

**Telecommunications and Information Exchange between Systems**

**ISO/IEC JTC 1/SC 6/WG 1**

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## Draft Roadmap for Ad-hoc Group on Security (AHGS)

(Sep 2017)

### Introduction

Since ISO/IEC JTC 1/SC 6 was established in 1964, SC6 has worked on standardization in the field of telecommunications dealing with the exchange of information between open systems, including system functions, procedures, parameters as well as the conditions for their use. This standardization encompasses protocols and services of lower layers including physical, data link, network, and transport as well as those of upper layers including but not limited to Directory and ASN.1: MFAN, NFC, PLC, Future Networks and OID. Working Group 1 (WG 1) under ISO/IEC JTC 1/SC 6 works on standardization in physical and data link layers.

During ISO/IEC JTC 1 SC 6/WG 1 Tunis meeting (6 - 8 Feb, 2017), the proposal for establishing an Ad-hoc Group on Security was accepted by WG 1 ([SC6/WG1/N089](#)) and the initial terms of reference about the Ad-hoc Group on Security, including the Scope, Period, Membership and Convenor, were provided ([SC6/WG1/N085](#)).

ISO/IEC JTC 1/SC 6 plenary meeting on 10 Feb 2017 (Tunis, Tunisia) resolved to issue a ballot for establishment of an Ad-hoc Group on Security under SC 6/WG 1 ([N16556](#) Resolution 6.1.4), whose ToR was defined in [N16548](#). The letter ballot started on 20 Feb 2017 and closed on 15 May 2017 ([N16548](#)). To establish an Ad-hoc Group for Security (AHGS) under ISO/IEC JTC 1/SC 6/WG 1 and its ToR were then approved by SC 6 members ([N16637](#)). Disposition of comments received during letter ballot was proposed on 7 Sep 2017 to promote work of the ad-hoc group ([N16700](#)).

SC 6 documents related to establishment of AHGS and its ToR are listed in Table 1.

Table 1 SC6 documents related to establishment of AHGS and its ToR

No.	N-number	Title	Version Date	Due Date
1	<a href="#">SC6/WG1/N089</a>	The draft meeting minutes for ISO/IEC JTC 1/SC 6/WG 1 Meeting in Tunis, Tunisia	2017-02-17	None
2	<a href="#">N16556</a>	Resolutions of ISO/IEC JTC 1/SC 6 Plenary Meeting on 10 February, 2017 in Tunis, Tunisia	2017-02-14	None
3	<a href="#">N16548</a>	Letter ballot for Establishment of an AHG on Security under SC 6/WG 1 and its ToR	2017-02-14	2017-05-15
4	<a href="#">N16622</a>	Concerns relating to the proposed formation of a Security Ad Hoc within JTC1/SC6	2017-05-10	None
5	<a href="#">N16630</a>	China Comments on 6N16622 – Protestation to violating JTC1 Directives during the voting period	2017-05-15	None
6	<a href="#">N16637</a>	Summary of voting on 6N16548, Establishment of an AHG on Security under SC 6/WG 1	2017-05-22	None

No.	N-number	Title	Version Date	Due Date
7	<a href="#">N16700</a>	Proposed DoC on 6N16637, Summary of voting on establishment of an AHG on Security under SC 6/WG 1	2017-09-07	None

To establish an ad-hoc group on security (AHGS) aims to provide a platform in SC 6/WG 1 to fully discuss and handle technical issues and comments related to security protocols and mechanisms that are concerned by all parties and to promote security and technology quality of ISO/IEC international standards.

The purpose of this roadmap is to document the direction and focus of security issues within ISO/IEC JTC 1/SC 6/WG 1.

This roadmap aims to be understood and supported by all concerned members of this ad-hoc group. In addition, it provides National Bodies and experts with information they should regard useful when deciding to participate in works in AHGS. Furthermore, it helps the discussions and cooperation with potential related organizations.

By organizing AHGS activities this roadmap enables:

- (a) The positive identification of security technologies related ISO/IEC JTC 1/SC 6 standards currently available, under development or contemplated;
- (b) A description of the logical reasoning and relationships of security technologies related ISO/IEC JTC 1/SC 6 standards to be considered in AHGS;
- (c) A framework by which AHGS activities can be integrated and coordinated in the manner avoiding unnecessary duplication;
- (d) A planning tool capable of aiding future AHGS work; and
- (e) Greater coordination with other concerned NBs and organizations.

This document is:

- (i) Maintained by AHGS as working instructions;
- (ii) Reviewed and updated regularly;
- (iii) Made available to other interested workings groups, subcommittees and technical committees as required.

## 1. Ad-hoc Group on Security (AHGS) Terms of Reference

*Note: The source of AHGS Terms of Reference hereby presented is the approved ToR indicated in SC 6 document [N16548](#).*

### (1) Scope

The scope includes:

- (a) Review the security technologies in the published standards from SC6, and provide amendment or revision project recommendations.
- (b) Handle the comments and dispositions on security technologies of ongoing projects with

controversies.

(2) AHGS deliverables

Recommend the amendment or revision projects, which are developed in SC6.

Handle the comments and dispositions on security technologies with controversies, and make sure that the disposition of all the comments get consensus.

The AHGS shall provide progress report at the next meeting.

(3) Period

The AHGS will continue its work until SC6 resolves to terminate its tasks.

(4) Organization

Convenor

SC 6 appoints Yun-Jae Won as Convenor.

Membership

Membership of the AHGS is open to representatives from SC 6 NBs, Liaison Organizations and related organizations.

SC6 instructs its Secretariat to issue a call for participation and contributions for AHGS.

In addition, the Convenor may invite experts with specific expertise in the field.

Meeting

Meetings of the AHGS may be via face-to-face or by electronic means.

## **2. AHGS Related Organizations**

Experts who are familiar with activities of related SDOs are encouraged to participate in and contribute to AHGS. The organizations related to AHGS activities are as follows:

- (1) ISO/IEC JTC 1  
- SC 27
- (2) IEEE 802
- (3) ECMA International
- (4) ITU-T SG 17
- (5) ...

## **3. Framework of AHGS**

The AHGS shall provide progress reports regularly and expected outputs within framework indicated in Table 2.

Table 2 Framework of AHGS

Stage No.	Key Tasks	Expected Outputs
Stage 1	Handle the comments and dispositions on security technologies of ongoing SC 6 projects with controversies	Recommendations made by AHGS
Stage 2	Review the security technologies in SC 6 published standards (including but not limited to go through their summary of voting, comments received during ballot, disposition of comments, undisposed comments, etc.)	List of SC 6 standards that contain security technologies with controversies
Stage 3	Further discussion on SC 6 standards that contain security technologies with controversies	Recommendations made by AHGS

#### 4. SC 6 Documents for Consideration by AHGS

*This section may contain a list of documents to be considered by AHGS meetings with descriptions of the logical reasoning and relationships with security technologies related standards.*

Table 3 A list of Summary of Voting documents (with comments) for consideration by AHGS

No.	N-number	Title	Version Date
1	N16535	ISO-IECJTC1-SC6_N16535_Summary_of_Voting_on_6N16498_Submission_of_IEEE_Std_8023by™-2016_for_fast-track_adoption_under_the ISO/IEEE PSDO Agreement	2017/1/17
2	N16536	Summary of Voting on 6N16499, Submission of IEEE Std 802.3bq™-2016 for fast-track adoption under the ISO/IEEE PSDO Agreement	2017/1/17
3	N16537	Summary of Voting on 6N16501, Submission of IEEE Std 802.3bp™-2016 for fast-track adoption under the ISO/IEEE PSDO Agreement	2017/1/17
4	N16540	Summary of Voting on 6N16512 Submission of IEEE Std 802.1Qbz™-2016 for fast-track adoption under the ISO/IEEE PSDO Agreement	2017/2/13
5	N16541	Summary of Voting on 6N16513 Submission of IEEE Std 802.1Qbu™-2016 for fast-track adoption under the ISO/IEEE PSDO Agreement	2017/2/13
6	N16567	Summary of Voting on 6N16522, Submission of IEEE Std 802.3bz™-2016 for fast-track adoption under the ISO/IEEE PSDO agreement	2017/2/20
7	N16570	Summary of Voting on ISO/IEC/IEEE FDIS 8802-3 (Ed 2), Information technology -- Telecommunications and information exchange between systems -- Local and metropolitan area networks	2017/3/3

No.	N-number	Title	Version Date
		-- Specific requirements -- Part 3: Standard for Ethernet	
8	N16589	Summary of Voting on 6N16523, Text for DCOR ballot Corrigendum 1 on ISO/IEC/IEEE 8802-1Q:2016 Information technology -- Telecommunications and information exchange between systems -- Local and metropolitan area networks -- Specific requirements -- Part 1Q: Bridges and bridged networks	2017/3/21
9	N16604	Summary of Voting on ISO/IEC/IEEE FDIS 8802-1AB(Ed 2), Information technology -- Telecommunications and information exchange between systems -- Local and metropolitan area networks -- Specific requirements -- Part 1AB: Station and media access control connectivity discovery	2017/4/13
10	N16607	Summary of Voting on 6N16544, Submission of IEEE 802.11-2016 for fast-track adoption under the ISO/IEEE PSDO Agreement	2017/4/18
11	N16608	Summary of Voting on 6N16545, Submission of IEEE 802.11ai-2016 for fast-track adoption under the ISO/IEEE PSDO Agreement	2017/4/18
12	N16609	Summary of Voting on 6N16546, Submission of IEEE 802.3bn-2016 for fast-track adoption under the ISO/IEEE PSDO Agreement	2017/4/18
13	N16611	Summary of voting on 6N 16547, Text for PDTR ballot on ISO/IEC 22512, Information technology -- Telecommunications and information exchange between systems -- Close Capacitive Coupling Communication Physical Layer (CCCC PHY) -- Guidelines for the implementation of ISO/IEC 17982	2017/4/19
14	N16612	Summary of voting on ISO/IEC/IEEE 8802-1Q:2016/FDAmd 1, Information technology -- Telecommunications and information exchange between systems -- Local and metropolitan area networks -- Specific requirements -- Part 1Q: Bridges and bridged networks -- Amendment 1: Path control and reservation	2017/4/20
15	N16613	Summary of voting on ISO/IEC/IEEE 8802-1Q:2016/FDAmd 3, Information technology -- Telecommunications and information exchange between systems -- Local and metropolitan area networks -- Specific requirements -- Part 1Q: Bridges and bridged networks -- Amendment 3: Enhancements for scheduled traffic	2017/4/20
16	N16647	Summary of voting on 6N16592, Submission of IEEE Std 802.1AC™-2016 for fast-track for fast-track adoption under the ISO/IEEE/PSDO Agreement	2017/5/30
17	N16671	Summary of voting on 6N16619, Submission of IEEE 802.21-2017 for fast-track adoption under the ISO/IEEE/PSDO Agreement	2017/7/14
18	N16672	Summary of voting on 6N16620, Submission of IEEE 802.21.1-2017 for fast-track adoption under the ISO/IEEE/PSDO Agreement	2017/7/14
19	N16690	Summary of voting on ISO/IEC/IEEE 8802-22:2015/FDAmd 2	2017/8/16

No.	N-number	Title	Version Date
20	N16711	Summary of voting on ISO/IEC/IEEE 8802-15-6	2017/9/13

## 5. Expected AHGS Outputs and Target Dates

*This section shall provide a time table that indicates the target dates for progress reports and expected outputs.*

Table 4 Expected AHGS outputs and target dates

No.	Title	Target Date	Meeting Venue
1	AHGS Roadmap	9 Oct 2017	/
2	Progress report	Before SC 6 Seoul meeting	/
3	Updates of progress report and AHGS Roadmap	3 Nov, 2017	Seoul, Korea
4	Recommendations made by AHGS	3 Nov, 2017	Seoul, Korea