

TWO STANDARDS, ONE TOOL CHAIN

ASAM XIL's API for model access is used in FMI-compliant tools. Due to a collaboration between ASAM and the Modelica FMI project, the model access port in ASAM XIL is used as the functional mock-up interface for applications.

- Choose from a wide range of FMI-compliant simulation tools for your test system.
- Seamlessly integrate ASAM XIL-compliant test automation tools and FMI-compliant simulation tools.
- Reconfigure your test stand with different FMI simulation tools without major efforts.

Main contributors to the standard:



Open-source software development:



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A large graphic with a dark blue background. It features several white circular icons connected by lines, representing a network or tool chain. The icons include a person, a server rack, a computer monitor, and various test equipment. The text 'TESTING IN-THE-LOOP WITH ASAM XIL' is prominently displayed in white and yellow. A yellow circle in the bottom right corner contains the text 'Tool Connections without Barriers'.

TOOL CONNECTION

MIX AND MATCH THE BEST COMPONENTS

ASAM XIL is an open API standard, which connects test automation tools and test benches. The API is vendor-independent, allowing users to choose the best components from different tool vendors and integrate them without major efforts into one test system.

- Use the same test automation system in all testing stages, e.g. **model-in-the-loop (MIL)**, **software-in-the-loop (SIL)** and **hardware-in-the-loop (HIL)**.
- Use encapsulated access to important test system components, such as access to the simulation model, ECU software, ECU diagnostics, ECU electrical components and the network.
- Easily connect the best hardware with your preferred simulation software.
- No more tool-proprietary data formats and hardware incompatibilities.

TEST EXCHANGE

EXCHANGE TESTS WITHOUT BARRIERS

ASAM XIL decouples tests from the test system, so that tests can be written once and re-used on different test benches without major migration efforts.

- Reuse test cases within the same automation software on different test hardware.
- Exchange test cases between customers and suppliers.
- Avoid test errors due to wrongly converted units and physical dimensions.
- Reduce training costs by applying the same knowledge at different test benches in your company.

OPEN-SOURCE SOFTWARE

SAVE DEVELOPMENT COSTS WITH OPEN-SOURCE SOFTWARE

ASAM XIL comes with a C# source code library, which contains open source software that can be used to implement the XIL API. It covers a significant amount of the standard's non-competitive API methods. The software was written by an external service provider which guarantees high quality and availability of technical support.

THE SOFTWARE CONTAINS:

- C# source code for XIL framework components
- 484 methods
- 8662 lines of code
- Estimated cost savings: € 50 000,-

ASAM XIL 2.0 System Architecture

