

Linking Research & Standardisation
Robotic Research=> ETSI ISG ?

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for the Second Call for Experiment Proposals
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Strategy & New Initiatives

ETSI – the *European Telecommunications Standards Institute*



- ❑ was established 1988 as an independent, not-for-profit Standards Developing Organization (SDO)
- ❑ ETSI is officially recognised by the EU as a European Standards Organization

- ❑ ETSI's Members are global players & standards are adopted worldwide
- ❑ Over 20% of ETSI's more than 700 members have no established operations in Europe
- ❑ 15% of the other 80% are headquartered outside Europe

- ❑ ETSI has more than 70 partnership agreements with other SDOs and Industry Forums

Mind the gap between research & standardisation

- ❑ **ICT markets are shaped by standards**
 - **de facto, industry, fora, SDOs**
- ❑ **European strength in collaborative R&D**
- ❑ **European R&D in ICT must lead to standards activity**
 - **Developing new products, new services, new markets**
 - **Driving, not disseminating**
- ❑ **The gap between research projects and standardisation**
 - **Standardisation can take time**
 - **Funding shortfall**
 - **Different objectives between R&D project and standards committee**
 - **Population differences**
 - **Too much choice?**
- ❑ **Input is not enough – longer term participation is required**

Issues for standards bodies

- ❑ SDOs have responsibility toward R&D activities
- ❑ Reduce barriers to input from R&D projects
 - Membership cost
 - Participation cost
 - Access to information
 - Guidance and help in navigating an SDO
- ❑ Incubator or start-up groups for new topics
- ❑ Improve visibility of R&D project impact on standards
 - Recognition for submissions
 - Recognition for retained results
- ❑ Maintain dialogue between SDOs and R&D community

What has ETSI done?

- ❑ **Creation of 'New Initiatives' team in Secretariat**
 - Your gateway to ETSI
 - Help on creating an ISG , finding existing TBs, founding a new TB
- ❑ **Incubator or pre-standardisation groups**
 - Industry Specification Group
- ❑ **Workshops and events with R&D community**
 - Hosting at ETSI, and attending, listening
- ❑ **Reduced barriers to access and participation**
 - Reduced membership fees and easier access
 - For Universities & Public Research Bodies
 - For SMEs
 - Electronic participation
 - Standards available for free on the internet
 - Complete access with single username/password
- ❑ **Partner & Supporter of selected R&D projects**

Industry Specification Group (ISG)

a Consortium under the ETSI umbrella

❑ ISG mechanism

- **Can specifically address the needs of a forum or consortium**
- **Ideal for Pre-Standardization**
 - Bringing research results into Standards
 - ISG can evolve into a full ETSI Technical Body
- **Is fast and easy to set up**
 - Minimum 4 ETSI members necessary, approved by Director General
- **Flexible and adaptive**
 - An ISG has its own operating rules (including voting rules)
 - ISGs use the ETSI IPR policy
- **The ETSI Secretariat will provide basic support free of charge**
- **Specifications from an ISG are official ETSI deliverables**
 - Permanently in ETSI publications catalogue

Newly established ISGs

- ❑ **QKD – Quantum Key Distribution**
 - Results from FP6 SECOQC project
- ❑ **AFI – Autonomic network engineering for the self-managing Future Internet**
 - Results from the FP7 EFIPSANS project
- ❑ **MTC – Mobile Thin Client Computing**
 - Results from the FP7 MobiThin project
- ❑ **MOI – Measurement Ontologies for IP traffic**
 - Results from FP7 Moment project
- ❑ **INS – Identity and access management for Networks and Systems**
 - Related to SWIFT (FP7) and Daidalos (FP6)





World Class Standards

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Strategy & New Initiatives

THANK YOU

Backup slides

ETSI LINKING RESEARCH AND STANDARDISATION

The ETSI way forward (1) – reduce barriers

- ❑ **Freely available ETSI deliverables (via Internet at no cost)**
 - **Technical Specifications, Technical Reports**
 - **ETSI Standards, ETSI Guides**
 - **European Standards**

- ❑ **Reduced membership fees for**
 - **Small/Medium Enterprises and Micro-enterprises**
 - **User Associations and Trade Associations**
 - **Universities and Public Research Bodies**

- ❑ **Reduced costs of participation (electronic working methods)**
 - **New portal project ongoing**
 - **Remote collaboration tools**



The ETSI way forward (2) – link to research

- ❑ Collaborative research is a European strength
- ❑ European R&D in ICT must lead to standards activity
 - Developing new products, new services, new markets
 - Driving, not disseminating
- ❑ NOTE: ICT markets are shaped by standards
 - 'de facto' or 'de jure'
- ❑ Maintain close links to research (ERCIM, **infinity** initiative, JRC)
- ❑ Open workshops and events on hot topics with R&D community
 - Hosting at ETSI, and attending, listening
- ❑ Participation at 10+ research events including FP6/FP7 cluster meetings
- ❑ Direct Participation in FP7 R&D projects
- ❑ Co-ordinator of the Cluster of 18 European RFID Projects (CERP)



The ETSI way forward (3) – ISG

- ❑ **Industry Specification Group (ISG) mechanism can specifically address the needs of a forum or consortium**
 - **Bringing research results into Standards**
 - **ISG can evolve into a full ETSI Technical Body**
- ❑ **Is fast and easy to set up**
 - **Minimum 4 ETSI members necessary, approved by Director General**
- ❑ **Flexible and adaptive**
 - **An ISG has its own operating rules (including voting rules)**
 - **ISGs rely on the well proven ETSI IPR policy**
- ❑ **The ETSI Secretariat will provide basic support free of charge**
- ❑ **Specifications from an ISG are official ETSI deliverables**
 - **Permanently in ETSI publications catalogue**

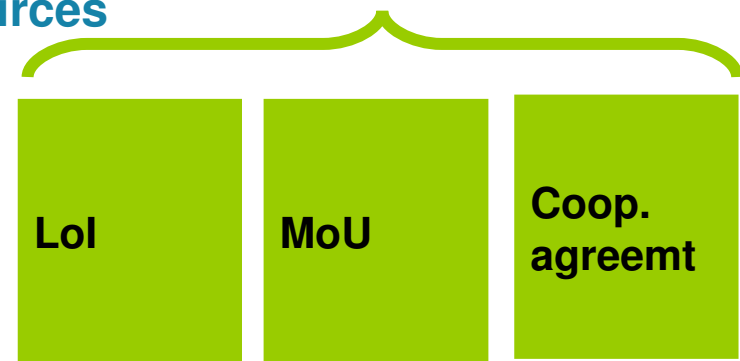
The ETSI way forward (4) – partnering and hosting

- ❑ ETSI offers hosting services of industry fora, e.g.



- ❑ ETSI maintains a portfolio of more than 70 partnership agreements (nobody can do it alone)

- to complement strength and offset weaknesses
- to complement and leverage resources
- to extend own value chain
- to embrace larger eco-systems



The ETSI way forward (5) – interoperability

- ❑ The ability of systems and products to interwork is fundamental...

- ❑ ETSI offers unique and complementary resources to help ensure interoperable standards (also for non-ETSI standards !)
 - **Technical Committee MTS (Methods for Testing and Specification)**
 - Development of methodologies, techniques and languages
 - **ETSI's Centre For Testing and Interoperability (CTI)**
 - Supports ETSI committees on the application of formal techniques in standards on a daily basis
 - Development of test specifications (conformance and interop)

Plugtests™ Service

- Validation of standards and prototypes through interoperability events



Newly established TCs

- ❑ **TC ITS – Intelligent Transport Systems**
 - V2V, V2I communication, working with Car2Car Consortium
- ❑ **TC INT – IMS Network Testing**
- ❑ **TC RRS – Reconfigurable Radio Systems**
 - Cognitive Radio and SDR
 - Resulting from work in FP6 E2R, FP7 E3 projects
- ❑ **TC M2M – Machine to Machine communications**
 - Also co-ordinating Smart Metering mandate activity in ETSI
- ❑ **TC MCD – Media Content Distribution**
- ❑ **TC AERO – Aeronautics**
 - Regrouping all ETSI's activities related to communications in the aviation industry including ATM



Conclusions

- ❑ ETSI remains leading edge (e.g. LTE is #1 in mobile broadband and a milestone towards the Future Internet)

- ❑ More than 'Telecommunications'
 - Convergence: e.g. Broadcasting, MCD
 - ICT as enabler in other sectors: e.g. ITS

- ❑ New paths to link R&D to standardization, 11 new Technical Bodies in the last two years

- ❑ ETSI is open for new work and develops what members drive !



Thank you for your attention

ETSI website (<http://www.etsi.org>)

- general public information
- free standards download
- promotional aspects

ETSI portal (<http://portal.etsi.org>)

- easy access to data for each tb
- Working documents
- ETSI applications and databases

3GPP website (www.3gpp.org)

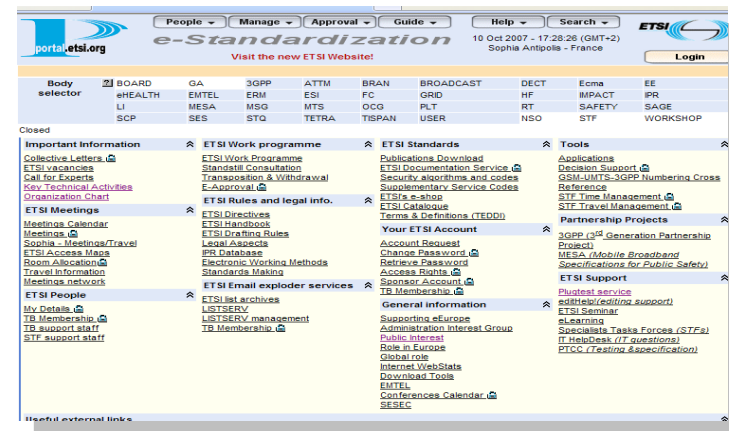
MESA website (www.projectmesa.org)

Forapolis website (www.forapolis.org)



The screenshot shows the ETSI website homepage with the following content:

- ETSI World Class Standards** header with navigation links: Home, About ETSI, Membership, News & Events, Our Services, Creating Standards, Standards & Publications, Technologies, Technical Committees.
- Shaping the future, leading today** banner with a video player.
- Welcome to ETSI** section: "ETSI is a non-profit making organization whose mission is to determine and produce the telecommunications standards that will be used for decades to come." It lists languages: Deutsch, français, italiano, español, português, русский, 日本語, 中文.
- Membership - Join us** section: "By joining ETSI you'll have the opportunity to shape future markets, and you'll get the chance to build your intellectual property into global standards." It includes a "find out how we can help you" dropdown menu.
- Introduction to ETSI** section with a "GLOBAL COMMUNICATION" graphic.
- Creating standards for...** section with several featured articles:
 - PLUGTESTS**: "Download the latest ETSI White Paper on security for free." Includes a link to "Read ETSI's latest white paper on Product Proofing here."
 - Product Proofing Against Crime**: "Certain products and services have a tendency to become the target of crime. Product Proofing attempts to reduce the level of crime risk associated with..."
 - Triple Play Over Broadband Technologies Interoperability Event**: "7-11 May 2007 - Lannion, France. The place to be to assess your solutions to an ever increasing demand for a higher bandwidth. Focusing on Video Digital Subscriber Line 2 (VDSL2) & Gigabit Passive Optical Network (G-PON) Interoperability..."
 - SIGTRAN Protocol Testing**: "16-20 April - Moscow, Russia. Interoperability testing on IP, GPRS, UTRAN, RNS, GSM, HSPA, and UTRAN being standardized by the 3rd generation group of the Internet Engineering Task Force (IETF)." Includes a "Register Now" button.
- I Want To...** section:
 - Find a standard
 - Become an ETSI member
 - Learn more about interoperability testing
 - Participate in a Technical Committee
 - Understand ETSI's role in my technology field
- 3rd GRID CONTEST** banner: "2006 - French Riviera - November 28-29"



The screenshot shows the ETSI portal website with the following content:

- portal.etsi.org** header with navigation: People, Manage, Approval, Guide, Help, Search, ETSI logo.
- e-Standardization** header with date: 10 Oct 2007 - 17:28:28 (GMT+2) Sophia Antipolis - France.
- Body selector** table:

| Body selector | BOARD | GA | 3GPP | ATTM | BRAN | BROADCAST | DECT | Esma | EE |
|---------------|---------|-------|------|-------|--------|-----------|------|--------|----------|
| | eHEALTH | EMTEL | ERM | ESI | FC | GRID | HF | IMPACT | IPR |
| | LI | MESA | MSG | MTS | OCG | PLT | RT | SAFETY | SAGE |
| | SCP | SES | STG | TETRA | TISPAN | USER | NSO | STF | WORKSHOP |
- Important Information** section:
 - Collective Letters
 - ETSI vacancies
 - Call for Experts
 - Key Technical Activities
 - Organization Chart
 - ETSI Meetings
 - Meetings Calendar
 - Meetings
 - Sophia - Meetings/Travel
 - ETSI Access Maps
 - Room Allocation
 - Travel Information
 - Meetings network
 - ETSI People
 - My Details
 - TB Membership
 - TB support staff
 - STF support staff
- ETSI Work programme** section:
 - ETSI Work Programme
 - Standstill Consultation
 - Transposition & Withdrawal
 - E-Approval
 - ETSI Rules and legal info.
 - ETSI Directives
 - ETSI Handbooks
 - ETSI Drafting Rules
 - Legal Aspects
 - PR Database
 - Electronic Working Methods
 - Standards Matrix
 - ETSI Email exploder services
 - LISTSERV
 - LISTSERV management
 - TB Membership
- ETSI Standards** section:
 - Publications Download
 - ETSI Documentation Service
 - Security algorithms and codes
 - Supplementary Service Codes
 - ETSI e-shop
 - ETSI Catalogue
 - Terms & Conditions (TEDD)
 - Your ETSI Account
 - Account Request
 - Change Password
 - Retrieve Password
 - Access ETSI
 - Sponsor Account
 - TB Membership
 - General information
 - Supporting eEurope
 - Administration Interest Group
 - Public Interest
 - Role in Europe
 - Stability
 - Internet WebStats
 - Download Tools
 - ETSI Conferences Calendar
 - SESEC
- Tools** section:
 - Applications
 - Decision Support
 - OSM - UITS - 3GPP Numbering Cross Reference
 - STF Time Management
 - STF Travel Management
 - Partnership Projects
 - 3GPP / 3G Generation Partnership Project
 - MESA (Mobile Broadband Specifications for Public Safety)
 - ETSI Support
 - Internet service
 - edit/etsi/edit/na support
 - ETSI Seminar
 - ESARDA
 - Specialists Task Forces (STF)
 - IT HelpDesk (IT questions)
 - PTCC (Testing Association)
- Useful external links** section.