**Executive Summary**

**Study Group 17 meeting**

**(29 August – 7 September 2012)**

Participants:

The eighth Study Group 17 meeting was attended by 22 Member States, 18 Sector Members, 9 Associates, and 1 Academia. In total 147 participants attended the SG17 meeting.

Approved ITU-T Recommendations:

Ten new ITU-T Recommendations (under TAP) were approved.

* X.1054, *Information technology – Security techniques – Governance of information security*.
* X.1254, *Entity authentication assurance framework*.
* X.1528, *Common platform enumeration*.
* X.1528.1, *Common platform enumeration naming*.
* X.1528.2, *Common platform enumeration name matching*.
* X.1528.3, *Common platform enumeration dictionary*.
* X.1528.4, *Common platform enumeration applicability language*.
* X.1541, *Incident object description exchange format*.
* X.1580, *Real-time inter-network defense*.
* X.1581, *Transport of real-time inter-network defense messages*.

Agreed Supplements and Appendices:

Five new Supplements to the X-series Recommendations and one Amendment were agreed.

* X.Suppl.13, *Supplement to ITU-T X.1051 – Supplement on Information security management users’ guide for Recommendation ITU-T X.1051.*
* X.Suppl.14, *Supplement to ITU-T X.1243 – Supplement on a practical reference model for countering email spam using botnet information.*
* X.Suppl.15, *Supplement to ITU-T X-series Recommendations – X.800-X.849 series – Supplement on guidance for creating national IP-based public network security center for developing countries.*
* X.Suppl.16, *Supplement to ITU-T X-series Recommendations – X.800-X.849 series – Supplement on architectural systems for security controls for preventing fraudulent activities in public carrier networks.*
* X.Suppl.17, *Supplement to ITU-T X-series Recommendations – ITU-T X.1143 – Supplement on threats and security objectives for enhanced web-based telecommunication service*.
* X.1500 Amd.2, *Overview of cybersecurity information exchange – Amendment 2 – Revised structured cybersecurity information exchange techniques.*

Determined draft ITU-T Recommendations:

Four draft new ITU-T Recommendations were determined:

* X.1526 (X.oval), *Open vulnerability and assessment language.*
* X.1544 (X.capec), *Common attack pattern enumeration and classification.*
* X.1126 (X.msec-6), *Security aspects of smartphones.*
* X.1154 (X.sap-4), *General framework of combined authentication on multiple identity service provider environments*.

Consented draft ITU-T Recommendations:

Consent was reached on three draft new ITU-T Recommendations, eleven revised draft ITU-T Recommendations, two draft Amendments, five draft Technical Corrigenda, and one draft Corrigendum:

* X.1164 (X.p2p-4), *Use of service providers’ user authentication infrastructure to implement public key infrastructure for peer-to-peer networks.*
* X.1196 (X.iptvsec-6), *Framework for the downloadable service and content protection system in the mobile Internet Protocol Television (IPTV) environment.*
* X.1313 (X.usnsec-3), *Security requirements for wireless sensor network routing.*
* X.500 (revised), *Information technology – Open Systems Interconnection – The Directory: Overview of concepts, models and services.*
* X.501 (revised), *Information technology – Open Systems Interconnection – The Directory – Models.*
* X.509 (revised), *Information technology – Open Systems Interconnection – The Directory – Public-key and attribute certificate frameworks.*
* X.511 (revised), *Information technology – Open Systems Interconnection – The Directory – Abstract Service Definition.*
* X.518 (revised), *Information technology – Open Systems Interconnection – The Directory – Procedures for Distributed Operations.*
* X.519 (revised), *Information technology – Open Systems Interconnection – The Directory – Protocols.*
* X.520 (revised), *Information technology – Open Systems Interconnection – The Directory – Selected Attribute Types.*
* X.521 (revised), *Information technology – Open Systems Interconnection – The Directory – Selected object classes.*
* X.525 (revised), *Information technology – Open Systems Interconnection – The Directory – Replication.*
* X.667 (revised), *Information technology –Procedures for the operation of object identifiers registration authority: Generation of Universally Unique Identifiers (UUIDs) and their use in object identifiers.*
* Z.151 (revised), *User requirements notation (URN) – Language definition.*
* Z.104 (2011) Amd.1, *Data and action language in SDL-2010 – Amendment 1: Annex C – Language Binding.*
* Z.109 (2012) Amd.1, *Unified modeling language (UML) profile for SDL-2010: Amendment 1: Appendix I – Example language specification.*
* Five Technical Corrigenda to the X.500 series of Recommendations (joint with ISO/IEC JTC 1).
* Corrigendum to ITU-T E.115.

New work items:

The following nine new work items were agreed to be added to the work programme:

* X.mgv6, Supplement to ITU-T X.ipv6-secguide – Supplement on Security management guideline for implementation of IPv6 environment (in Q2/17, assisted by Q3/17).
* X.sup1056, Supplement to ITU-T X.1056 – Related Recommendations, International Standards and documents for security incident management (in Q3/17).
* X.sap-8, Efficient multi-factor authentication mechanisms using mobile devices (in Q7/17, assisted by Q10/17)).
* X.sap-9, Delegated non-repudiation architecture based on ITU-T X.813 (in Q7/17).
* X.scim-use, Application of system for cross identity management (SCIM) in telecommunication environments (jointly in Q10/17 and Q16/13).
* X.iamt, Identity and access management taxonomy (in Q10/17).
* X.pki-em Information Technology – Public-Key Infrastructure: Establishment and maintenance (in Q11/17, assisted by Q10/17).
* X.pki-prof, Information Technology – Public-Key Infrastructure: Profile (in Q11/17, assisted by Q10/17).
* Z.109 Amd. 1, Unified modeling language (UML) profile for SDL-2010: Amendment 1: Appendix I – Example language specification (in Q13/17).

In addition, several work items were removed from the work programme.

Coordination and promotion activities:

* Three Joint Coordination Activity meetings (JCA-IdM+JCA-Cloud, JCA-CIT, and JCA-COP) were held.
* Two security coordination meetings were held plus several joint Question meetings with Q16/13.
* Updates made in ICT Security Roadmap and Security Compendium.

Correspondence Groups:

Established one new Correspondence Group:

* Correspondence group (CG-Xccsec) on *High-level security framework for cloud computing and cloud computing security collaboration* (for Q8/17), Convener: Huirong Tian.

Continuation of four existing Correspondence Groups:

* Correspondence group (CG-SACO) on *Providing confidence and security in the use of telecommunications/ICT within industrial systems* (for Q2/17), Convener: Andrey Dukhvalov.
* Correspondence group (CG-XACML) on *XACML (eXtensible Access Control Markup Language) activities* (for Q7/17), Co-conveners: Jae Hoon Nah, Radu Marian.
* Correspondence group (CG-MOBID) on *Mobile IdM framework* (for Q10/17); Convener: Sangrae Cho.
* Correspondence group (CG-Xdiscovery) on *Discovery of identity management information* (for Q10/17); Convener: Robert Kahn.

Other highlights:

* Approved the ITU-T A.4/A.5 qualification for Cloud Security Alliance (CSA).
* Agreement was reached to modify Question Q.A/17 text, and an Amendment to WTSA-12 DOC 20 will be sent to WTSA-12. Other changes to other proposed Question texts were not agreed, but discussions yielded important insights to the Member States on the positions.
* Continued reporting by SG17 is taking place on the WTSA-08, WTDC-10 and PP-10 Resolutions.
* Memorized the death of John Larmouth (former Q12/17 Rapporteur and ASN.1/OID expert).

Associated events:

Associated events below assisted in identifying new actions for the study group and leverage the collaboration with other organizations and hopefully attract new experts in the ITU-T and SG17 community.

* Mentoring programme for newcomers: Comprehensive programme through tutorials (see below), welcome, feedback session and guided tour, all well attended with interest.
* Four tutorial presentations were given:
	+ *SG17 Orientation session for newcomers*, Arkadiy Kremer, SG17 Chairman.
	+ *Personalized, Privacy-enhancing Identity Management -A Service Provisioning Infrastructure for a Global Ecosystem, supported by interconnected Operators*, Thomas Andersson, IKED.
	+ *Introduction to ASTAP Expert Group Security (EG IS)*, Miho Naganuma, chairman of ASTAP EG IS.
	+ *CERN Computer Security*, Stefan Lueders, CERN.
* A SG17 welcome reception and social networking event was sponsored by CISCO, Microsoft, EMC and RSA.

Next SG17 meeting:

* 17 – 26 April 2013, Geneva.

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