

One Integrated Software Toolchain for Rail Vehicles

Reducing engineering effort with integrated software tools.

Integrated. Efficient. Transparent.

With Symphony Suite, Selectron offers a comprehensive and integrated software and information platform. It provides the right tool for every project phase - from engineering and configuration to analysis, visualization and maintenance.

A clearly structured toolchain with centralized information and documentation helps you work more efficiently, shortens time-to-market and reduces lifecycle costs.

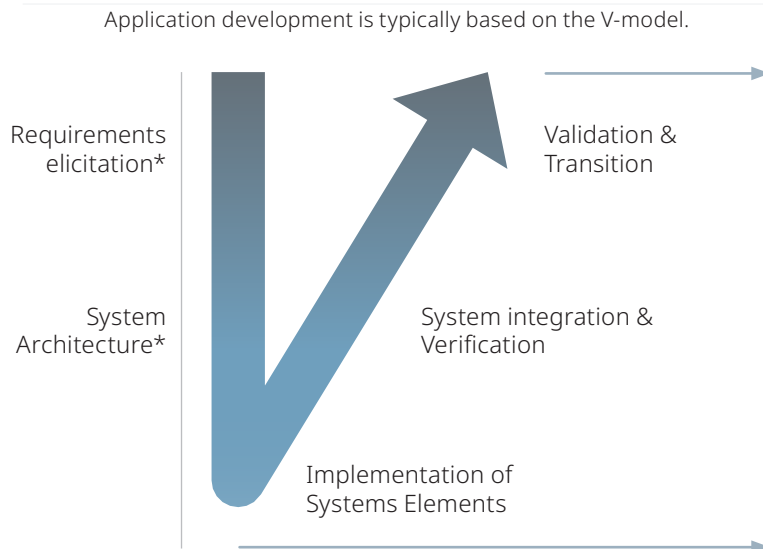
Complete toolchain for efficient train applications

The Selectron toolchain guides developers through the entire development process using the proven V-model.

CAP1131 enables the efficient implementation of the train application. POUtest1131 supports systematic verification, while SIM1131 enables realistic simulations. In the final phase, Concerto provides powerful functions for analysis and diagnostics.

In this way, development, testing, simulation, and diagnostics are seamlessly integrated.

**) By the user, using the appropriate tools*



Symphony Suite
Concerto
SystemParameter
TOP1131
POUtest1131
SIM1131
Maestro Designer
CAP1131

Why an integrated toolchain matters?

Single source of context

Reduces repetitive configuration across tools and project phases.

Earlier verification

Test applications before vehicle hardware is fully available.

Faster fault isolation

Provides diagnostic context from the vehicle directly to maintenance teams.

How you benefit.

Clear & structured

All tools, documents and product information in one place.

Efficient certification process

Certified development and testing tools facilitate the certification process.

Intuitive to use

Streamlined interfaces and intuitive workflows.

Flexible & scalable

From single devices to large rail vehicle projects.

Multilingual

Tools and documentation available in several languages.

Always up to date

Automatic update notifications keep your tools up to date.



SELECTRON

The right tool for every engineering task.

CAP1131

Engineering

Develop and commission rail vehicle control applications.

IEC 61131-3 programming: FB, SFC and ST
ANSI C support and reusable user libraries
Hardware configuration and parameterization
Communication setup, online monitoring and changes



TOP1131

Engineering

Centrally manage Selectron MAS controllers across the network.

Visual network topology
Automated batch updates of controllers
Data logging for development and commissioning

POUtest1131

Engineering

Automatically test CAP1131 code and applications.

Automated testing of IEC 61131-3 modules
Standards-compliant test reports
Early detection and prevention of regressions



SystemParameter

Configuration

Configure, update and commission vehicle systems quickly and efficiently.

Set communication and system parameters
Configure date, time, and related settings
Update firmware and applications with ease

Concerto Configuration

Analysis & Diagnosis

Define diagnostic data for reliable vehicle monitoring.

Configure diagnostic data sets (DDSs)
Define environment and process data groups
Prepare data logger events for vehicle recording

SIM1131

Analysis & Diagnosis

Simulate and test CAP1131 applications without additional hardware.

Virtual simulation of CAP1131 applications
Fast smoke tests without physical hardware
Comprehensive module tests with POUtest1131



Concerto Maintenance

Analysis & Diagnosis

Evaluate vehicle events and detect maintenance needs early.

Store recorded DDS data in a database
Filter and sort events for offline evaluation
Analyze event frequency and precise timestamps

Maestro Designer

Visualization

Create and test rail vehicle HMI applications with an intuitive graphical tool.

Rail-specific widgets for ETCS, diagnosis, video, and gauges
Trends, alarms, languages and day/night modes
Flexible visualization with integrated PC simulation
Supports safe applications up to SIL 2



Certified according to: CAP1131 (tool class T3) and SIM1131 (tool class T2): EN 50129, EN 50716 | POUtest1131 (tool class T2): EN 50128, EN 50657.

Next steps | Find the right toolchain for your application architecture.



Get in touch

Expert advice and tailored support for your projects.



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