



World Class Standards

Welcome to ETSI

Michael Sharpe
Vice-President

ETSI Standardization Projects

Why produce Standards?

- Encourage market acceptance
- Interoperability allows purchasers to benefit from competition between multiple vendors
- Manufacturers benefit from an increased market
- Development costs shared; risks reduced
- Increased market and reduced risks improves investor confidence
- Allow access to new markets
- Turn good ideas into commercial success



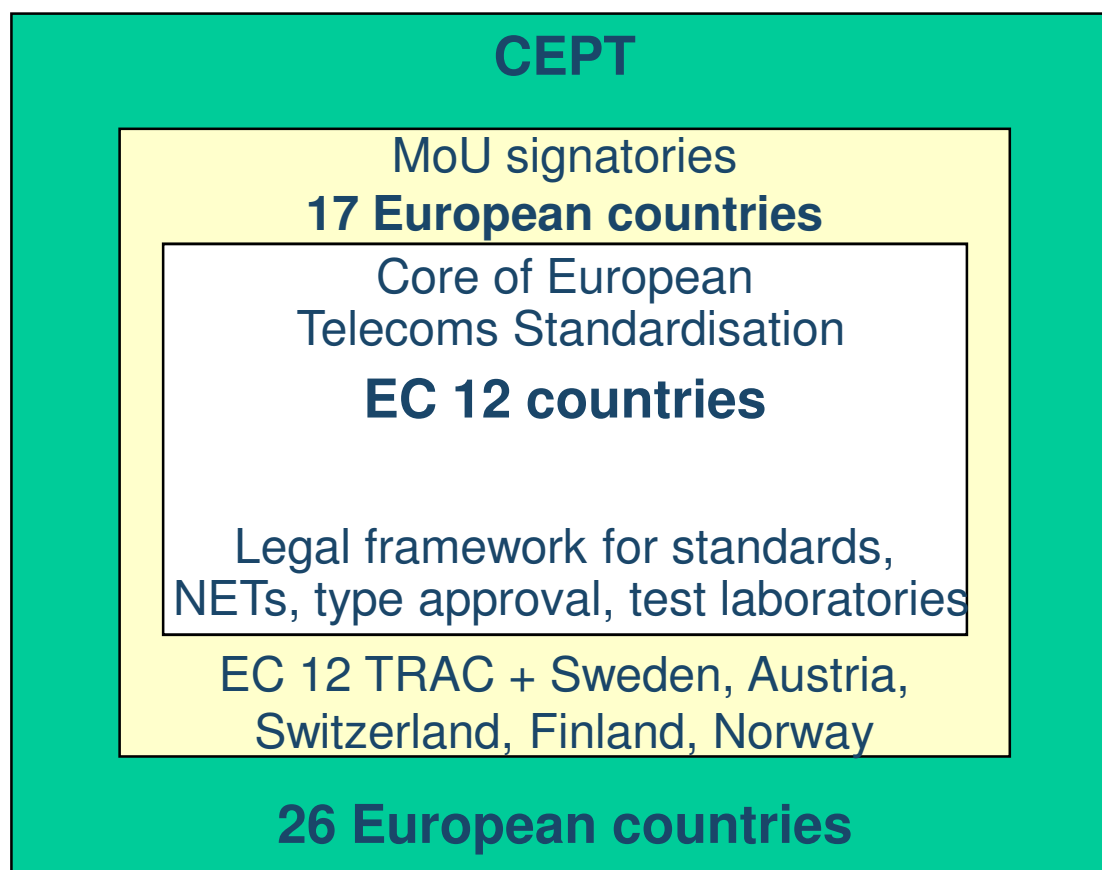
In the days before ETSI...

- ❑ European telecoms standardisation was done by CEPT
- ❑ Participation was by Administrations (Ministries of PTT etc)
- ❑ Administrations usually invited the assistance of their national network operators
 - In most cases, there was only one operator per country
- ❑ Industry and the European Commission had no voice...
- ❑ ...and were NOT HAPPY !



MoU on European telecoms standards - 1986

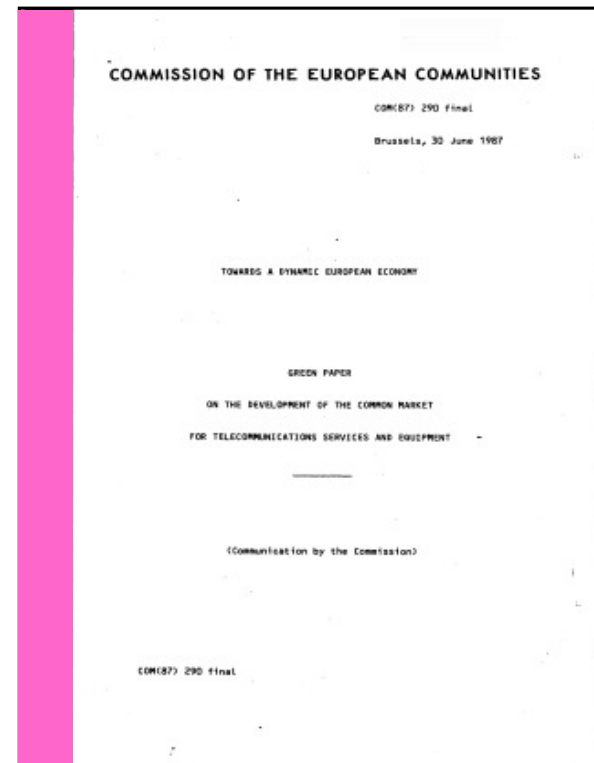
- Directive 86/361/EEC – Mutual recognition of type approval for telecoms terminals



Source: EC 1987

The Commission's response

- ❑ COM(87) 290 final
- ❑ Green Paper on the Development of the Common Market for Telecommunications Services and Equipment - 1987
- ❑ Issues included:
 - Competition for terminals market
 - Opening up services market
 - Opening up satellite market
 - Services *across* national boundaries
 - Separation of regulatory and operational functions in Administrations
 - Rapid development of standards
 - National and European
 - Industrial and User participation
 - Permanent structures
 - *i.e. Creation of ETSI !*

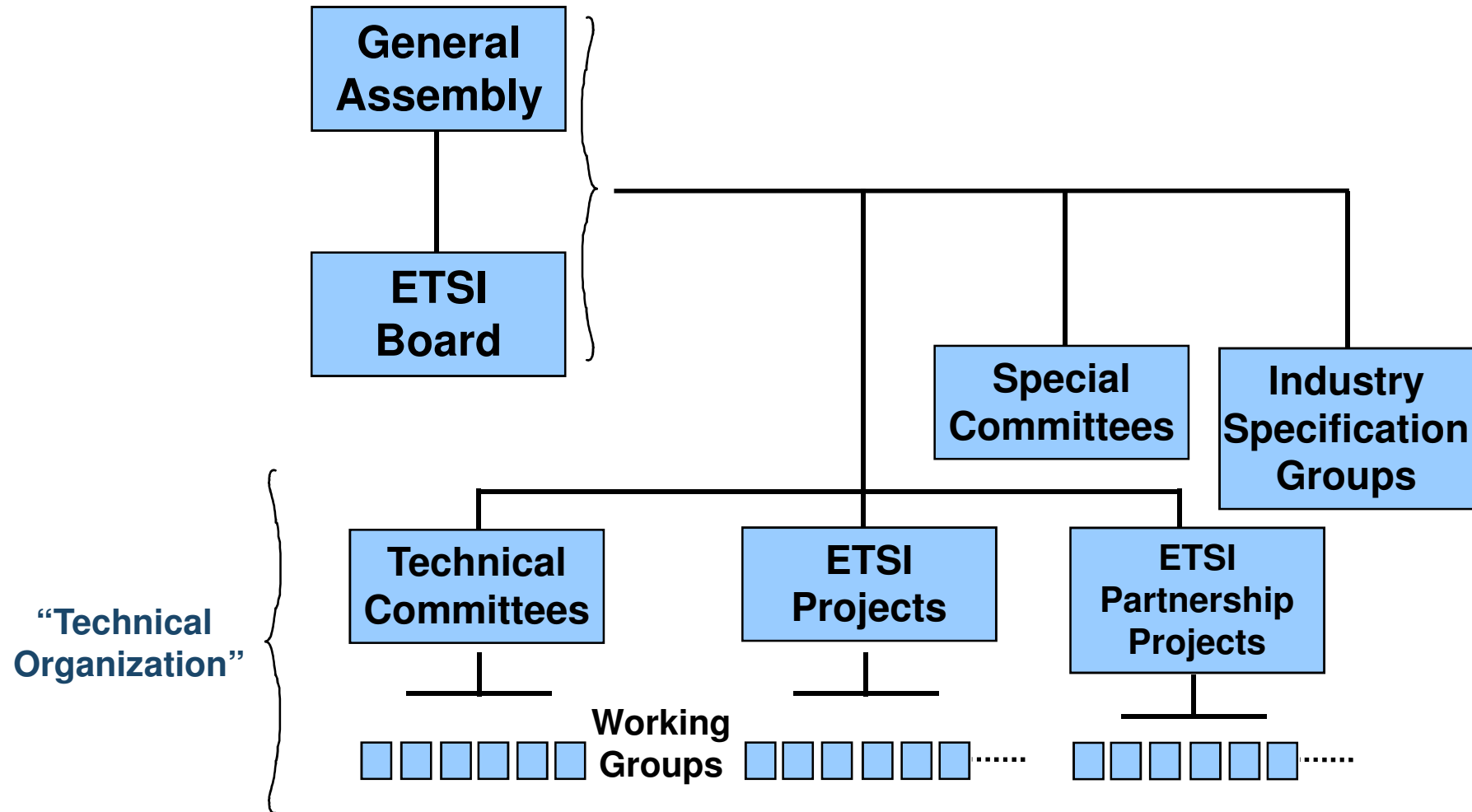




ETSI in 2009

- ❑ **A recognised European standards organization, separate from CEPT and the European Commission**
- ❑ **Active in all areas of Information and Communications Technology (ICT)**
- ❑ **Setting globally-applicable standards for**
 - **telecommunications**
 - **radiocommunications**
 - **broadcasting**
 - **related topics**
- ❑ **Independent, not-for-profit association under French law**
- ❑ **700+ Member organizations from 62 countries and 5 continents***
- ❑ **Offering direct participation**
- ❑ **ISO 9001:2000 certified**
- ❑ **We have nearly 20 000 publications – available free of charge!**

The ETSI structure



The ETSI Secretariat gives support to all the different entities in the Organization



World Class Standards



- ❑ **ESO: European Standards Organization:**
 - standardization for European needs
- ❑ **GSP: Global Standards Producer:**
 - standardization for the global level
- ❑ **SPO: Service Providing Organization:**
 - services such as interoperability testing, forum management etc.



ETSI – a European Standards Organization

- ❑ ETSI was conceived in the late 1980s to respond to particular needs in Europe
 - and in support of European Commission ambitions
- ❑ ETSI continues to produce standards for European industry...
- ❑ ...and we produce standards and other material to support European Union and European Free Trade Association (EFTA) regulation and legislation...
 - ...for which we are officially recognised at EU/EFTA and governmental levels...
- ❑ ...as well as contributing ICT radio frequency requirements to the European co-ordination process in CEPT



ETSI's role in radio spectrum regulations (1)

□ Harmonized Standards

- Set technical requirements for marketing equipment
- Set by consensus of Administrations and Industry, in co-operation with CEPT
- Formally recognised in EU/EFTA
- Conformity with legislation “presumed”
- National standards aligned in CEPT countries

□ System Reference Documents

- Identify spectrum needs for standardized equipment
- Used by CEPT to align spectrum regulations in CEPT countries
- Legal certainty in EU/EFTA ensured by European Commission Decisions

ETSI's role in radio spectrum regulations (2)

- ❑ **Equipment regulation**
 - **ETSI representative in TCAM: Igor Minaev**
- ❑ **Radio Spectrum regulation**
 - **ETSI representative in RSCOM and CEPT/ECC: Marcello Pagnozzi**
- ❑ **Radio Spectrum Policy**
 - **ETSI representative in Radio Spectrum Policy Group: Michael Sharpe**
- ❑ **Ensure the coherence of ETSI deliverables with regulatory processes**
- ❑ **Review process of co-operation with CEPT and EC**
 - **Review use of Harmonized Standards in WAPECS / flexible environments**
 - **Contribute to TCAM, RSCOM and RSPG debates in review of RTTE Directive and ECNS Framework.**

ETSI – a global standards body !

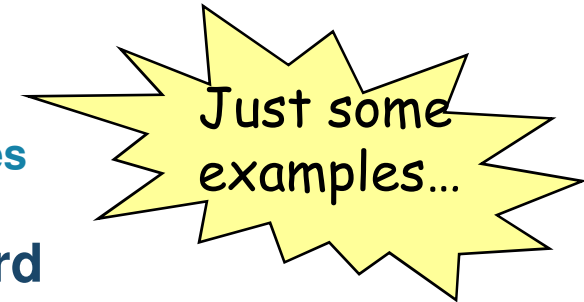
- ❑ ETSI was established as a European body and retains European responsibilities. But...
- ❑ ...many of ETSI's Members are global players...
- ❑ ...so ETSI seeks to have its standards adopted worldwide
- ❑ Over 120 of ETSI's Members (nearly 20% of the total) have no established operations in Europe
- ❑ Many of the other 80% are headquartered outside Europe





ETSI – a global standards body !

- ❑ **GSM - Developed (by ETSI) for Europe**
 - **Now a worldwide success story!**
 - More than 2.2 billion users in over 200 countries
 - 1.3 million new users EVERY DAY!
- ❑ **ETSI's Lawful Interception handover standard**
 - **Being deployed in Europe...**
 - But also in USA and Australia, where the laws are being developed to comply with the ETSI Standard
- ❑ **DECT – Digital Enhanced Cordless Telecommunications**
 - **Originally Digital *European* Cordless Telephone**
 - **Over 200 million terminals in more than 110 countries**
- ❑ **Digital Video Broadcasting (DVB) system specifications**
 - **Based on DVB Project proposals**
 - **Services available on every continent**
- ❑ **TETRA – Terrestrial Trunked Radio**
 - **Some 900 contracts in more than 80 countries**
- ❑ **Radio microphones and cordless audio equipment**
 - **Global agreement on common standards**





World Class Standards

ETSI

...and a founding Partner in



A GLOBAL INITIATIVE

The 3rd Generation Partnership Project

Global Standards Collaboration

Interregional collaboration on selected standardization subjects between

isacc
ccnt
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TIA
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atis
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ETSI
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CCSA
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ARIB
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TTC
Telecommunication
Technology
Committee
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TTA
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ITU
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World Class Standards

ETSI delivers... (normative)

Technical Specification (TS)

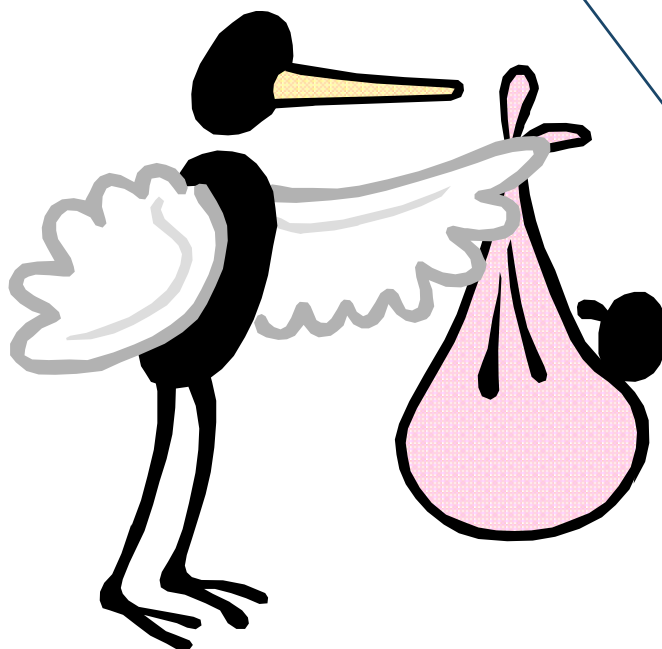
ETSI Standard (ES)

European Standard (EN)

Published when approved by ETSI Technical Body (Fast)

Published after 60-day vote by ETSI members (meets WTO requirements)

Published after (Public Enquiry & Vote) by European National Standards Organisations (meets EU requirements)

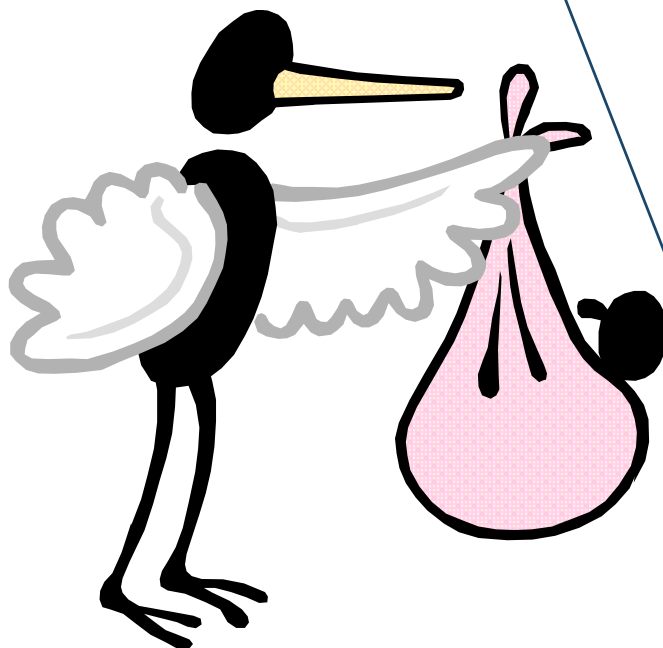


ETSI delivers... (informative)

Technical Report (TR)

ETSI Guide (EG)

Special Report (SR)

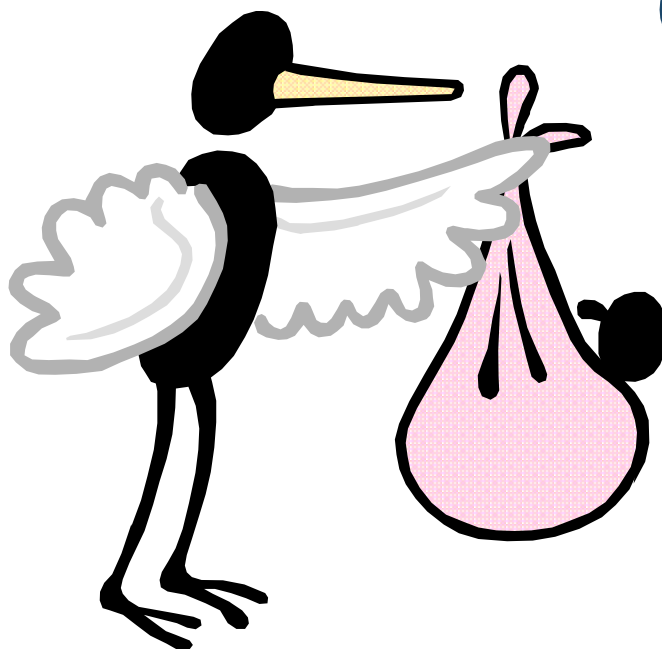


Published when approved by ETSI Technical Body

Published after 60-day vote by ETSI members
(informative document of interest to several technical bodies)

Information of general interest (e.g. list of known patents in ETSI standards)

ETSI Deliverables



Can all be
downloaded free of
charge from the
ETSI web site

Started recently...

- ❑ **GRID (Sept 2006)**
 - convergence of Information Technology (IT) and telecommunications, interoperable Grid solutions.
- ❑ **eHealth (April 2007)**
 - co-ordinates ETSI's activities: Security of systems and data, Quality of services, Interoperability and validation by testing, Usability
- ❑ **Intelligent Transport Systems (December 2007)**
 - communication media, and associated protocols, security, lawful intercept and the provision of generic web services for a wide range of applications.
- ❑ **Reconfigurable Radio Systems (March 2008)**
 - allow a terminal to adapt dynamically to the technology offered by the network, changing its transmission parameters dynamically to avoid interference with other services.

Started recently...

- ❑ **IMS Network Testing (May 2008)**
 - **Develop IMS Core Network test specifications (interoperability, conformance, network integration etc.) from 3GPP and TISPAN specifications**
- ❑ **Quantum Key Distribution (October 2008)**
 - **Quantum Key Distribution for security of ICT networks**
- ❑ **Machine to Machine (November 2008)**
 - **end-to-end overall high level architecture for provision of value-added M2M services based on a horizontal market model**
- ❑ **Media Content Distribution (November 2008)**
 - **standards for digital media distribution across unicast, multicast and broadcast networks**
- ❑ **Autonomic network engineering for the self-managing Future Internet (AFI) (February 2009)**

Standards Enabling Services

- In-house expertise in design for interoperability
- Conformance testing
- Interoperability testing
- Fora hosting



ETSI is Committed to TTCN-3

❑ As a Standards Body

- Under TC MTS (Methods for Testing and Specification)
- Continuous development of the TTCN-3 standard to reflect user community needs
- Continuous maintenance

❑ As a USER

- Testing and validation is an important activity at ETSI
- The preferred language in all ETSI test specification projects
- Initiatives to extend the scope of use to ETSI Interoperability

❑ Promotion as a global standard

- Promoting TTCN-3 with international partners
- Next T3UC will be held in Bangalore



Typical ETSI Test Specification Projects

- ❑ **Develop formal test specifications**
 - On demand by the relevant ETSI Technical body
 - Ensures quality of products based on ETSI standards
 - Often used by third-party certification schemes (GCF)
- ❑ **Under the supervision of the ETSI Centre for Testing and Interoperability (CTI)**
 - Approx 15 testing Specialist task Forces per year
- ❑ **Cover most mainstream ETSI technologies**
 - GSM, UMTS, Wireless, VoIP, IPv6, DECT, TETRA etc.
- ❑ **Moving into new areas**
 - IMS, security, Intelligent Transport Systems, GRID etc.





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ETSI Interoperability Events

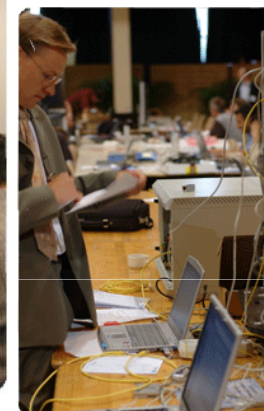


❑ Important tool to develop and validate standards

- Close link to the ETSI Technical Organisation
- IMS, RFID, WiMAX, SIP, GRID, Air Traffic Control, Bluetooth, HDMI, Security etc.

❑ ETSI provides Event Management, Technical Support and Testing Expertise

❑ Encouraging the use of interoperability test specifications written in TTCN-3



<http://www.etsi.org/plugtests>



Recent innovations

- ❑ **Review membership pricing structure: reduced fees for:**
 - **Small/Medium Enterprises and Micro-enterprises**
 - **User Associations and Trade Associations**
 - **Universities and Public Research Bodies**
- ❑ **Facilitating new ideas**
 - **Industry Specification Group (ISG) www.etsi.org/isg**
 - **Quick to set up, quick to publish**
 - **Designed to allow the results of a collaborative project among a group of members to be brought into the public domain**
 - **A simple prelude to formal standardization**
- ❑ **Review of electronic working methods**
 - **Programme to further improve tools for electronic collaboration and remote working**

Reducing the standardization gap

- ❑ **Reducing costs of standards**
 - **Distribution via the Internet, at no cost**
- ❑ **Reducing membership fees**
 - **Aim: The ETSI membership fee should not be a barrier to participation**
- ❑ **Reducing costs of participation**
 - **Continuous improvement in electronic working and remote collaboration tools**
- ❑ **Reduction of time spent on standardization**
 - **Simplified deliverables, simplified approval process can be used wherever possible**
- ❑ **Reducing barriers to entry**
 - **Simplified procedures to set up new projects**



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Thank you for your attention....

michael.sharpe@etsi.org

ETSI

650 route des Lucioles

F-06921 Sophia Antipolis

www.etsi.org