

## Software Development for Specific Transmission Module (STM)

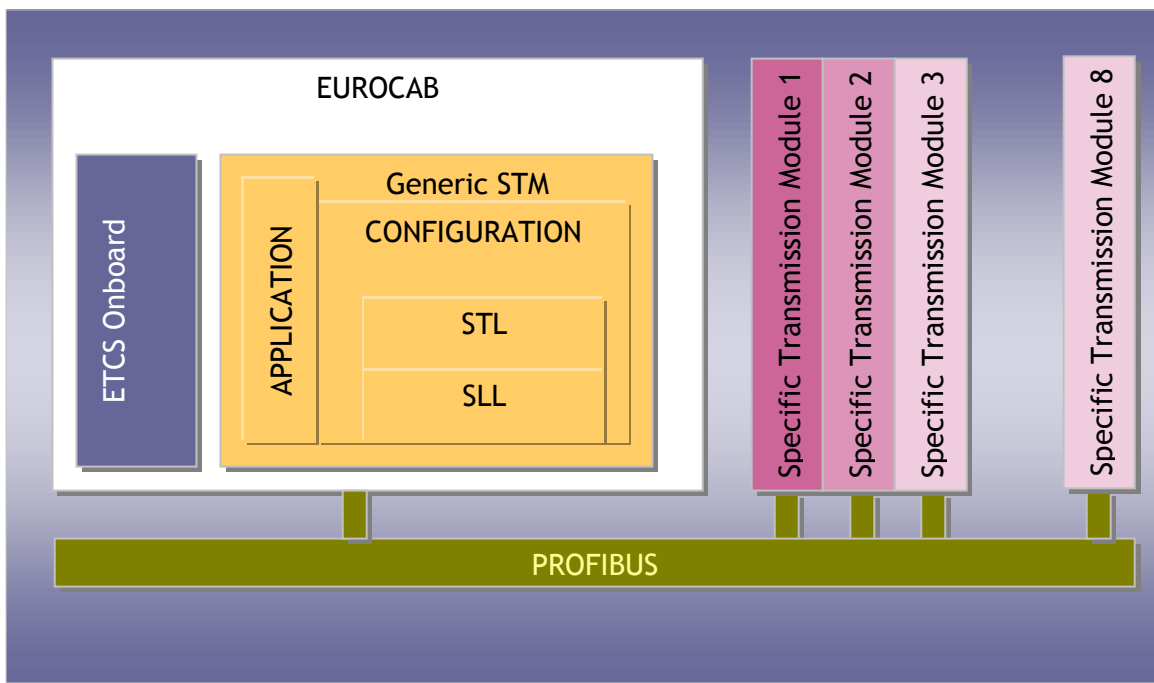
### System Overview

Specific Transmission Module specification was developed by Union Industry of Signaling (UNISIG) to run “European Train Control System” (ETCS) onboard equipped trains on National lines i.e. lines fitted with National equipment.

### Business Problem

To develop an interface between actual FFFIS STM and ERTMS onboard equipment.

### Diagram





## Solution Overview

### Technology

- European Train Control System (ETCS)
- Object Oriented Analysis and Design
- CENELEC 50128

## Development Platform & Tools

### Platform

- Motorola 68040/68020 based hardware on VME backplane
- HP9000-HP UNIX
- Windows PC
- GNAT & Alsys Ada Compiler

### Tools

- Telelogic TAU
- Rational RTRT
- Andromede for configuration
- Custom Simulator for functional testing on HP9000

## Salient Features

- Full Life Cycle Development Project as per CENELEC 50128 standards
- Porting Application layer to ColdFire platform
- Integrating application layer with new ETCS kernel
- Software integration testing using client's host simulator