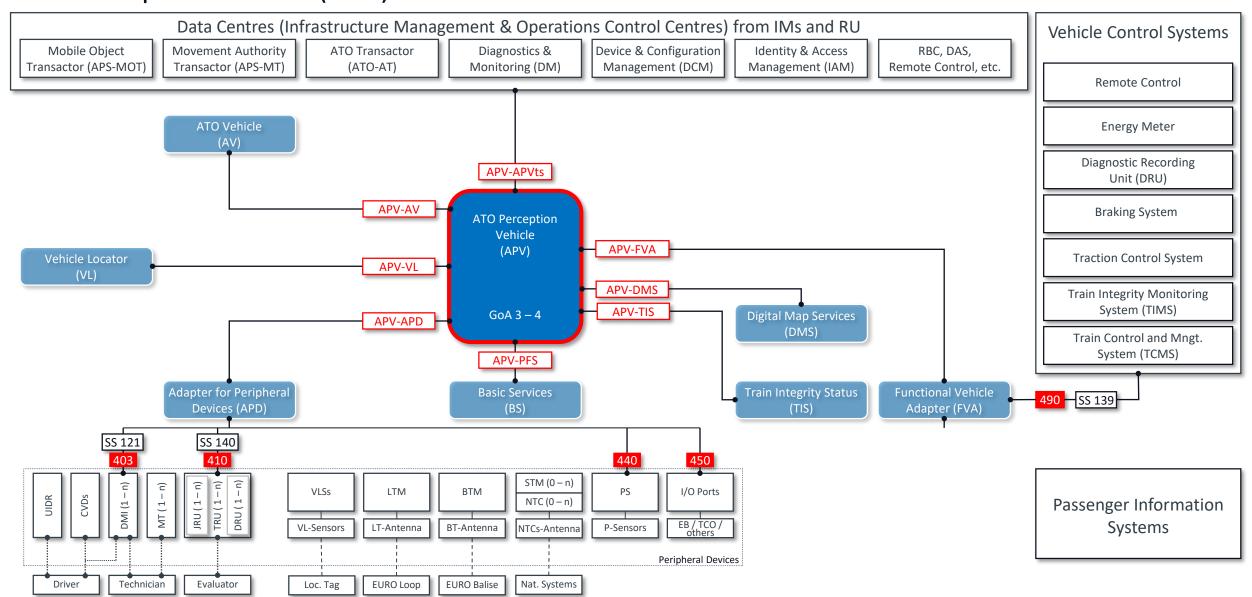














Vehicle Locater (VL) – Functional IFs

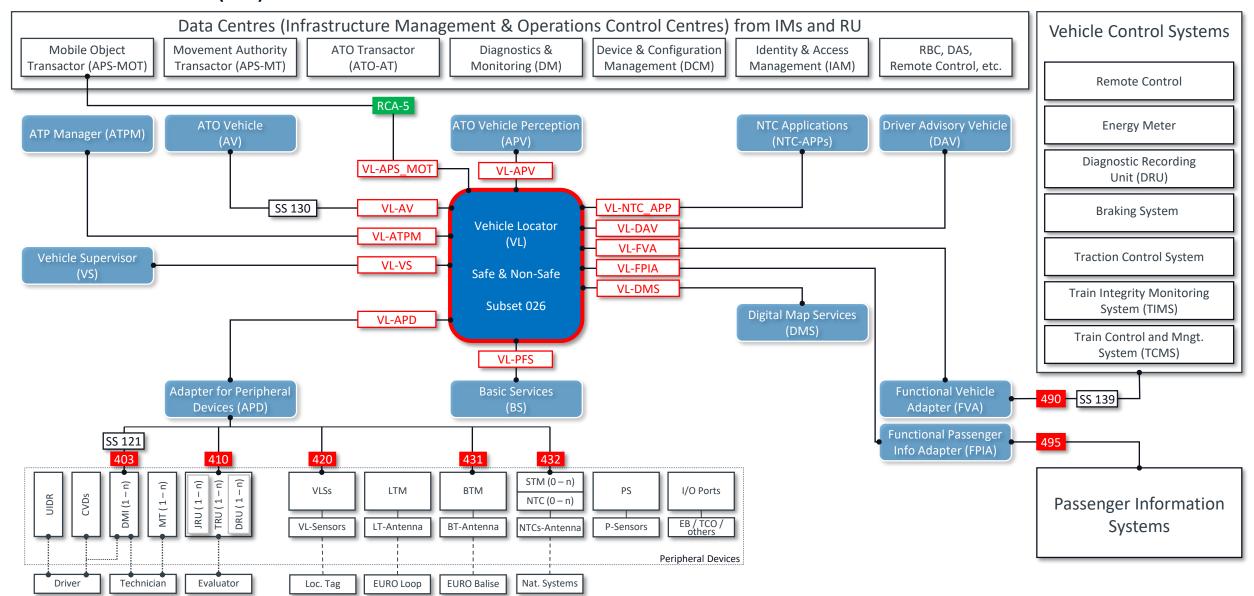














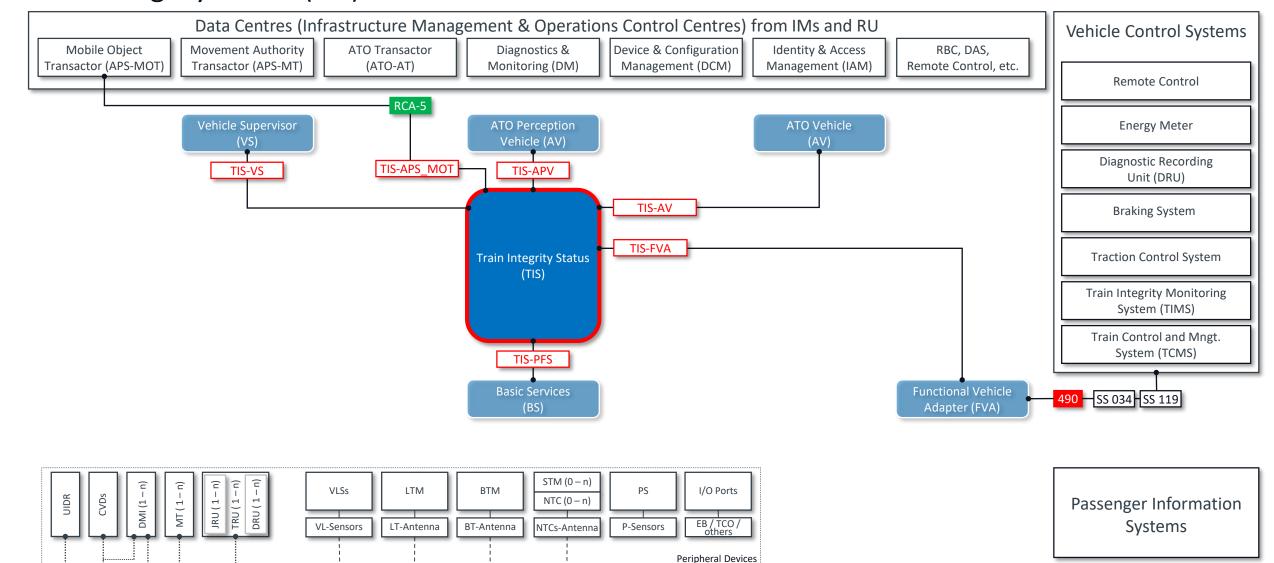
Train Integrity Status (TIS) – Functional IFs













Driver

Technician

Evaluator

EURO Balise

EURO Loop

Nat. Systems

Functional Vehicle Adapter (FVA) – Functional IFs (final iteration) 🔷 🚾









