



World Class Standards

# Standardization & Research in ICT ETSI Round Table

7 April 2009, Nice Acropolis

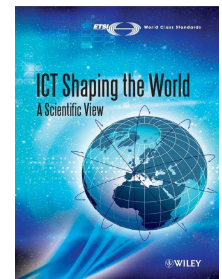


## Press Kit

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Sophia Antipolis, March 25th 2009

**ETSI THEMATIC ROUND TABLE on April 7th 2009 at Nice-Acropolis:  
« Standardization & Research ICT: new challenges of a rapidly changing market »**

To mark its 20th anniversary, ETSI (European Telecommunications Standards Institute) founded in 1988 in Sophia Antipolis, has produced a book entitled « ICT Shaping the world » in which some thirty world famous researchers describe their view of the future in ICT. The result is a prospective vision of tomorrow's technological and industrial world, offering an opportunity to highlight the close link between R&D and standardization.

« Without research, ICT standardization would not be possible, and without standardization, many potential benefits and opportunities derived from that research would remain unrealised or unavailable to customers around the world, » says **Walter Weigel, Director General, ETSI**, endorsing the book on its back cover.

**This is why ETSI has established itself as a key interface for the different actors in the telecom industry, allowing them to gain market shares thanks to standards set for their innovative products and services.**

But today we are facing new economic stakes driven by financial fluctuations, increased competitiveness and shorter innovation cycles. And the current worldwide crisis is only intensifying matters, impacting standards organizations just as other industrial actors.

So what is the outlook for the next 10 years?

**Will the world of standardization have to become multidisciplinary, with a segmented approach to markets? Will unique, single standards, endorsed by all, be the way to ensure the best interoperability among emerging technologies? What of the new balance to be found between industrial policies and free enterprise and where will standards fit in?**

ETSI invites you to join in this high level debate animated by 6 international experts, which takes place on:

**Tuesday 7th April 2009, at 6.30pm; Acropolis, Nice**

« ETSI's capacity to identify key emerging technologies and to establish standards for them at a rapid pace, provides our member organizations with the means to adapt continuously to the global challenges they face, as well as to the sheer size and diversity of new and developing ICT markets, » explains **John Phillips, Chairman of the ETSI General Assembly**

During this one hour exchange, we will take a look at where ICT research is leading us, with input from eminent experts in wireless technology, 3G mobile systems, the Future Internet, robot technology... and how the new digital lifestyle is rapidly overtaking our everyday life.

At the same time, we will hone in on the participants' expertise and experience to assess the status of standardization within today's unique context which includes:

**An increasingly fragmented standards making market** which sees most corporations (or even SMEs) participating in dozens of standards organizations,

**A changing world map** with new centres of production which have their specific needs and agendas,

**An unprecedented worldwide crisis** which has shown the limits of free enterprise and triggered a wave of state enacted policies.

As a result, the "laisser-faire" which has marked standardization in the last decade is being questioned and the generalist outlook is also showing its limits...The debate should lead to a reflection on how an organization such as ETSI can integrate these elements while ensuring that it continues to play its vital role in the innovation process.

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With the support of Team Côte d'Azur



**Jérôme Chailloux is General Manager of the European Economic Interest Grouping (EEIG) at ERCIM and Site Manager of the World Wide Web Consortium (W3C) Europe at Sophia-Antipolis (France).** Prior to that, he worked as a researcher and research director at INRIA, France in the areas of automatic VLSI design, software engineering, and knowledge-based systems. He was the main inventor and developer of the programming language Le-Lisp. He co-founded ILOG in 1987, taking on the roles of Chief Scientific Officer and Director. From 1995 to 2001, he was Chief Information Officer of the genomics company GENSET and led one of the largest European teams of bioinformaticians. - *ETSI board member*-

**Dr Keith Dickerson has worked in the ICT industry for 30 years and is currently Head of Standards as part of BT Design,** working closely with senior management to identify the key technologies for BT and the standards required to support its programmes, such as the 21st Century Network. He directs a team of professional engineers participating in standards in all areas related to ICT. He is in charge of developing strategies for BT's participation in many standards bodies, including ETSI, ITU and TM Forum. He was responsible for hosting the IETF in London in 2001 and is a member of the Internet Society (ISOC). On the ETSI Board since 2002, he is currently ETSI Strategy Manager.

**Pr Dr. Alois Knoll is Professor of Computer Science at the Informatics Department of the Technical University of Munich and chair of the research group "Robotics and Embedded Systems".** His research interests include cognitive, medical and sensor-based robotics, multi-agent systems, data fusion, adaptive systems and multimedia information retrieval. In these areas he has published and co-published over 200 technical papers. He has also participated in several large scale national collaborative research projects backed by EU funding. Professor Knoll is a member of the German Society for Computer Science (Gesellschaft für Informatik (GI)) and the IEEE. He is a member of the IEEE and the German Society of Computer Science (GI).

**Pr Gérard Pogorel is Professor of Economics and Management, Telecom ParisTech-ENST, France.** He has published numerous articles, books, and reports on such topics as Radio Spectrum Management, spectrum regulation, and the interaction of technology dynamics and policy evolutions. He chairs in several European instances and participates in a range of Government-level and regulation Authorities Committees in Europe as well as in Asia. Professor Pogorel has acted as the expert designated by International Communications Regulators in controversies between telecommunication operators. He is presently involved as an expert member (designated by the Italian Regulator) of the Supervisory Board of Open Access Telecom Italia. - *ETSI board member*-

**Pr Ramjee Prasad is Director of the Center for Teleinfrastruktur (CTIF), Aalborg University, Denmark and holds the chair of wireless information and multimedia communications.** His research interests lie in green communications, self-organising networks, cognitive radio, multiple access protocols, adaptive equalizers, telemedicine and emerging technologies. He is the coordinating editor and editor-in-chief of the Springer International Journal on Wireless Personal Communications. He has published over 700 technical papers, and has authored, co-authored, and edited twenty books. His latest book is "Introduction to Ultra Wideband for Wireless Communications". He is a fellow of IEEE, IETE and IET - *ETSI board member* –

**Dr Yang Yang is currently a lecturer with the Communications and Information Systems research group at University College London.** His research interests include the third generation (3G) mobile systems and beyond, dynamic radio resource management (RRM) for integrated services, cross-layer algorithm design and performance evaluation, cognitive radio and networks, medium access control (MAC) protocols, and wireless ad hoc, sensor and mesh networks. His work has been sponsored by the EU/FP7 programme, Engineering and Physical Sciences Research Council (EPSRC), National Natural Science Foundation of China (NSFC), Royal Society, Royal Academy of Engineering, British Telecom, Vodafone, Selex, Toshiba, Airbus and Rolls-Royce.

*EEIG (European Economic Interest Grouping); ERCIM (European Research Consortium for Informatics and Mathematics); ESRIF (European Security Research and Innovation Forum); IEEE (Institute of Electrical and Electronics Engineers); IET (Institution of Engineering and Technology); IETE (Institution of Electronics Telecommunication Engineers); IETF (Internet Engineering Task Force); INRIA (Institut National de Recherche en Informatique et en Automatique); - ITU (Union Internationale des Télécommunications) - W3C (World Wide Web Consortium)*

### **ETSI: 20 YEARS OF SUCCESS IN THE STANDARDIZATION OF INFORMATION & COMMUNICATION TECHNOLOGIES...**

ETSI (**European Telecommunications Standards Institute**), a non-profit organization, was founded in 1988 in Sophia Antipolis, to develop and harmonize standards in the field of telecommunications. Today it employs over one hundred people in its headquarters in the science park and collaborates with nearly 5,000 industry experts.

After the worldwide success of its GSM (Global System for Mobile Communications) standard for the 2nd generation digital technology that now serves 220 countries on almost 1000 networks, ETSI, aware of the international opportunities, created 3GPP (the 3rd Generation Partnership Project) in 1998. The initiative brings together some 1000 experts from 350 companies from around the world to work together to develop and evolve new generations (3G, 3G+) of mobile broadband communications.

In addition, ETSI has expanded its scope to respond to the rapid evolution of information and communication technologies (ICT) in the industrial and related sectors. The Institute operates within many fast-growing markets: digital broadcasting, digital television, telemedicine, remote maintenance for the elderly at home, RFID, M2M, wireless services, interoperability security and encryption of communications networks, e-banking, environment and protection of users.

## **Animator's Biography: Kate Leconte - Journaliste /KL Consultant**

Kate Leconte is a Franco-American, bilingual journalist and communication consultant who has always operated in an international environment, mainly in Sophia Antipolis. She has worked for large and small companies, as well as institutions, in sectors as diverse as high-tech, healthcare, research, education... She has carried out in depth missions in order to restructure organisations and enhance team work, acquiring experience in coaching executives as well as facilitating meetings. Throughout the years, she has hosted a range of events and conferences in both French and in English. She is the editor of the weekly economic newsletter published by Team Côte d'Azur.

## **ETSI: 20 years of success in the standardization of information & Communication technologies...**

Technical standards affect just about everyone's lives every day, but few of us are aware of them. Created to ensure safety and interoperability (among other things), they make it possible for us to travel, to communicate, and to manage our daily lives. Standards give users an assurance that "things" works as they should, provide manufacturers and suppliers a strong basis for market exploitation, and give governments and regulators an effective means of implementing technological legislation.

Within the domain of Information and Communication Technologies (ICT), technical standards are particularly important. They enable us, for example, to use our mobile phones anywhere in the world, to access emergency services, to use the Internet, and to enjoy our favourite television programmes.

Leading much of the ICT standards work is the Sophia Antipolis based European Telecommunications Standards Institute, ETSI. As its name implies, ETSI was created to produce standards for telecommunications within Europe, with the aim of eliminating many of the former limitations and inefficiencies that telecoms users suffered in the past, and of opening up new market opportunities. These goals were quickly achieved, and ETSI soon moved on to adopt a global focus and much wider scope than originally envisaged.

ETSI is an independent, non-profit, industry association and its membership is made up of companies and government organisations representing a vast geographical and industrial diversity. From just 126 members at its inception, ETSI's membership now stands at over 760 member companies and organisations, from 63 countries across 5 continents.

ETSI is officially recognised by the European Union as a European Standards Organisation. The European Commission has placed standards very high in its strategies for the revitalisation of the European market and the stimulation of opportunities for European industry in the global market. ETSI's standards help ensure the free movement of goods within the single European market and allow enterprises in the EU to be more competitive. The high quality of ETSI's work and its open approach to standardisation has helped it evolve from European roots to extend global branches.

This global growth owes much to a decision of ETSI early in its life to engage in active co-operation with other regional and international standards organisations around the world. This coincided with work in ETSI at the time to specify the GSM™ mobile technology and is one of the reasons why GSM – intended initially as a solution for Europe – has become such a huge success worldwide, with more than 3 billion subscribers. The success of this co-operation led to the creation of a global collaborative project known as the 3<sup>rd</sup> Generation Partnership project, or 3GPP, which has been developing standards for advanced mobile communication systems, so-called 3<sup>rd</sup> Generation and beyond. ETSI was a founder member of 3GPP, and is also engaged in another global project – Project MESA – which is specifying the use of communication technologies for emergency and disaster relief applications.

Two decades on, our work has enabled some of the most important ICT solutions available today. Apart from helping to shape the world we live in with GSM and international roaming, now evolving into 3rd Generation (3G) technologies and beyond, ETSI has also played a major part in bringing the world DECT™ cordless telecommunications, the Subscriber Identity Module (the SIM card), TETRA radio systems for civil protection agencies and commercial clients, euro-ISDN, xDSL, Lawful Interception, electronic signatures, Digital Video Broadcasting (DVB) and much more.

To this list of past achievements we can add a raft of more recent successes: Next Generation Networks (which will facilitate many innovative services), major developments in Smart Cards, GSM onboard aircraft, further evolutions of advanced mobile communication technologies, Digital Mobile Radio, New Generation DECT, GSM for Railways, medical implants, user accessibility...

And the list goes on! New areas now being addressed by ETSI include: quantum cryptography, machine to machine communication, reconfigurable radio systems, Internet Protocol television, air traffic management and intelligent transport systems.

By its very nature, participation in standards-making means sharing ideas with others, including competitors, and thus has implications for members' Intellectual Property Rights (IPR). ETSI has developed an effective IPR Policy that recognises both the rights of innovators and the needs of implementers of standardised technologies, all the while respecting European and international IPR legislation. ETSI's IPR Policy has been so successful that it has been adopted by other standardisation bodies.

Many opportunities and challenges face ETSI for the future. ETSI's Director-General, Dr Walter Weigel, remarks, "The convergence of traditional Information and Communication Technologies with those from other industrial sectors, such as entertainment, medicine, automotives and aeronautics, is bringing new players into the standards-making business, and they often have alternative agendas and different ways of doing things. ETSI is adapting to be relevant to these newcomers, whilst maintaining all that has made the Institute such an effective and respected body over the past 21 years. The market demands that standardisation keep pace with the latest technological developments so we are also very successfully strengthening our relationships with R&D and academic institutions. In this way, we will be able to input to emerging applications at the earliest opportunity."

Remarking on ETSI's global role, Dr Weigel added, "Although ETSI is primarily a European Standards Organisation (ESO), many of our standards have found enormous success on the world stage. Indeed, many of our members are based outside of Europe. As our networked world becomes ever more interconnected, standards are required that provide for interoperability at the global, rather than the regional, level. Our members' businesses are becoming increasingly international with the globalisation of markets. Consequently, standards are required that can be applied and implemented worldwide and, recognising the special needs of developing markets, we are reaching out to the Far East, Latin America and India."

Dr Weigel is also proud of the fact that ETSI is emerging as the leading Standards Development Organisation for standardisation support services. "We have developed a special focus on interoperability, which is the main issue in complex technical standards today," he said. "We are enhancing our services to our members and other customers. These services offer complete 'Idea-to-Product' solutions for growing ideas and enabling technology, from market requirements to placing products and services onto the market."

Dr Weigel's ambition is for ETSI to be recognised as "The World's leading ICT standards body". Much has already been achieved in the past 21 years: the challenge now is remain relevant and adaptable to future needs and opportunities, and to ensure that industry and users alike continue to benefit from all that standardised solutions can offer.

## "ICT SHAPING the World", 20 years in the service of Research and Innovation....

To make its 20 years presence at heart of the European technology of Sophia Antipolis, the Directorate of ETSI published in early 2009, in collaboration with John Wiley & Sons Ltd, a book intended for its worldwide members and partners, paying-tribute to the work of its scientific community in all areas of telecommunications.

30 internationally renowned scientists provide us with their vision of the next 20 years around 5 major topics in 16 chapters, covering:

- **Future Internet** (Internet research in Europe, identification, security, new IP protocol, Next Generation Networks, converged services et interoperability of systems...)
- **Ambient Intelligence and communicating objects** (Architecture, equipments and interactions, e-trade and intellectual property, scenarios of the future...)
- **Radio and spectrum management** (Digital broadcasting, mobile telephony, technical performances and returns on investment, geographically distributed radio networks, constraints and political stakes ...)
- **Behavioural changes and the security of transactions in cyberspace** (Influence of new technologies on individual behaviour within the private sphere, identification, security problems, vulnerability within cyberspace with the explosion of the internet community model, introduction of a new global urban vision in search of sense, of respect, of interactive ambient comfort ...)
- **Future and emerging technologies** (Quantum cryptography to secure networks, Digital Home lifestyle...)

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## ETSI in a few figures:

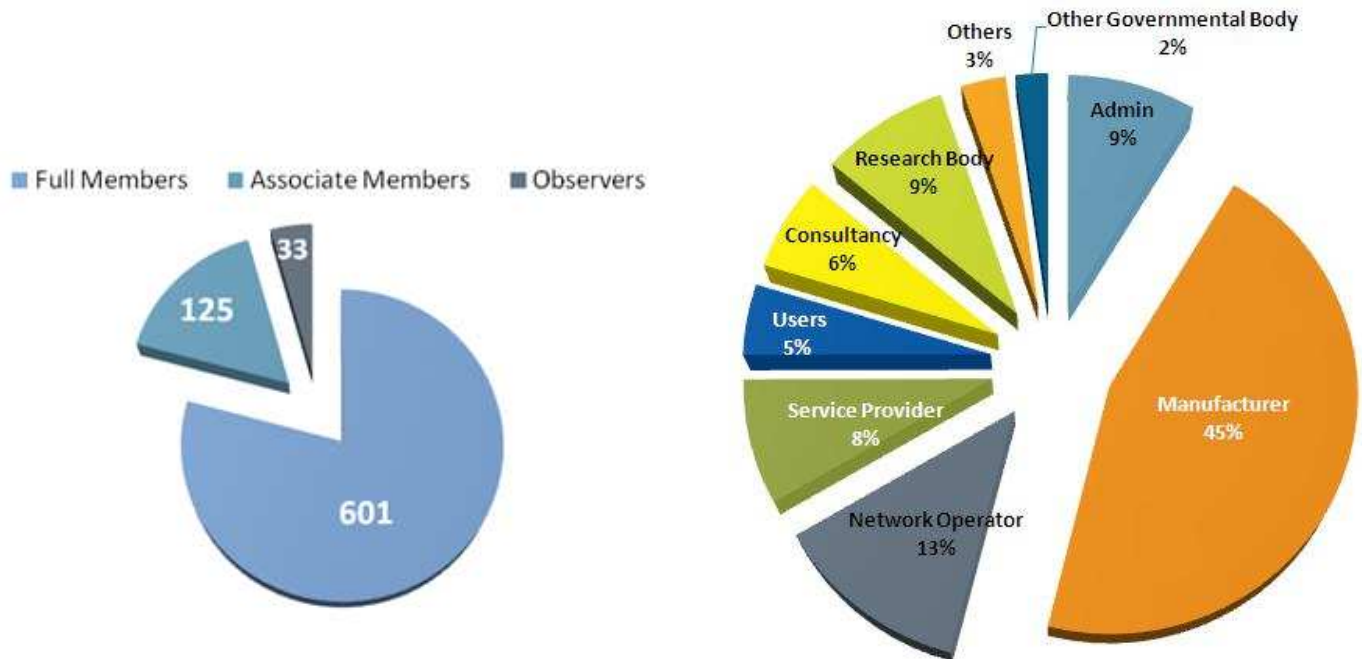
**ETSI Full Members, Associate Members and Observers:** 724 drawn from 62 countries and five continents.

In 2008 ETSI extended participation in membership to **145 Small and Medium-sized Enterprises (SMEs), 46 micro-enterprises, 47 universities and public research bodies.**

**ETSI full members by category:** manufacturers, Network operators, administrators, research body, service provider, consultancy, users, others and other governmental body.

**1 463 standards and reports published in 2008.**

**From 1988- 2008: ETSI had published a total of over 21 000 standards, specifications, reports and guides.**



## ETSI World Class Standards

- Air Traffic Management
- Broadband Wireless Access
- Broadcast
- DECT™
- Digital Mobile Radio
- eHealth
- Electromagnetic Compatibility
- Emergency
- Environmental Aspects
- Fixed-line Access
- Grid
- Human Factors
- IMS Network Testing
- Intelligent Transport
- Interoperability
- Machine-to-Machine Communications
- Maritime Communications
- Media Content Distribution
- Medical
- Mobile
- Next Generation Networks
- Open Service Access
- OSS
- Powerline
- Protocol Specification
- Quality of Service
- Quantum Key Distribution
- Radio
- Reconfigurable Radio Systems
- Regulation & Legislation
- Safety
- Satellite
- Security
- Smart Cards
- Testing
- Terrestrial Trunked Radio (TETRA)



# Innovation, Research and New Initiatives

## 1. Innovation

In 2008, four new Technical Committees have been created to deal with new topics:

- IMS Network Testing,
- Reconfigurable Radio Systems,
- Machine-to-Machine Communications
- Digital Media Content Distribution.

### IMS Network Testing

The Internet Protocol Multimedia Subsystem (IMS) comprises a set of specifications designed to enable network operators to implement IP-based networks that carry services for both fixed and mobile customers. ETSI has set up a Technical Committee to deal with IMS network testing specifications and interoperability issues. The IMS Network Testing Technical Committee (TC INT) held its first meeting in May 2008.

### Reconfigurable Radio Systems

ETSI launched its new Reconfigurable Radio Systems Technical Committee (TC RRS) in 2008 to examine the possible standardization of RRS: intelligent radio devices which offer significant potential for maximizing the use of scarce and expensive spectrum by sensing – and acting upon – their environment. The committee held its first meeting in March 2008, attracting over 50 manufacturers, operators, regulators and other interested parties. The first ETSI Technical Report, a reference architecture for SDR mobile devices, was scheduled for approval in February 2009.

### Machine-to-Machine Communications (M2M)

Following a six-month strategic review of the demand for M2M standardization by the ETSI Board, a new Machine-to-Machine Technical Committee (TC M2M) has been set up to develop standards in this fast-growing field. The applications of M2M are diverse; they include, for example, personal health monitoring, intelligent tracking and tracing in the supply chain, smart utility metering, remote control of vending machines, industrial wireless automation and ambient assisted living. It is predicted that, by 2010, some 2 billion machines will be connected. The cellular M2M segment in particular is forecast to produce record growth. The Institute will provide the architecture-level standards required and also the test specifications essential to demonstrate end-to-end interoperability.

### Digital Media Content Distribution

'Content delivery' is the delivery of digital media 'content' such as digital audio, digital video or computer software and games over a delivery medium such as broadcasting or the Internet. The Committee will then co-ordinate standardization activities to realize this MCD framework vision and foster the co-ordinated development of standards for digital media distribution across unicast, multicast and broadcast networks. TC MCD will also identify regulatory issues produced by convergence effects.

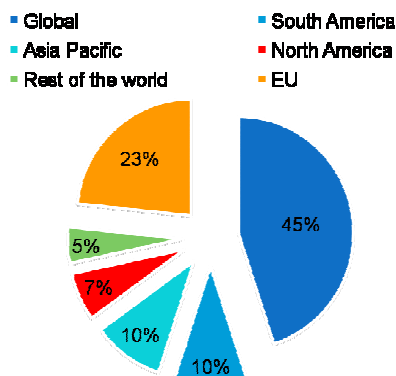
## 2. Research

In July 2008, ETSI established a Quantum Key Distribution (QKD) Industry Specification Group (ISG-QKD) in communication security. Initially eight work items are being addressed.

In December 2008, 3GPP™ Release 8, which includes the specifications for LTE, the latest evolution of the 3G mobile system, was frozen.

The Third Generation Partnership Project (3GPP™) held a Program Co-ordination Group/ Organisational Partner (PCG/OP) meeting in another emerging market in 2008 – this time in Moscow, Russia. The meeting and the associated workshop attracted huge interest and have laid a solid basis for future activities in this fast growing country.

Partnerships by region in 2008



### **3. New Initiatives**

#### **Intelligent Transport Systems**

ITS service provision, especially the more advanced services, relies on communications – both wireless communications with and between vehicles and backbone system telecommunications. This makes ITS an area of strategic relevance to ETSI and one where ETSI leadership is required, particularly in relation to the European requirements for the provision of ITS services.

ETSI is addressing vehicle-to-vehicle and vehicle-to-roadside communication for ITS for safety and road traffic efficiency using 5,9 GHz ITS radio. Major progress was achieved within the regulatory environment with the European Commission's decision to designate a 30 MHz bandwidth in the 5,9 GHz frequency band for ITS road safety applications. An additional 20 MHz band has been identified for the future and a frequency band of 20 MHz has also been identified for non-safety ITS applications which will be important for commercial services in support of safety-related services. ETSI's standardization work for co-operative ITS is now based on this regulation.

#### **Satellite Communications**

In 2008, ETSI was at the centre of work on important new standards for worldwide applications using satellite for mobile and fixed communications. Work has now started on a new set of GMR-1 Release 3 specifications (GMR-1 3G) and is proceeding well with the preparation of specifications for the 'Family SL' satellite radio interface.

#### **Next Generation Networks**

The market needs to avoid proprietary NGN solutions, fragmentation and interworking problems and looks to ETSI's Telecommunication and Internet converged Services and Protocols for Advanced Networking Technical Committee (TC TISPAN) for standards-based answers.

#### **Electronic signatures**

In 2008, ETSI completed its work on digital accounting in support of the European Commission's drive to establish cross-border public services in the Single Market. Work on Registered e-Mail (REM), on a new version of the specification on the interoperability framework for XML Advanced Electronic Signature (XAdES), on a profile for a basic variant of advanced electronic signatures in PDF which is compatible with the existing features of PDF signature

#### **Radar Level Gauging**

ETSI has produced a new Technical Report on radar level gauging applications in still pipes, covering the application of Tank Level Probing Radar for use in 'floating roof tanks'. The Technical Specification is expected to be completed in 2009.

#### **Improving Air Traffic Management**

In close collaboration with the European Organisation for Civil Aviation Equipment (EUROCAE), ETSI is working on new 'Community Specifications' intended to ensure an interoperable European Air Traffic Management Network (EATMN). The aim: improving airport operations by ensuring that airport partners (such as airports, airlines and air traffic controllers) all receive relevant and accurate information on time. It is envisaged that a new technical committee will be created in 2009 to address aeronautical matters.

#### **New Generation DECT™**

In 2008, ETSI finalized Part 3 of the New Generation Digital Enhanced Cordless Telecommunication (DECT) specification for the in-home distribution of voice services providing new services for the end-user and new revenues for suppliers and operators...

#### **Railway Telecommunications**

The spread of GSM-R – the new wireless communications platform developed specifically for railways, based on GSM™ –has now reached 60% of the rail lines in Europe, where it covers 140 000 kilometers of track.

At the same time, old committees are advancing in new directions, addressing Internet Protocol Television (IPTV), for example, developing a new generation of Digital Enhanced Cordless Telecommunication (DECT™) and using the smart card platform for Near Field Communication (NFC) applications.

#### **EU R&D Projects**

Helping to close the gap between research and standardization, ETSI is actively involved in a number of European Union (EU) R&D projects under the Seventh Framework Programme (FP7): project Walter (Wireless Alliances for Testing Experiment & Research) which is dedicated to UWB testing, and three projects on RFID: the CuteLOOP project (Customer in the loop), the GRIFS project (Global RFID Interoperability Forum for Standards), and the CASAGRAS project (Co-ordination and Support Action (CSA) for Global RFID-related Activities and Standardization), which brings ETSI together with partners in Europe, Hong Kong, China, Japan, Korea and the USA. Here, ETSI can discuss directly with the researchers how to turn research results into standards.

## Contacts

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