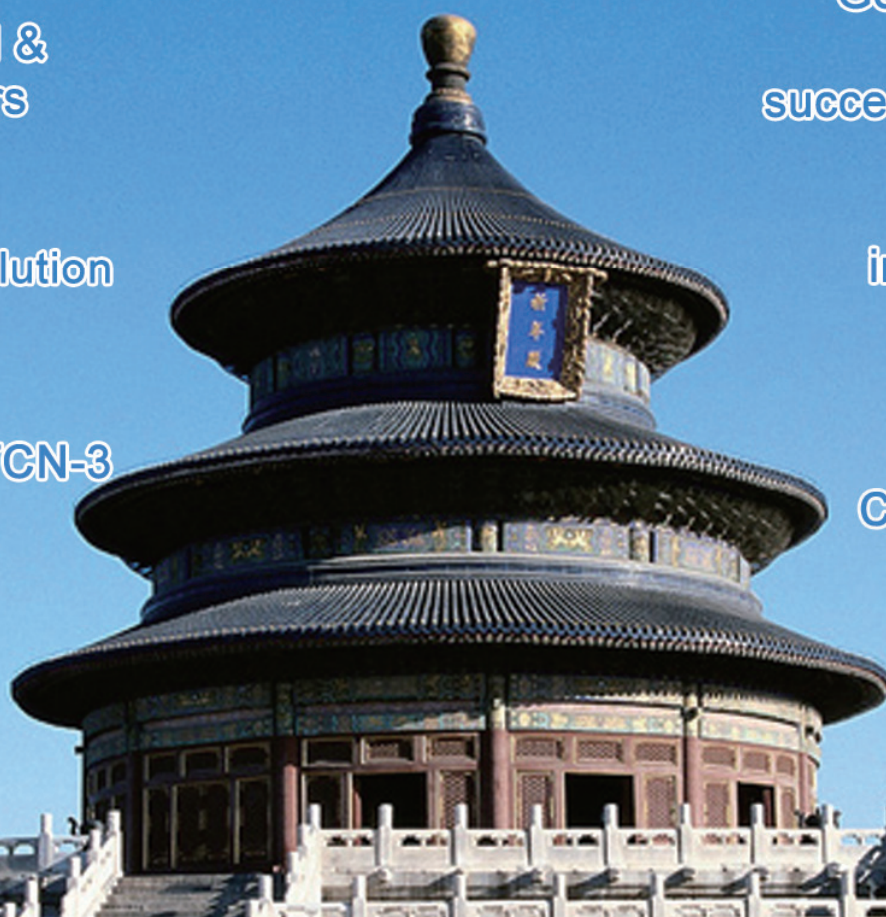


## Event Guide

- See the industrial use of TTCN-3
- Hear about TTCN-3 tool & service offers
- Track the TTCN-3 evolution
- Learn from deployed TTCN-3 solutions
- Share TTCN-3 user experiences
- Get to know TTCN-3 success stories
- TTCN-3 integration
- Meet the TTCN-3 Community



Sponsored by



8-10 June 2010  
Beijing China

Hosted by



## **TTCN-3 User Conference 2010**

### **Summary**

Official Website <http://www.ttcn3-asiaforum.com/T3UC2010/en/index.asp>

June 8-10, 2010  
High-Tech Mansion of BUPT, Beijing, China

## **TTCN-3 User Conference 2010**

### **Summary**

TTCN-3 User Conference 2010 is successfully held on June 8-10 at High-Tech Mansion of BUPT which is the first international TTCN-3 User Conference hosted in China. This is the largest conference to date! There were 164 people registered and total of 121 participants on site with high satisfaction ratings from attendees.

One of the highlights is the number of first-time attendees the event attracts. We have over 60% of attendees from Asia region, and nearly 70% of participants from China mainland.

This conference received the great support from the industry. We appreciated all the leaders, experts, colleagues and industrial users for your attendance, and give my honest gratefulness to ETSI, MIIT, and Science and Technology Commission, BUPT, BUAA, and to those world leading experts and personages in TTCN-3 domain.

From its European roots, the language has established itself extensively in Asia – especially in China, where it has experienced a rapid uptake in recent years. Its expanding application in many different technology domains has resulted in a huge growth of the TTCN-3 community, and it is the aim of the conference to enable the positive experiences of this community to be shared.

China has a long history as a user of TTCN-3 and currently contains the language's largest user community. This conference is meant to bring together testing experts, test tool providers and users from throughout the world to share experiences and to support the continued progress of the TTCN-3 technology.

With the aim for TTCN-3 development in Asia to realize TTCN-3 Global promotion and explore rooms for improvement in terms of TTCN-3 existing deficiency in Asia, we started the TTCN-3 Asia Forum, which is now under construction with the strong support and approval by ETSI. TTCN-3 Asia Forum has identified itself as a non-profit organization as its initiation, aiming to achieve the missions at both regional and international levels.

At last, on behalf of conference organizing committee, we extend our thanks to all the leaders and experts; and thanks for the great sponsorship from Elvior, Testing Technologies, Huawei, and Ericsson.

TTCN-3 User Conference 2010

June 12, 2010

## Agenda & Speakers:

<b>Tuesday 8th June 2010</b>		
<b>Registration Open: 09:30 - 10:00</b>		
<b>Tutorial Tracks</b>		
<b>10:00 - 12:00</b>	<b>Tutorial 1:</b>	<b>Tutorial 2:</b>
	<b>Introduction to TTCN-3</b>	<b>Automated Interoperability Testing Using TTCN-3</b>
	Testing Technologies Theofanis Vassiliou-Gioles	University of Göttingen, Thomas Rings Conformiq Software OY, Stephan Schulz, Telecom Italia, Luca Serazio
<b>12:00 - 13:30</b>	<b>Lunch</b>	
<b>13:30 - 14:30</b>	<b>Tutorial 3:</b>	<b>Tutorial 4:</b>
	<b>Implementation and Execution of TTCN-3</b>	<b>TTCN-3 in end-to-end model based testing explained on a case study</b>
	Testing Technologies Theofanis Vassiliou-Gioles	Elvior Andrus Lehtmets
<b>14:30 - 15:00</b>	<b>Tea Break</b>	
<b>15:00 - 17:00</b>	<b>Tutorial 5:</b>	<b>Tutorial 6:</b>
	<b>How to Implement TTCN-3 Codes and Adapters Efficiently</b>	<b>Automated Test Design with TTCN-3</b>
	IRISA Anthony Baire, César Viho	Conformiq Stephan Schulz, Jani Koivulainen
<b>17:00</b>	<b>Tea Break &amp; Networking</b>	

<b>Wednesday 9th June 2010</b>		
<b>Registration Open: 08:30 - 09:00</b>		
<b>09:00 - 09:30</b>	<b>Conference Opening</b>	
	Wang Guolong, PC Chair (HUAWEI)	
	Liu Dong, President (BII Group)	
	Dieter Hogrefe, TC MTS Chair (University of Göttingen)	
	Jorgen Friis, Vice President (ETSI)	
<b>09:30 - 10:15</b>	<b>Keynote 1: The Future of TTCN-3 in China</b>	
	Beihang University Liu Chao	
	45mn	
<b>10:15 - 10:45</b>	<b>Tea Break</b>	
<b>Session 1: Conformance and Interoperability Testing</b>		
<b>Chair: Wu Ji (BeiHang University)</b>		
<b>10:45 - 11:15</b>	<b>Paper - 1: The Application of TTCN-3 in M2M Testing</b>	
	BUPT, Huang Xiaohong, Li Weihai, Ma Yan China Mobile, Zhu Ruiping	

	30mn
11:15 - 11:45	<b>Paper - 2: The Role of TTCN-3 within the TETRA Certification Process</b>
	Testing Technologies, Theofanis Vassiliou-Gioles TETRA Association, Harald Ludwig
	30mn
11:45 - 12:15	<b>Paper - 3: Model-Based TTCN-3 Testing of A Mobile Operator Charging Subsystem</b>
	Elvior Andres Kull, Kullo Raiend
	30mn
12:15 - 12:45	<b>Paper - 4: Practice of Agile TTCN-3 Team Management and Using TTCN-3 in Interoperability Test of IPv6 READY Program</b>
	BII Group Liu Ming
	30mn
12:45 - 14:00	<b>Lunch</b>
14:00 - 14:45	<b>Keynote 2: Ideal Test Systems &amp; Target Development Test Process</b>
	Huawei Technologies Tony Chang
	45mn
<b>Session 2: Application Practice</b>	
<b>Chair: Anthony Wiles (ETSI)</b>	
14:45 - 15:15	<b>Paper - 5: The Application of TTCN-3 in Mobile Data Services Testing</b>
	China Mobile Zhu Ruiping
	30mn
15:15 - 15:45	<b>Paper - 6: Effective Development and Practice of Automatic Testing Based on TTCN3</b>
	Huawei Technologies Wang Shaofeng, Luo Fuliang, Yan Longguo
	30mn
15:45 - 16:15	<b>Tea Break</b>
16:15 - 16:45	<b>Paper - 7: MBT &amp; TTCN-3 in practice: The Ericsson RCS Project</b>
	Conformiq Stephan Schulz
	30mn
16:45 - 17:15	<b>Paper - 8: An Approach to Codec Development for Text-Based Protocols</b>
	ISPRAS, Nikolay Pakulin AMB Consulting, Alex Berge IRISA, Anthony Baire ETSI, Milan Zoric
	30mn
	<b>Vendor Track</b>
17:15 - 17:35	Elvior, Testing Technologies
	45mn

17:35 - 18:00	Q&A
18:00 - 20:00	Social Event

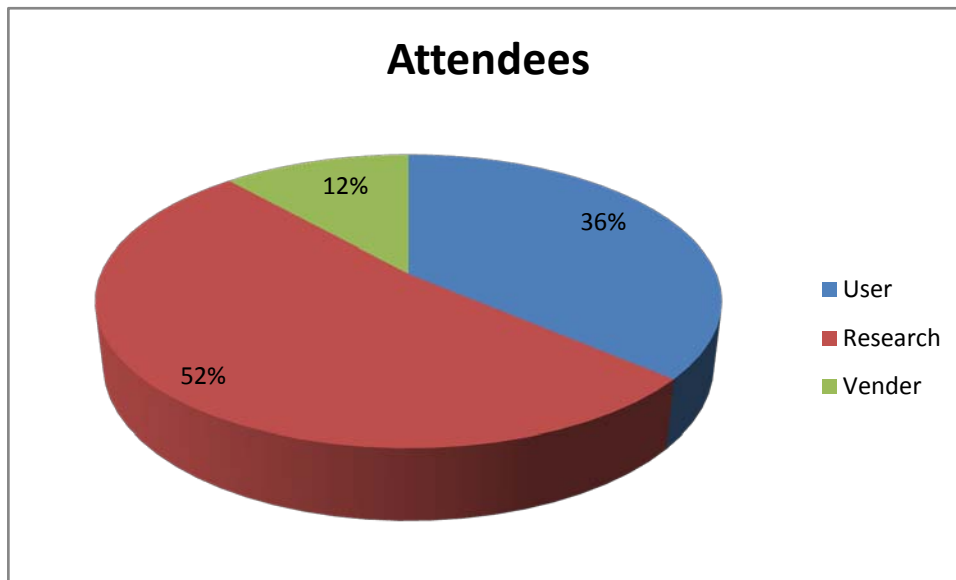
Thursday 10th June 2010	
Registration Open: 08:30 - 09:00	
09:00 - 09:45	<b>Keynote 3: TTCN-3 @ Ericsson</b>
	Ericsson R&D Ludmila Ohlsson, Zsolt Szendrei
	45 Min
<b>Session 3: Platform Development</b>	
<b>Chair: Jiang Fan (USTC)</b>	
09:45 - 10:15	<b>Paper - 9: A Versatile Codec Library for TTCN-3</b>
	University of Science and Technology, China Tang Yanwu
	30mn
10:15 - 10:45	<b>Tea Break</b>
10:45 - 11:15	<b>Paper - 10: Java-Based Test System Development with Open Source Components</b>
	Telecommunication Metrology Center of CATR of MIIT Liang Bing, Zhang Linlin, Ren Guofang, Cesar Viho, Nikolay Pakulin, Milan Zoric
	30mn
11:15 - 11:45	<b>Paper - 11: A Proposal for Modifying TCI-CH Interface to Facilitate Implementation of Decentralized Self-Organizing TTCN-3 Test Platform</b>
	Inner Mongolia University, China Shan Min, Wang Xianrong, Ye Xingming, Guo Lili, Zhao Lijun
	30mn
11:45 - 12:15	<b>Paper - 12: Common TTCN-3 Codec to Reduce Test Engineering Cost</b>
	BUPT Li Weihai, Huang Xiaohong, Ma Yan, Han Zhengwei, Ning Jiao
	30mn
12:15 - 12:25	<b>Special Speech: TTCN-3 Language Maintenance and Status</b>
	ETSI STF393, Benjamin Zeiss Ericsson, György Réthy
	10mn
12:25 - 13:30	<b>Lunch</b>
13:30 - 14:15	<b>Keynote 4: Wipro's TTCN-3 Journey From Telecom to Finance</b>
	Wipro Vittal Vashist
	45mn
<b>Session 4: Testing Technology Research</b>	
<b>Chair: György Réthy (Ericsson)</b>	
14:15 - 14:45	<b>Paper 13: An Open Compiler for TTCN-3 - picoTTCN</b>

	<p>Universidad de la Republica, Uruguay, Ricardo Rezzano, Ariel Sabiguero          FOKUS, Frank Le Gall,          BUPT, Huang Xiaohong          ISPRAS, Nikolay Pakulin          IMU, Wang Xianrong          INRIA, Anthony Baire</p> <p>30mn</p>
<b>14:45 - 15:15</b>	<b>Tea Break</b>
<b>15:15 - 15:45</b>	<p><b>Paper - 14: Test System Modelling and TTCN-3 Code Generation</b></p> <p>Beihang University          Chen Xinyi, Bi Kao, Wu Ji</p> <p>30mn</p>
<b>15:45 - 16:15</b>	<p><b>Paper - 15: Dependency and Guideline Analysis for TTCN-3</b></p> <p>Universität Göttingen, Germany          Steffen Herbold, Philip Makedonski, Jens Grabowski, Kathrin Becker, Stefan          Kirchner, Benjamin Zeiss</p> <p>30mn</p>
<b>16:15 - 16:45</b>	<p><b>Paper - 16: TTCN3 Experiences for LTE MME Call Processing Testing</b></p> <p>Motorola          Prashant Ramaswamy, Alwar Ethiraj</p> <p>30mn</p>
<b>16:45 - 17:00</b>	<p><b>Announcement</b></p> <p>15mn</p>
<b>17:00- 17:30</b>	<p><b>Award Ceremony</b></p> <p><b>Conference Closure</b></p> <p>Anthony Wiles (ETSI)</p>

**Attendees:**

There are 164 people registered and 121 people (including speakers) visit at site. The structure of the participants is as follows:

Industry	
User	44
Research	63
Vender	14
<b>Total</b>	<b>121</b>





## **Program Committee**

Wang Guolong, Huawei, CN (Program Chair)  
Stephan Schulz, Conformiq Software, FI (Program Co-Chair)  
Wu Ji, Beihang University, CN  
Liu Dong, BII Group, CN  
Dieter Hogrefe, University of Göttingen, DE (ETSI TC MTS chair)  
Giulio Maggiore, Telecom Italia, IT (ETSI TC MTS vice-chair)  
Ina Schieferdecker, Fraunhofer Fokus, DE  
Jiang Fan, University of Science and Technology of China, CN  
Anthony Wiles, ETSI, FR  
Jayakishor Bhanja, Wipro, IN  
Jayakumar K, Mphasis, IN  
Ariel Sabiguero, University of the Republic, Uruguay  
Gyorgy Rethy, Ericsson, HU  
Bernard Stepien, University of Ottawa, CA  
Colin Willcock, Nokia Siemens Networks, DE  
Nikolay Pakulin, ISPRAS, RU  
Bhaskar Rao G., Motorola, IN  
Sungwon Kang, KAIST, Korea  
Alex Zhu, TTCNTest Forum, CN

## **Organizing Committee**

Evonne Su, BII Group, CN (Organizing Chair)  
Emmanuelle Chaulot-Talmon, ETSI, FR (Organizing Co-Chair)  
Alyssa Ying, BII Group, CN  
Amilia Zhang, BII Group, CN  
Dillen Wang, BII Group, CN

## Welcome Address-TTCN-3 User Conference 2010 Opening Ceremony

---Jørgen Friis

Dear delegates, dear speakers, dear guests.

It is a big pleasure also for me to welcome you to the 2010 TTCN-3 User Conference.

I am Jørgen Friis, Vice president in ETSI – the European Standards Institute for ICT – Information and Communication Technologies and more important today – we are also the home of the TTCN-3 testing language standards.

ETSI is active in ICT standardization, not only in Europe but worldwide. ETSI is a member driven, not for profit organization and our more than 700 Members come from all over the world. We are a player in an ICT industry that by definition is global. We delivered the GSM standards and is a major partner in 3GPP further developing the mobile standards for the future. We do however have a special role in Europe as we are the legal organization who produces European Norms that are used in all European Member States.

It is a special day today as it is the first international TTCN-3 User Conference hosted in China. A big thank you to our partners from BII, Mr. Liu Dong and also to the program committee chair Mr. Guolong Wang from Huawei, who both have done an excellent job to get this conference up and running.

However ETSI has already been active in China in the past as we organized T3UC Asia and we held two Plugtests Interoperability Events here in Beijing on RFID and GPON. ETSI has a permanent standardization attaché in Beijing who help us to understand the special need from the people of China and make it possible for us to support the Chinese industry.

ETSI favors to work together with local organizations and this conference is a good example on such global collaboration. And collaboration is key as well as interoperability is key for ETSI.

We take for granted that with our mobile smart phones that we from everywhere in the world can connect to our family at home at any time. But before this can happen we need standards. And then we need products build on those standards - that can connect to and communicate with each other. They must be able to interoperate and this requires tools so we can test that this is achieved. ETSI provide a standardized test language and in our Centre for Testing and Interoperability we assist our technical committees to use testing methodologies and tools. TTCN-3 is a useful and necessary standard that in today's industry is a must to know and to use.

I sincerely hope that you will find this conference both relevant and useful. I wish you all the best for the next two days.

Thank you for your attention.

## Welcome Address-TTCN-3 User Conference 2010 Opening Ceremony

---Liu Dong

Dear experts and guests,

Good morning. As the president of BII Group and Chair of TTCN-3 Asia Forum, I am very honored to introduce the VIPs here today who participate in this TTCN-3 User Conference. We have Joergen Fris, Vice President of ETSI, Dieter Hogrefe, ETSI TC MTS Chair, University of Göttingen, Anthony Wiles, ETSI TC MTS, Zhao Weijun and Zhu Ruiping both from China Mobile, Zhang Linlin from CATR MIIT, Gao Lin from CESI, Eric Huang and Tony Chang both from Huawei, Chen Xiaohua from ISCCC, Klaus Ziegler from EU Delegation, and many experts from the industry, universities, research institutes, users and vendors, from home as well as abroad.

We all know testing is now a multi-billion dollar business and is a key phase in any serious development process. TTCN-3 was developed by the European Telecommunications Standards Institute (ETSI) and has also been adopted by the International Telecommunication Union (ITU). Over the last ten years TTCN-3 (Testing and Test Control Notation version 3) has become the de facto standardised test language, with global deployment in telecommunications, transportation, internet, medicine, web-based services and distributed systems. Its versatility ensures itself an effective role in functional conformance testing, load testing, performance and interoperability testing.

From its European roots, the language has established itself extensively in Asia – especially in China, where it has experienced a rapid uptake in recent years. Its expanding application in many different technology domains has resulted in a huge growth of the TTCN-3 community, and it is the aim of the conference to enable the positive experiences of this community to be shared.

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With the aim for TTCN-3 development in Asia to realize TTCN-3 Global promotion and explore rooms for improvement in terms of TTCN-3 existing deficiency in Asia, we started the TTCN-3 Asia Forum, which is now under construction with the strong support and approval by ETSI. TTCN-3 Asia Forum has identified itself as a non-profit organization as its initiation, aiming to achieve the missions at both regional and international levels.

Today we sit together to witness an important event in TTCN-3 history. The conference is organized jointly by ETSI and us Beijing Internet Institute (BII Group). Technical support to the event is being provided by Huawei Technology. At last, on behalf of the organizing committee, I hereby extend our warmest welcome to all of you, and many thanks to the great sponsors Elvior, Testing Technology, Huawei Technology, and Ericsson. I hope everybody has a pleasant conference. Thank you for your time.

## Activities:

### Conference Venue



### Tutorial 1 & Tutorial 3 by Theofanis Vassiliou-Gioles



### Tutorial 2 by Thomas Rings



### Tutorial 4 by Elvior



**Tutorial 5 by Anthony Baire**



**Tutorial 6 by Stephan Schulz**



**VIP Breakfast**



Welcome Address by Wang Guolong, Liu Dong, Dieter Hogrefe, Jorgen Friis



Keynote1 by Liu Chao



Paper1 by Huang Xiaohong



Paper2 by Theofanis Vassiliou-Gioles



Paper3 by Andres Kull



Paper4 by Liu Ming



TTCN-3 Asia Forum Lunch Meeting



Keynote2 by Tony Chang



Paper5 by Zhu Ruiping



Paper6 by Luo Fuliang



Paper7 by Stephan Schulz, György Réthy






**TTCN-3** User Conference  
 Testing & Test Control Notation

Paper8 by Nikolay Pakulin



Vender Track: Elvior, Testing Technologies



Q&A



### Social Event



### Keynote3 by Ludmila Ohlsson, Zsolt Szendrei



### Paper9 by Tang Yanwu



### Paper10 by Zhang Linlin



Paper11 by Shan Min



Paper12 by Li Weihai



Special Speech by Benjamin Zeiss



Keynote4 by A.Gowri Sankar



Paper13 by Huang Xiaohong



Paper14 by Chen Xinyi



Paper15 by Benjamin Zeiss



Announcement



### Welcome to the 10<sup>th</sup> TTCN-3 User Conference!



**Program Co-Chairs**  
 Jeta Grabovski, Univ. of Göttingen, Germany  
 Andreas Ulrich, Siemens AG, Germany

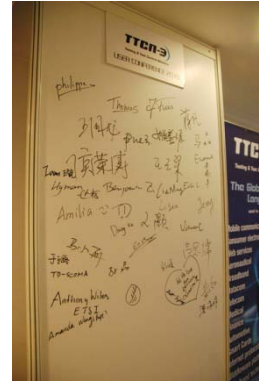
**Organizational Committee**  
 Roman Kuzar, Sintasio, Slovenia  
 Julien de Charraud, ETSI, France  
 Emmanuelle Chaouat-Talmon, ETSI, France

**Important Dates**  
 Submission of abstracts: February 3, 2011  
 Notification of acceptance: March 3, 2011  
 Submission of presentations: May 5, 2011

website: <http://www.ttcn3uc.eu>

In case of additional questions, please contact [t3uc@etsi.org](mailto:t3uc@etsi.org)





Booth & Demo



More pictures are in the ftp.

**Media Clipping (by June 12)**

No.	Hyperlink
1	<a href="http://www.tele.com.cn/news/display/article/17560">http://www.tele.com.cn/news/display/article/17560</a>
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40	<a href="http://news.chinaitlab.com/software/807874.html">http://news.chinaitlab.com/software/807874.html</a>
41	<a href="http://house.focus.cn/news/2010-06-12/959885.html">http://house.focus.cn/news/2010-06-12/959885.html</a>
42	<a href="http://www.chinacompany.net.cn/detail1.asp?hw_id=37932">http://www.chinacompany.net.cn/detail1.asp?hw_id=37932</a>
43	<a href="http://www.enet.com.cn/article/2010/0609/A20100609667007.shtml">http://www.enet.com.cn/article/2010/0609/A20100609667007.shtml</a>
44	<a href="http://www.cnii.com.cn/js/content/2010-06/09/content_771596.htm">http://www.cnii.com.cn/js/content/2010-06/09/content_771596.htm</a>
45	<a href="http://www.enet.com.cn/article/2010/0611/A20100611668454.shtml">http://www.enet.com.cn/article/2010/0611/A20100611668454.shtml</a>
46	<a href="http://www.chinaaet.com/article/index.aspx?id=23356">http://www.chinaaet.com/article/index.aspx?id=23356</a>

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