Spirent **TTworkbench**

Build, Execute, and Analyze Complex Test Scenarios

Benefits

- All-in-one development concept
- Fast and easy test definition in textual and/or graphical format
- Full supported test automation
- Technology independent test system design in TTCN-3
- Constantly supporting the latest edition of TTCN-3
- Testing in early design stages
- High reusability and easy execution of predefined tests
- Fast integration of test systems
- Reliable test suites through fast & efficient tracking of bugs
- Pre-installed TTplugins TCP and UDP (free of charge)
- Extensible by a variety of further TTplugins
- Support for all TTCN-3 extensions
  - Full support: Advanced parameterization, behaviour types and extended TRI
  - Partial support: TTCN-3 performance and real-time testing, interfaces with continuous signals

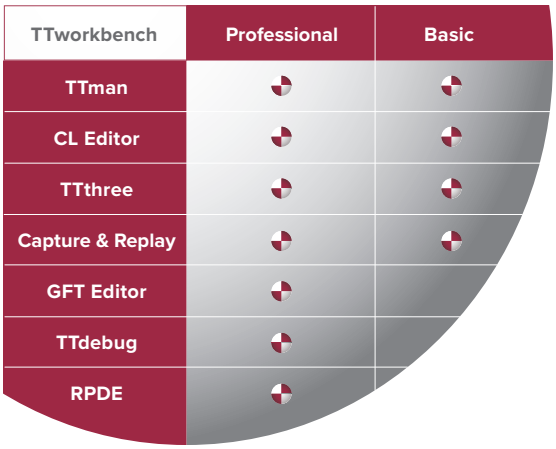
TTworkbench is the full-featured integrated test development and execution environment (IDE). This powerful, user-friendly tool allows you to test software products and services regardless of technology, operating system, or implementation domain.

Based on the standardized testing language TTCN-3 it enables test automation as well as unlimited extensibility. Choose from a variety of existing plugins and test solutions available for TTworkbench, or start your test automation project from scratch.

All versions of TTworkbench come with the already pre-installed TTplugins TCP and UDP.

Product Formats

- **TTworkbench Basic**: Maintain and modify test suites
- **TTworkbench Professional**: Build complex test environments

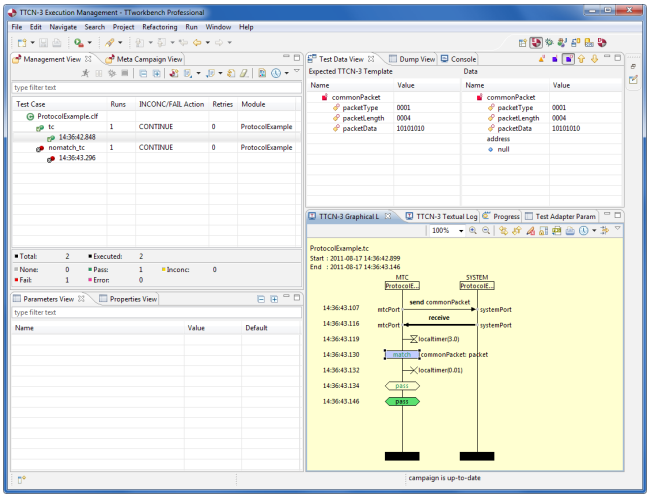


Features at a Glance

- **TTman**: Test management, execution & analysis
- **CL Editor**: TTCN-3 Core Language editor including T3Doc
- **TTthree**: TTCN-3 compiler
- **GFT Editor**: Graphical TTCN-3 editor
- **Capture & Replay Wizard**: Generation of TTCN-3 scripts out of traces
- **TTdebug**: TTCN-3 source code level debugger
- **RPDE**: Runtime Plugin Development Environment

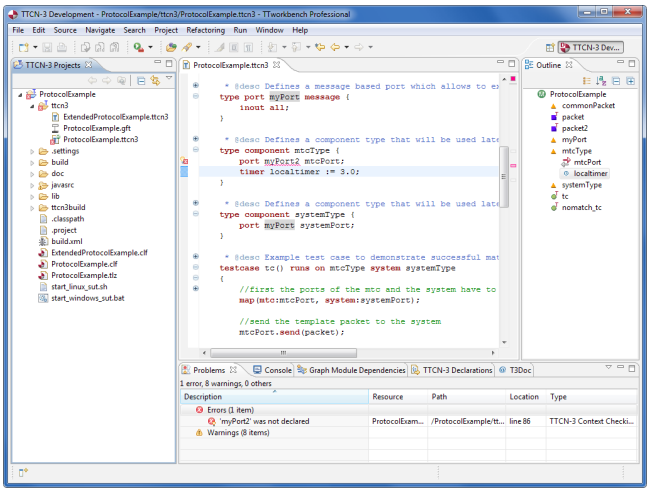
TTman: Manage, Execute & Analyze TTCN-3 Compiled Test Suites

- Definition, execution, saving and resuming of test campaigns project-wise
- Textual and graphical logging with different levels
- Test data view with analysis support
- Follow TTCN-3 source function
- Selection and configuration of test adapter and runtime plugins (ports, codecs, external functions)
- Statistics view
- Generation of test reports (HTML, PDF, Excel, Word)
- Scripting for batch mode tests
- Command line and client server option



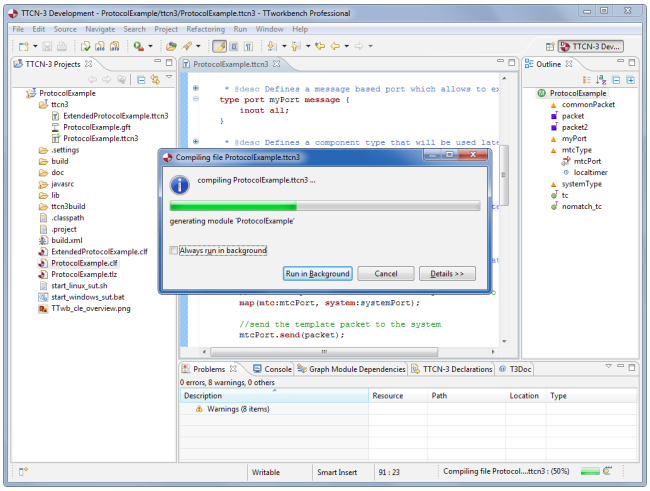
CL Editor: User-friendly, Text-based Test Definition (including T3Doc)

- Full support of the TTCN-3 ETSI standard
- Text formatting and syntax highlighting
- Text annotation and error reporting with source navigation
- Code folding, code templates
- TTCN-3 data generation and modification wizard
- Content assistance
- Module dependency graph
- Outline page showing specification structure
- Quick fix support
- Refactoring
- T3Doc HTML export

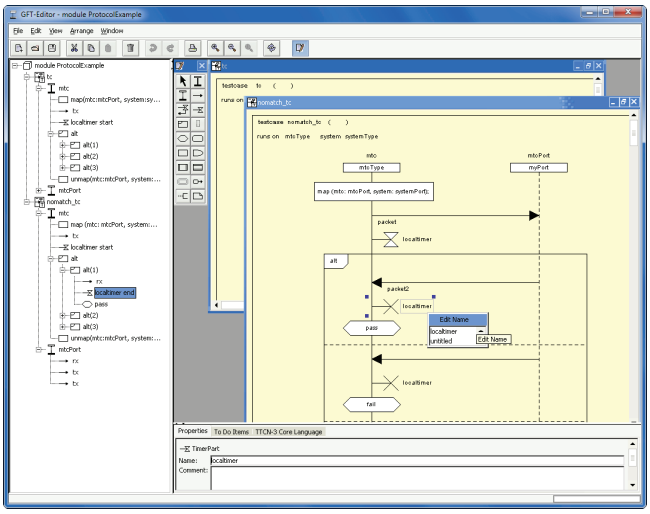


TTthree: Compile TTCN-3 Modules into Test Executables

- Platform-independent compilation and execution
- Full support of the TTCN-3 ETSI standard
- Flexible adaptation to test devices via standardized TTCN-3 Runtime Interface (TRI/XTRI, TRI RT/XTRI RT)
- Easy integration of external codecs via standardized TTCN-3 Control Interfaces (TCI)
- Support of C, C# and Java mapping
- Codec generator for binary codecs
- Command line option

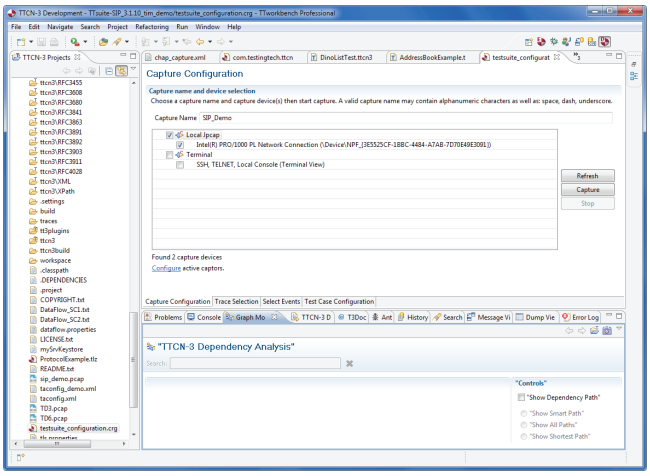


GFT Editor: User-friendly Graphical Test Specification & Documentation



- Graphical design and visualization of test cases as GFT sequence diagrams
- Native TTCN-3 data import
- On-line generation of TTCN-3 Core Language
- Automatic generation of graphics out of TTCN-3 Core Language
- Flexible export of graphics into GIF (documentation)

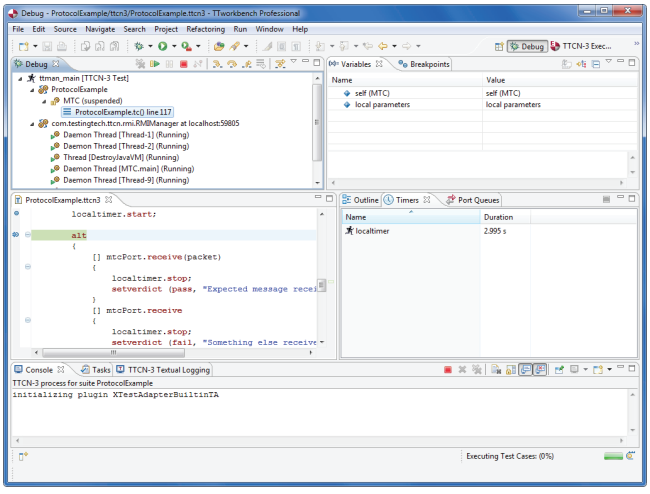
Capture & Replay Wizard: Generation of TTCN-3 Scripts out of Traces



- Transparent debugging of TTCN-3 and Java-based test adapters and codecs simultaneously
- GUI based setting/removal of breakpoints and watchpoints
- Manually suspending/resuming running test suites

TTdebug: TTCN-3 Source Code Level Debugger

- Transparent debugging of TTCN-3 and Java-based test adapters and codecs simultaneously
- GUI based setting/removal of breakpoints and watchpoints
- Manually suspending/resuming running test suites
- Stepping through a suspended test suite
- Viewing the status and the stack traces of multiple components
- Content viewing and modification of local and component variables from base or structured types and of local parameters
- Viewing the status of timers & manually triggering timeouts
- Viewing the status of port queues
- Manipulating the order of messages in the queues



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About Spirent Communications

Spirent Communications (LSE: SPT) is a global leader with deep expertise and decades of experience in testing, assurance, analytics and security, serving developers, service providers, and enterprise networks.

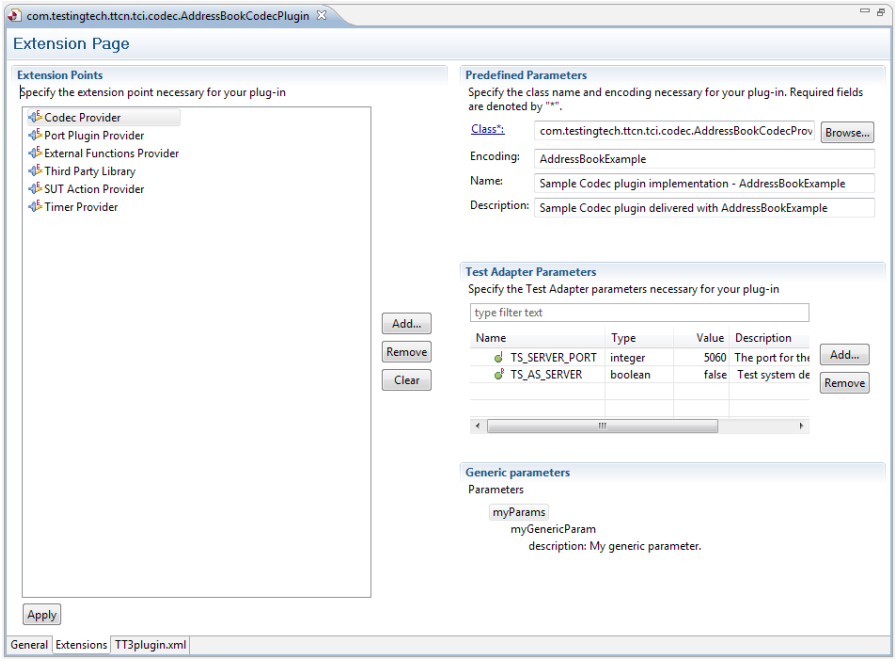
We help bring clarity to increasingly complex technological and business challenges.

Spirent's customers have made a promise to their customers to deliver superior performance. Spirent assures that those promises are fulfilled.

For more information, visit: www.spirent.com

RPDE: Create Your Own Plugins

- Intuitive framework for developing TTCN-3 runtime extension plugins
- Editing in a plain mode as well as in a GUI assisted mode for all features of a TTCN-3 runtime plugin
- Viewing the content of the messages in the queues



Reference Platforms

- Java 8 JDK or JRE
- Microsoft Windows 7/8/10
- Linux (GTK2, x86-32, x86-64)

Ordering Information	
Part Number	**Description**
TEC-TT-WB	TTWORKBENCH BASIC
TEC-TT-WP	TTWORKBENCH PROFESSIONAL
TEC-SVC-1015-WB-1Y	TTWORKBENCH SUPPORT AND MAINTENANCE 1YR

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Rev E | 09/18