Spirent **TTCN-3 Online Training**

Test Automation with TTCN-3

Target Audience & Program

The training is targeted at an audience of system designers; system, software, and test engineers; as well as project managers.

It is structured to present basics and technical concepts of TTCN-3 and its use within the test development process.

Attendees will develop their first TTCN-3 test cases and test suites from scratch, thus receive a solid overview and details related to systematic testing using TTCN-3.

Contact & Registration

Mr. Dirk Borowski

Email ttworkbench-sales@spirent.com

Please fill out the registration form and mail it latest 1 week before the training.

TTCN-3 Overview

The Testing and Test Control Notation TTCN-3 has been developed by ETSI to address testing needs of modern telecommunication and IT technologies. One of the objectives of TTCN-3 is to enable systematic, specification-based testing for software systems with the same success as for telecommunication systems.

TTCN-3 is a modern and powerful test specification and test implementation language. Typical areas of application are protocol and service testing, component and system testing, testing of embedded/communication-based/distributed systems, etc.

The standardized test language has a similar look and feel to a typical programming language. However, besides typical programming constructs, TTCN-3 contains all the important features needed for specifying test procedures and campaigns for functional, conformance, interoperability, load and scalability tests. These test-specific features are unique compared to traditional scripting or programming languages, and above all technology independent.

TTCN-3 allows an easy and efficient description of complex distributed test behavior in terms of sequences, alternatives, loops and parallel stimuli and responses. TTCN-3 follows the concepts of black- and grey-box testing by exchanging stimuli and responses at the interfaces of the system under test. These interfaces are represented as a collection of TTCN-3 ports.

A TTCN-3 based test system can use a number of test components to perform test procedures in parallel without the classical hazards found in traditional programming and/or scripting languages.

Modules for 3-Day Online Training

- Review on specification-based testing
- Basic concepts of TTCN-3
- Language features and use of the TTCN-3 Core Language (CL)
- Introduction of the Graphical Format of TTCN-3 (GFT)
- Test design and development
- The TTCN-3 Execution Interfaces (TRI and TCI) and their Java mapping
- Case study with example test cases
- Practical exercises with Spirent's TTworkbench
- Discussions

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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

AMERICAS 1-800-SPIRENT
+1-800-774-7368
sales@spirent.com

US Government & Defense
info@spirentfederal.com
spirentfederal.com

EUROPE AND THE MIDDLE EAST
+44 (0) 1293 767979
emeainfo@spirent.com

ASIA AND THE PACIFIC
+86-10-8518-2539
salesasia@spirent.com

Modules for 1-Day Online Training

- Basic concepts of TTCN-3 code
- Test configurations
- TTCN-3 example from scratch
- Tool intro development and execution
- Exercise: Develop your first test case

Instructors

Dirk Borowski, Manager Support Services, has been working in the area of testing private branch exchanges with Fraunhofer Institute FOKUS for many years. As testing expert, he is strongly involved in TTCN-3 standardization activities of 3GPP/ETSI working groups and was certified as TTCN-3 specialist by iSQI in 2007. He holds a Master in Electrical Engineering from Technical University Berlin.

Yuchuan Liu, Senior Support Engineer, joined the Professional Services team of Spirent in 2010, bringing in expertise in telecommunication technique and international audience. Two weeks after his entry he achieved the TTCN-3 Certificate issued by iSQI and has been holding numerous training courses since then. Yuchuan holds a Master in Economic Engineering from Technical University Berlin.

Madalina Tepelmann, Support Engineer, has over 14 years of experience in multiple software engineering departments: from quality assurance, designing and implementing test systems, to teaching and assisting customers and colleagues with TTCN-3 language and products developed across different domains. She is certified as TTCN-3 specialist by iSQI and holds a M. Sc. degree in Computer Science from Politehnica University of Bucharest.

Ordering Information		
Part Number	**Description**	**Price**
TEC-SVC-TUT-TTCN-ON-1D	1-day TTCN-3 online tutorial	390,00 €
TEC-SVC-TUT-TTCN-ON-3D	3-day TTCN-3 online tutorial	1000,00 €