

ANSYS® SCADE Test™ 17.0



ANSYS SCADE Test, a product line of the ANSYS embedded software family of products and solutions, provides test engineers with a complete testing environment for requirements validation, and test case creation and management. It allows automation of test case execution both on host and on target, measures coverage and manages test results for any SCADE application.

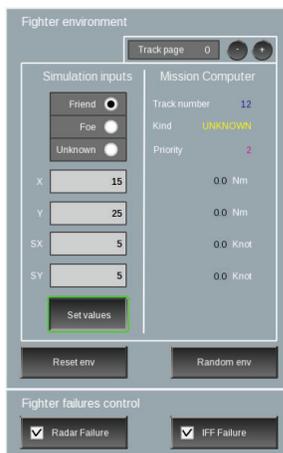
Test creation and maintenance, along with test execution and coverage analysis, are very time-consuming activities. Test engineers that use SCADE Test for verification and validation (V&V) activities now benefit from best-in-class technology in both a model-based approach and a cost-effective testing environment, which allow them to significantly reduce testing efforts.

Requirements Validation and Test Creation

Requirements Validation

SCADE Test Rapid Prototyper enables you to create interactive panels using predefined widgets (buttons, sliders, etc.) to interact with the application under test. It empowers model simulation, including connections with ANSYS SCADE Suite®, ANSYS SCADE Display®, ANSYS® Simplorer®, and any other tools with easy-to-design interactive graphical panels. Early requirements validation capabilities include:

- Graphical panel design from a library of predefined widgets (controls and indicators) including next-generation human-machine interface (HMI) concepts such as gesture recognition and graphical animation.
- Interactive graphical panels for debug and simulation sessions
- Extensible library and customizable widgets
- Unified project structure across SCADE products for managing project files and resources
- Ease of resource table management (color, line/width stipple, texture, font, symbol, picture)
- Variables dictionary management
- Automatic generation of executable applications for Windows®/PC, Apple® iOS, or Android™ platforms at no runtime fee
- Integration with ANSYS SCADE Suite model-based development environment, ANSYS Simplorer, and other FMI-compliant tools
- FMU proxy generation for distributed/network simulation in FMI-compliant tools



Testing Environment for Host

ANSYS SCADE Test Environment for Host provides an interactive and a batch user interface for applications developed in SCADE Suite. From the interactive interface, test engineers can create and manage test data, set up and launch test execution, and finally, obtain summarized and detailed test execution reports.

Code-level coverage measures the following structural coverage criteria:

- Entry/exit points coverage
- Decision coverage
- Modified condition/decision coverage

SCADE Test Model Coverage is qualified as a verification tool under DO-178B and as DO-330 TQL-5 tool under DO-178C.

Target Execution

ANSYS SCADE Test Target Execution automates the generation of a target test harness for COTS tools (IBM Rational® Test RealTime, LDRA TestBed®, Vector Software VectorCAST™). It supports applications developed with SCADE Suite.

SCADE Test Target Execution translates model test cases into test harnesses. Harness generation is customizable for integration in any in-house or COTS target test infrastructure.

SCADE Test Target Execution is qualified as a verification tool under DO-178B and DO-330 TQL-5 tool under DO-178C.

Application Lifecycle Management

ANSYS SCADE Test includes application lifecycle management (ALM) capabilities:

- Connection to ALM tools through ANSYS SCADE LifeCycle ALM Gateway for requirements traceability from testing models
- Traceability link creation in SCADE Test Environment for host to perform traceability analysis in ALM tool environments
- Configuration management (CM) of test cases can be made with any CM tool.
- Test Data are read/write accessible from Product Lifecycle Management/ Application Lifecycle Management (PLM/ALM) tools through a Tcl and Java API

Minimal/Required System Configuration

OS Platforms	Microsoft® Windows 7 SP1 or Windows XP Professional SP3
CPU processor	1.5 GHz or faster
RAM	1 GB minimum (2 GB recommended)
Disk Space	1 GB minimum
Protocol	Network adapter and TCP/IP installed and configured for license management
Display	16-bit color, 1280x1024 screen resolution recommended

ANSYS SCADE Test Product Line

ANSYS SCADE Test Environment for Host

- Test Environment for Host
- Rapid Prototyper
- Application Lifecycle Management Gateway

ANSYS SCADE Test Target Execution

- Target Execution for RTRT
- Target Execution for LDRA
- Target Execution for VectorCAST
- Target Execution for Generic Target

ANSYS SCADE Test Model Coverage

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Discover the latest news on our products and technology at
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