# 1st UCAAT
### User Conference on Advanced Automated Testing

**ETSI** — World Class Standards

Organizers **ALL4TEC** **Smartesting**

# MBT in the Testing Ecosystem

## PARIS 22-24 October 2013

Test Description Language · IT UI Application
Test Case · Test Automation · Agility and Testing
Model-Driven Workflow · Ecosystem
Safety Critical Systems · Model-Based Testing · Design Process Model
Modeling · Standardization · TTCN-3 · Automotive Industry
Industrial Automation · ERP Testing
Cloud · Test Language · Test Framework

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# Scope

UCAAT, User Conference on Advanced Automated Testing, is an ETSI (European Telecommunications Standards Institute) conference jointly organised this year by ALL4TEC and SMARTESTING.

For the 2013 conference, a specific focus will be on integrating Model-Based Testing (MBT) in the testing ecosystem.

Test process automation has proven to increase productivity and product quality in different application domains such as telco, banking, IT services, automotive, robotics, defence and software vendors.

The aim of this international conference is to bring together industrial experts and MBT practitioners to share their experiences. The event provides an ideal opportunity to obtain advice on the use and application of the latest techniques, methods, frameworks, and facilitate tools exchange and discussion on aspects regarding automated testing including Model-Based Testing, test methodologie, test management and the use of test languages such as TTCN-3.

Keynote Speakers

**Matthias Rasking**, EMEA Testing Capability Lead, Accenture GmbH

**Lionel Briand**, Professor, FNR PEARL Chair, FTSC, University of Luxembourg

**Bernard Homès**, President of the French Testing Board, CFTL (ISTQB)

**Gil Bernabeu**, Technical Director, GlobalPlatform

# Tuesday, 22 October 2013, Tutorial Tracks

| 10:15 Registration | | |
|---|---|---|
| 10:45-12:15 | **Model-Based Testing for Beginners** Eddie Jaffuel (eConsult) | **Introduction to TTCN-3** Theofanis Vassiliou-Gioles & Carsten Balkau (Testing Technologies IST GmbH) |
| 12:15-13:30 | Lunch | |
| 13:30-15:00 | **A Structured Approach for Efficient Model-Based Testing in Large IT projects** Jean-Pierre Schoch & Bruno Legeard (Smartesting) | **Using Model-Based Testing during the Life-Cycle of your Product** Alexis Despeyroux & René-Christian Tuyishime (All4tec) |
| 15:00- 15:20 | Coffee Break | |
| 15:20-16:50 | **Use of Domain-Specific Modeling with Model-Based Testing** Juha-Pekka Tolvanen (Metacase) & Stephan Schulz (Conformiq) | **Test Automation and Model-Based Testing in Agile Dev Cycle at Spotify** Kristian Karl & Peng Ge (Spotify) |
| 16:50-17:00 | Short Coffee Break | |
| 17:00-18:00 | Barcamp monitored by Andrej Pietschker | |
| 18:00-19:00 | French Wine Tasting | |

### Wednesday, 23 October 2013, Conferences Day 1

| | |
|---|---|
| **08:45 - 9:15  Registration** | |
| 9:15- 9:30 | **CONFERENCE OPENING** |
| 9:30- 10:15 | **KEYNOTE: Model-Based Testing for a Compliance Program**<br>Gil Bernabeu (GlobalPlatform) |
| | **Session 1, Testing & the Cloud** |
| 10:15-10:35 | **Towards a TTCN-3 Test Framework for OCCI-Based Cloud Ecosystems**<br>Yongzheng Liang (University of Stuttgart) |
| 10:35-10:55 | **Model-Driven Testing in the Cloud**<br>Steffen Herbold (Universität Göttingen) |
| 10:55- 11:05 | Poster Introduction (1 mn/poster) |
| 11:05 - 11:35 | Coffee Break and Poster Session |
| | **Session 2, Test Automation and Agile** |
| 11:35 - 11:55 | **Agility and MBT applied to Software Communication Client Project at Alcatel-Lucent**<br>Mathieu Pamard & Ronan Thépaut  (Alcatel-Lucent) |
| 11:55 - 12:15 | **Model-Driven Workflow applied to an IMS Application Server**<br>Antal Wu-Hen-Chang & Tibor Csöndes (Ericsson) |
| 12:15 - 12:35 | **Efficient Test Automation on an Agile Project**<br>Jackie Mcdougall & Lukasz Grabinski (Sopra Group) |
| 12:35 - 12:55 | Vendor Track |

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|---|---|
| 12:55 - 13:45 | Networking Lunch |
| 13:45 - 14:30 | **KEYNOTE: The Thousand Shades of Model-Based Testing; Pitfalls, Challenges and Guidelines**  Lionel Briand (University of Luxembourg) |
| | **Session 3, Embedded Systems** |
| 14:30 - 14:50 | **Test Automation in Industrial Automation**<br>Barath Kumar (inIT – Institute of Industrial Information Technologies) & Shiraz Gilani (Fraunhofer IOSB – INA, Anwendungszentrum Industrial Automation) |
| 14:50 - 15:10 | **An Approach of Combining Model-Based Testing with Product Family Management**<br>Hamza Samih (All4tec) & Ralf Bogusch (Cassidian) |
| 15:10- 15:30 | **New Modellng Approach to construct Test Model for Railway Embedded Systems**<br>Amine Mechraoui, Elie Soubiran & Pascal Poisson (Alstom Transport) |
| 15:30- 16:00 | Coffee Break and Poster Session |
| | **Session 4, MBT Lessons Learned** |
| 16:00 - 16:20 | **Lesson learnt from integrating Model-Based Testing for Production Testing for Windows Phone Application**<br>Chan Chaiyochlarb, Hongtao Bai, Shriram Nanjundaiah & Yasser Mufti (Microsoft) |
| 16:20 - 16:40 | **Using Model-Based Testing to test Windows Phone Data Sense Case Study**<br>Kenneth Ma (Microsoft) |
| 16:40 - 17:00 | **Model-Based Testing of a 3D Game Engine**<br>Rasmus Moller Selsmark (Unity Technologies ApS) |
| 17:00- 18:00 | Vendor Track |
| 18:00 | Departure Social Event |

## Thursday, 24 October 2013, Conferences Day 2

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|---|---|
| **09:00 - 9:30  Registration** | |
| 9:10- 10:00 | **KEYNOTE: MBT & ISTQB Challenges,** Bernard Homes (ISTQB) |
| | **Session 5, Standardization & Methodologies** |
| 10:00-10:20 | **An Overview of the ETSI Test Description Language (TDL) – Results from STF 454**<br>G. Adamis, F. Kristoffersen, P. Makedonski, A. Ulrich (Siemens AG), MF Wendland, A.Wiles (ETSI) |
| 10:20-10:40 | **Exploring Model-Driven Language Implementation of a Test Description  Language**<br>F. Philipp, P. Makedonski and J. Grabowski (University of Göttingen) |
| 10:40- 11:00 | **Model-Based Testing for ERP Testing**<br>C. Jaze, Jose Miguel Diaz Garcia & M. Bedouani (Atos) |
| 11:00 - 11:30 | Coffee Break and Poster Session |
| | **Session 6, Test Framework & Test Environment** |
| 11:30 - 11:50 | **TTCN4SOA™: A TTCN-3 Architecture and Framework for SOA Testing**<br>Fabio De Rosa (Simple Engineering), Libero Maesano (Simple Engineering) &  Ariele Paolo Maesano (UPMC LIP6) |
| 11:50- 12:10 | **Test Harnessing - An Automated Model-Based Testing Approach**<br>Kailash Chanduka & Indranil Mukherjee (Aris Global Software) |
| 12:10 - 12:30 | **Using Nightly Builds in Test Environment and Test Development**<br>Andreas Weitl (Cassidian) |
| 12:30 - 12:50 | Vendor Track |

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| 12:50 - 13:45 | Networking Lunch |
| 13:45 - 14:30 | **KEYNOTE: Are we there yet? Is Advanced Automation the pinnacle of Software Engineering ?**<br>Matthias Rasking (Accenture GmbH) |
| | **Session 7, MBT in Automotive Industry** |
| 14:30 - 14:50 | **Model-Based Testing in a seamless Design Process Model – What is the business case?**<br>Sebastien Ruzza (Volvo Global Truck Technology) |
| 14:50 - 15:10 | **System Validation Process for Instrument Clusters**<br>Olivier Bodereau (Magneti Marelli) |
| 15:10- 15:40 | Coffee Break and Poster Session |
| | **Session 8, Safety Critical Systems** |
| 15:40 - 16:00 | **Application of MBT to Validation of New Nuclear I&C Architectures**<br>François Chastrette (All4tec) & Luc Coyette (Esterel Technologies) |
| 16:00 - 16:20 | **Model-Based Generation of Aircraft Traffic Attack Scenarios using ADS-B Standard Signals**<br>Julien Botella (Smartesting), Phong Cao (THALES), Cédric Civeit (Thales Raytheon Systems), Daniel Gidoin (THALES) & Fabien Peureux (FEMTO-ST Institute (UMR CNRS 6174); Smartesting) |
| 16:20 - 16:40 | Best Presentation Award, Conference Closure |

## Poster Session

**End-2-End Testing of large-scale IT Information Systems - MBT as an enabler for functional (re)documentation**

by Olivier Bussenot (Smartesting)

**Generating test cases with the same abstraction level of 4th generation environments**

by Federico Leonardo Toledo, Sebastián Grattarola, Matías Reina and Fabian Baptista (Abstracta)

**Test Software Quality Through Software Metrics**

by Kristóf Szabados and György Réthy (Ericsson)

**A Rational approach to integration testing**

by Yves Holvoet and Sidonie Goussard (IBM)

**MBT - Where do we stand?**

by Anne Kramer (Seppmed)

**End-to-End and Interoperability Testing with MBT**

by Kimmo Nupponen (Conformiq)

**A concept for concurrency in usage models**

by Daniel Homm and Reinhard German (Friedrich-Alexander-Universität Erlangen-Nürnberg)