



Introduction to ETSI

“Make global standards happen first in Europe”

Jan Ellsberger
Director General

September 17 2024



We are at the Heart of Digital & Driving Innovation



- Recognised as a European Standards Organisation responsible for ICT.
- Independent, non-profit organization
- More than 900 member organisations worldwide, drawn from over 60 countries and on five continents
- 30+ years track record of technical excellence in the ICT sector
- Strong community of experts and innovators
- All ICT stakeholders represented: SMEs, micro-enterprises, large enterprises, research entities, academia, government and public bodies, societal stakeholders

Success Stories:



SmartCard
Platform

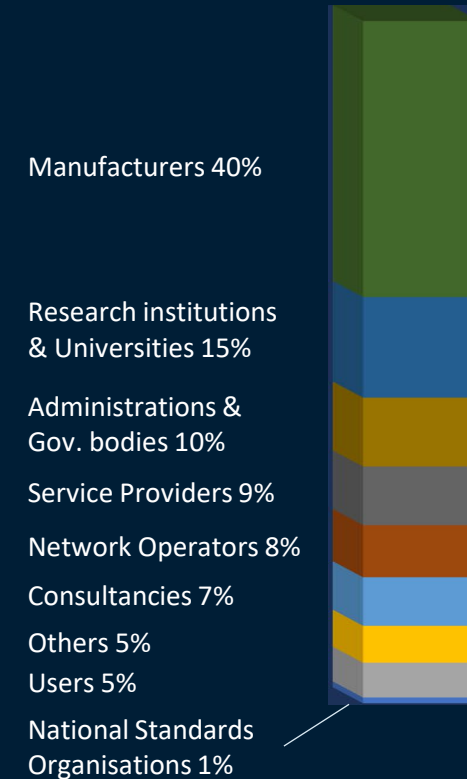
NFV

Industry Events: Security Conference, AI Telco Summit, Software & Standards for Smart Networks

We are Open & Inclusive



- Diverse membership
- Members can participate in any activity on equal terms
- The ETSI IPR Policy is the key driver of balancing the rights and interests of SEP holders to be fairly and adequately rewarded
- Available to all, our standards are free of charge to download
 - Over 56 000 standards published
 - Over 3 000 standards published in 2023
 - Over 16 million downloads of standards in 2023
 - Used globally



NZ	BAINZ Consulting Ltd	Wellington
AU	Cohda Wireless Pty Ltd	Wayville
AU	Commonwealth Scientific and Industrial Research Organisation (CSIRO)	Marsfield
AU	Department of Home Affairs	Canberra
AU	nbn co Limited	Docklands VIC
AU	Softel Systems Pty Ltd	Docklands
AU	Telstra Limited	Melbourne, VIC

ETSI Technical Bodies



Technical Committees

ATTM Access, Terminals, Transmission and Multiplexing	BRAN Broadband Radio Access Networks	BROADCAST EBU/CENELEC/ETSI on Broadcasting	CABLE Integrated Broadband Telecommunication Networks
CYBER Cybersecurity	DECT Digital Enhanced Cordless Telecommunications	EE Environmental Engineering	eHealth eHealth
EMTEL Emergency Communications	ERM EMC and Radio Spectrum Matters	ESI Electronic Signatures and Trust Infrastructures	HF Human Factors
INT Core Network and Interoperability Testing	ITS Intelligent Transport Systems	LI Lawful Interception	MSG Mobile Standards Group
MTS Methods for Testing and Specification	RRS Reconfigurable Radio Systems	RT Railway Telecommunications	SAFETY Safety
SAI Securing Artificial Intelligence	SES Satellite Earth Stations & Systems	SET Secure Element Technologies	SmartBAN Smart Body Area Network
SmartM2M SmartM2M	STQ Speech and multimedia Transmission Quality	TCCE TETRA and Critical Communications Evolution	USER User Group

Industry Specification Groups

ARF Augmented Reality Framework	CDM European Common information sharing environment service and Data Model	CIM Cross-cutting Context Information Management
ENI Experimental Networked Intelligence	ETI Encrypted Traffic Integration	F5G Fifth Generation Fixed Network
ISAC Integrated Sensing and Communication	MEC Multi-access Edge Computing	mWT Millimeter Wave Transmission
NFV Network Functions Virtualisation	NIN Non-IP Networking	OEU Operational Energy Efficiency for Users
PDL Permissioned Distributed Ledger	QKD Quantum Key Distribution	RIS Reconfigurable Intelligent Surfaces
THz TeraHerz Technology	ZSM Zero-touch network and Service Management	

Partnership Projects

 <p>3rd Generation Partnership Project</p>	 <p>One Machine-to-Machine Partnership Project</p>
--	--

Software Development Groups:

DCF OpenCAPIF	OSL OpenSlice	OSM Open Source Mano	TPS TeraFlow SDN
-------------------------	-------------------------	--------------------------------	----------------------------

Strategic Outlook – Key Priorities



Role as ESO

Strengthen role as ESO

- Build close relationship with EC, EFTA, CEPT
- Be pro-active in related standardisation

Expand Scope

Expand scope into adjacent ICT areas

- IT & Software (AI, Data, Quantum Computing, Sustainability, Cybersecurity, ...)
- Recruit members from relevant industry sectors
- Strengthen collaboration with research programs

Expand Global Impact

Build on global participation and expand global impact

- Middle East, Africa, South East Asia, India
- Strengthen collaboration with ISO, IEC and ITU.

Staff Culture

Staff motivation and competence development

- Positive culture
- Acquisition and development of competencies in 'new' areas

Operations

Improve operations

- Budget process
- Improved working methods and IT tools
- IPR Policy, impact from EU SEP Regulation
- Transparency



Critical Communications in ETSI



ETSI TC TCCE	TETRA & Critical Communications Evolution - Enhancing TETRA to meet the needs of Professional Mobile Radio (PMR) users.
ETSI TC EMTEL	Emergency Communications - IPbased emergency communications services.
ETSI TC SAFETY	Information exchange, collecting information from other bodies on work on directives related to safety.
ETSI TC RT	Railway Telecommunications - Working with UIC and 3GPP on Future Railway Mobile Communication System (FRMCS)
ETSI ISG MEC	Multi-access Edge Computing – architecture for interworking with cloud providers, edge data centres and neutral hosts
ETSI TC CYBER	Security standardization, sometimes in support of legislative actions, has a key role to play in protecting the Internet and the communications and business it carries. We offer market-driven cybersecurity standardization solutions, along with advice and guidance to users, manufacturers, network, infrastructure and service operators and regulators.
3GPP	Mission Critical progress In Rel-18 and Rel-19
ETSI PLUGTESTS	Provides essential feedback to improve our standards and to accelerate the standards-making process. Enable engineers to get together to test the interoperability of implementations.



TC TETRA & Critical Communications Evolution

- Maintain the TETRA standards.
- The flagship standard i.e. the air interface specification (EN 300 392-2 / TS 100 392-2) is regularly revised.
- Format for the transport of TETRA speech over mission critical broadband systems is currently pending publication.
- TETRA encryption update is designed to keep TETRA secure, aligned with best-in class security standards.

➤ For mission critical users requiring organisation-centric group voice communication and messaging services using narrowband technologies on dedicated frequencies, TETRA remains in place for the foreseeable future.

TC Emergency Communications

- NG112 - Network independent access to emergency services:
 - Enable citizens to contact emergency services with technologies they use to communicate every day, e.g. multimedia capabilities.
- Key objectives
 - Communication between citizens and emergency services
 - Interoperability between emergency services
- Main deliverables:
 - EMTEL TS 103 479: IP-based architecture, core elements and corresponding technical interfaces.
 - Harmonised Standard EN 303 919: Accessibility and Interoperability of Emergency Communications, based on TS 103 919.

➤ ETSI Plugtests show that the NG112 technology is mature, and a large number of vendors provide interoperable solution components.

Relevant ETSI Plugtests



Future Railway Mobile Communications System

- Part of the MCX Plugtests programme.
- Based on 3GPP Mission Critical Services
- Validate the interoperability of implementations for rail specific features.

July 1-5 2024

NG112

- Co-organised with the European Emergency Number Association (EENA).
- Validate the standard 'Core elements for network independent access to emergency services, ETSI TS 103 479'.
- Content-rich emergency calling, location- and policy-based routing and secure transport via TLS.

January 2023

Pan-European Mobile Emergency Application

- Co-organised with the Pan-European Mobile Emergency Application (PEMEA) Consortium.
- Validate the interoperability of PEMEA nodes and services across multiple vendors and supplies.
- PEMEA Core tests, instant messaging, real-time text and audio-video features.

February 12-16 2024

A circular inset image on the left side of the slide shows a close-up of a person wearing a white helmet and a high-visibility vest with reflective yellow and red stripes. They are operating a piece of emergency communication equipment, likely a TETRA terminal, which has a keypad and a microphone. The background is dark and out of focus.

Summary

- ETSI positioned as global platform for Critical Communication Systems standards:
 - Public Safety & MC communities are fully integrated into ETSI and 3GPP.
 - TETRA standard needs to be maintained.
 - Evolution of Emergency Call - NG112
- Plugtests to ensure interoperability and building confidence.
- A diverse set of industry sectors are engaged in ETSI and 3GPP
 - Economy of scale and efficiency.

Thank You

