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INTERNATIONAL TELECOMMUNICATION UNION

STUDY GROUP 17

TELECOMMUNICATION
STANDARDIZATION SECTOR

TD 0660 Rev.3

STUDY PERIOD 2009-2012

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Question(s):	6/17	Geneva, 16-25 September 2009

TEMPORARY DOCUMENT

Source:	Rapporteur Q.6/17, Associate Rapporteur Q.6/17
Title:	Report on Question 6/17

1   Question 6/17: Security Aspects of Ubiquitous Telecommunication Services

2   Rapporteurship

2.1   Rapporteur

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3   Documents considered

3.1   Reports

Document Number	Source	Title
COM17-R1	SG 17	Report of the Plenary of Study Group 17 (Geneva, 11-20 February 2009)
COM17-R3	SG 17	Report of Working Party 2/17, Application Security (Geneva, 11-20 February 2009)
TD 0212r5	Rapporteur of Q.6	Report of Q.6/17 meeting (Geneva, 11-20 February 2009)
TD 0339	Rapporteur of Q.6 and Q7/17	Q.6, Q.7/17 meeting report (IPTV-GSI event, Geneva, 22-26 June 2009)
TD 0343	Rapporteur of Q.6	Report of Q.6/17 and Q.7/17 Interim meeting (Geneva, 29 June

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	and Q7/17	– 1 July 2009)
TD 0349	Associate Rapporteur of Q.6	Report of Q.6/17 Interim meeting (Tokyo, 1-5 June 2009)

3.2 Contributions addressed to Q.6/17

Document Number	Source	Title
C 92	KDDI Corporation	Comments on X.msec-5: Security aspects of mobile multi-homed communications
C 98 Rev.1	ETRI	Proposed text for the draft Recommendation X.iptvsec-4: Algorithm selection scheme for SCP descrambling
C 117	Korea	Proposal for revised draft text of clause 9 of draft Recommendation X.usnsec-3: Secure routing mechanisms for wireless sensor network
C 124	Korea	Proposal for the 5th draft text on ITU-T draft Recommendation X.iptvsec-3
C 125	Korea	Proposal for the 4th revised text on ITU-T X.usnsec-1|ISO CD 29180: Security framework for ubiquitous sensor network
C 127	Korea	Addition of Appendix II to ITU-T draft Recommendation X.iptvsec-3
C 132	Korea	Proposal for revised text of clause 8 in X.iptvsec-2 based on TD 0340 Rev.1
C 134	Korea	Revised draft Recommendation X.usnsec-2 : USN middleware security guidelines
C 142	Korea	Proposed modification of the document TD 0342, the draft Recommendation X.iptvsec-5, SCP interoperability scheme
C 143	Korea	X.mcsec-1: proposed revised text for multicast security requirements and framework
C 150	NTT Corporation, Panasonic Corporation	Proposed modification of X.iptvsec-3
C 162	MIIT, China	Proposal for a new work item on overview of security threats to and security mechanisms for smart phones
C 163	ETRI	Check-list for the draft Recommendation X.iptvsec-4: Algorithm selection scheme for SCP descrambling
C 168	Industry Canada	Comments on TD 0283 (LS - Standard PKI certificate format - Interoperability specification (ATIS-0800016))
C 169	ETRI	Proposed use cases for the draft Recommendation X.iptvsec-4: Algorithm selection scheme for SCP descrambling
C 172	ETRI	Proposal of a revised draft text for X.msec-5 : Security aspects of mobile multi-homed communications

3.3 Plenary-related contributions

None

3.4 Temporary Documents

Document Number	Source	Title
[283-PLEN] Q6/17	ATIS IIF	LS - Standard PKI certificate format – Interoperability specification(IPTV)
[292-PLEN]	ITU-T SG2	LS - Leading role of SG2 on Service definition
[294-PLEN]	ITU-T SG2	LS - Definition of Nomadic, Nomadicity and Nomadism
[295-PLEN]	ITU-T SG2	LS - SG 2 Report and Request in its role as Lead SG on Telecommunication Management
[296-PLEN]	ITU-T SG2	LS - Draft LS to TSAG on the continuation of the JCA-AHF in the New Study Period (2009 - 2012) with revised terms of reference
[297-PLEN]	ITU-T SG2	LS - Request for review of Recommendations for identification of terms and definitions
[298-PLEN]	ITU-T SG2	LS - Study Group 2 Action Plan: Group for Issues Related to Developing Countries
[300-PLEN]	ITU-T SG2	LS - Continuation of JCA-Mgt
[303-PLEN]	TSAG	LS - Standardization Activities for Intelligent Transport Systems (ITS)
[304-PLEN]	TSAG	LS - Continuation of ITU-T's work on ICTs/Environment and Climate Change
[305-PLEN]	TSAG	LS - Updates on Electronic Working Methods Services and database applications
[306-PLEN] Q6/17	ITU-T Working Party 1/15	LS - LS on draft baseline text of G.hntreq "Requirements of transport functions in IP home network"
[307-PLEN]	ITU-T Working Party 1/15	LS - LS on new versions of the Access Network Transport (ANT) Standardization Plan and Work Plan
[339-PLEN] Q6/17	Associate Rapporteur Q.6/17, Rapporteur Q.7/17	Q.6, 7/17 meeting report (IPTV-GSI event, Geneva, 22 - 26 June 2009)
[340-PLEN] Q6/17	Editors	The 3rd draft text on ITU-T draft Recommendation for X.iptvsec-2: Functional requirements and mechanisms for secure transcodable scheme of IPTV (IPTV-GSI event, Geneva, 22 - 26 June 2009)
[341-PLEN] Q6/17	Editors	The 4th draft text on ITU-T draft Recommendation X.iptvsec-3 (IPTV-GSI event, Geneva, 22 - 26 June 2009)
[342-PLEN] Q6/17	Editors	Draft Recommendation X.iptvsec-5, SCP Service and content protection interoperability scheme (IPTV-GSI event, Geneva, 22 - 26 June 2009)
[343-PLEN] Q6/17	Rapporteur Q.6/17, Q.7/17, Associate Rapporteur Q.6/17	Report of Q.6 and Q.7/17 Interim meeting (Geneva, 29 June - 1 July 2009)
[344-PLEN] Q6/17	Editors	Draft Recommendation X.usnsec-1, Information technology - Security framework for ubiquitous sensor network (Geneva, 29 June-1 July 2009)
[345-PLEN] Q6/17	Editors	Draft Recommendation X.usnsec-2, Ubiquitous sensor network (USN) middleware security guidelines (Geneva, 29 June - 1 July 2009)
[346-PLEN]	Editors	Draft Recommendation X.usnsec-3: Secure routing mechanisms for

Document Number	Source	Title
Q6/17		wireless sensor network (Geneva, 29 June-1July 2009)
[348-PLEN]	TSB	Extract from the Action plan for implementation of WTSA-08 Resolutions regarding SG 17
[349-PLEN] Q6/17	Associate Rapporteur	Report of Q.6/17 interim meeting in Tokyo, 1-5 June 2009
[350-PLEN]	ITU-T FG FN	LS - Report of 1st Meeting Focus Group on Future Networks (FG-FN) (Lulea, Sweden, 29 June - 3 July 2009)
[351-PLEN]	JCA-NID	LS - LS to all JCA-NID liaison officers and ITU-T study groups on email lists and contact points
[352-PLEN]	JCA-Mgt	LS - Continuation of the JCA-Mgt
[353-PLEN] Q6/17	JCA-NID	LS - Information on USN terms and definitions
[358-PLEN] Q6/17	ITU-T WP2/16	LS - Reply LS to Q.6/17 and JCA-NID on USN security (COM 17-LS 11)
[368-PLEN] Q6/17	ISO/IEC JTC 1/SC 6	Draft Recommendation X.usnsec-1, Information technology - Security framework for ubiquitous sensor network (Tokyo, 1-5 June 2009) (Text for CD Ballot, 6N14015)
[376-PLEN]	TSB	Draft work programme for Working Parties and Questions
[377-PLEN]	TSB	Draft work programme for Working Parties and Questions
[379-PLEN]	TSB	Status of X-series Recommendations
[380-PLEN]	TSB	Status of Z-series Recommendations
[381-PLEN]	TSB	Status of E-and F- series Recommendations under the responsibility of SG 17
[383-PLEN]	TSB	Mapping between ISO/IEC Standards and ITU-T Recommendations
[385-PLEN]	TSB	Planned actions to be taken on Recommendations at the September 2009 SG 17 meeting
[386-PLEN]	TSB	Summaries for work items under development in Study Group 17
[387-PLEN]	TSB	Reply results to TSB Circular 25
[393-PLEN]	SG 17 Chairman	Highlights from Global Standards Coordination, GSC-14 meeting (Geneva, 13-16 July 2009)
[398-PLEN] Q6/17	ISO/IEC JTC 1/SC 6	Invitation letter of ISO/IEC JTC 1/SC 6 meeting, 18 -22 January 2010 in Barcelona, Spain
[404-PLEN]	TSB	ISO/IEC/ITU-T Strategic Advisory Group on Security (SAG-S): Strategy (Draft 3b - 24 August 2009)
[413-PLEN]	SG 17 delegate to MoU-MG on e-business	Excerpts from the report of the 22nd meeting of the management group of the ISO-IEC-ITU-UN/ECE Memorandum of Understanding on e-business, 15 - 16 April 2009, Geneva, Switzerland
[414-PLEN]	SG 17 Chairman	Director, Telecommunication Standardization Bureau
[419-PLEN]	Director, Telecommunication Standardization Bureau	IEC/ISO/ITU-T Agreement on Distribution of Identical Recommendations | International Standards ((ITU-T) ISO/IEC Common Text)
[420-PLEN]	SG 17 Chairman	Reply to the Director of TSB on Implementation of WTSA-08 Resolution 76: instructions to the ITU-T Study Groups

Document Number	Source	Title
[421-PLEN] Q6/17	ISO/IEC JTC 1/SC 6	LS - Calling notice and draft agenda of the ISO/IEC JTC 1/SC 6/WG 7 interim meeting with ITU-T Q.6/17 on USN security issues, September 21-22, 2009 in Switzerland, Geneva (N14057)
[425-PLEN]	SG 17 Chairman	Highlights from TSAG meeting (Geneva, 28-30 April 2009)
[434-PLEN]	TSB	Tutorials and other presentations arranged during this SG 17 meeting
[435-PLEN]	SG 17 Chairman	Handling of input documents addressed to All/17
[440-PLEN]	TSB	Mapping of Recommendations to Questions
[441-PLEN]	TSB	Organization of ITU-T X-series Recommendations
[442-PLEN]	TSB	Organization of ITU-T Z-series Recommendations
[445-PLEN]	TSB	SG 17 relationships with ISO, IEC and ISO/IEC JTC 1
[470-PLEN] Q6/17	Editors	Amendment to X.msec-5: Security aspects of mobile multi-homed communications. Proposal for the 2nd draft text of X.msec-5: Security aspects of mobile multi-homed communications
[479-PLEN] Q6/17	ITU-T SG11	LS - Reply LS for collaboration for development of NID/USN test specifications
[511-PLEN] Q6/17	ISO/IEC JTC 1/SC 6	Summary of Voting on SC 6N14015, Text for CD ballot, ISO/IEC 29180, Security framework for sensor network (N14068)
[517-PLEN] Q6/17	ITU-T SG 13	LS - Information about consented Y.2221 (formerly Y.USN-Reqts)
[518-PLEN] Q6/17	ITU-T SG 13	LS - New draft Recommendation Y.iptvterms (Terms and definitions for IPTV)
[519-PLEN] Q6/17	ITU-T SG 13	LS - LS on approval of ITU-T Recommendation Y.2007

4 Meeting results

The Q.6/17 Rapporteur, Jonghyun Baek and Associate Rapporteur, Yutaka Miyake chaired the meeting. 75 documents were addressed at the meeting. The documents can be classified into the following areas: IPTV security, NID/USN security, Multicast security, Mobile security, plenary-related temporary documents including Q.6/17 specific temporary documents.

4.1 Agreements reached

4.1.1 General

The Q.6/17 meeting agenda was confirmed as in TD0428 Rev.2. Meeting report of Q.6/17 (Geneva, 11-20 February 2009, TD0212 Rev.5), Meeting report of Q.6 and Q.7/17 at IPTV-GSI event (Geneva, 22-26 June 2009, TD0339), Interim meeting report of Q.6 and Q.7/17 (Geneva, 29 june-1 July 2009, TD0343) and Interim meeting report of Q.6/17 (Tokyo, 1-5 June 2009) were reviewed. The action plan of Q.6/17 was updated as in Meeting report of Q.6 (TD0660Rev.3), reflecting current status of Q.6/17 activities. The summaries for recommendations under development were updated as in TD0597 Rev.1.

4.1.2 Joint Meeting with ISO/IEC JTC 1/SC 6/WG 7 on USN and Multicast security

TD0344/TD0368/C125/TD511, X.usnsec-1: Security framework for USN

TD0344 is a baseline document for X.usnsec-1, which is an output of interim meeting (Geneva, 22-26 June 2009). TD0368 is a same document with TD0344 which is an output of interim meeting (Tokyo, 1-5 June 2009).

C125 proposes updated text on ITU-T X.usnsec-1|ISO CD 29180, *Security framework for ubiquitous sensor network*. After some discussions, the meeting agreed to;
- Reflect the CD ballot voting result to text on ITU-T X.usnsec-1|ISO CD 29180 as many as possible.
- Un-resolved comments from SOV(TD0511) and France Telecom Orange will be reflect to next revised text on ITU-T X.usnsec-1|ISO CD 29180 for next joint meeting with ISO/IEC JTC 1/SC6/WG7 on 18-22 January 2010, Spain or April 2010 SG17 meeting.

TD0511 provides comments of CD ballot voting for the text on ITU-T X.usnsec-1|ISO CD 29180, *Security framework for ubiquitous sensor network*. After reviewed the document, the meeting agreed to;
- Develop Preliminary disposition of comments (DOC) for resolved CD ballot voting result.

The TD0534Rev.1 (Revised C125) was published as baseline document of X.usnsec-1 for further discussion. And TD0535Rev.1 (Preliminary DOC) also was published.

For further collaboration, the meeting agreed to make a LS (TD0648) to inform of other USN security series Recommendations such as X.usnsec-2, X.usnsec-3.

C143, X.mcsec-1: Security requirements and framework for multicast communication

C143 proposes revised text for multicast security requirements and framework. After some discussion, the meeting agreed to;
- Correct typo errors in text.

The TD0580 was published as a baseline document of X.mcsec-1 for final draft recommendation. Considering maturity Q.6/17 decided to consent this Recommendation at the April 2010 SG17 meeting.

4.1.3 Mobile security

C92, Comments on X.msec-5: Security aspects of mobile multi-homed communications

C92 proposes comments for TD0194 (Baseline document for the first draft text of X.msec-5: Security aspects of mobile multi-homed communications). After some discussion, the meeting agreed to reflect the proposals in C92 to X.msec-5 for further discussion.

C172, X.msec-5: Security aspects of mobile multi-homed communications

C172 proposes the revised draft text for X.msec-5, *Security aspects of mobile multi-homed communications*. After some discussions, the meeting agreed to reflect comments on C92. Q.6/17 also decided to amend the title ("Security Requirements and Mechanism for reconfiguration of mobile device with multiple communication interfaces") and scope for further discussion. The TD0470 Rev.2 was published as a baseline document of X.msec-5.

C162, Proposal for a new work item on overview of security threats to and security mechanisms for smart phones

C162 proposes a new work item on overview of security threats to and security mechanisms for smart phones. After some discussions, the meeting agreed to set up the new work item with X.msec-6, *Security aspects of smart phones* and assigned Mr. Luo, Mr. Li, Mr. Liu, Mr. Yuan as editor for X.msec-6. Existing work in 3GPP SA3, GSMA Security & OMTP shall be taken into account.

TD0645Rev.2 was published as a baseline document of X.msec-6 for further discussion.

4.1.4 NID/USN security

TD0345/C134, X.usnsec-2: USN middleware security guidelines

TD0345 is a baseline document for X.usnsec-2, which is an output of interim meeting (Geneva, 22-26 June 2009).

C134 proposes revised draft Recommendation X.usnsec-2, *USN middleware security guidelines*. After some discussion, the meeting agreed to;

- Add security requirements for secure USN services in clause 8.
- Add security threats for USN middleware on Table 1 in clause 9.3.

TD0578 was published as a baseline document for X.usnsec-2 for further discussion.

TD0346/C117, X.usnsec-3: Secure routing mechanisms for wireless sensor network

TD0346 is a baseline document for X.usnsec-3, which is an output of interim meeting (Geneva, 22-26 June 2009).

C117 proposes revised text for clause 9 on the draft Recommendation X.usnsec-3, *Secure routing mechanisms for wireless sensor network*. After some discussion, the meeting agreed to;

- Change the sentence in clause 9 from "~ against attacks such as spoofed routing information, selective forwarding attack, Sybil attack, and so on." to "~ against attacks described in clause 8".
- Add abbreviations and acronyms in clause 4 such as SPIN, RTLS, etc.
- Change the title of clause 9.1.5 and 9.2.5 to keep synchronization with other requirements in clause 9.1.
- Add security requirements for WSN environment in clause 9.1.

TD0630 was published as a baseline document for X.usnsec-3 for further discussion.

4.1.5 IPTV security

TD0342/C142, X.iptvsec-5: Service and content protection interoperability scheme

TD0342 is a baseline document for X.iptvsec-5, which is an output of interim meeting (Geneva, 22-26 June 2009).

Revised version of C142, which was posted in ITU-T internal FTP site, proposes to add some clauses (7.2.2.3, 7.2.3.4 and 7.2.4.1) and modify the clause 7.1.1 based on TD0342, *Draft Recommendation X.iptvsec-5, SCP interoperability scheme (22-26 June 2009)*. After some discussion, the meeting agreed to;

- Reflects the proposal of C142 X.iptvsec-5.
- Consider including TLS or other authentication protocols in X.iptvsec-5.
- Clarify the authentication functions in clause 7.2.2.

TD0553 was published as a baseline document for X.iptvsec-5.

C163/C98R1/C169, X.iptvsec-4: Algorithm selection scheme for SCP descrambling

C163 is a check-list of X.iptvsec-4. After some discussions, Q.6/17 agreed to publish it as temporary document for information.

TD0571 was published as a baseline document for check-list of X.iptvsec-4.

C98 Rev.1 update proposal of X.iptvsec-4. It also explains the traditional service protection and its problem for understanding this contribution. After some discussion, the meeting agreed to;

- Reflects the proposal of C98Rev.1 in X.iptvsec-4.
- Replace 'Annex' by 'Appendix'.

- Replace the title of clause 6 by 'Introduction'.
- Use a full name of 'SCP' in this draft Recommendation title.
- Replace 'X.iptvsec-1' by 'X.1191'.

C169 proposes use cases for X.iptvsec-4. After some discussion, the meeting agreed to;

- Reflects the proposal of this contribution in X.iptvsec-4.
- Adjust the clause numbers and scenarios numbers of Appendix I for clarification.

TD0570 was published as a baseline document for X.iptvsec-4.

TD341/C124/C127/C150, X.iptvsec-3: Key management framework for secure IPTV services

TD0341 is a baseline document for X.iptvsec-3, which is an output of interim meeting (Geneva, 22-26 June 2009).

C124/C127 proposes the draft text on ITU-T draft Recommendation X.iptvsec-3.

C150 proposes modification of the latest draft recommendation X.iptvsec-3 (TD 228 (IPTV-GSI) i.e., the 4th draft text on ITU-T draft recommendation X.iptvsec-3).

After some discussion, the meeting agreed to publish TD0586 including following updates;

- Delete sentences and clause related to personal broadcast service at text of X.iptvsec-3.
- Add 'group member' to Terms and Definitions.
- Add 'rekey' to Terms and Definitions.
- Replace secure channel by secure session.
- Replace specific requirement by functional requirement.

TD0586 was published as a baseline document for X.iptvsec-3.

TD340, C132, X.iptvsec-2: Functional Requirements and mechanisms for Secure Transcodable Scheme of IPTV

TD0340 is a baseline document for X.iptvsec-2, which is an output of interim meeting (Geneva, 22-26 June 2009).

C132 proposes the revised text of clause 8 in X.iptvsec-2 based on TD 0340 Rev.1. After some discussion, the meeting agreed to;

- Update the second sentence of first bullet in clause 8.1.1 for clarification.
- Revise the 'part' to proper and understanding word in clause 8.1.2.
- Revise the 'should be able' to 'is recommended' in clause 8.4.
- Add some understanding sentence on network status in clause 8.7.

TD0581 was published as a baseline document for X.iptvsec-2.

TD168, Comments on TD 0283 (LS - Standard PKI certificate format - Interoperability specification (ATIS-0800016))

C168 proposes the comments on TD 0283 (LS - Standard PKI certificate format - Interoperability specification (ATIS-0800016)).

After some discussion, the meeting agreed to publish LS (TD0664Rev.2) to ATIS IIF base on C168, TD0283.

4.1.6   Other issues

TD0413, Excerpts from the report of the 22nd meeting of the management group of the ISO-IEC-ITU-UN/ECE Memorandum of Understanding on e-business, 15 - 16 April 2009, Geneva, Switzerland

The meeting decided to send following information to liaison officier to SG17 (Mr. Dubuisson) for MoU information;

"To provide secure e-commerce services using USN (ubiquitous sensor network), service operators should consider the security threats to sensor network described in X.usnsec-1|ISO CD 29180 which is underdevelopment. The efficient security solutions to minimize the various types of threats should be deployed for e-commerce service built on USN. In addition, it is insufficient to protect e-commerce services and infrastructure against threats by technical mean, it requires establishing tight security policy to handle those threats by adopting the ISMS(information security management system) for their organization, which has been developed as ISO 27000 series standards by ISO/IEC JTC 1. Moreover, in order to facilitate interoperable service infrastructure, it is urgently required to develop a set of security standards."

SmartGrid security issue

Q.6/17 discussed the possibility to include action item on SmartGrid security as follows:

Q.6/17 intends to initiate activity on SmartGrid security. Members were encouraged to attend correspondence group on SmartGrid security and submit contributions to next study group meeting.

SmartGrid security:
- Identify threats behind SmartGrid services, and set up technical counter-measures to handle them.
- Study general security policy technologies for SmartGrid services.
- Study and develop Recommendations for a security framework, security protocols, and security mechanisms for SmartGrid services.
- Coordinate SmartGrid security activities with other SDOs.
- Produce new ITU-T Recommendations and Consent new ITU-T Recommendations under development for SmartGrid security.

4.1.7 Actions on incoming liaison statements and plenary-related TDs

- **TD0283** on Standard PKI certificate format - Interoperability specification (ATIS-0800016); The meeting agreed to publish a Reply LS (TD0664Rev.2) to ATIS IIF on Standard PKI certificate format - Interoperability specification (ATIS-0800016)..
- **TD0292** on Leading role of SG2 on Service definition; The meeting agreed to take no action.
- **TD0294** on Definition of Nomadic, Nomadicity and Nomadism; The meeting agreed to take no action.
- **TD0295** on List SG 2 Report and Request in its role as Lead SG on Telecommunication Management; The meeting agreed to take no action.
- **TD0296** on Draft LS to TSAG on the continuation of the JCA-AHF in the New Study Period (2009 - 2012) with revised terms of reference; The meeting agreed to take no action.
- **TD0297** on Request for review of Recommendations for identification of terms and definitions; The meeting agreed to take no action.
- **TD0298** on Study Group 2 Action Plan: Group for Issues Related to Developing Countries; The meeting agreed to take no action.
- **TD0300** on Continuation of JCA-Mgt; The meeting agreed to take no action.
- **TD0303** on Standardization Activities for Intelligent Transport Systems (ITS); The meeting agreed to take no action.

- **TD0304** on Continuation of ITU-T's work on ICTs/Environment and Climate Change; The meeting agreed to take no action.
- **TD0305** on Updates on Electronic Working Methods Services and database applications; The meeting agreed to take no action.
- **TD0306** on LS on draft baseline text of G.hntreq "Requirements of transport functions in IP home network"; The meeting agreed to decided to publish LS as TD0649 for further collaboration.
- **TD0307** on LS on new versions of the Access Network Transport (ANT) Standardization Plan and Work Plan; The meeting agreed to take no action.
- **TD0339** on Q.6, 7/17 meeting report (IPTV-GSI event, Geneva, 22 - 26 June 2009); The meeting agreed to take no action.
- **TD0343** on Report of Q.6 and Q.7/17 Interim meeting (Geneva, 29 June - 1 July 2009); The meeting agreed to take no action.
- **TD0348** on LS Extract from the Action plan for implementation of WTSA-08 Resolutions regarding SG 17; The meeting agreed to take no action.
- **TD0349** on Report of Q.6/17 interim meeting in Tokyo, 1-5 June 2009; The meeting agreed to take no action.
- **TD0350** on Report of 1st Meeting Focus Group on Future Networks (FG-FN) (Lulea, Sweden, 29 June - 3 July 2009); The meeting agreed to take no action.
- **TD0351** on LS to all JCA-NID liaison officers and ITU-T study groups on email lists and contact points; The meeting agreed to take no action.
- **TD0352** on Continuation of the JCA-Mgt; The meeting agreed to take no action.
- **TD0353** on Information on USN terms and definitions; The meeting agreed to decided to publish LS as TD0650Rev.1 for further collaboration.
- **TD0358** on Reply LS to Q.6/17 and JCA-NID on USN security (COM 17–LS 11); The meeting agreed to take no action.
- **TD0376** on Draft work programme for Working Parties and Questions; The meeting agreed to take no action.
- **TD0377** on Draft work programme for Working Parties and Questions; The meeting agreed to take no action.
- **TD0379** on Status of X-series Recommendations; The meeting agreed to take no action.
- **TD0380** on Status of Z-series Recommendations; The meeting agreed to take no action.
- **TD0381** on Status of E-and F- series Recommendations under the responsibility of SG 17; The meeting agreed to take no action.
- **TD0383** on Mapping between ISO/IEC Standards and ITU-T Recommendations; The meeting agreed to take no action.
- **TD0385** on Planned actions to be taken on Recommendations at the September 2009 SG 17 meeting; The meeting agreed to take no action.
- **TD0386** on Summaries for work items under development in Study Group 17; The meeting agreed to no comments for this document. However, developed TD document for summary of recommendation.
- **TD0387** on Reply results to TSB Circular 25; The meeting agreed to take no action.
- **TD0393** on Highlights from Global Standards Coordination, GSC-14 meeting (Geneva, 13-16 July 2009); The meeting agreed to take no action.

- **TD0398** on Invitation letter of ISO/IEC JTC 1/SC 6 meeting, 18 -22 January 2010 in Barcelona, Spain; The meeting agreed to take no action.
- **TD0404** on ISO/IEC/ITU-T Strategic Advisory Group on Security (SAG-S): Strategy (Draft 3b - 24 August 2009); The meeting agreed to take no action.
- **TD0413** on Excerpts from the report of the 22nd meeting of the management group of the ISO-IEC-ITU-UN/ECE Memorandum of Understanding on e-business, 15 - 16 April 2009, Geneva, Switzerland; The meeting agreed to take no action.
- **TD0414** on Director, Telecommunication Standardization Bureau; The meeting agreed to take no action.
- **TD0419** on IEC/ISO/ITU-T Agreement on Distribution of Identical Recommendations | International Standards ((ITU-T) ISO/IEC Common Text); The meeting agreed to take no action.
- **TD0420** on Reply to the Director of TSB on Implementation of WTSA-08 Resolution 76: instructions to the ITU-T Study Groups; The meeting agreed to take no action.
- **TD0421** on LS - Calling notice and draft agenda of the ISO/IEC JTC 1/SC 6/WG 7 interim meeting with ITU-T Q.6/17 on USN security issues, September 21-22, 2009 in Switzerland, Geneva (N14057); The meeting agreed to take no action.
- **TD0425** on Highlights from TSAG meeting (Geneva, 28-30 April 2009); The meeting agreed to take no action.
- **TD0434** on Tutorials and other presentations arranged during this SG 17 meeting; The meeting agreed to take no action.
- **TD0435** on Handling of input documents addressed to All/17; The meeting agreed to take no action.
- **TD0440** on Mapping of Recommendations to Questions; The meeting agreed to take no action.
- **TD0441** on Organization of ITU-T X-series Recommendations; The meeting agreed to take no action.
- **TD0442** on Organization of ITU-T Z-series Recommendations; The meeting agreed to take no action.
- **TD0445** on SG 17 relationships with ISO, IEC and ISO/IEC JTC 1; The meeting agreed to take no action.
- **TD0479** on Reply LS for collaboration for development of NID/USN test specifications; The meeting agreed to take no action.
- **TD0517** on Information about consented Y.2221 (formerly Y.USN-Reqts); The meeting agreed to take no action.
- **TD0518** on New draft Recommendation Y.iptvterms (Terms and definitions for IPTV); The meeting agreed to take no action.
- **TD0519** on LS on approval of ITU-T Recommendation Y.2007; The meeting agreed to take no action.

4.2   Action and plan on Recommendations

4.2.1   Recommendations for approval at this SG 17 meeting

Q.	Acronym	Title	Editor	Location of text	Equivalent e.g., ISO/IEC	Timing
	None					

4.2.2 Recommendations for consent or determination at this SG 17 meeting

Q.	Acronym	Title	Editor	Location of text	Equivalent e.g., ISO/IEC	Timing
	None					

4.2.3 Recommendations planned for consent at the April 2010 SG 17 meeting

Q.	Acronym	Title	Editor	Location of text	Equivalent e.g., ISO/IEC	Timing
6	X.mcsec-1	Security Requirement and Framework for Multicast communication	Miyeon Yoon, Heung Youl Youm	TD0580		2010-04

4.2.4 Recommendations planned for consent or determination later in the study period

Q.	Acronym	Title	Editor	Location of text	Equivalent e.g., ISO/IEC	Timing
6	X.iptvsec-2	Functional requirements and mechanisms for secure transcodable scheme of IPTV	Jae Hoon Nah	TD 0581		2010-12
6	X.iptvsec-3	Key management framework for secure IPTV services	Heung Youl Youm	TD 0586		2010-12
6	X.iptvsec-4	Algorithm selection scheme for service and content protection (SCP) descrambling	Jongyoul Park Nhut Nguyen	TD 0570 TD 0571		2010-12
6	X.iptvsec-5	Service and content protection (SCP) interoperability scheme	KisongYoon, Dong Wang	TD 0553		2010-12
6	X.msec-5	Security aspects of mobile multi-homed communications	Guntae Bae, Gaeil Ahn, Kiyoung Kim	TD 0580		2010-12
6	X.msec-6	Security aspects of smart phones	Hongwei Luo, Wei Li, Lijun Liu, Qi Yuan	TD 0645Rev.1		2011-4Q
6	X.usnsec-1	Security framework for ubiquitous sensor network	Heung Youl Youm, Eunyoung Choi	TD 0534Rev.1 TD 0535Rev.1	ISO/IEC 29180	2011-1Q
6	X.usnsec-2	Ubiquitous sensor network (USN) middleware security guidelines	Mi Joo Kim, Namjae Park, Miyeon Yoon	TD 0578		2010-12
6	X.usnsec-3	Secure routing mechanisms for wireless sensor network	Eunyoung Choi	TD 0630		2010-12

4.3 Liaison statements

The table below summarizes the liaison activities of Q.6/17.

Incoming Liaisons		Outgoing Liaisons

TD No.	Source	For I/A	Title or Subject	Q.	To	For I/A	Title or subject	TD No.
TD0283	ATIS IIF	I	LS - Standard PKI certificate format - Interoperability specification (ATIS-0800016)	6, 7, 11/17	ATIS IIF	I	Reply LS on Standard PKI certificate format - Interoperability specification (ATIS-0800016)	TD0664 Rev.2
TD0292	ITU-T SG 2	A	Leading role of SG2 on Service definition	All/17				
TD0294	ITU-T SG 2	A	Definition of Nomadic, Nomadicity and Nomadism	All/17				
TD0295	ITU-T SG 2	A	SG 2 Report and Request in its role as Lead SG on Telecommunication Management	SGs 9, 11, 12, 13, 15, 16 & 17				
TD0296	ITU-T SG 2	I	Draft LS to TSAG on the continuation of the JCA-AHF in the New Study Period (2009 – 2012) with revised terms of reference	All/17				
TD0297	ITU-T SG 2	A	Request for review of Recommendations for identification of terms and definitions	All/17				
TD0298	ITU-T SG 2	A	Study Group 2 Action Plan: Group for Issues Related to Developing Countries	All/17				
TD0300	ITU-T SG 2	I	Continuation of JCA-Mgt	All/17				
TD0303	TSAG	I	Standardization Activities for Intelligent Transport Systems (ITS)	All/17				

TD0304	TSAG	A	Continuation of ITU-T's work on ICTs/Environment and Climate Change	All/17				
TD0305	TSAG	C	Updates on Electronic Working Methods Services and database applications	All/17				
TD0306	ITU-T WP 1/15	A	LS on draft baseline text of G.hntreq "Requirements of transport functions in IP home network"	6/17	ITU-T SG 1/15	I	Reply LS to SG15 on G.hntreq	TD0649
TD0307	ITU-T WP 1/15	A	LS on new versions of the Access Network Transport (ANT) Standardization Plan and Work Plan	All/17				
TD0350	ITU-T FG FN	I	Establishment of Focus Group on Future Networks (FG-FN)	All/17				
TD0351	JCA-NID	A	LS on single contact points for NGN-related works in each Study Group	All/17				
TD0352	JCA-Mgt	A	Liaison response on Q.6/17 work plan for trusted service provider identity (SPID) Recommendations	6/17				
TD0353	JCA-NID	A	Information on USN terms and definitions	6/17	JCA-NID	I	LS to JCA-NID on Information on USN terms and definitions	TD0650 Rev.1
TD0358	ITU-T WP2/16	I	Reply LS to Q.6/17 and JCA-NID on USN security (COM 17–LS 11)	6/17				

TD0421	ISO/IEC JTC1/SC 6	I	LS - Calling notice and draft agenda of the ISO/IEC JTC 1/SC 6/WG 7 interim meeting with ITU-T Q.6/17 on USN security issues, September 21-22, 2009 in Switzerland, Geneva (N14057)	6/17				
TD0517	ITU-T SG13	I	Information about consented Y.2221 (formerly Y.USN-Reqts)	6/17				
TD0518	ITU-T SG13	C	New draft Recommendation Y.iptvterms (Terms and definitions for IPTV)	6/17				
TD0519	ITU-T SG13	I	LS on approval of ITU-T Recommendation Y.2007	6/17				
					ISO/IEC JTC1/SC6/ WG7	I	LS to ISO/IEC JTC1/SC6/WG7 on USN security Recommendations	TD0648

4.4   Action plan

4.4.1   Objectives

Mobile security and home network security:
– Identify threats behind mobile communications or home network services, and set up technical counter-measures to handle them.
– Study general security policy technologies for end-to-end mobile communications or home network communications.
– Study general security value added services for mobile communications or home network communications.
– Study a security framework and comprehensive security solutions in the emerging mobile network including home network.
– Coordinate mobile and home network security activities with ISO/IEC JTC 1, ITU-T JCA-HN, 3GPP, 3GPP2 or other groups.
– Maintain existing mobile/home network security-related Recommendations, such as X.1111, X.1112, X.1113, X.1114, X.1121, X.1122, X.1123, X.1124 and X.1125.
– Produce new ITU-T Recommendations and Consent ITU-T Recommendations under development for secure mobile or home network communications.

NID/USN security:

– Identify threats behind NID/USN services, and set up technical counter-measures to handle them.
– Study general security policy technologies and issues on PII (Personally Identifiable Information) protection for NID/USN services.
– Study lightweight security technologies using ECC and other algorithms for all protocol layers including wireless MAC/PHY layers for secure NID/USN services.
– Study and recommend a NID/USN-oriented security framework, lightweight security protocols and mechanisms for NID/USN services including authentication protocols, protection framework and guidelines for PII, etc.
– Coordinate NID/USN security activities with ISO/IEC JTC 1, ITU-T JCA-NID or other groups.
– Maintain existing NID/USN security Recommendations, such as X.1171.
– Produce new ITU-T Recommendations and Consent ITU-T Recommendations under development for NID/USN security.

Multicast security:
– Identify threats behind Multicast services, and set up technical counter-measures to handle them.
– Study general security policy technologies for Multicast services.
– Study and recommend a multicast security framework, security protocols, and security mechanisms for multicast communication services including membership authentication/authorization protocols, group management protocols, etc.
– Coordinate multicast security activities with ISO/IEC JTC 1, IETF or other SDOs.
– Produce new ITU-T Recommendations and Consent ITU-T Recommendations under development for secure multicast communications.

IPTV security:
– Identify threats behind IPTV services, and set up technical counter-measures to handle them.
– Study general security policy technologies for IPTV services.
– Study and develop Recommendations for a security framework, security protocols, and security mechanisms for IPTV services.
– Coordinate IPTV security activities with IPTV-GSI, ETSI, ATIS, TTC, TTA, CCSA or other SDOs.
– Produce new ITU-T Recommendations and Consent new ITU-T Recommendations under development for IPTV security.

4.4.2 Relationships

Study Groups: ITU-T SGs 9, 11, 13 and 16; JCA-NID, JCA-HN, JCA-IPTV; ITU-R
Standardization bodies: ISO/IEC JTC 1/SCs 6, 25, 27 and 31; IETF; 3GPP; 3GPP2; OMA
Other bodies: ETSI; ATIS; TTC; TTA; CCSA

4.4.3 Work programme and milestones

Draft Recommendation	First/next draft	Final draft	Consent
X.iptvsec-2	2009-09	2010-12	2010-12
X.iptvsec-3	2009-09	2010-12	2010-12
X.iptvsec-4	2009-09	2010-12	2010-12
X.iptvsec-5	2009-09	2010-12	2010-12

X.mcsec-1	2007-09	2010-04	2010-04
X.msec-5	2009-09	2010-12	2010-12
X.usnsec-1	2009-02	2010-12	2011-1Q
X.usnsec-2	2009-09	2010-12	2010-12
X.usnsec-3	2009-09	2010-12	2010-12

4.5   Summaries of Recommendations

Revised summaries of the Recommendations were given in TD0597 Rev.1

4.6   Future meetings

Ongoing work will be progressed by correspondence and email discussion.

Q.6/17 will have a joint meeting with ISO/IEC JTC 1 SC6/WG7 on USN security during 18-22 January 2010 ISO/IEC JTC 1 SC6 meeting at Barcelona, Spain.

Q.6/17 will hold a Rapportures group meeting on 27-29 January 2010 at Tokyo, Japan.

Q.6/17 will meet on April 2010 during Geneva SG17 meeting.

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