



# **2009 ITU Regional Cybersecurity Forum for Africa and Arab States**

**Tunis, 4-5 June 2009**

**Overview on work of Study Group 17**

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# Outline of Presentation

- Background
- Study Group 17 Structure
- Results of SG 17 February Meeting
- Business use of telecommunications standards project
- Conclusion



# Background

- **ITU** is sole facilitator of **WSIS action Line C5**  
“Building confidence and security in the use of ICTs”
- Most of the ITU-T study groups have responsibilities for standardising security aspects specific to their technologies (TMN, IP Cablecom, NGN, Multimedia)
- **ITU-T SG 17** as the **lead study group** on security is responsible for coordination of security across all study groups, which include:
  - Telecommunication security
  - Identity management
  - Languages and description techniques



# ITU-T SG 17 history

Study Period	Name
17/9/2001-2004	Data networks and telecommunication software
2005-2008	Security, languages and telecommunication software
2009-2012	Security

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# SG 17 Questions

**Questions have been re-organized but all SG 17 security work from 2005-2008 Study Period will continue**

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# ITU-T Study Group 17 - Management Team (2009-2012)

The following management team for Study Group 17 was elected at the WTSA-08 in Johannesburg, S. Africa:

■ Arkadiy KREMER	Russia	Chairman
■ Jianyong CHEN	China	Vice-chairman
■ Mohamed M.K. ELHAJ	Sudan	Vice-chairman
■ Antonio GUIMARAES	Brazil	Vice-chairman
■ Patrick MWESIGWA	Uganda	Vice-chairman
■ Koji NAKAO	Japan	Vice-chairman
■ Heung Youl YOUM	Korea	Vice-chairman



# SG 17 structure

## Working Party 1: Network and information security

- Q 1 Telecommunications systems security project
- Q 2 Security architecture and framework
- Q 3 Telecommunications information security management
- Q 4 Cybersecurity
- Q 5 Countering spam by technical means



# SG 17 structure (cont.)

## Working Party 2: Application security

- Q 6 Security aspects of ubiquitous telecommunication services
- Q 7 Secure application services
- Q 8 Telebiometrics
- Q 9 Service oriented architecture security



# SG 17 structure (cont.)

## Working party 3: Identity management and languages

- Q 10 Identity management architecture and mechanisms
- Q 11 Directory services, Directory systems, and public-key/attribute certificates
- Q 12 Abstract Syntax Notation One (ASN.1), Object Identifiers (OIDs) and associated registration
- Q 13 Formal languages and telecommunication software
- Q 14 Testing languages, methodologies and framework
- Q 15 Open Systems Interconnection (OSI)



# Organization of ITU-T X-series Recommendations

## (DATA NETWORKS, OPEN SYSTEM COMMUNICATIONS AND SECURITY)

Public data networks	X.1-X.199
Open Systems Interconnection	X.200-X.299
Interworking between networks	X.300-X.399
Message Handling Systems	X.400-X.499
Directory	X.500-X.599
OSI networking and system aspects	X.600-X.699
OSI management	X.700-X.799
Security	X.800-X.849
OSI applications	X.850-X.899
Open distributed processing	X.900-X.999
Telecommunication Security	X.1000-1999
Information and network security	X.1000-X.1099
Secure applications and services	X.1100-X.1199
Cyberspace security	X.1200-X.1299
Secure applications and services	X.1300-X.1399



# Core Security Recommendations

- ❑ **core security Recommendations developed by SG 17**
  - 14 approved in 2007
  - 27 approved in 2008
  - 44 under development for approval this study period
- ❑ **Subjects include:**
  - Architecture and Frameworks • Web services • Directory
  - Identity management • Risk management • Cybersecurity
  - Incident management • Mobile security • Countering spam
  - Security management • Secure applications • Telebiometrics
  - Ubiquitous Telecommunication services • SOA security
- ❑ **Collaboration with others on many items**



# Coordination

## ❑ ISO/IEC/ITU-T Strategic Advisory Group Security

Oversees standardization activities in ISO, IEC and ITU-T relevant to security; provides advice and guidance relative to coordination of security work; and, in particular, identifies areas where new standardization initiatives may be warranted (portal established, workshops conducted)

## ❑ Global Standards Collaboration

ITU and participating standards organizations exchange information on the progress of standards development in the different regions and collaborate in planning future standards development to gain synergy and to reduce duplication. GSC-13 resolutions concerning security include Cybersecurity (13/11), Identity Management (13/04), Network aspects of identification systems (13/03), Personally Identifiable Information protection (13/25).

# Results of the SG 17 Meeting, 11-20 February 2009

- Held successful workshop on 10 Feb on “New challenges for Telecommunication Security Standardisation” that addressed a wide range of topics on security
- Approved recommendations: 3
- Determined Recommendations: 2
- Recommendations planned for consent or determination later in study period: 90:
- Initiated project on “Business use of telecommunication security Standards”

## Recommendations approved (TAP, Resolution 1)

- *X.1171, Threats and requirements for protection of personally identifiable information in applications using tag-based identification*
- *X.1191, Functional requirements and architecture for IPTV security aspects,*
- *X.1242, Short message service (SMS) spam filtering system based on user-specified rules,*

in accordance with WTSA-08 Resolution 1,  
Section 9.

The approval of the above Recommendations was reflected in TSB Circular 24 of 24 Feb. 2009.

## Recommendations determined (TAP, Resolution 1)

- *X.1250, Baseline capabilities for enhanced global identity management trust and interoperability and*
- *X.1251, A framework for user control of digital identity.*

Determination of above was reflected in TSB Circular 25 of 3 March 2009 in relation with Member States consultation for the approval of the two Recommendations.

## Supplements approved

The meeting agreed to publish two Supplements to the X-series of Recommendations, in relation to X.1240-series and X.1250-series. These are

- X.Sup6 on *countering spam and associated threats* and
- X.Sup7 on *overview of identity management in the context of cybersecurity.*

# Business use of telecommunication security standards Project

- **SG 17** is proposing a new initiative to prepare summary reports on “**Business use of telecommunication security standards**”
- The report will consist of summary sheets for key security standards and is expected to assist particularly business and government bodies in the developing countries in their procurement of security related systems

# Proposed content of summary sheets

- Status and summary of standards
- Who does the standard affect?
- Business benefits
- Technologies involved
- Technical implications

## Contribution to report

- The sheets will be prepared by experts mainly from ITU, ISO, ETSI and IETF
- Report is therefore expected to include information on the most important security standards

# Conclusion

Given the enormous benefits expected from the project, especially to developing countries, your technical contribution will be crucial for its success



**THANK YOU FOR YOUR  
ATTENTION !**

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