

# TestSuite

## Systematic Automated Controller Testing



### Process Integration

IAV TestSuite is a tool that supports the “test execution” phase of software development. The use of XML language provides open formats for test projects, including process information and configuration data. Open interfaces for import/export filters and test components from an add-in concept allow the tool to be incorporated into any process and testing environment (e.g. QualityCenter).

### Test Management

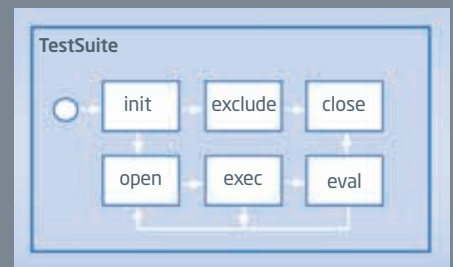
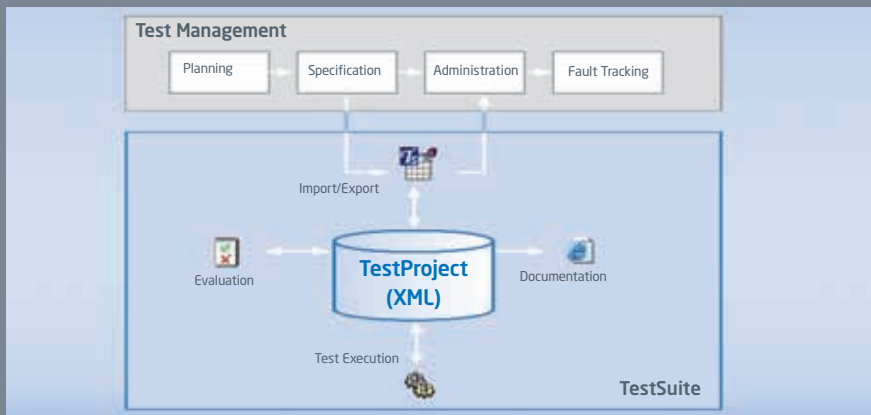
Set-up data for the testing project activity is managed by utilizing test configurations, with cases filed hierarchically in the tool’s project structure. A test case consists of a structured sequence of test steps, subject to a workflow that constantly reveals its status, including execution and evaluation progress. Results and evaluations are saved on a step-related basis. All logs, measurements and other test-sequence data are archived on a project-related basis which allows for the data to be clearly linked to the test specification at any time.

### Features

- ▶ Mapping of “Test Execution” sub-process
- ▶ Automation of planning, execution, evaluation and documentation
- ▶ Simple and transparent in application
- ▶ Modular and extendible as a result of using XML and add-ins

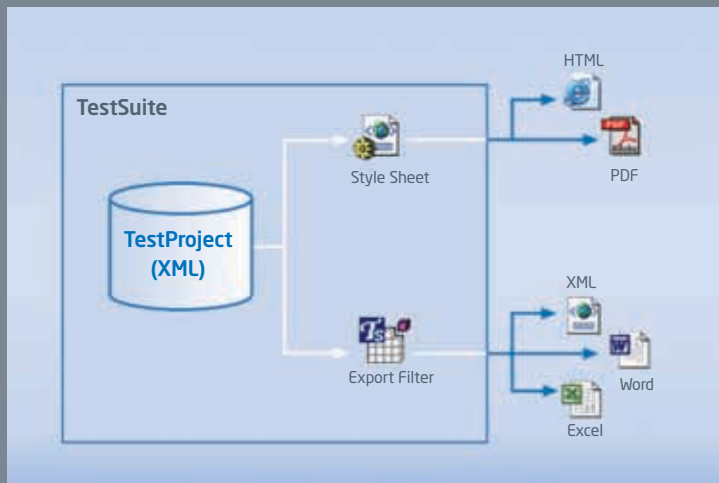
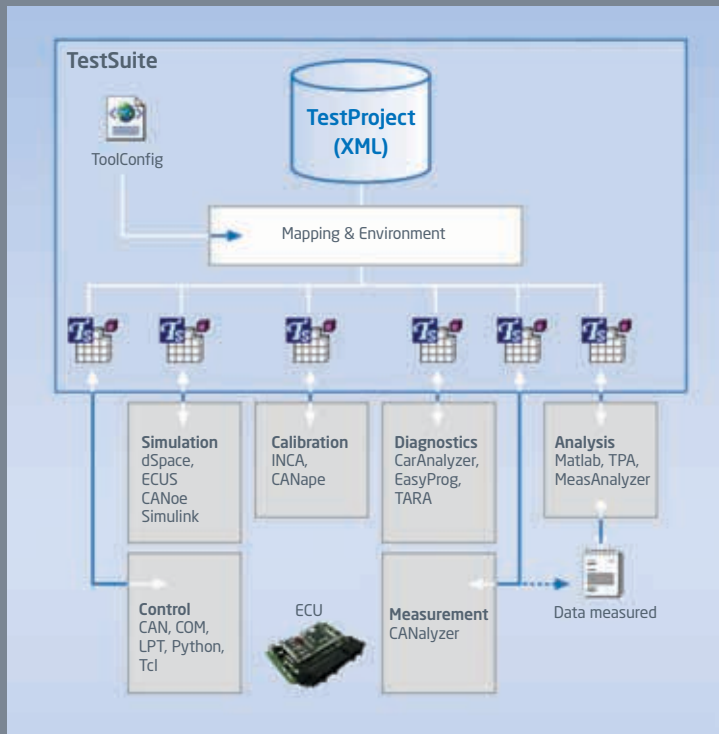
### Application Areas

- ▶ Review, verification and validation of models, software, hardware, components and systems
- ▶ Automated MiL, SiL and HiL testing
- ▶ Automated, prompted or manual testing



Test Case Workflow





### Test Environment

Test components enable communication with multiple hardware and software systems and can each be installed and licensed through the integrated setup feature. Function mapping provides the link between test project and configured test environment.

Test projects can be executed with flexibility in different environments (e.g. laboratory station, HiL simulator or vehicle) with varying degrees of automation (fully automatic, prompted, manual) without changing the test specification.

Subject to change without notice, effective: E 03/2009

### Test Documentation

Test reports and protocols can be produced at your fingertip. Style sheets (XSL) are used as standard for creating documentations with flexible content and layout. Client-specific reporting and communication formats can be generated by using export filters programmed and installed by the user.