



World Class Standards

**ETSI TC NTECH
STANDARDIZATION
ACTIVITIES**

ETSI Presentation to ISO SC27, April 26th 2013

Mission

- TC NTECH will:
 - Be the ETSI competence centre on network technologies, including interconnection to other networks.
 - Provide detailed technical specifications for network solutions fitting the overall architecture defined by EP E2NA.
 - Be the ETSI competence centre on 'Future Networks' technologies

Responsibility

- Consistent with the mission TC NTECH will
 - Provide detailed architecture and protocol (profile) specifications for use in networks addressing the control, data and management planes in both the service and transport layers of these networks, including security.
 - Provide protocol profile specifications for service interconnection and network interconnection,
 - Identify and monitor relevant work on Future Networks technologies performed outside ETSI and provide guidelines on their applicability to ETSI compliant networks.

Main aims of TC NTECH



- Development of assured security capabilities for future networks
 - Also ensuring that deployed networks remain and improve security and privacy
- Development of the Design for Assurance paradigm
- Deployment of the Design for Assurance paradigm
- Development of methods to support privacy by design
- Deployment of privacy by design in ETSI's standards for networks

Society

- Networks underpin almost all societal interactions and provide benefit to all of society

Industry

- Billions of phones, billions of internet connected devices, billions of people able to move and interact through networks

Government

- Need to manage networks and telecommunications as a societal benefit and ensure it fits to the other government managed societal benefits
- Need to ensure global cooperation for network availability



CURRENT WORK PROGRAMME

Aims of TC NTECH in the security area

- Work carried over from TISPAN's NGN
 - Closure of TVRA report (*RTR/NTECH-00007-SEC-TVRA (TR 187 002) TISPAN NGN Security - Threat, Vulnerability and Risk Analysis - Release 3*)
 - Closure of NGN Security Requirements (RTS/NTECH-00008-SEC-REQ (TS 187 001) TISPAN NGN SECurity (SEC); Requirements - Release 3)
 - Closure of NGN Security Architecture (RTS/NTECH-00006-SEC-Arch (TS 187 003) TISPAN NGN Security (NGN-SEC) Security Architecture Release 3)

- Defining in detail “Design for Assurance”
 - How to apply evaluation logic in the design process to define standards able to give high levels of security assurance
 - Develop new ETSI report (TR or EG) on the definition and practice of design for assurance
 - Update existing DfA document suite to explicitly identify they are DfA documents
- Defining what privacy by design means in standardisation
 - Building the foundation for systems that have privacy protection in depth irrespective of the specific technology
 - Develop new ETSI report (TR or EG) on the definition and practice of privacy by design

- Security architecture for future networks
 - An abstract architecture that can then be mapped on actual architectures.
 - It is unlikely that there will be a single functional architecture for future networks so , such abstract security architecture would certainly be appropriate.
- To include support for ...
 - Cloud security
 - Software defined networks

- Ensuring networks can deliver risk managed services
 - Where networks support multiple conflicting capabilities
 - Where networks have to support law enforcement and regulatory requirement
- Further development of core standards taking account of work from ISGs and other TBs and SDOs
 - Including ISG ISI, ISG ANF, M2M, ITS ...