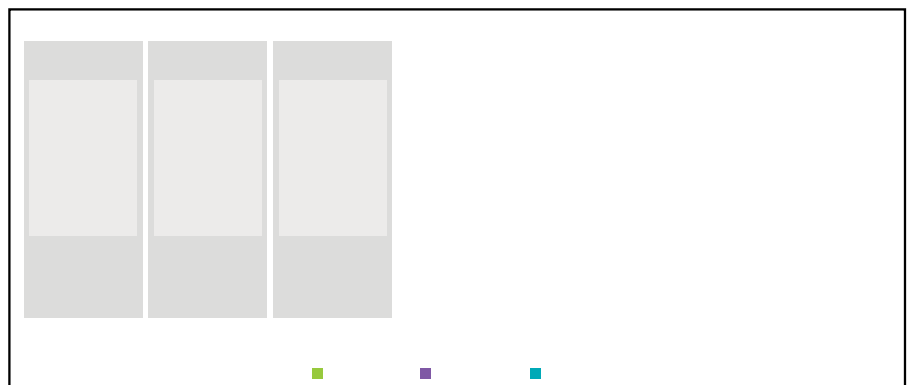


Silver is a Software-in-the-Loop (SiL) solution to create and run virtual ECUs (vECUs). It provides an early, scalable, cost-effective, and deterministic simulation platform for ECU development, functional test, and validation.

Increasing software complexity further delays the availability of ECUs due to larger and time-consuming iteration cycles. Automotive manufacturers need to test their ECUs as early as possible, ideally before HW is available to meet aggressive time-to-market schedules and with that, reduce costs. Virtual ECUs are key to fast feedback loops and thus ensure the quality of complex control software.

Silver accelerates software development by enabling suppliers and manufacturers to integrate, test, and debug SW, ahead and independent of HW test rigs and prototypes. Silver supports application integration, middleware integration, and operating system integration use cases (Level 1 - Level 3 vECUs, see Figure 1). With that, Silver can isolate software modules, software layers and any combination of software modules in ECU software of any complexity, and enables vertical, horizontal and hybrid integration tests in the early stages of development.

By supporting automotive standards like ASAM XIL, AUTOSAR, FMI, CAN, Ethernet, etc. Silver seamlessly integrates into every ecosystem and test automation framework. To further increase the simulation fidelity with production code drivers, Silver can be coupled with Virtualizer, Synopsys' solution for partial and full binary SW stack integration.



- 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

- Windows and Linux support

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