



International Telecommunication Union

Brief Overview of Security Activities in ITU-T SG 17

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Outline

- o Role of SG 17
- o SG17 Organization
- o Current SG 17 security-related Questions
- o WP 2/17 Security Questions
- o Strengths of ITU-T
- o Overview of ITU-T Security Standardization



ITU-T

Role of SG 17

- Study Group 17 is the Lead Study Group for Telecommunication Security
 - Coordination/prioritization of security efforts
 - Development of core security Recommendations
- Over 38 security Recommendations are under development in Study Group 17
- Other SGs are developing security Recommendations for specific technologies - for example Q15/13 on NGN security
- Focus Group on Security Baseline For Network Operators
- Organized several workshops on security
 - October 2005, New Horizons for Security Standardization Workshop
- Security standards roadmap
- Cybersecurity web portal
- Collaboration with OASIS and other bodies
 - XACML (X.1142) and SAML (X.1141)

SG17 Organization

- o SG 17 is subdivided into three Working Parties (WPs)
 - *WP1 - Open systems technologies;*
 - *WP2 - Telecommunications security; and*
 - *WP3 - Languages and telecommunications software*
- o Most (but not all) security Questions are in WP2
- o Summaries of all draft Recommendations under development in SG 17 are available on the SG 17 web page.

Current SG 17 security-related Questions

Working Party 1:

- o 1/17 End-to-end Multicast Communications with QoS Managing Facility
- o 2/17 Directory services, Directory systems, and public-key/attribute certificates
- o 3/17 Open Systems Interconnection (OSI)
- o 16/17 Internationalized Domain Names (IDN)

Working Party 2:

- o 4/17 Communications Systems Security Project
- o 5/17 Security Architecture and Framework
- o 6/17 Cyber Security
- o 7/17 Security Management
- o 8/17 Telebiometrics
- o 9/17 Secure Communication Services
- o 17/17 Countering spam by technical means

WP 2/17 Security Questions

Telecom Systems Users

Telebiometrics

- *Multimodal model Fwk
- *System mechanism
- *Protection procedure
- *X.1081

Q8/17

Telecom Systems

Q9/17

Q5/17

Q7/17

Security management

- *ISM guideline for telecom
- *Incident management
- *Risk assessment methodology
- *etc...
- *X.1051

Secure communication services

- Mobile secure communications
- Home network security
- Security web services
- X.1121, X.1122, X.1141, X.1142

Cyber security

- ❖ Overview of cyber-security
- ❖ Vulnerability information sharing
- ❖ Incident handling operations
- ❖ Identity Management

Q6/17

Q17/17

Countering spam by technical means

- *Technical anti-spam measures

Security architecture and framework

- *Architecture, model, concepts, frameworks, etc...
- *X.800 series
- *X.805

Q4/17

Communications system security *Vision, Coordination, Roadmap, Compendia...



Strengths of ITU-T

- o Distinctive mix of industry & government
- o Really global
- o Consensus decisions guarantee wide acceptance
- o Can apply Fast procedures
- o Brand name
- o IPR Policy
- o Great meeting facilities
- o Excellent Secretariat staff

Overview of ITU-T Security Standardization

Collaboration is key factor

Specific Systems, Services, Applications Security in ITU-T will be developed by SG2,3,5,6,9,11,13,15,16,19



Core technology and Common Security Techniques in ITU-T will be developed by SG17



ISO/IEC SC27

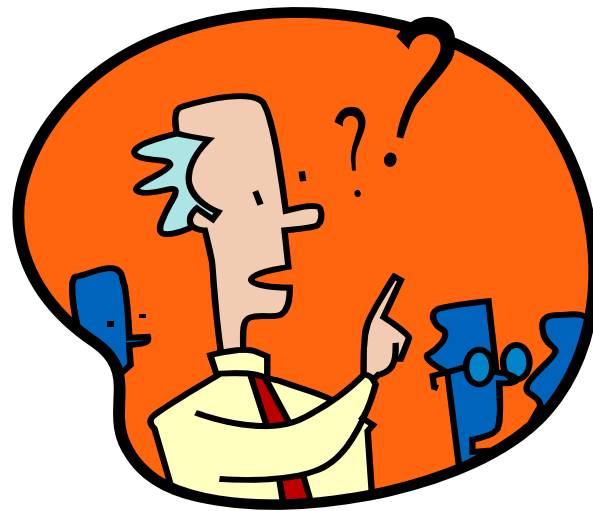


IETF



ANSI, ETSI, etc.

Closing Questions



NORTEL

Business made simple



Acknowledgments

- o Some slides are taken from Presentation by Mr. Geroges Sebek and Mr. Herb Bertine