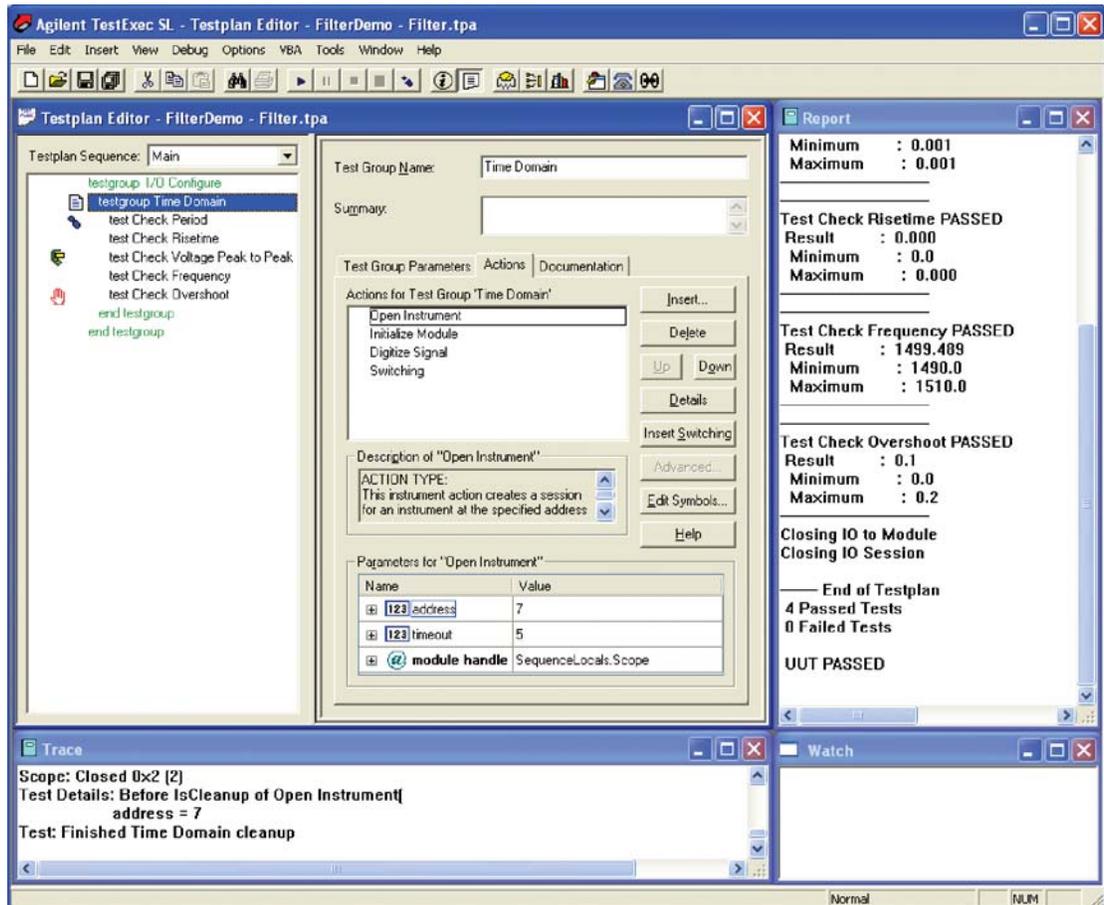


Agilent TestExec SL 6.1

Datasheet



Agilent TestExec SL – Off the Shelf and Into the Mainstream



Agilent Technologies

Overview

Agilent Technologies' TestExec SL software is a standardized, robust, and proven solution for developing and executing whole-product electronics manufacturing functional tests across multiple industries.

This off-the-shelf test executive empowers test developers with a fully customizable operator interface, open architecture for multiple instrument integration, flexible test sequencing, easy debugging tools and provisions for line integration in most manufacturing test environments.

TestExec SL boosts productivity, offers unique advantages for test automation and is unbeaten for ease of use. With its modular architecture, you can use the high-level tools and powerful features to accelerate program development and test integration with TestExec SL.

“Intelligent” Architecture

TestExec SL links to other test systems and supports multiple applications, creating a cohesive, efficient environment for global manufacturing.

- ▶ Supports Visual C/C++, VBA, .NET languages (C#, VB.NET), Agilent VEE Pro, HP Basic, NI LabView and LabWindows/CVI.
- ▶ Share test data with other Agilent test systems across all of your manufacturing environments.
- ▶ Exports data in spreadsheet, XML, or Agilent 3070 formats.
- ▶ Makes critical test information available to analysis package, allowing you to optimize the manufacturing process using actual data from the test floor.
- ▶ Provides a standard framework for interfacing with software applications used in other parts of your enterprise as well as those used by contractors, suppliers and vendors.

Operator User Interfaces

TestExec SL
Test Plan for Automotive ECUs

Measurements and Utilities for Automotive ECUs

- Automotive Measurement and Utilities
- DMM, Counter, Digitizer Measurement and Utilities
- ARB, DAC, DIO Measurement and Utilities
- Power Supply Measurement and Utilities
- Switching and Load Simulations
- MCM: Attenuation, Amplifier, Triggers, V/I Source and Utilities
- User Defined Measurement and Utilities

Instrument Drivers

DMM, Counter, Digitizer, ARB, DAC, DIO, MCM, Power Supplies, Serial Communications, Switching and Load Simulations, GPIB Instruments, VXI Instruments, LXI Instruments, etc.

Library Reuse

TestExec SL's architecture provides standard platform for creating, modifying and enhancing measurement routines for future reuse. Unlike traditional test routines, which may all be incorporated into a single, large program, TestExec SL uses a modular approach that is easy to modify and maintain.

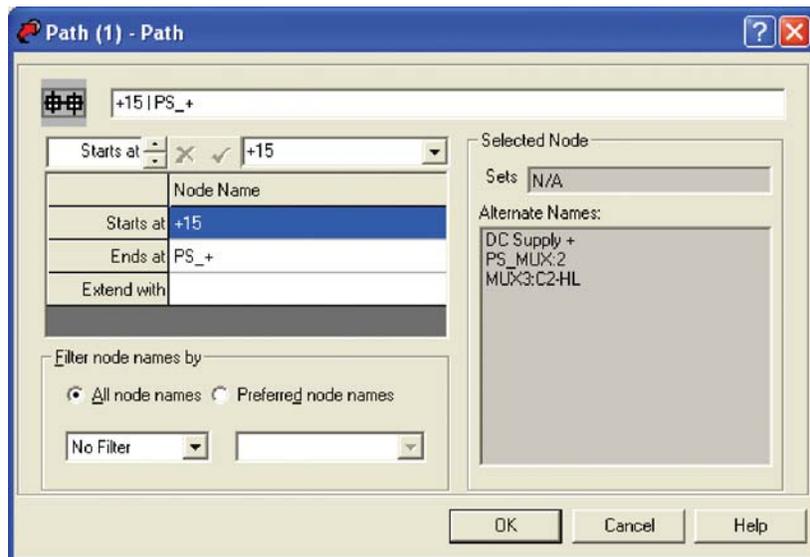
Another benefit of the TestExec SL is that it provides tools for administering the measurement routines library. You can easily define, search and modify the characteristics of measurement routines in the registration library, and those routines are also accessible by other users. This reusability

of measurements and libraries of measurements can be especially beneficial to organizations that have several test systems based on the TestExec SL.

Switch Manager

Connections between various instruments and the UUT are not permanently "hard wired" but are controlled programmatically via "switching" to effectively utilize the resources. The TestExec SL simplifies the switching programming through powerful Switch Manager features.

- ▶ Topology Editor defines switchable connections and the wiring inside a fixture with a logical node name that is easy to use and remember.
- ▶ Switching Path Editor specifies the switching actions that tell the TestExec SL how to control programmable paths during testing.

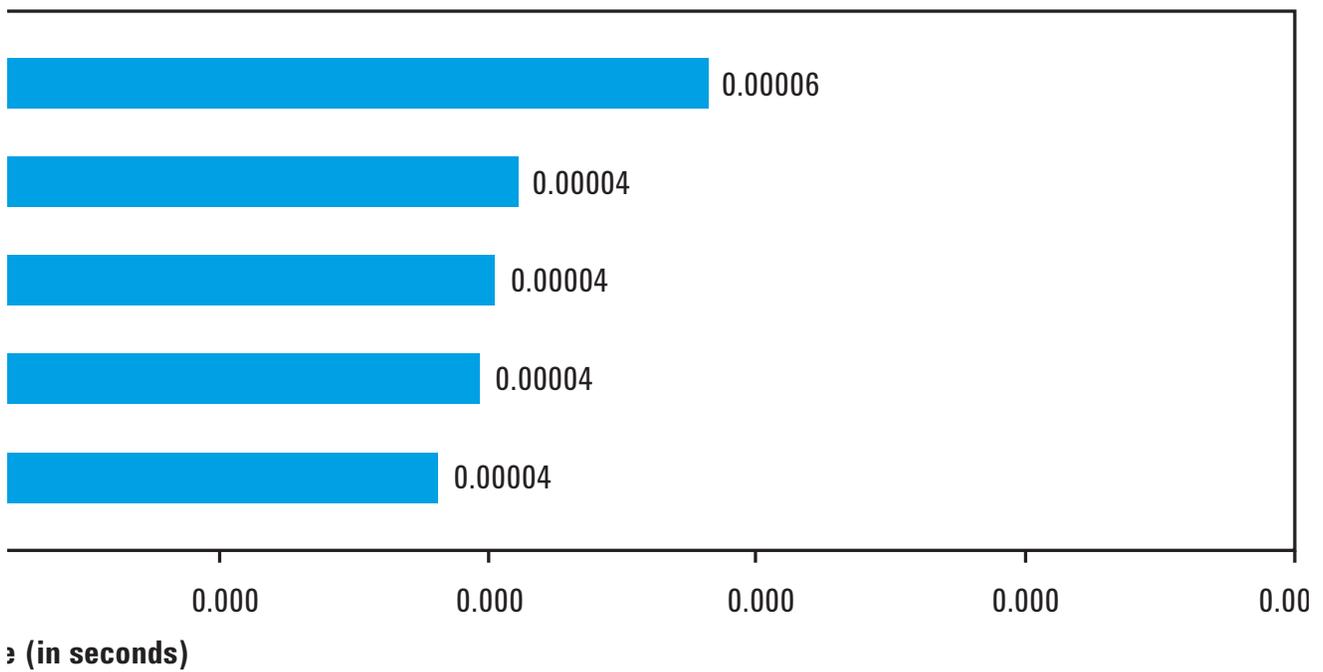


Test Profiler

The TestExec SL includes a profiler you can use to see how long each action or test group in a testplan takes to execute. You can then optimize your testplans using these data and monitor any improvements you make.

- ▶ Monitors and tracks tests, and uses debugging and optimization tools to evaluate individual test performance.
- ▶ Displays key parameters in a Pareto Chart or a spreadsheet program for further understanding and analysis.
- ▶ Provides key insights to optimize the performance throughput of tests.

Sum Pareto List

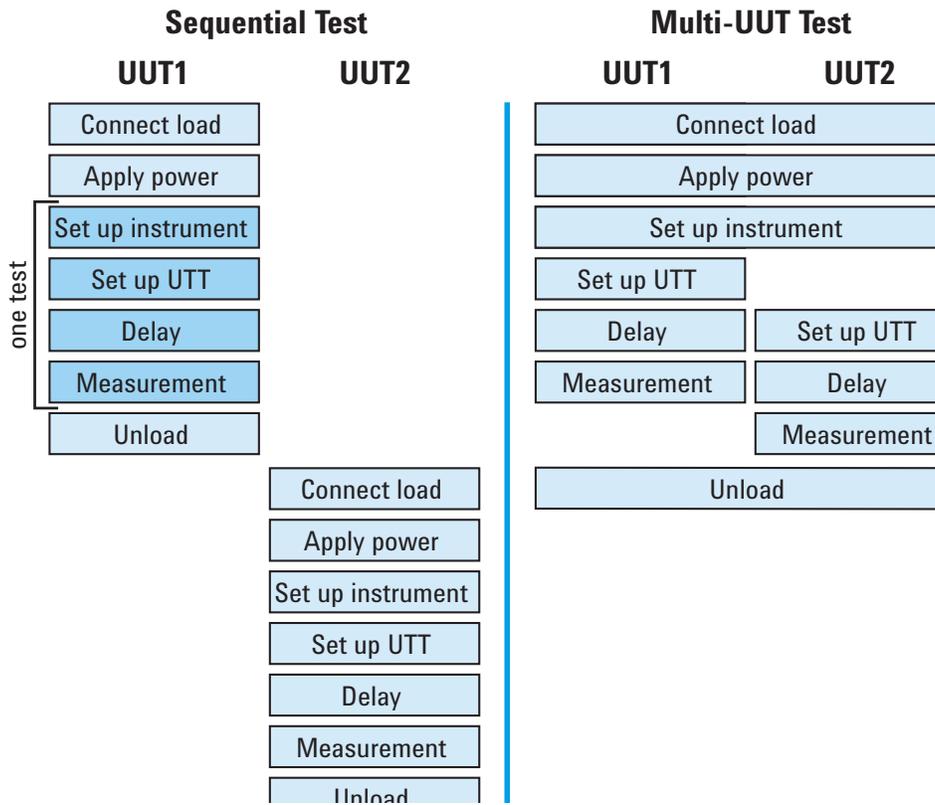


Throughput Multiplier

With TestExec SL, you can increase the throughput of your test system by using the Agilent Throughput Multiplier feature to test simultaneously multiple UUTs with a single set of hardware resources and a single testplan.

A common form of multiple testing is to have two UUT fixture positions and test one position while loading/unloading the other to minimize handling time. This presents an opportunity to save test time, reduce

cost of testing per UUT, and also reduce the amount of floor space that might otherwise be occupied by multiple test systems.



Minimum System Requirements for Agilent TestExec SL 6.1

- ▶ IBM-Compatible PC (A Pentium® 600 MHz (or equivalent) with 256 MB of RAM is the minimum, and a 800 MHz or greater Pentium (or equivalent) with 512 MB of RAM is recommended)
- ▶ At least 180 MB of free hard disk space (for the TestExec SL program, data and sample files). An additional 280 MB of hard disk space is required if the NET framework version 2.0 is not already installed on the target PC.
- ▶ CD-ROM drive
- ▶ Ethernet adapter
- ▶ 1024 x 768 graphics or better

Operating System

Microsoft Windows® XP Service Pack 2

TestExec SL Website

TestExec SL has a Web site where you can find up-to-date product news and updates:

<http://www.agilent.com/find/testexec>

Agilent TestExec SL 6.1 New Features

▶ *User-Defined Sequences*

User-defined sequences are similar in concept to subroutines in a programming language and they can be either local sequences or external, sequence libraries. This new feature allows you to better structure and view testplans, to reuse code, and is especially useful when dealing with large testplans and/or multiple test developers.

▶ *.NET Actions and Handlers*

The TestExec SL supports handlers written in C# and VB.NET as well as other managed programming languages. These handlers are compiled to .NET assemblies, typically dynamic libraries (DLLs). Each assembly can contain one or more handlers, which are modeled as software classes.

▶ *Enhanced TestExec SL Control*

The TestExec SL Control is an ActiveX control that allows you to write code that interacts with TestExec SL programmatically. In past releases, you could use this control for creating operator user interfaces. In this release, the control has been enhanced to allow full control of testplans, sequences and actions.

Key Features

Interactive System Development Environment

- Rapid Test Plan Construction
- Flexible Sequencing
- Rapid Test System Configuration
- Framework for Reuse
- Multi-Language Support
- Excellent Debug Tools
- Good Test Tuning Tools
- Graphical Developer User Interface
- Online Help

Superior Execution and Performance

- Fast Test Execution
- Multi-Level Security
- Measurement Execution
- Automatic Limit Checking
- Error Handling/Reporting
- Adaptable Data Logging
- Remote Execution-Ready

Flexible Runtime Deployment

- Adapts to Line Automation
- Interfaces to Database/SQL
- Adaptable Operator User Interface
- Supports Self-Test

Value to the Customer

- ▶ Short development time with built-in editor and wizard features.
- ▶ High productivity with the Test Profiler and Throughput Multiplier features.
- ▶ Open and standard platform promoting code reuse and data sharing.

Applications

- ▶ Automotive (Engine Management, Body Control, Safety, and Infotainment)
- ▶ Aerospace Defense System
- ▶ Wireless Communications

Works With:

- ▶ TS-5400 High Performance Functional Test System
- ▶ TS-5020 High Mid-Size Functional Test System
- ▶ TS-5030 Infotainment Functional Test System
- ▶ TS-5030 Compact Functional Test System

More Information: www.agilent.com/find/testexec



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www.lxistandard.org

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