

# THE STANDARD

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ETSI Newsletter • September 2013

## Welcome to the World of Standards



Welcome to this September 2013 edition of 'The Standard'. In the last issue I promised that you would hear more about our 25th anniversary celebration. We celebrated this in style at the March General Assembly, and you can read all about it and see the photos in this issue.

2013 certainly is an anniversary year for ETSI. In November we will celebrate 3GPP's 15th anniversary at the same time as our November General Assembly. Immediately following the GA, on 21 November, we are organizing the ETSI Future Mobile Summit: A 2020 Vision for 5G. This event will lift the lid on some of the technical characteristics we can expect to see, and explore some of the impacts we can expect from widespread deployment of 5G systems.

Our technical work is continuing at full pace. Our new Work Programme brochure will provide you with a detailed overview of all our ongoing activities. DECT, one of ETSI's most successful standards, has been developed into an Ultra Low Energy variant. We expect this to be as

successful as the base DECT technology, since it shares many of its advantages. The reputation of our testing and interoperability experts has now reached Brazil, and you will read how they work hand in hand with our Technical Committee MTS, helping to engineer better standards for ETSI.

We have signed an important new co-operation agreement with our partner European Standards Organizations, CEN and CENELEC. We have had an agreement in place since 1990 and have continuously co-operated since then. However, this new agreement will, for the first time, enable the creation of joint technical committees to produce joint standards which will be published by the three bodies.

Finally, we have a large selection of workshops and events planned over the next six months, which I encourage you to take advantage of. However, please register quickly, as the most popular events fill fast.

I hope that you enjoy this issue and remain yours sincerely,

Luis Jorge Romero, Director General, ETSI

'The Standard' provides an information platform for ETSI Members, to inform you of the latest developments - both within our technical committees and the Secretariat - and offers a space for our Members to communicate with each other.

## Global Standards Collaboration in Korea

The 17th Global Standards Collaboration meeting (GSC-17) was held on 13-16 May 2013 in Jeju, Korea. The Telecommunications Technology Association (TTA) of Korea hosted the meeting for the third time.

The Global Standards Collaboration (GSC) is a set of annual meetings between regional radio, telecoms and ICT standards bodies across the globe and including the ITU. The GSC is the venue where the leaders of national, regional and international standards bodies gather together to discuss global standards and priorities for the ICT industry.

In the margins of the event, the ETSI delegation, led by the Director General Luis Jorge Romero, took the opportunity to sign the renewal of agreements with two long standing partners: ISACC, the ICT Standards Advisory Council of Canada, and TTA, the host of the event. The partnership with ISACC is a result of the good relationship that has been developed in the context of the GSC framework. The partnership with TTA has many facets, the most obvious of which is the 3rd Generation

Partnership Project (3GPP) where TTA is a founding partner alongside ETSI. More recently ETSI and TTA have joined forces in the new partnership project OneM2M.

The next meeting of the GSC, GSC-18 will be hosted by ETSI and will take place on 21-24 July 2014 at the ETSI Headquarters in Sophia Antipolis, France.



Mr. Jim MacFie, ISACC Chairman (l) and Mr. Luis Jorge Romero, ETSI Director General (r)



Mr. Kuen Hyeob Lee, President of TTA (l) and Mr. Luis Jorge Romero, ETSI Director General (r)

Meet ETSI at IBC 2013 ([www.ibc.org](http://www.ibc.org))

from 13 to 17 September at the RAI, Amsterdam. Find us in hall 2, booth # C29.  
Attend the ETSI session on 14 September at 8am: "Personalised TV & the Cloud" and have breakfast on us!  
**We look forward to welcoming you from 7.30am!**

# The SESEI Project reaches cruising speed

The Seconded European Standardization Expert for India (SESEI) Project, after its kick-off in January this year (see The Standard of February 2013), is now solidly establishing itself in India under the leadership of Mr. Dinesh Chand Sharma, the appointed SESEI expert. Having completed his training in Europe, Mr. Sharma started project activity in March 2013, and is now fully operational in New Delhi, India, where he has established his base at the European Business Technology Centre together with his local assistant. His first mission has been to advertise the SESEI project overall and to start opening up channels of communication between EU/EFTA and Indian decision makers, opinion leaders and stakeholders in the field of standardization and the regulatory system, both at policy making level as well as at the standardization level in the sectors identified as high priority (machinery, electrical equipment including consumer electronics, automotive, information & communication technologies (equipment and services), manufacturing and environment (energy efficiency)).

## The Telecommunications Standards Development Society India (TSDSI)

Mr. Sharma's first months on the ground were dedicated to introducing the SESEI project to all relevant local stakeholders, including the government, industry and research communities. As a result, the establishment of the SESEI Project has been very well received and welcomed by the Indian stakeholders. Several contacts have already been established and progress is being achieved in topics of importance to ETSI. For instance discussions and steps are being taken on ICT security, setting up of security certification and accreditation labs, energy efficiency etc. Most importantly, following the announcement of their National Telecom Policy 2012, the Indian Government has taken up the mission to create an Indian Standards Developing Organization (SDO) for the telecommunications sector. During the last Global Standards Collaboration (GSC) in Korea, Indian government officials were present and announced the creation of such a body, to be called the Telecommunications Standards Development Society India (TSDSI). Indian industry has embraced the implementation of this SDO in close coordination with Government, putting a temporary governing council in place.

## A snapshot of India



**Capital:** New Delhi  
**Population:** 1.241 billion (2011)  
**Official languages:** Hindi, English  
**Government:** Federal parliamentary constitutional republic  
**Dialing code:** +91

India's telecommunication industry, the world's fastest-growing, added 227 million subscribers during the period 2010–11, and after the first quarter of 2013, India surpassed Japan to become the third largest smartphone market in the world after China and the U.S.

**GDP (2011):** 1.873 trillion USD

The 487.6-million worker Indian labour force is the world's second-largest, as of 2011. The service sector makes up 55.6% of GDP, the industrial sector 26.3% and the agricultural sector 18.1%. The GDP value of India represents 2.98 % of the world economy.

**Sources:** World Bank / Telecom Regulatory Authority of India (TRAI)

## About the SESEI Project

The project to appoint a Seconded European Standardization Expert for India (SESEI) was launched in September 2012, supported by the three European Standards Organizations, CEN, CENELEC and ETSI as well as by the European Commission's Directorate General for Enterprise and Industry (DG ENTR) and by the European Free Trade Association (EFTA).

It follows from the intent of the EC to establish a "standards attaché" in strategically important regions (as stated in the EC "Action plan for European Standardization") and is a part of CEN, CENELEC and ETSI's strategy on external visibility and promotion of European standardization in the world.

The seconded expert is expected to develop and engage in an EU-India dialogue and cooperation on standards and standards related activities, in support of an increase of trade between India and the EU.

The daily management of the SESEI project is monitored by ETSI who manages the project overall.

More concretely, in the margins of the recent 5th edition of LTE India 2013 International Conference & Exhibition held in May, Mr. Sharma organized a series of meetings for Mr. Adrian Scrase, ETSI CTO, including an evening event to which local industry leaders were invited. In parallel, meetings were held with high level government officials on the subject of creating the new Indian SDO. This occasion was used to explain the ETSI construct, bye-laws, IPR Policy etc. and an open channel was extended to the Indian authorities for any assistance that they may require.

### Developing dialogue

Mr. Sharma's months to come will be committed to strengthening the SESEI project footprint locally by increasing the visibility of European standardization and promoting EU/EFTA-India cooperation on standards related issues. In parallel, ETSI will work hand in hand with the SESEI expert towards establishing partnerships with relevant local bodies such as the Bureau of Indian Standards (BIS) and the Cellular Operators Association of India (COAI), where common areas of interest have already been identified. Finally, the SESEI expert, in coordination with the project's Steering Committee, will also look at finalizing the communication tools to be used for the SESEI project, including a website (to go live in the coming months) and a dedicated newsletter.



Mr. Dinesh Chand Sharma, SESEI (l) and Mr. Adrian Scrase, ETSI CTO (r), meeting local industry leaders at the LTE India 2013 International Conference & Exhibition.

# New phase in cooperation between European Standards Organizations

CEN, CENELEC and ETSI sign agreement to extend their existing cooperation, now enabling joint development of standards in joint technical committees.

At a meeting of their Joint Presidents Group in Sophia Antipolis on 7 May 2013, CEN, CENELEC and ETSI have signed an updated cooperation agreement between the three European Standards Organizations (ESOs). This new

agreement will, for the first time, enable the creation of joint technical committees to produce joint standards which will be published by the three bodies.

CEN, CENELEC and ETSI have had a cooperation agreement in place since 1990. The three organizations have continuously collaborated since then to coordinate their work on common subjects and exchange information on their standards development plans. In addition, a Joint Presidents Group ensures management level coordination between the standards bodies, while informal exchange also takes place between standards committees through common members and experts. On subjects such as Intelligent Transport Systems, Smart Grids, Smart Metering and Electronic Signatures there is already a well-established working relationship between the ESOs, with careful coordination of work programmes to develop a coherent set of standards and avoid overlapping work.

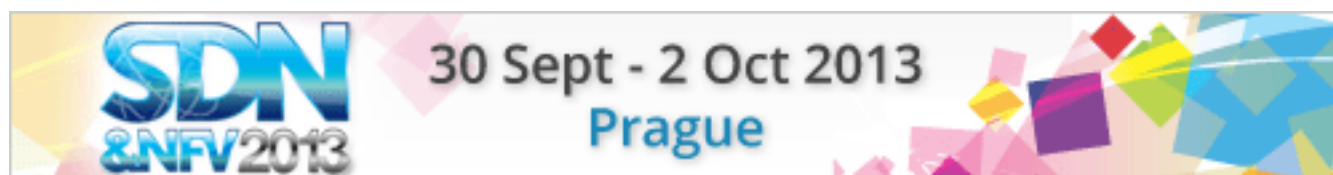
With information and communication technologies (ICT) now pervasive in many non-ICT industries, the three ESOs see a need to take their cooperation to a new level. CEN, CENELEC and ETSI plan to work jointly on certain subjects, especially those which are the subject of a standardization mandate from the European Commission. Joint work involves the establishment of a joint committee accessible to all members of the standards bodies, joint responsibility and joint ownership of the resulting standards. Through measures such as these, industry will benefit from a further integrated European standardization system.



(left to right) Tore Trondvold, President of CENELEC, Elena Santiago, Director General of CEN and CENELEC, Dirk Weiler, Chairman of ETSI General Assembly, Luis Jorge Romero, Director General of ETSI and Friedrich Smaxwil, President of CEN, at the signature of the CEN, CENELEC, ETSI cooperation agreement.

ETSI's Network Functions Virtualisation Industry Specification Group (NFV ISG) is attracting significant attention from industry. In six short months it has grown to 59 ETSI Members and 72 non-member Participant organizations. ETSI is endorsing two upcoming conferences on NFV and related technologies. Representatives from the ETSI NFV ISG will speak at both events.

## SDN & NFV 2013: 30 September – 2 October 2013, Prague, Czech Republic



<http://www.sdnconference.com>

## SDN & OpenFlow World Congress: 15-18 October 2013, Bad Homburg, Germany



<http://www.layer123.com/sdn>

# Introducing the **Wireless Systems Cluster**



Radio technology is an integral part of our daily lives – used in our mobile phones, for broadcast radio and television, in Wireless Local Area Network (WLAN) and cordless technology, Global Navigation Satellite Systems (GNSS), Radio Frequency Identification (RFID) and Short Range Devices (SRDs). All of these technologies and applications compete for use of limited radio spectrum resources.

ETSI creates standards which define many of these radio technologies and systems. ETSI also provides the standards which the regulatory authorities in Europe and elsewhere use to manage the radio spectrum environment and to ensure safe co-existence between all these systems.

## **Broad range of radio activities**

Our TC ERM (Technical Committee for Electromagnetic and Radio spectrum Compatibility) horizontal technical committee covers radio applications in a wide range of fields: Aeronautical - Automotive - Broadcast - Short Range Devices including generic devices, avalanche beacons, inductive data communications, RFID - Intelligent Transport Systems - Maritime - Private Mobile Radio including Digital Mobile Radio - Measurement uncertainty - Radio site engineering - Wireless medical devices - Wideband data systems including the 2,4GHz frequency band that is mostly used by access technologies such as WLAN - Ultra Wideband (UWB) including automotive radar and short range communication.

Digital Enhanced Cordless Telecommunications (DECT™) is the leading standard worldwide for both cordless voice and broadband home communication. TC DECT is now working on New Generation DECT and developing the latest release of the DECT base standard.

TC BRAN (Broadband Radio Access Networks) produces standards for Metropolitan Area Networks and Wireless Local Area Networks. Such networks are suitable for providing wireless broadband connectivity. Current work is focused on Ultra-Broadband Wireless Systems, providing 1Gbit/s per km<sup>2</sup> for Broadband Wireless Access.

Standards for microwave fixed links, typically deployed in backbone networks, are developed in the ATTM (Access, Terminals, Transmission & Multiplexing) committee.

ISG ORI (Open Radio equipment Interface) is working on its third release of specifications for an interface between remote radio heads and base band units of mobile base stations. Use of remote radio heads can lead to significant cost savings for a mobile operator, as well as offering a greater level of flexibility in network design and deployment.

A new Industry Specification Group on Low Throughput Networks (ISG LTN) is specifying a new ultra narrowband radio technology for very low data rates for ultra-long autonomy devices to provide an efficient connection that is both cost-effective and low in energy consumption.

TC SES (Satellite Earth Stations & Systems) develops standards for satellite communication services and applications (including mobile, broadcasting and GNSS services) as well as all types of earth stations and earth station equipment. SES is taking the lead role in three areas in response to the European Commission's 'Space Mandate' (M/496): Navigation and Positioning receivers for road applications and airport services, disaster management and interoperability and the integration

of Mobile Satellite Systems and Fixed Satellite Systems with terrestrial systems and with GNSS, in particular Galileo.

TETRA (Terrestrial Trunked Radio), developed by the ETSI TC of the same name, is a digital trunked mobile radio standard developed to meet the needs of Professional Mobile Radio users such as Public Safety, Transportation, Utilities, Government, Military and Oil & Gas industries. Broadband will be a key factor in providing the high data speeds required for some applications, such as streaming video from the scene of an incident, so we are concentrating on standardizing a broadband extension to the TETRA standard. We are heavily involved with the development of LTE™ to accommodate critical communications users, working closely with 3GPP™.

## **Our Role in the European Regulatory Environment**

ETSI cooperates with the EC (European Commission) and the ECC (Electronic Communications Committee of the European Conference of Postal and Telecommunications Administrations) on aspects of the regulatory environment for radio equipment and spectrum, both at the EU level and at the wider intergovernmental level across Europe.

The EC harmonizes the essential requirements for radio equipment, which include constructing radio equipment so as to avoid harmful

## **ETSI's Vision of a Connected World**

ETSI's cluster concept aims to provide a simplified, yet comprehensive, introduction to our activities in ICT standardization. Clusters facilitate access to ETSI's diverse work enabling the identification of areas of interest based on business relevance or application domain rather than purely on technical work areas.

Each cluster represents a major component of a global ICT architecture and encapsulates the work of a number of Technical Committees (TCs) and associated Working Groups (WGs) that share a common technological scope and vision.



interference, via the Radio and Telecommunications Terminal Equipment (R&TTE) Directive (1999/5/EC).

ETSI's Harmonized Standards are typically applied by manufacturers to demonstrate that their products comply with these requirements before being placed on the market and put into service.

We are analyzing the implications for our radio work – particularly in relation to software defined radio, cognitive radio and installations – of the European Commission proposals to replace the R&TTE Directive with a new Radio Equipment Directive. While the European Union develops new modes of spectrum sharing in Europe (a key element of the Radio Spectrum Policy Programme), we are developing new technologies which take advantage of these approaches. For example,

in our Reconfigurable Radio Systems (RRS) Technical Committee, we are examining the technical means for systems to operate under a Licensed Shared Access (LSA) regime. We are also examining the use of Cognitive Radio Networks on UHF TV White Space frequency bands.

The regulatory standards which are needed to support the deployment of GSM, UMTS and LTE networks in Europe are provided by TC MSG (Mobile Standards Group).

## SCOPE

Wireless systems and their regulatory environment

## VISION

Towards a fully connected wireless world

## 3GPP

As one of the founding partners of the Third Generation Partnership Project (3GPP™) ([www.3gpp.org](http://www.3gpp.org)), ETSI plays a prominent part in the development of mobile communications.

3GPP is a collaboration between six standards organizations worldwide (ARIB, ATIS, CCSA, ETSI, TTA, TTC) that develops specifications for advanced mobile communications technologies. Based on the evolution of GSM, first developed in Europe, 3GPP has developed the UMTS, LTE and LTE-Advanced technologies. A derivative of GSM, GSM-R developed by ETSI's Technical Committee for Railway Telecommunications (RT), is used in the rail industry.

The latest 3GPP release under development, Release 12, encompasses nearly 200 new top-level 'Features', resulting in a wide variety of new functionality and improvements to existing features, reflected in thousands of new or updated specifications.



A GLOBAL INITIATIVE

## Celebrating 15 years of 3GPP

In celebration of the 15th anniversary of the establishment of 3GPP and the 25th anniversary of its own foundation, ETSI invites its members and the members of 3GPP to a summit on future mobile communication. The ETSI Future Mobile Summit: A 2020 Vision for 5G will explore the issues driving the development of future 5G mobile communication systems and the impact that can be expected from widespread deployment of 5G. Speakers will

provide a briefing on the current status of research into advanced 5G systems and will lift the lid on some of the technical characteristics we can expect to see.

The evening before the summit, on 20 November 2013, ETSI will host a networking cocktail to celebrate 3GPP's 15th anniversary.



## ETSI Future Mobile Summit

21 November 2013 Pullmann Hotel, Mandelieu



Join the 3GPP 15th anniversary evening celebration on 20 November



# Presiding judge of the X. senate of the German federal supreme court, Dr. Peter Meier-Beck, addresses the ETSI IPR Special Committee

The ETSI IPR Special Committee (IPR SC) met at the ETSI headquarters in Sophia Antipolis, France from 18-20 June 2013, during which the topics of transfer of patent ownership, injunctive relief, reciprocity, and dispute about whether licensing terms and conditions are Fair Reasonable and Non-Discriminatory (FRAND) were discussed. The meeting was again attended by a large number of ETSI members, ETSI's partners the International Telecommunication Union (ITU) and the Institute of Electrical and Electronics Engineers Standards Association (IEEE-SA), as well as representatives of the European Commission's Directorates General dealing with competition, enterprise and market matters.

In order to have the most complete view and assessment of the issues related to patents in the context of standardization, the chairman of the IPR SC may invite key experts to participate in discussions. At a previous meeting delegates heard from the Rt Hon. Professor Sir Robin Jacob, the Sir Hugh Laddie Chair of Intellectual Property Law at University College London and retired Lord Justice of Appeal. At this month's meeting the chairman invited Prof. Dr. Peter Meier-Beck, the presiding judge of the X. senate of the German federal supreme court. Dr. Meier-Beck gave a keynote presentation about the German Orange Book Standard case, in which the German Federal Court of Justice held that a patent holder's refusal to enter into a license agreement on FRAND terms can prevent an injunction from being granted against a prospective licensee. This was followed by a very lively and beneficial discussion. This session provided a number of new insights to participants.

The meeting focused on proposals to address the circumstances under which injunctive relief may be available. Discussions also continued on the meaning of the reciprocity condition attached to a patent holder's commitment to license its Standard-Essential Patents. No consensus has yet been reached on these topics and the debate is expected to continue at the next meeting in September.

The ETSI Secretariat gave an update on collaboration with the World Intellectual Property Organization (WIPO) to explore the possibility of defining suitable Alternative Disputes Resolution services that may be useful in resolving FRAND disputes.

## Educating the world about standards

The International Cooperation for Education about Standardization (ICES) and the World Standards Cooperation (WSC) Academic Day were hosted by ETSI in Sophia Antipolis on 12-14 June 2013. Both events were co-organized by ISO, IEC and ITU and endorsed by CEN and CENELEC. The events were focused on a central theme of what industry expects from standards education.

These two events brought together delegates from all continents, from academia, industry and national and international standards organizations. Presentations and discussions in breakout sessions showed that the requirements for education about standardization differ significantly depending on the economic development stage of a country. While developing countries are interested in benchmarking with respect to quality and process standards, and emerging countries are eager to learn about standardized technologies, the developed countries focus on the role of standardization in innovation. Industry speakers confirmed the strategic role of standardization in business development, particularly in ICT, and stressed the soft skills of delegates as being crucial for successfully influencing standards making.

The diversity of needs and cultural backgrounds triggered fruitful discussions. Delegates from organizations and countries which have never had their voices heard at ETSI, in particular Swaziland or Kazakhstan, made very touching, eye opening statements.

More information, all presentations and the ICES Proceedings are available at:  
<http://www.etsi.org/news-events/past-events/658-2013-ices-wsc-conference>

The ETSI General Assembly of March 2013 had previously adopted a change to the ETSI IPR Policy to better address the situation when a Standard-Essential Patent subject to a FRAND licensing commitment is transferred to a new owner, to ensure that all successors-in-interest continue to be bound by this FRAND licensing commitment. The IPR Special Committee agreed on accompanying changes in the ETSI Guide on Intellectual Property Rights. These changes will be presented for approval to the ETSI Board meeting in September before being published.

**The next meetings of the ETSI IPR SC are scheduled for 9-11 September and 10-12 December 2013.**

## ETSI Annual Report

The ETSI Annual Report of 2012, published in April 2013, provides an overview of the activities of the institute during the course of the year.

Latest



The Annual Report April 2013 can be downloaded from the ETSI website:

<http://www.etsi.org/about/annual-report>

Hardcopies are available from the ETSI Secretariat upon request at [info@etsi.org](mailto:info@etsi.org).

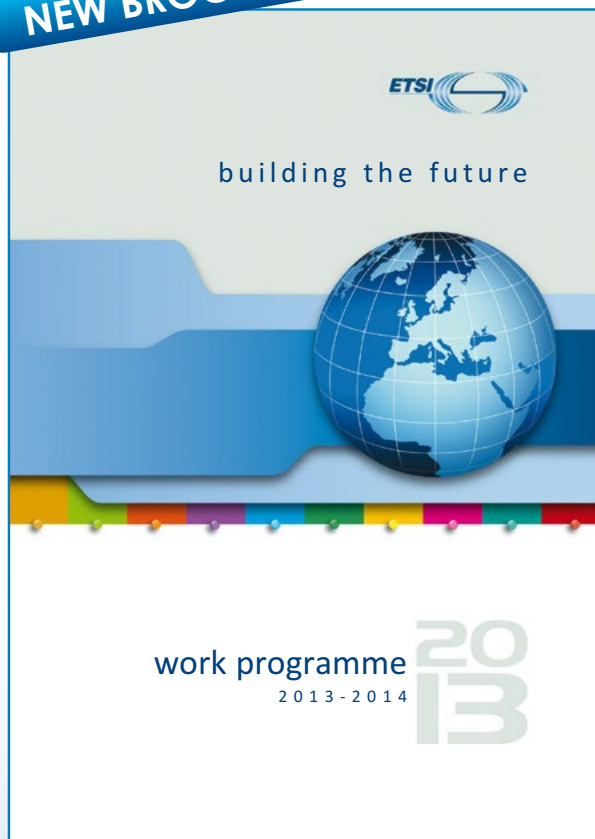
## ETSI Work Programme 2013-2014

In 2013 for the first time we have produced a brochure on ETSI's work programme: ETSI Work Programme 2013-2014. Although ETSI's work programme database is fully open on our portal where each and every work item can be consulted by the public, a more accessible format is also needed.

ETSI Work Programme 2013-2014 provides an overview of the ongoing work in our technical bodies and ISGs, structured according to our clusters. It presents the full extent of our forthcoming standardization activities to readers who may not wish to navigate our online database. Since ETSI's work never stops and our work programme is never frozen, the electronic format of the brochure contains links to the online work programme on the portal, for the latest status of our work.

We hope you will find this new brochure useful, whether to develop your own knowledge of ETSI's work, or to brief others on the activities of the institute.

**NEW BROCHURE**



You may download the ETSI Work Programme 2013-2014 now at:

[www.etsi.org/technologies-clusters/  
white-papers-and-brochures/etsi-work-programme](http://www.etsi.org/technologies-clusters/white-papers-and-brochures/etsi-work-programme)

Hardcopies are available from the ETSI Secretariat upon request at [info@etsi.org](mailto:info@etsi.org).

## Meet ETSI at ICT 2013: 6-8 November 2013 in Vilnius, Lithuania.

ICT 2013 is the European Commission's flagship conference for ICT researchers. Speakers from across the ICT sector will address a range of issues from cloud computing, broadband, ICT infrastructures, ICT skills, cyber security, long term visions on the future and much more. Experts will present details on how to participate in the next EU Research Programme - Horizon 2020. The conference will be opened by the Vice President of the European Commission, Neelie Kroes and the President of the Republic of Lithuania, Dalia Grybauskaitė.

**ETSI will be present at ICT 2013, 6-8 November 2013 in Vilnius, Lithuania. Come visit our exhibition stand to find out more about our approach to linking research and standards.**

<http://ec.europa.eu/digital-agenda/ict-2013>



## 4th ETSI M2M Workshop: 5-7 November 2013

Join ETSI and the M2M community for our 4th M2M workshop on 5-7 November 2013, in Mandelieu, France. Hear how M2M technology will enable smart appliances, devices and buildings. Discover the latest news from the oneM2M Partnership Project. View the demonstrations of innovative solutions based on ETSI's M2M standards.

**Register soon as this is always a popular event:**

[www.etsi.org/m2mworkshop](http://www.etsi.org/m2mworkshop)



**ETSI marked its 25th anniversary with a day of celebration on Tuesday 19 March 2013 during the 61st General Assembly (GA).**

### Keynote speakers

In the afternoon of 19 March, in the Hotel Pullman in Mandelieu, France, an audience of over 200 heard invited speakers describe the role played by ETSI in a quarter of a century of standards-making, and predict some of the challenges ahead. The speakers represented the wide range of organizations with which ETSI works – including the European Commission (EC), international partners, manufacturers, operators and National Standards Organizations (NSOs).

Introducing the speakers, GA Chairman Dirk Weiler said that he doubted that the founding fathers of ETSI could have imagined the full impact the Institute would have over the next 25 years. He acknowledged that it was a willingness to co-operate and to share common goals which had created ETSI and was responsible for its achievements over the years.

**"Standardization is vital for Europe and the competitiveness of European businesses"**

### ETSI, for Europe and beyond

Antti Peltomäki, Deputy Director General of DG Enterprise took the platform first, on behalf of the EC, highlighting ETSI's relevance to Europe. He recalled the beginning of the ETSI story, at a time when the worldwide web was in the making and before the liberalization of the telecommunications market in the European Union. He went on to look forward to ETSI's

role over the next 25 years: "As far as the Commission is concerned, standardization is vital for Europe and the competitiveness of European businesses." Not only does it contribute to market access within the European Union and across the world, he said, but it also facilitates investment in new technologies and significantly benefits innovation.

He added that ETSI can play a pivotal role in future ICT standardization, building on its position as a recognized European Standardization Organization (ESO), combined with its global reach and its track record of partnerships with other organizations worldwide. He went on to define ETSI's potential: "ETSI cannot afford to stand still. It must look to broaden and deepen its activities. It must especially take account of the ever greater convergence of technologies." He highlighted various areas where ETSI's standards can make a big difference, including consumer protection and improving accessibility for the elderly and those with disabilities. He praised the value of ETSI's work on interoperability and its importance in developing markets. Finally he acknowledged the value of ETSI's model of direct participation and its ability to meet its members' evolving needs, and pledged the Commission's continuing support for the next 25 years.

Dr. Kyu-Jin Wee, Vice President of the Telecommunications Technology Association (TTA) of Korea, one of ETSI's partners in the Third Generation Partnership Project (3GPP™), had flown 14 hours to join the

celebrations. He began by presenting ETSI Director General Luis Jorge Romero with a large wall plaque commemorating the co-operation between ETSI and TTA.

Speaking on the importance of global co-operation in standardization, Dr. Wee drew attention to ETSI's role in the establishment of 3GPP and, more recently, in oneM2M, the new Machine-to Machine (M2M) communications partnership project.

Pointing to ETSI's role in international standardization, Dr. Wee said: "ETSI's globally recognized standards, such as GSM™ and DECT™, which were developed to meet the market needs, and other standards such as EMC, accessibility and public safety standards, which were developed to meet the public interests, are clear indication of ETSI's dedication toward developing good standards. For that I would like to express my deepest respect to ETSI members, as well as the secretariat of ETSI, for their effort and their sacrifice." He continued: "It is not an overstatement to say that ETSI's GSM standard became the catalyst for the world to recognize the significance of international standards, and global partnership projects such as 3GPP began from such recognition".

### Future challenges facing ETSI

Next Hossein Moiin, Chief Technology & Innovation Officer of Nokia Siemens Networks, gave a stimulating presentation on the value of ETSI as a standards provider in the past and in the future, and offered a foretaste of what is to come in mobile communications. Congratulating ETSI on 25 years of great accomplishment, he said: "We should not underestimate the importance of ETSI as a standardization body nor its achievements. Through ETSI, first GSM and later UMTS™ and LTE™, we are transforming the global economy, we are transforming society."

Looking back over the last 25 years, he pointed out that mobile communication has been the fastest adopted technology in the history of mankind, evolving from a status symbol to a human right. It has the ability to transform other industries. He recognized that ETSI has played a prominent role in this fundamental transformation of humanity and he praised the Institute's foresight in establishing the right environment for developing LTE when there was no demand for the technology. Today LTE is transforming lives, by transforming other technologies and sectors including M2M, broadcast, public safety, logistics and smart energy.

But, he added, the work is not done, as the transformation continues with the next generation of radio technology. He described a vision for 2020, in which mobile networks deliver one Gigabyte of personalized data per user per day, profitably. To achieve this, he expects capacity to increase by up to 1000, latency to be reduced to milliseconds, networks taught to be self-aware, the telecom business reinvented for cloud, and energy consumption reduced. He said '5G' must be as successful – and even more successful – than LTE.

Offering his congratulations on the achievements of the past, Mr. Moiin went on to outline what the mobile communications industry expects from ETSI in the future. He said this should include: continuing to deliver the results that truly matter to industry – radio, 5G, cognitive





radio and what he regards as perhaps the key theme of the future, network virtualization; including all the players in the ICT industry; creating an innovation-friendly environment while at the same time protecting legacy technologies; and finally continuing to respond to its members' needs. He concluded: "We expect a lot from ETSI... This is not a small challenge."

Roberto Minerva, Head of Innovative Architectures at Telecom Italia's Future Centre, also spoke about the challenges ahead for ETSI in the fast changing technology environment, this time from the operator's viewpoint, and with a focus on networks. He gave us a glimpse into an exciting future – a future with growing connectivity. In particular, he foresaw a move towards a platform-based approach, a network of networks for edge communications, a data framework for creating information and knowledge networks, and transaction-based Internet. Mr. Minerva called on ETSI to support these developments by adopting a user-centric approach, spreading the impact of 'softwarization', contributing to Edge Networking and promoting new business models and new ecosystems.

**Personal perspectives on the impact of the institute**

Alain Maloberti, Senior Vice President with Orange Labs Networks, gave a personal perspective of ETSI, looking back to the foundation of the Institute, and recounting the story of the birth of GSM, its adoption as a global standard and the evolution to the General Packet Radio Service (GPRS) and the Universal Mobile Telecommunications System (UMTS).

Mr. Maloberti also looked to the future and the challenges of increasing capacity and capability and of innovation. He acknowledged: "ETSI is facing new frontiers, new borders – LTE, all IP networks, more bandwidth at lower cost, more capacity with less power consumption, more quality with more traffic – and always using a finite resource." However, based on past experience and the professionalism of its staff and delegates, he was confident that ETSI would manage these potential contradictions, and respond to industry's future needs for mobile, for cordless and for fixed networks. "Long live ETSI."

Bogdan Topic, President of the Slovenian Institute of Standardization (SIST), spoke about ETSI and NSOs working together, and ETSI's welcome for small countries, particularly from Eastern Europe.

Taking an overarching view, he reminisced about the birth of ETSI and the 'eruption' of ICT, especially digital and mobile communications. He speculated that there was a new technical eruption on the way – perhaps related to Cloud and M2M – to which ETSI would have to adapt. But he was confident of the Institute's future because of its ability to identify such breakthroughs, the support

of a proactive secretariat, and committed members who recognize that ETSI's success is very much tied up with the future of their own businesses.

Dominique Fache, President of the Sophia Antipolis Foundation, offered his congratulations and talked about the science park of Sophia Antipolis where ETSI has been based for the last 25 years. He discussed the challenge of innovating for new jobs and new companies, the cross-fertilization that brings industrial and societal growth and the revolutions ahead in the universities and in energy consumption.

Finally, Karl Heinz Rosenbrock, former ETSI Director General and Lifetime Honorary Director General, presented a historic flashback to the development of ETSI from a small ESO to become an important global player in ICT standardization – accompanied by a nostalgic slide show of photographs taken during his 16 years in office.

Mr. Rosenbrock described the birth of ETSI, dated from the first GA on 28-29 March 1988, and how manufacturers and operators were brought into the standardization arena. He listed some of the challenges faced by ETSI over the years and highlighted the factors which had made it successful, recognizing particularly that "the future is built through partnership" and the "famous ETSI spirit". Looking ahead, he praised ETSI's continuing ability to adapt to a changing environment and advised that future work should focus on the needs of the user.

Good wishes were also received from other partners including EFTA, ARIB, CCSA and CEN/CENELEC. The President of CEN, Friedrich Smaxwill, addressed the GA on the Tuesday morning and presented ETSI with a gift.

**Gala Dinner**

To round off the celebrations, in the evening a Gala Dinner was held at the Palais des Festivals et des Congrès in Cannes, complete with red carpet and champagne reception.

Luis Jorge Romero welcomed the 300 guests who included ETSI members, former officers, staff who retired in service and members of the Secretariat. Special guests included attendees of the very first General Assembly.

Both the menu and the entertainment were typically French. The evening was styled with a red and black Moulin Rouge theme, and singers and dancers thrilled the dinner guests with a stunning display of costumes and acrobatics.

Dirk Weiler led guests in a champagne toast to ETSI and the day came to an end with the distribution of a commemorative book on Antibes and the surrounding region – which includes a chapter of personal reminiscences drawn from ETSI's first 25 years.

Coaches then returned guests to their hotels – ready for business as usual again the following morning with Day 2 of the General Assembly.

**"We should not underestimate the importance of ETSI as a standardization body nor its achievements."**

# Open Letter to Members



ICT has become an integral part of our everyday lives. To develop successful ITC services, technical excellence must come with a good user experience. We all benefit from accessible ICT, regardless of our level of ability.

To create a good user experience we can always apply some magic, but there are less risky and more scientific ways to achieve this - through the application of human factors and usability engineering, the disciplines covering these topics!

The International Symposium on Human Factors in Telecommunication (HFT) is organized to provide a forum to exchange information, views and experiences in the research and application of excellent Human Factors and human-machine interaction principles in telecommunication and ICT.

As Chairman of the HFT Permanent Steering Committee, I would cordially like to invite you to attend the 22nd HFT Symposium, endorsed by ETSI, to be held in Berlin, Germany, on 3-5 December 2013. The event is hosted by the Fraunhofer Heinrich Hertz Institute – an incubator for researching and innovating our digital future.

The first International Symposium on Human Factors in Telecommunication took place in 1961 and focused on basic telephony and speech quality. Nowadays, the symposium addresses topics of global and local relevance in an interactive way, related to the research, development, collaborative processes, deployment, use

and impacts of fixed and mobile ICTs (including devices, societal and other e-services and applications).

This year's symposium will deal with the three key topics of creativity, collaboration and communication, examining areas such as:

- Digital convergence and the user experience of devices, services, apps and media
- Multimodal, multi-device services, apps and applications
- Inclusion, design for all and accessibility best practices
- Human factors and accessibility standardization for inclusive design
- e-Services, utilities and applications – today and tomorrow
- Ethical and trust issues related to the use of ICT
- Design studies, development and usability methodologies and measures
- Industrial case studies and best practices
- User experience in agile development, co-development and interworking
- Mobile communication, content, apps and services – in or outside the cloud

- Next Generation Networks, Smart Cities and their services
- Privacy, safety, and emergency communication
- User aspects of location and positioning services, machine-to-machine (M2M), transport telematics and collaborative, intelligent transportation systems (ITS)
- eHealth, telecare and telemedicine
- Multicultural perspectives and social aspects of ICT
- Home systems automation.

The call for abstracts is already available and more information will be provided at [www.hft.org](http://www.hft.org) and [www.hft.org/hft13/hft\\_13.htm](http://www.hft.org/hft13/hft_13.htm).

The International Human Factors in Telecommunication (HFT) Symposium was established in Cambridge, U.K, in 1961 and has become a regular event in this discipline. The HFT Symposium provides an interactive forum for academics, practitioners and policy makers to discuss the challenges, innovations, standards and development opportunities of digitally inclusive societies. The event strives for the best possible user experience and accessibility of ICT for all.

As usual, two awards will be handed out: the John Karlin award for the best paper is named after one of the founders of our discipline at AT&T Bell Labs.

The Knut Nordby Accessibility Award is named in memory of our late ETSI TC HF Chairman from Telenor and has a focus on practical accessibility achievements in a true design-for-all approach.

We would like to welcome many of you! Consequently, attendance fees have been kept at a minimum and students and young researchers are offered a 50% reduction. The number of seats is limited – therefore, registration is on a first come- first served basis!

**Looking forward to seeing you in Berlin!**

**Bruno von Niman**  
CEO, Swedish ICT Standards & Head of the Swedish delegation to ETSI;  
Vice chairman, ETSI TC Human Factors;  
Chairman, Permanent Steering Committee, HFT Symposia

## Upcoming ETSI event

**ETSI, Smartesting and ALL4TEC are jointly organizing UCAAT, User Conference on Advanced Automated Testing, the first international conference dedicated to test automation. This conference will take place on 22 - 24 October 2013 in Paris, France.**

This conference is dedicated to the practical engineering and application aspects of automated and model-based testing. It addresses test methodologies, test management and use of test languages such as TTCN-3. While there is a strong industrial focus, new and innovative research experiences are also presented. This industrial conference gives a forum to users from different application domains to meet and share their practical experiences & lessons learned. UCAAT will include tutorials, invited keynote speeches and presentations from the test automation and MBT user community.

**For more information, please visit: <http://ucaat.etsi.org/2013/>**

## ETSI Plugtests in Brazil

ETSI's Plugtests™ service organized an RFID testing and evaluation event in Brazil, on 20-24 May 2013, hosted by CPqD in Campinas. The event was organized by ETSI in collaboration with CPqD (an ETSI member) and the FP7 Probe-IT Project.

The primary purpose of the interoperability testing event was to promote the European RFID standards to the Brazilian community and to test different interoperability scenarios in a real RFID environment. In addition to the testing event, a workshop was organized by ETSI and CPqD where ETSI activities were presented with the emphasis on the work of our Technical Committee ERM TG34.

The tests during this event focused on four main areas:

- a comparison between the RFID Frequency Hopping Spread Spectrum (FHSS) method of operation used in the Americas and the four channel plan

adopted by Europe (ETSI EN 302 208)

- an ETSI demonstration of the operation of mitigation techniques which have been designed to enable RFID to share the same frequency band,
- analysis of interference between RFID and GSM,
- an assessment of a typical Brazilian application involving the movement of tagged goods on a conveyor.

The tests were performed in CPqD's new RFID Study and Application Experimental Laboratory which was opened in February 2011.

The tests were carried out in order to compare the performance between interrogators when configured in the FHSS mode and interrogators configured to operate in accordance with the 4 channel plan which has been defined by TC ERM TG34. In addition further tests were carried out to assess the reading performance of tags when attached to

“unfriendly” items and the effect of tag orientation.

Currently the Brazilian regulations concerning RFID are based on the FHSS mode of operation, as commonly used in the Americas, rather than the four channel plan that has been adopted in Europe. However with the increasing number of RFID technologies and applications available at UHF, the Brazilian RFID community has recently expressed a strong interest in participating in an ETSI Plugtests event. It was felt that this would provide a better understanding of the role of ETSI within Europe and of the standardization activities that had taken place on RFID at UHF within TC ERM TG34.

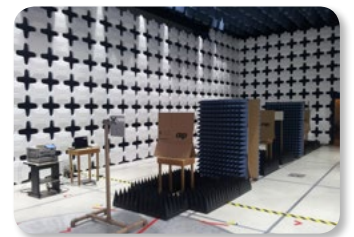
In addition, in Brazil the frequency bands used for RFID technology, (902-907.5 MHz and 915-928 MHz), are very close to the band used by cellular mobile communication technologies, particularly the GSM 900 MHz band, which reinforces the need to carry out interference evaluation tests between these systems. The results of these tests, highly anticipated by the Brazilian RFID community, demonstrated that the 4 channel plan (at the frequencies proposed in the new European band 915 – 921 MHz) avoids interference issues.

All the tests were performed in accordance with a previously agreed test specification. A report containing the test specifications

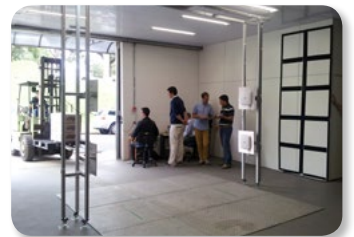
along with all the achieved results was produced jointly by the RFID Department of CPqD and ETSI Plugtests team. The results of this study are expected to assist in future technical developments in Brazil and contribute towards improvements in their national standards. In addition the Plugtests event should lead to greater technological cooperation between Europe and Brazil.

This report is available for download via the ETSI website:

<http://www.etsi.org/news-events/events/671>



*View of Portal B in anechoic chamber at the CPqD laboratory*



*Moving a tagged pallet through the portal*

**“The purpose is to contribute to the development of standards and prepare procedures for validation and analysis of RFID technology uses in different scenarios,” explains Tania Regina Tronco, from CPqD's Innovation Management Corporate Department.**

## ETSI receives prestigious Chinese award



The Beijing Municipal Science and Technology Commission has awarded ETSI their Excellent International Partner Award of Beijing International Cooperation Base for Science and Technology. This award, received on 30 January 2013, comes in recognition of the work done by ETSI in managing the development of 3GPP's test specifications for the TD-LTE variant of LTE.

3GPP members have always recognized the importance of having standardized test specifications available to mobile device manufacturers and certification bodies, in order to ensure the highest level of interoperability of mobile devices. The development of these test specifications is managed by ETSI, in particular by Mr Shicheng Hu of the Centre for Testing and Interoperability (CTI). Shicheng manages a task force (TF 160) of 20 testing experts drawn from 3GPP member companies, with an annual budget of over €1m, three quarters of which comes from 3GPP funding and a further 25% provided voluntarily by individual 3GPP members. TF160 maintains a set of 2500 test cases specified in the ETSI-standardized language TTCN-3 (Testing and Test Control Notation version 3), adding up to 200 new tests per

year. These tests are in turn used by the Global Certification Forum (GCF), an independent certification scheme for mobile phones and wireless devices that are based on 3GPP standards and by the PTCRB, the wireless device certification forum established by North American mobile network operators.

The Chinese Communications Standards Association (CCSA), the Chinese partner in 3GPP, together with the TDIA (TD Industry Alliance), have provided dedicated funding and support to TF 160 for the development of test cases for TD-LTE. The Time Division Duplex variant of LTE (TD-LTE) has significant backing in China. Supported by the “TD-LTE TTCN code development” project, part of the Chinese research scheme called “National Science and Technology Major Projects - New generation of broadband wireless mobile communication networks”, more than 20 man-months per year from TDIA have been used for TD-LTE TTCN development at ETSI since 2009. The development of these TD-LTE test specifications is essential in order to enable the availability of certified TD-LTE devices as TD-LTE networks are being rolled out.

ETSI is proud to have received this unexpected recognition. Shicheng gladly accepted the award on behalf of the institute since it also comes in recognition of his personal involvement. Test specification development continues today in 3GPP in order to develop test cases for LTE-Advanced, including the TDD variant.

# MTS: Standards Engineering for ETSI

A considerable amount of time is spent by ETSI members every year drafting new standards. What many do not realize is that next to the ETSI technical bodies working on specific technologies there is also a Technical Committee that develops methodologies, guidelines and techniques for writing and validating ETSI standards. This is ETSI's Technical Committee MTS: Methods for Testing & Specification. While the ETSI secretariat provides support services such as Edithelp to ensure that ETSI deliverables are correctly formatted according to the ETSI drafting rules, TC MTS is entirely driven by ETSI members. The committee focuses on the technical aspect of drafting standards, i.e. how to write and present the technical content of these documents in an unambiguous manner and ensure that they can be implemented successfully. This is also known as standards engineering.

A key contributor to TC MTS is the ETSI secretariat's Center for Testing and Interoperability (CTI) ([www.etsi.org/services/testing-interoperability-support](http://www.etsi.org/services/testing-interoperability-support)). ETSI CTI encourages and assists other ETSI technical committees in the use of best practices and methodologies developed by TC MTS. CTI brings the experience gained in applying these methods back to TC MTS, so helping to ensure that the work of MTS takes account of the needs of ETSI's technical committees.

In its 25 years of activity, TC MTS has brought together experts from ETSI members of all categories and sizes: equipment vendors, operators, service providers, specification & testing tool vendors as well as renowned research institutes and universities. Taken in common these have many decades of experience in specification, testing and methodology. In time, the work and standards produced by the committee has shifted from a focus on protocol engineering in the 1990s to testing in the 2000s. Milestones in TC MTS work have been the Making Better Standards website (<http://portal.etsi.org/MBS>), a handbook on SDL and ASN.1 specification and the series of ETSI Standards defining TTCN-3 (Testing and Test Control Notation: [www.ttcn-3.org](http://www.ttcn-3.org)).

In addition there are numerous guides designed to provide advice not only on the specification of good base standards but also on how to assess if a product actually adheres to base standards.

In TC MTS today, the main areas of work are centered on:

- 1) development and test of TTCN-3 which, 13 years after its initial conception at ETSI, remains MTS's biggest success story. It is still a living language with a large worldwide user base far beyond the telecoms domain;
- 2) creation of a foundation for standardizing methods for specifying and testing security aspects of standards;
- 3) development of standardized terminology and technologies in model-based testing – here most attention at this point is focused on a new language for test description called TDL, which MTS expects to have a major impact on test specification in the standardization world;
- 4) continuous work on standards validation.

In addition, over ten years ago TC MTS started a series of industrial ETSI user conferences to engage with testing experts and practitioners outside standardization in a dialogue on MTS topics. After more than ten years of very successful TTCN-3 user conferences, in 2013 MTS launched a new event with an extended scope called the ETSI User Conference on Advanced Automated Testing (UCAAT: <http://ucaat.etsi.org/2013/index.html>). This first UCAAT event will be held on 22-24 October 2013 in Paris with the theme 'Model-Based Testing in the testing eco-system'. We warmly invite you to meet us in Paris, or in one of our upcoming TC MTS plenary meetings.

**Stephan Schulz, Chairman TC MTS**



## Cloud Interoperability Week

Join ETSI and our partners DMTF, OASIS, Open Grid Forum, Ocean, OW2 and SNIA at the Cloud Interoperability Week in September 2013. With a combination of workshop, tutorials and a Cloud Plugfest, the event will provide an insight into the current state of Cloud standards implementations and use cases.

Two locations are available: 16-18 September 2013 in Santa Clara, California, and 18-20 September 2013 in Madrid, Spain.

[www.cloudplugfest.org/cloud-interoperability-week](http://www.cloudplugfest.org/cloud-interoperability-week)

# ETSI publishes first specification for Ultra Low Energy DECT – and expects to lead the field in the M2M market

ETSI has published the first Technical Specification (TS 102 939-1) on DECT ULE (Ultra Low Energy), a low power consumption radio technology intended for home automation and other Machine-to-Machine (M2M) applications.

DECT ULE is based on the very popular and highly successful Digital Enhanced Cordless Telecommunications (DECT™) standard, which was developed by ETSI. The main characteristics of DECT ULE are ultra low power consumption, good Quality of Service (a unique feature of ULE compared with other low power wireless standards) and wider coverage than competing technologies.

ULE positions DECT in new and rapidly growing market segments of M2M communications, including energy and utilities (for home automation and smart metering), assisted living and telecare (for example when used with monitoring devices) and safety and security (such as voice entry phones and smoke sensors). The DECT ULE specification is a multi-part specification; the first phase of development has focused on the Home Automation Network (HAN) but ongoing work will extend its application to industrial automation too.

DECT ULE is an ideal radio communications technology to support M2M in the home. DECT is already available in many homes. New ULE devices will be fully compatible with existing DECT systems and will use the existing DECT spectrum. In addition, a single device can combine ULE and DECT/DECT New Generation functionalities. So, by upgrading the base station, existing devices can still be used and other devices added to provide new services and applications to the customer, all controlled from the DECT base station.

DECT ULE harnesses all the advantages of traditional DECT. These include the key factor of instantaneous dynamic channel selection combined with seamless handover. The quality of a link is permanently monitored and, if necessary, the transmission is switched to a better channel without interrupting the media stream. DECT devices have always been very power efficient but, with the arrival of ULE, the stand-by-time can be increased to up to ten years. These factors make DECT ULE technology an excellent choice for the sensors, alarms and monitoring devices used in various types of home automation.

In addition, DECT is traditionally subject to less interference than other communications technologies, due to its exclusive spectrum range in Europe and more than 40 countries outside the CEPT area. DECT is also well known for its high quality and long range.

## New ETSI NSO Member from Albania

At the 61st General Assembly in March 2013, ETSI gained a new member and National Standards Organization, from Albania.



Mr. Bashkim Muca of the Albanian General Directorate of Standardization (l) signs the NSO agreement with Mr. Luis Jorge Romero, ETSI Director General (r) at the 61st ETSI General Assembly.

Dr Guenter Kleindl, Chairman of ETSI's DECT Technical Committee (TC DECT) which is developing the DECT ULE standards, commented:

“DECT ULE is an exciting new application of DECT for a completely different market. It addresses many application scenarios, particularly in the M2M area, which no existing technology can support – other contenders suffer from a variety of drawbacks including high power consumption, spectrum access limitations, short range or a lack of standardization.

“The low power consumption of ULE technology extends battery life (typically up to ten years) and, with New Generation DECT, connectivity to the Internet is already available, which makes DECT ULE ideal for sensors, alarms, M2M applications and industrial automation. The technology may also be applied to utility meters and related devices, which has implications for the operation of smart grids too. All these innovative new applications will benefit enormously from the properties inherent in DECT ULE. As a result, we expect DECT ULE to make a significant impact on the M2M market.”

The DECT base standard (EN 300 175 series) has also been updated to include the necessary new protocol elements and procedures for DECT ULE, and the revised version is expected to be published early in 2014.

**“DECT ULE is ideal for sensors, alarms, M2M applications, industrial automation and smart utility meters. We expect DECT ULE to make a significant impact on the M2M market.”**

## About DECT

Launched early in the 90s, ETSI's DECT specification is the leading standard worldwide for digital cordless telecommunications for both cordless voice and broadband home communication. Over 820 million DECT/DECT New Generation devices have been purchased throughout the world, and every year more than 100 million new devices are sold. DECT is a member of the IMT 2000 family. The system has been adopted in over 110 countries and DECT products now account for more than 80% of the world cordless market. For many years the leading cordless system in Europe, DECT is also now number 1 in the USA, and DECT products are being sold in Japan. During 2012 a proposal to allow license exempt operation of DECT in India was agreed and the legislative change is expected to become effective in 2013. This will open up a further huge market for DECT products.

DECT is a continuously evolving technology, and new versions of the core technology (DECT New Generation, also known as CAT-iq) are already widely implemented. DECT New Generation has added features such as High Definition (HD) voice, Voice over Internet Protocol (VoIP) etc, and other features are currently being developed.

# European Standards Organizations present the latest results of their work to develop standards for Smart Grids



On the occasion of the European Conference on Smart Grid Standardization Achievements, which took place in Brussels on 28 January 2013, the European

Standards Organizations – CEN, CENELEC and ETSI – presented the latest results of their joint work to prepare and develop the standards that are needed to accelerate the deployment of the next generation of electricity networks, known as 'Smart Grids'.

The European Conference on Smart Grid Standardization Achievements was organized by the European Commission (DG ENERGY) in Brussels on 28 January, in partnership with the three European Standards Organizations (ESOs) – CEN (European Committee for Standardization), CENELEC (European Committee for Electrotechnical Standardization) and ETSI (European Telecommunications Standards Institute).

The Conference was opened by Günther Oettinger, the EU Commissioner responsible for Energy, who spoke about the importance of standardization for developing the new generation of electricity networks, known as 'Smart Grids'. He welcomed the fact that the responsible authorities as well as the competent standards organizations in Europe are cooperating closely with their counterparts in other parts of the world, including North America.

The main purpose of the conference was to disseminate and discuss the results of the work carried out by CEN, CENELEC and ETSI in response to requests issued by the European Commission to develop standards for Smart Grids (under EC mandate M/490) and Smart Metering (M/441), as well as the charging of electric vehicles (M/468).

Speaking on behalf of the three ESOs, Tore Trondvold, CENELEC President, reminded the Conference that "standards help to promote innovative products and services by building confidence among industrial users and consumers and creating large-scale markets".

The chairpersons of the CEN-CENELEC-ETSI Smart Grid Coordination Group (Ralph Sporer), CEN-CENELEC-ETSI Smart Meters Coordination Group (Daniel Hec) and CEN-CENELEC eMobility Coordination Group (David Dossett) presented the accomplishments of their respective groups. They underlined the fact that standards supporting current industry applications are in many cases either already available or being developed on the basis of best practices and 'state-of-the-art' technologies. These standards play a crucial role in the successful integration of innovative technologies in complex systems such as Smart Grids.

Addressing the closing session, Luis Jorge Romero, Director General of ETSI, said that the successful work done by the three ESOs shows how much can be achieved when different companies and other

stakeholders work together. A great diversity of interested parties have joined forces to agree common standards and avoid market fragmentation.

## The CEN-CENELEC-ETSI Smart Grid Coordination Group

The three European Standards Organizations (ESOs) have been tasked by the European Commission (under standardization mandate M/490 – published on 1 March 2011) to deliver (a) a technical reference architecture and (b) a set of consistent standards to support the exchange of information and the integration of all operators within the system, as well as (c) sustainable standardization processes and collaborative tools to enable stakeholder interaction. Furthermore, the ESOs have also been asked to investigate standards for information security and data privacy encompassing harmonized high level requirements.

The European Commission's policy in this area is set out in the communication 'Smart Grids: from innovation to deployment' (published in April 2011). According to the Commission, smart electricity grids should reduce CO<sub>2</sub> emissions by 9% and household energy consumption by 10%. They will also facilitate the expansion of renewable energy including de-centralized micro-generation of electricity using solar panels (photovoltaic) and wind turbines. Smart grids therefore have a crucial role to play in enabling the EU to reach the targets of its integrated energy and climate change policy (adopted in December 2008).

The ESOs have set up a Smart Grid Coordination Group (SG-CG) with four working groups focusing on the main elements of the mandate. In 2012, the SG-CG produced reports on: Reference Architecture; a First Set of Consistent Standards; Sustainable Processes; and Information security and data privacy. The group has also produced a Framework Document, which provides an overview of the activities and describes how the different elements fit together to provide a consistent framework for Smart Grids.

All of these reports are available on the Smart Grids page of the CEN-CENELEC website:

<http://www.cencenelec.eu/standards/sectors/SmartGrids/Pages/default.aspx>

The work on Smart Grids (under mandate M/490) is being coordinated with other standardization work that is currently underway in relation to Smart Meters and electric vehicles (under mandates M/441 and M/468 respectively) so as to ensure a coherent framework. The SG-CG is also collaborating with several international and regional standards organizations, with the aim of working towards common international standards for smart grids.

## ETSI is endorsing the 4th Fokus Fuseco Forum, taking place on 28-29 November 2013 in Berlin, Germany.



<http://www.fuseco-forum.org/>

# Key players agree to maintain and develop their efforts to encourage SME participation in standardization activities

High-level representatives of the European Standardization Organizations (CEN, CENELEC and ETSI), the European Commission, business and industry organizations, and other key stakeholders of the European Standardization System took part in the European Conference on SMEs and Standardization, which was held in Brussels on 28 May 2013. The general consensus was that further efforts are needed to provide small and medium-sized enterprises (SMEs) with accurate and up-to-date information about different kinds of standards, as well as to encourage and support SMEs' involvement in development and drafting European and international standards.

The European Conference on SMEs and Standardization was organized by the European Standardization Organizations (CEN, CENELEC and ETSI) in the framework of the SMEST2 (SME Standardization Toolkit) project supported by the European Commission and EFTA, and in partnership with ORGALIME (the European Engineering Industries Association). The 200 participants included representatives of national standards organizations, public authorities, business and industry organizations, and SMEs.

The conference programme included sessions addressing several inter-related issues such as: how to communicate and raise awareness about the benefits of standards and standardization; how to provide SMEs with information about standards that are relevant for their business; how to ensure that standards take SMEs' specific needs and concerns into account during the development of European and international standards; and how SMEs can be encouraged and enabled to get actively involved in standardization activities at all levels.

Addressing the conference in Brussels, Dirk Weiler, Chairman of the CEN-CENELEC-ETSI Joint Presidents Group, and Chairman of the ETSI General Assembly, underlined the economic importance of SMEs: "For Europe as a whole they are the motor of employment, growth and innovation, and their involvement in standardization has been shown to be one of the drivers for these." Mr Weiler noted that the three European Standardization Organizations have introduced a range of measures during recent years with the aim of helping SMEs discover and participate in the world of standardization.

The European Commission was represented by Daniel Calleja Crespo, Director General of DG Enterprise and Industry and Special Envoy for SMEs, who noted that SMEs are the backbone of Europe's economy, accounting for 85% of all the new jobs created and 60% of all the value added. Speaking on behalf of the European Commission, Mr Calleja said: "We are very keen to continue our excellent cooperation with the European Standardization Organizations, with the stakeholders, with the SMEs, with all interested parties. Because we share the same objective: to deliver a stronger European standardization system, a system that will put Europe in a better position to create jobs, to deliver

growth, to eliminate barriers, to increase the competitiveness of our companies and to allow us all to face the challenges of the future."

Elena Santiago Cid, Director General of CEN and CENELEC, emphasized the central role of the national standards organizations (i.e. the members of CEN and CENELEC) in terms of providing SMEs with information about standards and encouraging and enabling SMEs to get actively involved in standardization activities. She said that the development of high-quality standards depends on having access to the best available expertise, and in many sectors experts from SMEs are already participating in their national standards organizations and making very valuable contributions to the development of new standards.

The perspective of national governments was represented by John Perry, Minister of State for Small Business in the Republic of Ireland, which held the Presidency of the Council of the European Union during the first half of 2013. The Minister of State told the conference: "Standards are vital in the current economic climate, and implementing them in business enables companies to improve their efficiency and competitiveness, minimize waste and reduce costs. European standardization is essential to Europe's global competitiveness, growth and innovation, as well as inspiring consumer confidence."

Under the new EU Regulation on European Standardization (which entered into force at the start of 2013), the European Commission will provide financial support for a European organization representing the interests of SMEs in the European Standardization System (taking over the role previously played by NORMAPME). Following a call for proposals, the Commission is due to announce the result of its selection process in the coming weeks.

During the conference in Brussels on 28 May, participants identified a number of other points as being especially relevant in terms of the next steps. These include:

- the need to continue to develop initiatives that are designed to raise awareness about the benefits of standards and standardization, especially among SMEs, by means of information, education and training activities (notably at national level);
- the important role to be played by business associations and especially sector-specific industry organizations in helping to ensure that relevant knowledge and expertise from SMEs can be fed into the development of European and international standards;
- the need to continue and reinforce ongoing efforts to ensure that new standards are written in a way that takes SMEs' needs into account (for example, by providing training to those responsible for drafting standards, based on CEN-CENELEC Guide 17);
- the need to continue expanding and increasing the use of new technologies (such as online consultations, e-commenting and web-conferencing) in order to make it easier for SMEs and other stakeholders to participate in standardization activities.

## A second ETSI Workshop on Environmental Impact Assessment and Energy Efficiency

will take place on 7-8 October 2013, in Athens, Greece, hosted by the Greek Research & Technology Network (GRNET) and supported by the ECONET project.

Please visit the ETSI website to register or view the agenda: <http://www.etsi.org/news-events/events/668-2013-eeworkshop>

## Meet ETSI at the 'World Smart Week': 24-26 September 2013 at the Acropolis, Nice.

Attend the keynote speech by the ETSI Director General, Luis Jorge Romero, at the joint opening plenary of the Chip-to-Cloud Security Forum and the World eID Congress, 25 September.

Visit the ETSI stand at booth #33 at the joint exhibition with the NFC World Congress.

([www.worldsmartweek.com](http://www.worldsmartweek.com))

# ETSI EVENTS CALENDAR

## What's on?



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## 2013

|                     |   |                      |
|---------------------|---|----------------------|
| 9-13 September      | eCall Interoperability Plugtests Event  | Essen, DE            |
| 12-17 September     | IBC 2013  | Amsterdam, NL        |
| 16-20 September     | Cloud Interoperability Week   | Madrid, ES           |
| 24-26 September     | IEEE-SIIT 2013  | Sophia Antipolis, FR |
| 24-26 September     | World Smart Week/NFC World Congress/Chip to Cloud Security Forum                | Nice, FR             |
| 26-27 September     | ETSI Quantum-Safe-Crypto Workshop   | Sophia Antipolis, FR |
| 30 Sept – 2 October | SDN & NFV 2013 – Software Defined Networking & Virtualisation Summit            | Prague, CZ           |
| 7-8 October         | ETSI Workshop on Environmental Impact Assessment and Energy Efficiency          | Athens, GR           |
| 15-18 October       | 2nd SDN & OpenFlow World Congress   | Bad Homburg, DE      |
| 22-24 October       | UCAAT - ETSI User Conference on Advanced Automated Testing                      | Paris, FR            |
| 5-7 November        | ETSI M2M Workshop 2013  | Mandelieu, FR        |
| 6-8 November        | ICT 2013  | Vilnius, LT          |
| 25-29 November      | ITS Cooperative Mobility Services Plugtests Event                               | Essen, DE            |
| 28-29 November      | FOKUS FUSECO Forum 2013   | Berlin, DE           |
| 3 December          | ETSI ESI Workshop on Rationalized Framework for electronic signatures standards | Sophia Antipolis, FR |

## 2014

|                |                            |                      |
|----------------|----------------------------|----------------------|
| 15-16 January  | 9th ETSI Security Workshop | Sophia Antipolis, FR |
| 12-13 February | 6th ETSI TC ITS Workshop   | Berlin, DE           |
| 24-27 February | Mobile World Congress 2014 | Barcelona, ES        |

Please visit the events section of our website for further details

### ETSI hosts IEEE-SIIT 2013: 24-26 September

The 8th International Conference on Standardization and Innovation in Information Technology (IEEE-SIIT 2013) will take place 24-26 September 2013 at ETSI. Bringing together practitioners from around the world to share insights and views on all issues surrounding ICT standards and standardization, IEEE-SIIT 2013 is targeted at researchers, policy makers, standard organizations, standards developers, and standards users in industry and academia.

Discounted rates apply for ETSI members.

Visit <http://iee-siit.org/> for full details.

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**About ETSI** ETSI produces globally-applicable standards for Information and Communication Technologies (ICT), including fixed, mobile, radio, converged, aeronautical, broadcast and internet technologies and is officially recognized by the European Union as a European Standards Organization. ETSI is an independent, not-for-profit association with more than 700 member companies and organizations, drawn from over 60 countries across 5 continents worldwide, who determine the work programme and participate directly in its work.

**For further information, please visit: [www.etsi.org](http://www.etsi.org)**



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