Maintenance Task Group Meeting

September 11, 2018
Paul Congdon

Maintenance meeting September 11, 2018 Agenda

- Patents and Guidelines

- Attendees

- Status

- New Maintenance items
  - None received

- Existing Maintenance items
  - Open maintenance items that are not balloting

- Comment resolution

  - None

- Liaisons
  - None received

- SC6 comment resolution
  - Discuss plans for response to ISO/IEC/IEEE 8802-1AE:2013/FDAmd 3

- SC6 status

Instructions for the WG Chair

The IEEE-SA strongly recommends that at each WG meeting the chair or a designee:

- **Show slides #1 through #4 of this presentation**
- **Advise the WG attendees that:**
  - IEEE's patent policy is described in Clause 6 of the *IEEE-SA Standards Board Bylaws*;
  - Early identification of patent claims which may be essential for the use of standards under development is strongly encouraged;
  - There may be Essential Patent Claims of which IEEE is not aware. Additionally, neither IEEE, the WG, nor the WG Chair can ensure the accuracy or completeness of any assurance or whether any such assurance is, in fact, of a Patent Claim that is essential for the use of the standard under development.

- **Instruct the WG Secretary to record in the minutes of the relevant WG meeting:**
  - That the foregoing information was provided and that slides 1 through 4 (and this slide 0, if applicable) were shown;
  - That the chair or designee provided an opportunity for participants to identify patent claim(s)/patent application claim(s) and/or the holder of patent claim(s)/patent application claim(s) of which the participant is personally aware and that may be essential for the use of that standard
  - Any responses that were given, specifically the patent claim(s)/patent application claim(s) and/or the holder of the patent claim(s)/patent application claim(s) that were identified (if any) and by whom.

- The WG Chair shall ensure that a request is made to any identified holders of potential essential patent claim(s) to complete and submit a Letter of Assurance.
- It is recommended that the WG Chair review the guidance in *IEEE-SA Standards Board Operations Manual* 6.3.5 and in FAQs 14 and 15 on inclusion of potential Essential Patent Claims by incorporation or by reference.

  Note: **WG** includes Working Groups, Task Groups, and other standards-developing committees with a PAR approved by the IEEE-SA Standards Board.

(Optional to be shown)

Participants have a duty to inform the IEEE

- **Participants <u>shall</u> inform the IEEE (or cause the IEEE to be informed) of the identity of each holder of any potential Essential Patent Claims of which they are personally aware if the claims are owned or controlled by the participant or the entity the participant is from, employed by, or otherwise represents**

- **Participants <u>should</u> inform the IEEE (or cause the IEEE to be informed) of the identity of any other holders of potential Essential Patent Claims**

Early identification of holders of potential Essential Patent Claims is encouraged

Ways to inform IEEE

- **Cause an LOA to be submitted to the IEEE-SA (patcom@ieee.org); or**

- **Provide the chair of this group with the identity of the holder(s) of any and all such claims as soon as possible; or**

- **Speak up now and respond to this Call for Potentially Essential Patents**

If anyone in this meeting is personally aware of the holder of any patent claims that are potentially essential to implementation of the proposed standard(s) under consideration by this group and that are not already the subject of an Accepted Letter of Assurance, please respond at this time by providing relevant information to the WG Chair

Other guidelines for IEEE WG meetings

- **All IEEE-SA standards meetings shall be conducted in compliance with all applicable laws, including antitrust and competition laws.**

  - **Don't discuss the interpretation, validity, or essentiality of patents/patent claims.**

  - **Don't discuss specific license rates, terms, or conditions.**

    - Relative costs of different technical approaches that include relative costs of patent licensing terms may be discussed in standards development meetings.

      - **Technical considerations remain the primary focus**

  - **Don't discuss or engage in the fixing of product prices, allocation of customers, or division of sales markets.**

  - **Don't discuss the status or substance of ongoing or threatened litigation.**

  - **Don't be silent if inappropriate topics are discussed … do formally object.**

    For more details, see *IEEE-SA Standards Board Operations Manual*, clause 5.3.10 and *Antitrust and Competition Policy: What You Need to Know* at http://standards.ieee.org/develop/policies/antitrust.pdf

Patent-related information

The patent policy and the procedures used to execute that policy are documented in the:

- *IEEE-SA Standards Board Bylaws*
  (http://standards.ieee.org/develop/policies/bylaws/sect6-7.html#6)
- *IEEE-SA Standards Board Operations Manual*
  (http://standards.ieee.org/develop/policies/opman/sect6.html#6.3)

Material about the patent policy is available at
http://standards.ieee.org/about/sasb/patcom/materials.html

If you have questions, contact the IEEE-SA Standards Board Patent Committee Administrator at patcom@ieee.org

Participation in IEEE 802 Meetings

Participation in any IEEE 802 meeting (Sponsor, Sponsor subgroup, Working Group, Working Group subgroup, etc.) is on an individual basis

- **Participants in the IEEE standards development individual process shall act based on their qualifications and experience. (https://standards.ieee.org/develop/policies/bylaws/sb_bylaws.pdf section 5.2.1)**

- **IEEE 802 Working Group membership is by individual; "Working Group members shall participate in the consensus process in a manner consistent with their professional expert opinion as individuals, and not as organizational representatives". (subclause 4.2.1 "Establishment", of the IEEE 802 LMSC Working Group Policies and Procedures)**

- **Participants have an obligation to act and vote as an individual and not under the direction of any other individual or group. A Participant's obligation to act and vote as an individual applies in all cases, regardless of any external commitments, agreements, contracts, or orders.**

- **Participants shall not direct the actions or votes of any other member of an IEEE 802 Working Group or retaliate against any other member for their actions or votes within IEEE 802 Working Group meetings, see https://standards.ieee.org/develop/policies/bylaws/sb_bylaws.pdf section 5.2.1.3 and the IEEE 802 LMSC Working Group Policies and Procedures, subclause 3.4.1 "Chair", list item x.**

By participating in IEEE 802 meetings, you accept these requirements. If you do not agree to these policies then you shall not participate.

(Latest revision of IEEE 802 LMSC Working Group Policies and Procedures: http://www.ieee802.org/devdocs.shtml)

Status Update

- 802.1AS-Rev/D7.3 WG recirculation ballot closed August 27th. Comment resolution this week.

- 802.1Xck/D2.2 was submitted to RevCom for its consideration at the September 6th, 2018 meeting. Approval by the Standards Board is expected at its September 27th, 2018 meeting.

- 802.1AX-Rev/D0.3 TG ballot closed April 9th. Complete TG ballot resolution this week and prepare draft for WG ballot.

- 802.1AC-2016-Cor-1/D2.0 was submitted to RevCom for its consideration at the September 6th, 2018 meeting. Approval by the Standards Board is expected at its September 27th, 2018 meeting.

- Open Items awaiting document vehicles
  - 0170 – waiting for 802.1BA
  - 0174 – waiting for 802.1AC
  - 0205 – waiting for 802.1CM

802.1 Maintenance Status

Category	Count
Approved	0
Ready for Ballot	1
Complete then Ballot	2
Complete then Errata	0
Errata	0
Failed	0
Incomplete	0
Rejected	30
Published	123
Received	0
Errata Sheet Published	0
Technical experts review	1
Balloting	22
Withdrawn	0

BALLOT RESOLUTION

- none

Existing Maintenence Items

- All existing open maintenance items are included here, **except** items which are in "balloting" state already, as those aren't really interesting to track.

- Task force chairs and editors: have you decided in your groups not to change something which is covered by a Maintenance item? If so, you please ensure you bring this to the attention of the Maintenance Task Group.

Items for review

Number	Status	Submitted	Standard	Clause	Subject
0170	Ready for Ballot	2016-05-16	802.1BA-2011	7.3.5	References to other standards in 802.1BA-2011
0174	Complete then Ballot	2016-11-08	802.1AC-2016	2	802.1AC: IEEE 802.17 has been withdrawn
0177	Technical experts review	2017-01-26	802.1AB-2009	8.5.8.1	System Capability entry for Small Cells
0205	Complete then Ballot	2018-05-21	802.1CM	7.4 & 9	Include regional Navigation satellite systems into IEEE Std 802.1CM

Proposal to Close 177

- Based up email exchange with Mark Hamilton (submitter):

  "Hi, Paul,

  I have not drafted a liaison letter for this. From quick discussions with the SCF leadership, it is clear it would take a major activity on their part to respond. This whole topic has become much bigger than it's worth, and I plan to just drop it.

  Thanks! Mark"

- Close with following comment:

  – Submitter has decided to withdraw the maintenance request

NEW MAINTENANCE ITEMS

- None.

LIAISONS

- None.

JTC1 SC6 COMMENT RESPONSES

SC6 Ballot Comments

- Part 1AE: Media access control (MAC) security – Amendment 3: Ethernet data encryption devices
- Ballot closed on 2018-08-30
- Ballot Status
  - **P-Members voting: 9 in favour out of 10 = 90 % (requirement >= 66.66%)**
  - *(P-Members having abstained are not counted in this vote.)*
  - **Member bodies voting: 1 negative votes out of 11 = 9 % (requirement <= 25%)**
  - ***STATUS: Approved***

ISO/IEC/IEEE 8802-1AE:2013/FDAmd 3 - CN1

Comment:

– 14.5 Default Cipher Suite (GCM-AES-128) and 14.6 GCM-AES-256 further specify that the mandatory cryptographic algorithm in implementation of the standard is AES. However, policy and regulation limitations on application of cryptographic algorithm differ from countries and regions. In addition, there are many other international algorithms for choice. Therefore, it is unreasonable to specify cryptographic algorithms as mandatory implementation in this standard.

Proposed Change:

– Noting that in TMB Resolution 70/2018 (72nd meeting of the Technical Management Board) regarding Legal statements in ISO deliverables,

    • text relating to compliance with contractual obligations, legal requirements and government regulations exists in many ISO standards; and

    • ISO deliverables can be used to complement such requirements and serve as useful tools for all related stakeholders (which can include government authorities and industry players);

– ISO clarifies that, for all ISO deliverables:

    a) Statements that include an explicit requirement or recommendation to comply with any specific law, regulation or contract (such as a normative reference to such requirements), or portion thereof, are not permitted;

    b) Statements related to legal and regulatory requirements that do not violate point a) are permitted;

– It is then suggested that the text shall make it clear that "Cryptographic algorithms to be applied to information security mechanism may be subject to national and regional regulations. In this International Standard, cryptographic algorithms are instantiated, and may be chosen according to specific requirements in different countries and regions."

JTC1 SC6 STATUS – September 2018

ISO/IEC JTC1 SC6 Status

- Karen Randall is performing this tracking for us.
- Volunteers also sought to assist with this task

ISO/IEC JTC1 SC6 Status

- PSDO agreement in place to allow progress of IEEE standards in ISO/IEC
- EC JTC1 standing committee is administering the process for IEEE 802 Standards
  - 802.1, 802.3, 802.11, 802.15, 802.16, 802.21, 802.22
- 802.1 has previously agreed to submit its standards to SC6
  - Most standards and their amendments (note – not sending Recommended Practices)
  - Motion required per standard
    - To forward Sponsor Ballot draft for information and comment
    - To submit approved standard for PSDO approval
  - Procedure for Corrigenda: one 90 day ballot and three questions.

802.1 Stds for SC6 approval (1/3)

- PSDO approved
  - 802.1AE-2006 — FDIS passed Oct 2013, cmnts liaised Jan 2014
  - 802.1X-2010 — FDIS passed Oct 2013, cmnts liaised Jan 2014
  - 802.1AS-2011 (Time synch) — FDIS passed Dec 2013, cmnts liaised May 2014
  - 802.1AB-2009 (LLDP) — FDIS passed Dec 2013, cmnts liaised May 2014
  - 802.1AR-2009 (Secure device ID) — FDIS passed Dec 2013, cmnts liaised May 2014
  - 802.1AEbn-2011 — ISO/IEC 8802-1AE:2015/Amd 1 (Apr 2015)
  - 802.1AEbw-2013 — ISO/IEC 8802-1AE:2015/Amd 2 (Apr 2015)
  - 802.1AX-2014 — FDIS passed Nov 2015; no comments
  - 802-2014 — FDIS passed Nov 2015, cmnts liaised Jan 2016
  - 802.1Xbx-2014 — FDIS passed Dec 2015; cmnts liaised 20 April
  - 802.1Q-2014 — FDIS passed Jan 2016; cmnts liaised 20 April
  - 802.1BA-2011 (AVB systems) — FDIS passed August 2016; no comments
  - 802.1BR-2012 (Port extender) — FDIS passed August 2016; no comments
  - 802.1AB-2016 (Stn & MAC Conn Disc) — FDIS passed 4/17; Cmt resp liaised Jul 2017
  - 802.1Qbv-2015 (Enhs for Sch Traffic) — FDIS passed 4/17; Cmt resp liaised Jul 2017
  - 802.1Qca-2015 (Path Control & Reserv) — FDIS passed 4/17; Cmt resp liaised Jul 2017
  - 802.1Q-2014/Cor 1-2015 — FDIS passed 4/17; Cmt resp liaised Jul 2017 published Oct 2017
  - 802.1Qbu-2016 (Frame Preemption) — FDIS passed Oct 2017; no cmts; pub Nov 2017
  - 802.1Qbz-2016 (Enh to Bridging 802.11) — FDIS passed Oct 2017; no cmts; pub Nov 2017

802.1 Stds for SC6 approval (2/3)

- PSDO approved (cont'd)
  - 802.1Qcd (Application VLAN TLV)
  - 802.1AX-2014/Cor1-2017

  - 802.1AC-2016 (MAC Svc Def)

  - 802d-2017 (URN Namespace)

- FDIS passed Dec 2017 – no cmts; pub Jan 2018

- 90 day Cor FDIS passed Jul 2017; no cmts
  wait for publication (1/2018); Jodi check w ISO

- FDIS passed 3/2018 – cmt resps sent Apr 2018
  published Apr 2018

- FDIS passed 3/2018; no cmts; pub Apr 2018

802.1 Stds for SC6 approval (3/3)

- For adoption - PSDO in process (FDIS)
  - 802.1AEcg-2017 (EDE devices) — - FDIS ballot closed 28 Aug 2018 w cmt from China
  - 802.1CB (Frame Repl & Elim for Reliability) — - FDIS ballot 8 Aug 2018; closes 26 Dec 2018
  - IEEE 802c (Local MAC Address Usage) — - Ballot passed w cmts; resp sent April 2018; FDIS closes 26 Dec 2018
  - 802.1Qch (Cyclic Queuing & Fwding) — - Ballot Jan 18 w no cmts; FDIS closes 3 Jan 2019
  - 802.1Qci (Per stream filtering & policing) — - Ballot passed with cmt from China – response sent April 2018; FDIS closes 3 Jan 2019
- For adoption - PSDO in process (60 day pre-ballot)
  - IEEE 802.1CM (Time Sens N/W fronthaul) - Ballot closes 14 Oct 2018
  - IEEE 802.1AR-Rev (Secure DevID) — - Ballot closes 14 Oct 2018
- Next to send – send for adoption/start ballots when published
  - IEEE 802.1Q-Rev (Bridges) — - D2.0 sent 27 July 2017 (*pub 7/2018: send after Qch, Qci)
  - IEEE 802.1Qcc (Stream Res Protocol) — - D2 sent 12/2017 (SB apprv 6/18, send when pub)
  - IEEE 802.1Qcp (Bridges YANG) — - D2 sent 12/2017 (SB apprv 6/18, send when pub)
  - IEEE 802.1AC-2016/Cor 1 (LLC encaps) — - Sent for info Apr 2018 – send final text when pub
  - IEEE 802.1Xck (802.1X YANG model) — - D2 sent April 2018 – send final text when pub
  - IEEE 802.1AE-Rev (MAC security) — - D1.1 sent April 2018 – send final text when pub
  - IEEE 802.1Qcy (VDP extension) — - D2.1 sent April 2018 – send final text when pub
- For Information – send document drafts
  - P802.1AS-Rev/D8? (Timing & Sync) — - expect Sponsor Ballot in late Nov/Dec 2018

Looking ahead - Expected Motions at November 2018 Plenary

- Will need a motion to approve and send ballot comment responses for **IEEE 802.1AEcg** – FDIS ballot closed 28 August with 1 comment from China.

- Possibly a motion to approve and send any ballot comment responses for **IEEE 802.1CM** and **IEEE 802.1AR-Rev**. The 60-day pre ballots close on 14 October, so we should have time to review the comments and draft any responses needed for November.

- No motion to send **P802.1CF** for information is needed because it is a Recommend Practice