vTESTstudio

Comfortable Development of Automated Test Sequences for Embedded Systems

What is vTESTstudio?

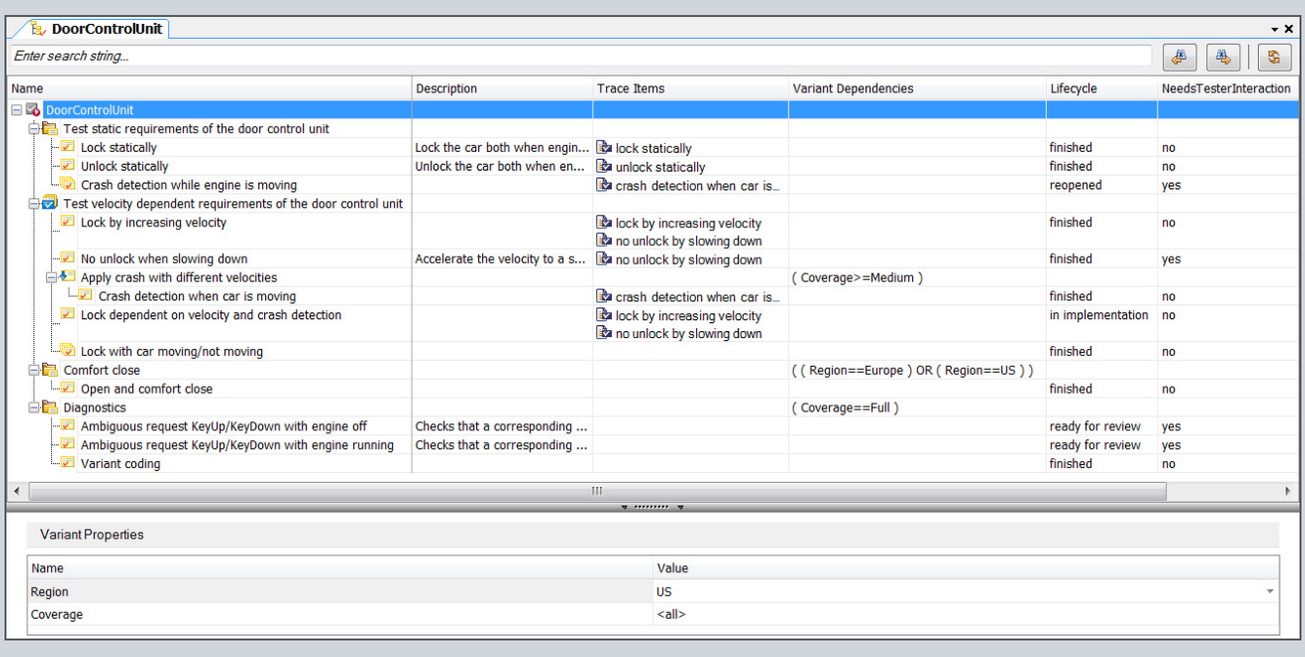
> A high-performance development environment for creating test sequences
> Can be used in all product development phases – from model tests, to tests that support development, to tests on the HIL test bench
> Seamlessly integrates both proven and new types of test design methods and test notations
> Generates test sequences which can be executed with the CANoe test sequencer in real-time and evaluated in detailed reports

Highlights of Version 3.0

> **Ribbon and tabs** sorted by application areas
> **Test Case Overview** for a quick overview of all test cases including their attributes and trace items
> **Navigation to test cases, test commands, etc.** from within other tools (e.g. CANoe, test management systems ...)
> **Connection to MS Visual Studio** to create and maintain C# code for vTESTstudio projects
> Full **multi-monitor support**

Overview of Advantages

> **Broad range of applications** through the use of various test design editors
> **Flexible parameterization** of test sequences with scalar values, test vectors and stimulation curves which can be accessed from all test design languages
> **Universal variant support** for structure, implementation and parameterization of tests
> **Simple maintenance** of test projects on account of the modular structure and a variety of structuring options such as libraries and folders
> **Direct access to XIL test environment symbols** in the test sequences (HIL, SIL, MIL, ...)
> **Universal traceability** of externally defined requirements and test specifications in test implementation and test report
> **High test coverage** without extensive programming thanks to the support of parameterized test case lists
> **Open interfaces** for simple integration into existing tool landscapes



Quick overview of all test cases in a test unit with the Test Case Overview of vTESTstudio

Test Design Editors

Depending on the task and requirements involved, users can switch between the various complementary test design techniques integrated into vTESTstudio for the development of automation sequences.

> **Test tables:** Creation of test sequences from pre-defined and self-defined test commands in tabular form without the need for programming skills

> **Programming in CAPL and C#:** Definition of sequential or event-based test flows for asynchronous preprocessing of measurement values

> **Graphical test design notations (as separate option):** Modeling of test sequences in graphical notation or state diagrams for automatic test case generation simplifies reviews of complex test scenarios

Interfaces, Bus Systems and Protocols

> **Test sequencer:**
CANoe is required for test execution. The range of functions that can be used in vTESTstudio depends on the CANoe version.
- Minimum: CANoe version 8.5 SP5 / 9.0 / 10.0
- Recommended: CANoe version 11.0

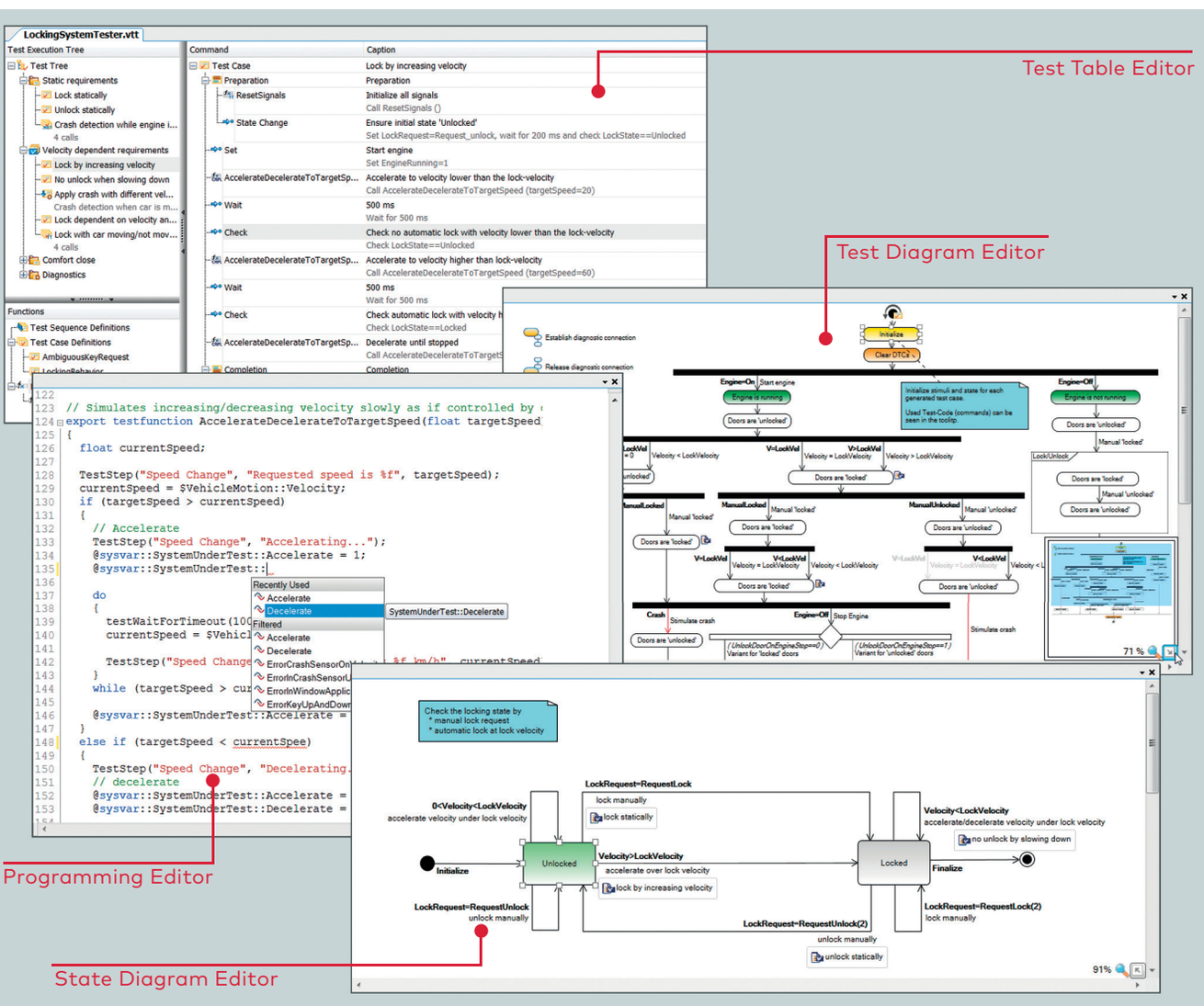
> **Test data management:**
- IBM Rational DOORS from Version 8.1
- IBM Rational DOORS NG / RQM
- Siemens Polarion ALM
- PTC Integrity
- Open interfaces for integration into third party systems

> **Bus systems:** CAN, LIN, FlexRay, Ethernet, WLAN, ARINC 429

> **Protocols:** J1939, KWP2000, UDS, K-Line

> **Calibration:** XCP

More information: www.vector.com/vTESTstudio



Selected editors in vTESTstudio for table-based, graphical and programming-based creation of test sequences