

EUROCONTROL VoIP in ATM Test Suite Training

Spirent services

Spirent Global Services provides a variety of professional services, support services and education services—all focused on helping customers meet their complex testing and service assurance requirements.

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Test suite overview

The VOTER EUROCONTROL VoIP in ATM Test Suite is designed to test both conformance and performance of the main components of a VoIP ATM system according to the EUROCAE ED137 standard. It targets all interfaces between the components of a VoIP ATM system, namely radio, telephone, and recorder interfaces.

Components that may be tested by the VOTER Test Suite are SIP User Agents within a VCS or VCS Gateway (for Radio and Telephone), SIP User Agents within a Ground Radio Station or Radio Gateway, and SIP and RTSP User Agents within a Recorder.

The conformance part of the VOTER targets the signaling and transport protocols used to provide basic services as well as ATS supplementary services (e.g. Conference, Intrusion, Position Monitoring, IA or Override Calls, Presence Information, Real Time Session Supervision, Signal Quality Information, CLIMAX-Time Delay, Radio Remote Control, etc.). These protocols include SIP, SDP, RTSP, RTP, UDP, TCP, TLS, SMIME and others.

The test suite may also be used to test the performance of VCS or GRS devices, or of the network or network segments inside a VoIP ATM system. The performance of the signaling plane as well as of the media transport plane (using various audio codecs) may be tested.

The VOTER Test Suite is written in the standardized test language TTCN-3. TTCN-3 is a modern and powerful test specification and test implementation language developed by ETSI.

Program

After a short, general overview and a demonstration of the execution of a test suite, participants will learn about basic concepts of TTCN-3 with an example project execution.

Afterwards they are guided through a step-by-step installation of the test tool TWorkbench and of the VOTER Test Suite, followed by a test suite overview including details of different configuration groups, especially of the main groups for GRS, VCS Radio, VCS Telephony and Recorder interface tests.

Within a group exercise participants go through live scenarios with mirror tests to get a surface impression of test cases. They will afterwards configure and execute the test suite against a simulated SUT on the trainer's computer. A main aspect as well is the result analysis of executed tests.

In addition, voice quality testing including a live demo and finally the logging, filter usage and report functions are introduced and practiced.

Modules

- Introduction of TTworkbench
- Installation of TTworkbench and VOTER Test Suite
- Test suite configurations
- Using the First Steps Guide
- Executing the test suite by simulated SUT
- Introduction of voice quality testing
- Detailed result analysis
- Exercises / Questions / Discussions

Courses are usually being held in English language. Upon request, it is also possible to arrange trainings in German language. Please indicate the language on your registration.

Instructors



Dirk Borowski, Vice President Customer Care, 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. Mr. Borowski possesses extensive experience in creating and maintaining VoIP-based test solutions, and was certified as TTCN-3 specialist by iSQI in 2007. He holds a Master in Electrical Engineering from Technical University Berlin.



Yuchuan Liu, Field Application Engineer, joined the Professional Services team of Testing Technologies (now 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.

Contact & registration

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Please fill out the registration form and fax it **latest 2 weeks before the training.**

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