Telecommunications and Information Exchange Between Systems

ISO/IEC JTC 1/SC 6

Document Number:	N14258
Date:	2010-04-09
Replaces:	
Document Type:	Meeting Report
Document Title:	Meeting report of the JTC 1/SC 6/WG 7 and ITU-T Q.6/17 collaborative meeting on USN Security, 18-22 January 2010 in Barcelona, Spain
Document Source:	SC 6/WG 7 Convenor
Project Number:	
Document Status:	For your information.
Action ID:	FYI
Due Date:	
No. of Pages:	7

Title: Report of the JTC 1/SC 6/WG 7 and ITU-T Q.6/17 collaborative meeting on USN Security, 18-22 January 2010 in Barcelona, Spain

Source: Shin-Gak Kang (SC 6/WG 7 Convenor)

1   Documents considered

Doc. No	Reference	Title
6N14015		Text for CD ballot, ISO/IEC 29180, Security framework for sensor network
6N14057		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
6N14067		Calling notice and draft agenda for the ISO/IEC JTC 1SC 6/WG 7 and ITU-T Q.15/11 and Q.6/17 collaborative meeting, 18-22 January 2010 in Barcelona, Spain
6N14068		Summary of Voting on SC 6N14015, Text for CD ballot, ISO/IEC 29180, Security framework for sensor network
6N14093	COM13-LS 76	Liaison Statement from ITU-T SG 13 to ISO/IEC JTC 1/SC 6 on sensor networks security
6N14118	COM17–LS 59	Liaison Statement from ITU-T SG 17 to ISO/IEC JTC 1/SC 6/WG 7 on the USN security
6N14120	COM13-LS 76	Liaison Statement from ITU-T SG 13 to ISO/IEC JTC 1/SC 6/WG 7 on the reply to LS on sensor networks security
6N14130	COM16–LS 114	Liaison Statement from ITU-T SG 16 to ISO/IEC JTC 1/SC 6/WG 7 on the reply to LS on sensor networks security
6N14196	SG17/TD 0534 Rev.1	Revised Text of ITU-T X.usnsec-1	ISO/IEC CD 29180, Security framework for sensor networks
6N14197	SG17/TD 0535 Rev.1	DoC on 6N14015, Text for CD ballot, ISO/IEC 29180, Security framework for sensor network
6N14198	SG17/TD 0660 Rev.3	Report on WG7 Interim Meeting with ITU-T Q.6/17 (September 2009)
7BCN-04	SG17/TD 0349	Report of ITU-T Q.6/17 Interim meeting with JTC1/SC6/WG7 on Security (June 2009)
7BCN-10		Security reference model for sensor network
7BCN-11		Security Specification in some WSN protocols

2.   Meeting Generals

ISO/IEC JTC 1/SC 6/WG 7 had a collaborative meeting with ITU-T Q.6/17 on USN security issues under the chairmanship of WG 7 Convenor, Mr. Shin-Gak Kang (ETRI) during the SC 6 meeting period, 18-22 January 2010 in Barcelona, Spain. The objectives of this Collaborative meeting are as shown below:

- Review of previous collaborative meeting results

- Review of CD ballot result on ITU-T X.usnsec-1 | ISO/IEC CD 29180, Security framework for sensor networks

- Consideration of Liaison matters with other relevant groups on Sensor Network Security

- Consideration of input contributions on Sensor Network Security

- Development of ITU-T X.usnsec-1 | ISO/IEC CD 29180 for further progression

- Establish future collaborative work plan

3.   Meeting Results on USN Security Issues

3.1   Review of previous meeting reports

7BCN-04	SG17/TD 0349	Report of ITU-T Q.6/17 Interim meeting with JTC1/SC6/WG7 on Security (June 2009)
6N14198	SG17/TD 0660 Rev.3	Report on WG7 Interim Meeting with ITU-T Q.6/17 (September 2009)

The results of previous joint meeting which was held in September 2009 had been presented by the Convenor in brief.

3.2   Review of Ballot resolution results on ISO/IEC CD 29180

6N14015		Text for CD ballot, ISO/IEC 29180, Security framework for sensor network
6N14068		Summary of Voting on SC 6N14015, Text for CD ballot, ISO/IEC 29180, Security framework for sensor network
6N14197	SG17/TD 0535 Rev.1	DoC on 6N14015, Text for CD ballot, ISO/IEC 29180, Security framework for sensor network

It was noted that first CD ballot had been successfully completed as shown in SC6 N14068, summary of voting on 6N14015. Every ballot comments had been resolved at the collaborative meeting in September 2009. Disposition of comments are contained in 6N14197 (SG17 TD 0535 Rev.1).

3.3   Review of revised text of ITU-T X.usnsec-1 | ISO/IEC CD 29180

6N14196	SG17/TD 0534 Rev.1	Revised Text of ITU-T X.usnsec-1	ISO/IEC CD 29180, Security framework for sensor networks

The meeting reviewed revised text of ITU-T X.usnsec-1 | ISO/IEC CD 29180 which is an output document of collaborative meeting in September 2009. There was no additional work on this revised text on security framework for sensor network. It was noted current text of ITU-T X.usnsec-1 | ISO/IEC CD 29180 is quite stable in technical aspects. So the meeting agreed to request advance authorization of Final CD ballot based on the result of next collaborative meeting in April 2010.

3.4   Consideration of input documents

7BCN-10	China	Security reference model for sensor network

This contribution describes security reference model for wireless sensor network. The reference model of sensor network security can be divided into three parts as Data-based security, Network-based security, and Node-based security.

It was mentioned that current text of ITU-T X.usnsec-1 | ISO/IEC CD 29180, Security framework for sensor networks needs to incorporate additional security aspects which are described in 7BCN-10. Chinese expert had expressed his intention that he will submit further contribution on the security reference model to update current text of security framework on sensor network. The meeting encouraged Chinese expert to submit further contribution for this work.

7BCN-11	China	Security Specification in some WSN protocols

Chinese expert presented about current activities of relevant standard organizations on sensor network security. It is an informative document that provides good summary of relevant activities on sensor network security.

3.5   Future work plan on Security Framework for Sensor Network

The meeting discussed about the future work plan for development of ITU-T X.usnsec-1 | ISO/IEC CD 29180, Security framework for sensor networks. The meeting agreed to progress the work as shown below:

- Further development of revised ITU-T X.usnsec-1 | ISO/IEC CD 29180 in April 2010 collaborative meeting.

- Final CD ballot processing based on the result of April 2010 meeting

- Review of FCD ballot result in September 2010 meeting

- ITU-T SG 17 Consent in December 2010 meeting

3.6   Liaison matters with relevant groups

6N14093	COM13-LS 76	Liaison Statement from ITU-T SG 13 to ISO/IEC JTC 1/SC 6 on sensor networks security

6N14118	COM17–LS 59	Liaison Statement from ITU-T SG 17 to ISO/IEC JTC 1/SC 6/WG 7 on the USN security
6N14120	COM13-LS 76	Liaison Statement from ITU-T SG 13 to ISO/IEC JTC 1/SC 6/WG 7 on the reply to LS on sensor networks security
6N14130	COM16–LS 114	Liaison Statement from ITU-T SG 16 to ISO/IEC JTC 1/SC 6/WG 7 on the reply to LS on sensor networks security

The meeting reviewed Liaison statement from ITU-T SG 13, SG 16 and SG 17 on sensor network security issues. It was noted that every input liaison statements are informative and they are response to our liaison request that were sent to relevant groups in the previous meeting. No action was required at this meeting because there was no big progress to exchange information with relevant groups.

4.   Future meetings

The meeting agreed to have a collaborative meeting schedule on sensor network security issues as below:

- Collaborative meeting during ITU-T SG 17 meeting: 8~9 April 2010 (Geneva)

- Collaborative meeting during JTC1/SC6 meeting: 17 Sept. ~ 1 Oct. 2010 (London)

Attachment 1: SC 6/WG 7 Resolutions related to Collaborative meeting with ITU-T Q.6/17

Attachment 2: Participants List of SC 6/WG 7 meeting

<Attachment 1>

SC 6/WG 7 Resolutions related to Collaborative meeting with ITU-T Q.6/17

Resolution 6.7.1 Interim Working Group Meetings

SC 6 approves the interim Working Group meetings of SC 6/WG 7 to be held jointly with ITU-T SG 17 and ITU-T SG 11, respectively. The meetings will be co-located with the ITU-T meetings as listed below to cover all joint work. Outputs from the interim meetings will be provided to the SC 6 Secretariat.

ITU-T SG	Venue	Date	Topics
SG 17	Geneva	2010-04-08 to 09	Security framework for Sensor Networks and Multicast Security
SG 11	Geneva	2010-04-26 to 30	Multicast

- **Approved**

Resolution 6.7.9   Approval of Disposition of Comments on CD Ballot

SC 6 approves the disposition of comments on the CD ballot as listed below and requests its Secretariat to circulate the disposition of comments along with the revised text listed below.

Document	Project	Designation	Title	Project editor
6N 14197	37.02.00	CD 29180	DoC of CD 29180: Security framework for sensor networks	H.Y. Youm H. Wang
6N 14196	37.02.00	CD 29180	Revised text of CD 29180: Security framework for sensor networks	H.Y. Youm H. Wang

- **Approved**

Resolution 6.7.10   Advance Authorization for an FCD Ballot on Sensor Network Security

SC 6 provides advance authorization for an FCD ballot after the interim WG 7 meeting in April 2010, if there are no technical or major editorial issues.

Document	Project	Designation	Title	Project editor
6N 14196	37.02.00	FCD 29180	Security framework for sensor networks	H.Y. Youm H. Wang

- **Approved**

<Attachment 2>

Participants List of SC 6/WG 7 meeting

Given Name	Family Name	Affiliation	Organization /Country
Dae Young	KIM	JTC 1/SC 6 Chairman	JTC 1/SC 6
Jooran	Lee	JTC 1/SC 6 Secretary	JTC 1/SC 6
Yongjin	KIM	JTC 1/WG 7 Convenor	JTC 1/WG 7
HAO	WANG	Chongqing University of Posts and Telecommunications	China
Kingston	Zhang	China IWNCOMM Co., Ltd	China
Manxia	TIE	China IWNCOMM Co., Ltd	China
Nan	Guo	CESI	China
Zhaohua	Long	Chongqing University of Posts and Telecommunications	China
Zhenhai	Huang	China IWNCOMM Co., Ltd	China
Hui	Zhang	CESI	China
Hyun-Kook	Kang	Korea University	Korea
Jooyoung	Kim	TTA	Korea
Miyeon	Yoon	Korea Internet & Security Agency	Korea
Myung Ki	SHIN	ETRI	Korea
Shin-Gak	Kang	ETRI	Korea
Sung Hei	Kim	ETRI	Korea
Wook	Hyun	ETRI	Korea
Fco. Javier	Iglesias	i2CAT Foundation	Spain
Prof. Jesus	Alcober	i2CAT Foundation	Spain
John	Grant	Nine Tiles Networks Ltd	UK
Maryam	Roshanaei	University of Greenwich	UK
Howard	Choe	Raytheon	USA

——————————