

# Testing Technologies and Conformiq Software Create Solution for Model Driven Testing in TTCN-3

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*Berlin (Germany) and Espoo (Finland)*

**To bring the benefits of model driven testing into the TTCN-3 sphere, Testing Technologies, a leading TTCN-3 test tool provider, and Conformiq Software, a leading provider of model driven testing technology, have put their forces into a joint project.**

The result is a solution for generating TTCN-3 test scripts from system models. By combining the **Conformiq Qtronic** tool and Testing Technologies' **TTworkbench**, it is possible to employ model driven testing in a TTCN-3 environment. TTCN-3 test cases can be derived automatically from a functional design model and be executed against a real system.

"Model driven testing is a universal, general technology that will change the way we do systems testing", says **Antti Huima**, Managing Director of Conformiq Software. "But the general technology must be integrated within the processes and platforms in use at any specific enterprise. TTCN-3 is a great, modern platform for organizing the management and execution of test cases. By integrating model driven testing with TTCN-3, many companies will find it easy to fit in their processes. If TTCN-3 is already in use, existing TTCN-3 assets can be used as parts of the model driven testing process. Hand-written and machine-generated test cases can be combined and managed seamlessly", he explains.

Regarding the relationship with Testing Technologies, Mr. Huima comments: "We have chosen Testing Tech among the existing TTCN-3 vendors for their deep expertise in developing and deploying TTCN-3 worldwide. They are the most dynamic vendor on the market and focus on TTCN-3 only. We find a lot of positive potential for continuing our joint working in future projects."

**Theofanis Vassiliou-Gioles**, Chief Executive Officer of Testing Technologies says: "We see model driven test case design as an exciting, complementary method that will leverage the added value of TTCN-3 based testing processes. Conformiq has the most impressive offering among model driven testing technology providers. Their commitment to an open architecture makes it very easy to integrate their capabilities in our TTCN-3 tools. I believe many of our customers will find the result definitely interesting."

## General Information

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TTCN-3 is a powerful test language for specification and implementation of complex test systems and solutions. Many enterprises worldwide organize their core testing processes around TTCN-3. It guarantees highest flexibility

in designing and maintaining test software on a standards level. TTCN-3 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.

Model driven testing is a revolutionary technology that enables deriving test cases automatically from system models. System models document the desired functionality of the system; model driven testing turns these functional requirements into valuable testing assets with the push of a button. Automatic test case generation from system models reduces risks and costs: It eliminates the risk of defective test cases and reduces costs by cutting the amount of manual design and maintenance work dramatically. For example, when system requirements change, test cases do not need to be updated manually, because they can be derived automatically from the changed requirements documents.

TTworkbench is Testing Technologies' graphical test development and execution environment based on TTCN-3. It includes the full range of features needed for test specification, execution and analysis. Apart from text-based test specification, TTworkbench also offers the option of graphic definition of test cases.

Conformiq Qtronic is the flagship product of Conformiq Software. It is the model driven testing tool that defines the state of the art—with support for online and offline testing as well as for data, time, concurrency and object-orientation. With cross-platform availability and fully open interconnection and integration architecture, Conformiq Qtronic is the world's leading product providing universal, pervasive model driven testing capability.

## **About Testing Technologies**

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With a high degree of experience in systematic and automated testing, Testing Technologies designs and markets innovative test development tools based on TTCN-3. This powerful test language guarantees highest flexibility in designing and maintaining test software on a standards level. Testing Technologies was founded as a spin-off of the Fraunhofer Institute FOKUS in 2000. Building on its core competences and innovation strength in testing, a team of experts is working on developing new products together with customer support and training. At the same time, with its focus on cutting-edge projects, the research division ensures that products and solutions are rapidly adapted to meet the needs of evolving markets.

## **About Conformiq Software**

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Conformiq Software is a global leader in model driven testing, with more than five years of experience in the rapidly growing model driven quality assurance segment. The only company in the world with a solution that can

do both online and offline testing driven by models that support all important constructs for data, time and control, Conformiq Software continues to define the state-of-the-art in model driven testing. The company's technological edge is maintained by a combination of basic in-house research, university co-operation, and key technology partnerships. With strong focus on core competences and open interconnectivity, Conformiq is the natural choice for innovative enterprises as the model driven testing vendor.

## **More Information**

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For more information about our company and our operations, please contact us at [sales@conformiq.com](mailto:sales@conformiq.com) or send us a [contact request](#).