

Welcome
to the World
of Standards



ETSI OVERVIEW BY CLUSTERS



A Connected World



ETSI CLUSTERS: Our Vision of A Connected World Highlights by Cluster

ETSI's Vision of A Connected World



- ETSI's cluster concept aims to provide a simplified, yet comprehensive introduction to our standardization activities.
- Clusters facilitate access to ETSI's diverse work enabling the identification of areas of interest based on business relevance or application 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 TCs and WGs that share a common technological scope and vision.



CONNECTING THINGS

Highlights



Connecting Things Highlights



Connecting Things

- Completion of M2M Release 1 specifications in December 2011.
- Opening of M2M Release 2 in January 2012, planned for completion within 8 months.
- Setting of priorities for M2M Release 2.
- Progress made on M441 (smart metering), with completion of Phase 1, and work underway on Phase 2.
- Progress made on M490 (smart grid), with ETSI member participation in most of coordination and focus groups and joint publication of JWG report on Smart Grids Standards.
- Discussions initiated with several SDOs about partnerships for M2M.
- Events:
 - ETSI organizes M2M Workshop with over 250 participants from 4 continents, 25 speakers, and two days of intense discussion, 26-27 October 2011 in Sophia Antipolis. NEW were the 5 live demonstrations with 13 participating companies, showcasing ETSI M2M-based applications ranging from health, energy and robotics.
 - Many ETSI officials called to present M2M and Smart Grids at events in 2011.



INTEROPERABILITY

Highlights



Interoperability Highlights

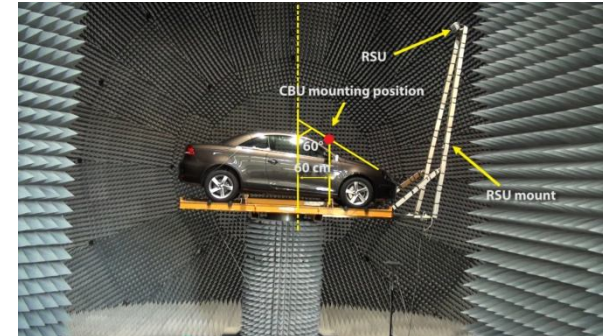


Interoperability

12 Plugtests in 2011

Of special recent interest

- 1st TC ITS Co-operative Mobile Systems held at the TNO test site in the Netherlands (Nov 2011)
- 1st TC ESI remote event for PDF Advanced Electronic Signatures (PAdES) (Nov-Dec 2011)
- 1st TC ERM/TC ITS Cross Technology Evaluation between DSRC devices and Toll Systems, with STF421, held at JRC in Italy
- Successful M2M Interoperability Demonstrations at the ETSI M2M Workshop



Other Events, Presentations, Activities

- First ETSI TC MTS Model-Based Testing User Conference (MBTUC) held in Berlin
- 3GPP LTE verification / certification target reached on time
- Continued work on conformance test specifications for TC ITS, TC ERM, TC INT etc.
- Completion of MTS Standards Validation Guidelines



PUBLIC SAFETY

Highlights



Public Safety Highlights



Public Safety

- **Mandate M/493 “in support of the location enhanced emergency call service”**
 - Includes ATTM, BRAN, EMTEL, MSG, TISPAN, with TISPAN as the Lead TB / Work Item hosting TB
 - Introduction of a specific management concept, that may also serve as a model for the handling of other similar Mandates
 - A steering group made of the TB Chairmen deciding work plan and allocation of work items; reporting to EC and ETSI OCG/Board
 - A project team gathering all experts, progressing and approving Work Items of common interest;
 - Each TB continues to manage the WIs that belong to its own domain only.
 - Progress on draft on Functional Architecture
- **Space mandate M/496**
 - TC SES will deal with 3 of the 10 dossiers and will contribute to others
 - Work will require coordination with CEN/CENELEC TC 5
- **Non-voice communication: can help people with a disability**
 - Good progress of EMTEL specification on “Total Conversation “ (combination of video, real-time text and audio) access to Emergency services
- **Maintenance of TETRA 1 and TETRA 2 standards including**
 - Development and evaluation of possible TETRA broadband data expansion solutions
 - Extension of the current TETRA standard into the VHF frequency



SECURITY

Highlights



Security Highlights



Security

- Progress made in a number of areas including NGN, Lawful Interception / Data Retention, M2M, ITS, Mobile/Wireless, Electronic Signatures, QKD, Cloud...
- Latest achievements, ongoing work and list of security related publications in recently updated ETSI Security White Paper, 4th ed. Jan 2012, www.etsi.org/securitywhitepaper
- Events:
 - In January 2012, ETSI organized its 7th Security Workshop with 150 participants and speakers from ETSI, CEN, CENELEC, EC, ENISA, ITU-T, ISO as well as the private and public sectors and the research bodies
 - 8th ETSI Security Workshop 16-17 Jan. 2013
 - Throughout 2011, Charles Brookson and Carmine Rizzo represented and were speakers for ETSI at several events including conferences, workshops, ITU and ISO meetings



ETSI Security Workshops

Each year ETSI organizes a Security Workshop in its premises, attracting a large number of experts from all over the world. The event provides valuable co-operation opportunities, and helps set the direction for future standardization work, in line with the requirements of ETSI Members.



HOME & OFFICE

Highlights



Home & Office Highlights



Home & Office

- Wireless Accesses/Home Control
 - DECT New Generation and Ultra Low Energy (TC DECT)
 - Smart Metering Wireless Access Protocol (M/441, ERM TG28)
 - Smart Electricity Meters and in-home networks (M/441, TC PLT)
- NGN and Home Networks:
 - DECT Security enhancement (TC DECT)
 - QoS requirement for NGN Transmission Planning (TC STQ)
- Interactive Cable Television Services:
 - Work on 3rd generation transmission systems based on Euro DOCSIS (TC ATTM)
- More...
 - External Power Supply for CPE & Plastic Optical Fibres (ATTM), QoS/QoE (TC STQ)
- Events:
 - ETSI TC DECT represented at DECT World & CAT iq, 14-15 February 2012 in Amsterdam (speaker: Laurent Clarimon, TC DECT Vice-Chairman)



BETTER LIVING WITH ICT

Highlights



Better Living with ICT Highlights



Better Living

Human factors:

- New activities on Mandate 376 'support of European accessibility requirements for public procurement of products and services in the ICT domain'

Speech and Media Quality:

- TC STQ publishes specifications to set the procedures for speech quality performance in the presence of background noise
- TC STQ publishes specifications on transmission requirements for IP-based narrowband and wideband Home Gateways from a QoS perspective as perceived by the user

Energy Efficiency:

- TC EE publishes specification on the Life Cycle Assessment (LCA) for ICT and specification on a standardized measurement method for energy efficiency of wireless access network equipment considering the dynamic behaviour of equipment in operation with a realistic load level
- TC EE LCA specification is recognized as one of important standards to be used for EC ICT Footprint road test. (<http://www.ict-footprint.com/>)
- Mandate 462 on 'ICT to enable efficient energy use in fixed and mobile information and communication networks'

Events:

- EC ICT Footprint progress meeting, 15 February 2012 in Brussels
- Workshop for FP7 STRONGEST project (STRONGEST's commitment for green telecommunication), 18-21 October 2011 in Pisa (speaker: Paolo Gemma, TC EE WG EEPS Chairman)
- INTELEC 2011 on telecommunication energy systems and related powering , 9-13 October 2011, in Amsterdam (speaker: Didier Marquet, TC EE WG2 Chairman)



CONTENT DELIVERY

Highlights



Content Delivery Highlights



Content Delivery

- Major achievements
 - DVB 3DTV
 - Multipart standard for Third Generation Transmission Systems for Interactive Cable Television Services based on Euro DOCSIS (Data Over Cable Service Interface Specification) 3.0
- Ongoing work
 - Multi-screen service
 - CDN interconnection
 - CA/DRM interoperability
 - Migration scenarios of cable networks to IPv6
- Events
 - Connect-TV Asia Conference, Beijing, 6-7 Dec. 2011 (speaker: ZTE on Multi-screen service)
 - IP&TV World Forum, London, 20-22 March 2012 (booth + speaker: Peter Mann on CA/DRM)



FIXED NETWORKS

Highlights



Fixed Networks Highlights



Fixed Networks

Major achievements

- Approval by the Board of the creation of the ETSI project E2NA which will develop and maintain a global end-to-end system view encompassing terminals, home network, access networks, core networks and application servers, using different technologies
- Relaunch of TC CLOUD with focus on user requirements and testing

Ongoing work

- Autonomic networks
- KPIs for energy efficiency
- Emergency calls location determination
- Cloud



WIRELESS SYSTEMS

Highlights



Wireless Systems Highlights



Wireless Systems

- TC SES re-publishes Harmonized Standards (ETSI EN 301 444 and EN 301 681) for Mobile Satellite Systems and Land Mobile Earth Stations
- TC SES published:
 - S-band Mobile Interactive Multimedia Specification TS 102 721 and
 - TR 103 166, a report on Emergency Communication Cell over Satellite (ECCS)
- TC TETRA has published a Designers' Guide TR 102 300-6 providing help in getting started with TETRA Air-Ground-Air
- TC TETRA also published TR 100 392-17-5 practical report listing TETRA release 2.1 docs
- BRAN published revisions of harmonizes standards:
 - EN 302 774 Broadband Wireless Access Systems (BWA) 3 400 MHz to 3 800 MHz
 - EN 301 893 Radio LANs (RLANs) operating in the 5 GHz,
 - EN 302 567 60GHz Multiple-Gigabit WAS/RLAN Systems and
- ETSI DG will be speaking at the TETRA World Congress 2012 14th - 17th May (organized by the TCCA) as will the TCCA CEO in addition TC TETRA Chairman will be participating in a panel discussion
<http://www.tetraworldcongress.com/>





TRANSPORTATION

Highlights





Transportation Highlights



Transportation

- Future role of mobile networks in Cooperative ITS analyzed (TR 102 962)
- Usage of Self-Organizing TDMA (STDMA) as Medium Access Control Method in Cooperative ITS studied (TR 102 861 & TR 102 862)
- Air Interface for S-band Mobile Interactive Multimedia (S-MIM) satellite services specified (TS 102 721)
- Updated Standards for anti-collision radar for cars
- Improved GSM-R specifications for nearly-interference-free usage
- Events:
 - ETSI organized the 4th TC ITS Workshop, 07-09 February 2012, Doha
 - ETSI exhibits at ATC Global, 06-08 March 2012, Amsterdam
 - ETSI exhibits at the ITS World Congress, 22-26 October 2012, Vienna

