

Tutorial 'Introduction to TTCN-3'

Presenter: Theofanis Vassiliou-Gioles, CEO Testing Technologies
Date: Tuesday, June 7, 2011
Time: 10:00 a.m. – 12:00 p.m.

Intended Audience

TTCN-3 newcomers; system designers; system-, software-, test engineers; and project managers who would like to understand how much effort it is to get TTCN-3 working

Tutorial Overview

The tutorial will discuss in particular the use of TTCN-3 for testing communicating software systems. It will give a solid overview of using TTCN-3 within the test development process, but also discuss its extensibility. Furthermore, concepts of the graphical definition of TTCN-3 will be explained. Practical examples will help understanding the application of TTCN-3 in the developing process of tests.

The tutorial will give an introduction to TTCN-3 and discuss its main new features like

- TTCN-3 types for the specification of the communication interfaces and test data for the communication with the test systems
- TTCN-3 behaviour for the specification of the communication flows
- Concurrent test configurations with dynamically created test components and communication topologies to the system under test
- Brief introduction to the standardized implementation interfaces

Tutorial Structure

The tutorial presents basics and technical concepts of TTCN-3 and its use within the test development process. It contains the modules:

- 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)
- Brief introduction to the standardized implementation interfaces

Biography

Theofanis Vassiliou-Gioles is co-founder and CEO of Testing Technologies since 2000. Being with Fraunhofer Research Institute FOKUS for more than six years, he became a senior expert in testing and was assigned as Deputy Chief of Competence Center for Testing Interoperability and Performance. Mr. Vassiliou-Gioles is involved in several standardization groups in ETSI and he has published several papers on the application of TTCN-3 at various international conferences.

Mr. Vassiliou-Gioles holds a Master in Electrical Engineering from Technical University Berlin.

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