

ETSI, German Testing Board and iSQI launch international standardized exam for testing experts

### **Testing with TTCN-3 – International certificate ensures quality of TTCN-3 qualification**

The German Testing Board and iSQI (International Software Quality Institute) signed a contract on March 1<sup>st</sup> 2007 covering the issue of a TTCN-3 certificate based on internationally valid quality criteria. For the first time practical knowledge can be certified for users of the standardized test specification and implementation technology TTCN-3 (Testing and Test Control Notation) using a standard exam procedure and predefined content. The first exams took place in May during the 4<sup>th</sup> TTCN-3 User Conference in Stockholm, Sweden. The certification is supported by ETSI, the European Telecommunication Standards Institute, who developed and continue to maintain the TTCN-3-Technology.

Prof. Dr. Ina Schieferdecker, (who was principally involved in the development of exam questions and the exam procedures), emphasized the importance of the certification by stating; “With this certification the quality of TTCN-3 training will be ensured, and as a result the usage of TTCN-3 in research and industry improved”.

„TTCN-3 is being used in more and more branches of industry, for example telecommunications, automotive, medical technology or government, in order to test the software used for conformity, interoperability and performance. A high-value, practically relevant training which considers internationally recognized standards is therefore essential, above all against the background the of the increasing economic significance of systematic testing.”

The German Testing Board e. V. (Erlangen) and the iSQI (International Software Quality Institute, Erlangen/Berlin) are responsible for conducting the TTCN-3-Certification. The German Testing Board creates the syllabus and the exam content, whilst iSQI performs the exam and the certification. Preparation for the exam is supplied by accredited training organizations which belong to neither the German Testing Board nor iSQI, thereby ensuring the independence of the certifications.

Modern-day approaches to software development integrate testing into the early phases of development, (for example, in the creation of requirements), in order to increase the efficiency of the development process and to continually ensure software quality. High-value testing solutions can be most effectively implemented by qualified testers. Against this background the TTCN-3 certificate will serve as model for a series of specialized certificates in testing.

Together with the German Testing Board and ETSI, the TTCN-3 certificate was developed in co-operation with Siemens AG, Testing Technologies IST GmbH, Fraunhofer FOKUS, Hochschule Bremen and Fachhochschule Köln.

### TTCN-3

TTCN-3 provides a universally applicable test methodology for different technologies. TTCN-3 combines a range of testing concepts and is suitable for use with centralized and distributed systems. TTCN-3 is a further development of previously used methods for systematic testing and permits automated testing to be more intensive, more extensive and more efficient. TTCN-3 makes testing more user-friendly and transparent. Results are made

clearer and more distinct by providing a consistent graphic presentation of test sequences and results.

Prof. Dr.-Ing. Ina Schieferdecker

Ina Schieferdecker has been a co-developer of TTCN-3 at ETSI since 1999. As a member of the German Testing Board, she has initiated the TTCN-3 certificate using the Certified Tester scheme as a model.

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GTB – [www.german-testing-board.info](http://www.german-testing-board.info)

iSQI – [www.isqi.org](http://www.isqi.org)

TTCN-3 – [www.ttcn-3.org](http://www.ttcn-3.org)