



## Benefits

- Development and validation tasks move from road and hardware rigs to the workstation. Simulations can be done on an individual PC or on a network
- Build a vECU from Simulink models, C-code, x86 objects or binaries
- Run your partial or full-blown production application software and middleware in a vECU
- Compose a vECU out of multiple binaries to support supply chain workflow and IP protection
- Automated generation of substitution code (e.g., AUTOSAR RTE) for faster vECU bring up
- Vendor-independent AUTOSAR MCAL Plugins for basic software configuration tools (e.g., Elektrobit tresos Studio)
- Protect your IP by exchanging binary simulation components with your supply chain

## Features

### SiL Execution Platform

- Windows and Linux support
- Enables Level 1 through Level 3 abstraction levels
- Cloud-readiness
- Customizable graphical user interface
- Headless mode enabling regression test use cases
- Open- or closed-loop simulation capabilities
- Silver supports the FMI standard 3.0 for Co-Simulation, FMI standard 2.0 for Co-Simulation and Model Exchange
- Deterministic debugging on source code level with IDE support (e.g., Visual Studio Code, Eclipse, etc.)
- Rapid Control Prototyping
- Customizable simulation run modes (as fast as possible, real-time, etc)
- Create and handle complex, high-fidelity simulation environments featuring entire vECU networks and environment models
- Read and write access for simulation variables during run-time with industry standard data formats like MDF, MF4, DAT, MAT, CSV, etc.
- Virtual bus support and monitoring on network protocol level for CAN, Ethernet, LIN, and FlexRay
- Python 3 scripting support for simulation stimulus
- Silver Remote Scripting API to control Silver remotely via Python
- CTC++ and GCOV Code Coverage measurement
- Powerful Restbus modeling capabilities to compensate software shortcomings

### Connectivity

- Connect Silver to Synopsys test automation tools like TPT
- Connect Silver to Synopsys verification tools like Virtualizer
- ASAM XIL support for 3rd party test automation tools (e.g., tracetrionic ecu.test)
- Connect Silver to hardware test rigs with standard protocols: CAN, Ethernet, LIN, FlexRay
- Interoperability with traffic and vehicle simulators like IPG CarMaker
- Execute a Silver vECU directly on a HiL platform
- Use measurement, calibration and diagnostic (MCD) tools like CANape or INCA to interact with the Silver vECU

## Support

- Free, self-paced foundation trainings
- Instructor-led trainings
- Many example setups and extensive product documentation
- Online forms for problem reporting
- Co-start and engineering services led by tool experts
- Flexible server-based license management incl. borrowing
- ISO26262 tool qualification support