

Samsung Evaluating TTCN-3 and TWorkbench in Non-Communication Domains

February 2008
Berlin (Germany), Seoul (Korea)

Along with the attempt to improve software quality, Samsung Electronics is going to apply a unified test solution throughout the entire organization. After evaluating different test methods, Samsung decided for TTCN-3, the only standardized test language with an unmatched feature set.

As one of the leading TTCN-3 tool vendors, Testing Technologies committed to a partnership with Samsung, providing the all-in-one test automation platform TWorkbench, professional TTCN-3 training, and consultancy services.

Three pilot test systems were set up: a web service based test system using message-based communication, a DTV test system using procedure-based communication, a network base station test system using message-based communication.

The Systems under Test (SUTs) consisted of various kinds of above mentioned electronic devices with several Implementations under Test (IUTs) according to the test purposes.

Samsung's Software Quality Assurance Group says:

„The challenging task of applying a unified test solution in our entire organization requires a flexible test technology and tool. For this, TTCN-3 and TWorkbench have proven to be perfectly suitable.

Samsung feels confident to successfully harmonize its test system and to achieve a clear improvement of software quality. The excellent consultancy service of Testing Technologies has helped us to quickly understand TTCN-3 and TWorkbench, thus enabling us to manage complex test scenarios on our own.“

Samsung is now going to make its product test systems work in order to achieve best practice in the network domain. In a following phase, Samsung will transfer the technology to an even wider scale of product tests and domains.

D-MINT: Model-based Testing on an Industrial Scale

European tool providers and system developers created the project D-MINT on model based testing.

D-MINT will provide partners and European industry with a new leading edge model-based testing technology that enables the production of high quality software-intensive systems at reduced expenditure in terms of time and money.

D-MINT is developing new model-based testing techniques for complex systems to make testing more efficient. These testing techniques combine various system aspects and the corresponding models, based on the architectural model. This architecture driven model-based testing will allow the development of high-quality complex systems.

The D-MINT consortium will develop this new approach with 29 partners based in six European countries. Testing Technologies is extending its tool support for the UML testing profile, especially for the embedded domain.

As a key concept, every development within D-MINT is driven on the basis of industrial case studies, which also serve for the validation and empirical analysis of the results. Even large and complex modular software systems will be tested with clearly higher effectiveness and efficiency, providing European industry with a real commercial advantage.

D-MINT organizes the 1st Workshop, bringing together industry and academy to debate on different approaches and methodologies on „Model-based Testing in Practice“.

Call for papers ends April 4, 2008.

NEW: TTsuite-HSS Testing the Heart of IMS Networks

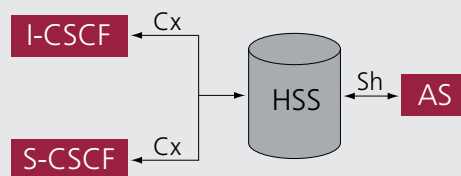
February 29, 2008
Berlin, Germany

Testing Technologies has expanded its TTsuite product line by TTsuite-HSS, the conformance and interoperability test framework for Home Subscriber Server implementations (HSS).

Testing HSS, the main database in IMS architectures, is being indispensable. It is the only server containing sensible user and service data like authorization, accounting or roaming.

TTsuite-HSS supports 3GPP release 6 and 7, providing 88 test cases for all kinds of procedures (location management, user data handling, authentication, subscription, and notification).

TTsuite-HSS focuses on protocol conformance of the interaction between HSS and other IMS signaling components in compliance with the relevant requirements for the Cx and Sh interface. Users are able to perform standards-based testing according to Diameter specifications.



Based on the technology-independent test platform TWorkbench, TTsuite-HSS can be rapidly integrated into existing test environments.

Expand your test suite by writing own test cases with the available editor. TTsuite-HSS assures fast and simple test execution and analysis, repeatability of tests, and provides all kinds of test automation features.

More information at www.testingtech.com.

Become a TTCN-3 Expert in 3 Days

April 28-30, 2008
Berlin, Germany

Our three-day tutorial will give you a comprehensive introduction to the test specification and test implementation language TTCN-3.

Two certified experts introduce and present concepts, semantics, presentation formats and test implementation aspects at a hands-on scenario.

Learn about basic concepts of TTCN-3, its execution interfaces (TRI and TCI) and their Java mapping, example test cases, and much more.

Take your chance and proof your TTCN-3 knowledge with the first official TTCN-3 Certificate® issued by the International Software Quality Institute (ISQI). Our tutorial qualifies you to successfully pass a TTCN-3 exam organized by ISQI.

For more information on program, location, instructors and registration please visit the tutorial section on our website.

Innovation Award for TTplugin WSDL

March 2008, Germany



Testing Technologies was granted the Innovation Award 2008 in the category „SOA“ for their plugin WSDL. The award was given by ‚Initiative Mittelstand‘, who chose innovative products out of more than 1.600 applications.

„By granting this award to Testing Technologies the ‚Initiative Mittelstand‘ recognizes our continuous strive to provide user-oriented test solutions for small, medium and large enterprises. By adding support for WSDL to our TWorkbench, TTCN-3 technology becomes immediately available for companies who want to ensure the quality of their web-service based IT infrastructure“, says Stephan Pietsch, CTO of Testing Technologies.

TTplugin WSDL, a plugin for Testing Technologies' test development and execution environment TWorkbench, enables users to instantly access WSDL/SOAP based web services, and to include this access into their test scenarios...

... The TTplugin mechanism assures a seamless usability of features within any TTCN-3 test application. Unlike other TTCN-3 environments, this zero-coding solution frees TTCN-3 users from handling codecs and system adapters for communicating with the System Under Test. Testers can immediately concentrate on the essential part of their work: what they are going to test.

More information about TTplugin WSDL you can find at www.testingtech.com.

Major Trends Emerging at Mobile World Congress

**February 11-14, 2008
Barcelona, Spain**

The convergence of mobile and IP is inevitable. Future 3.5G and 4G networks are moving towards all-IP.

Handsets are being equipped with smarter operating systems and full IP communications capabilities. Mobile applications and core networks are being delivered by IMS, NGNs, and Web Services.

Operators, suppliers, and observers are realizing the meaning of these facts for full mobile voice and the evolution of person-to-person wireless telephony.

While plenty of attention is paid to localised VoIP functions and FMC with VoWLAN, the focus has also been placed on prospects of true, end-to-end VoIPo3G - and the opportunities for both traditional carriers and newer independent, over the top service providers...

...Highlights

1. The use of VoIP over 3G networks is inevitable in the medium term, as cellular operators move towards future all-IP systems like LTE & UWB.
2. There are multiple scenarios for interim short-term deployment of VoIPo3G, both for operators and independent VoIP specialists...
3. It will be important to embed mobile VoIP into new devices, services or web applications (Voice 2.0).
4. Key catalysts for independent VoIPo3G are the increasing penetration of smartphones and 3G-connected laptops.
5. HSPA+ will be a major VoIP platform, especially for operators without sufficient spectrum allocations to roll out LTE...

Conformance and interoperability are complementary. Testing Technologies provides the industry with TTCN-3 based test suites for IMS, NGN, and Web Services.

Conformance

Improve chances of interoperability

Benchmarking

For comparison

Load/stress

How systems perform under load conditions

Capacity testing

Maximum load the system can handle before failing

Scalability testing

Plan capacity improvements

Upcoming Events

It would be a great pleasure for Testing Technologies to meet you at one or the other event.

April 1-3
CTIA Wireless
Booth #1358
Las Vegas, USA

April 15-18
Software & Systems Quality Conference
Booth # E41
Duesseldorf, Germany

April 16-17
Toolapalooza, Cisco Systems, Inc
San Jose, USA

April 28-30
TTCN-3 Tutorial „Theory & Practice of TTCN-3“
Berlin, Germany

May 14-15
IMS Asia
Singapore

May 26-28
TTCN-3 Tutorial „Theory & Practice of TTCN-3“
Berlin, Germany

June 3-4
VON.x Europe
Booth #226
Amsterdam, Netherlands

June 3-6
TTCN-3 User Conference
Madrid, Spain