Maintenance Task Group Meeting
(post meeting update)

March 21, 2019
Paul Congdon
Maintenance Task Group Meeting
March 12, 2019 Agenda

• Patents and Guidelines
• Attendees
• Document Vehicle Status
• Existing Maintenance items
• New Maintenance items
• Comment resolution
  – None
• Liaisons
  – None
• SC6 comment resolution
  – Status update of JTC1/SC6 pre-ballot comment responses for IEEE 802.1AE and IEEE 802.1Xck
• 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 **shall** 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 **should** 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.

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.

Document Vehicles - Status Update

• 802.1AS-Rev/D8.0 Sponsor ballot resolution continues in May 2019.
• 802.1ABcu Comment resolution completed on TSN conference calls. Editor is preparing draft D.07.
• 802.1Qcw/D0.3 TG ballot closes May 12th. Comment resolution to begin at the May interim
• 802.1Qcr/D1.0 WG ballot closes May 16th. Comment resolution to begin at the May interim
• 802.1CBdb – Editor assigned, awaiting initial TG draft
• 802.1CMde – Editor assigned, awaiting initial TG draft
• 802.1AE-Cor – Project awaiting approval

• Open Items awaiting document vehicles
  – 0170 – waiting for 802.1BA
  – 0174 – waiting for 802.1AC
  – 0210 – waiting for 802.1Q
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Existing Maintenance 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

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NEW MAINTENANCE ITEMS

- 0229 - 802.1CB IP Stream identification
# Items progressed

## May 2019 Interim Meeting

**Location:** Salt Lake City

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BALLOT COMMENT RESOLUTION

• none
LIAISONS

- none
JTC1 SC6 COMMENT RESPONSES

- JTC1/SC6 pre-ballot results for IEEE 802.1AE, IEEE 802.1Q, and IEEE 802.1Xck
JTC1/SC6 pre-ballot results for IEEE 802.1AE, IEEE 802.1Q, and IEEE 802.1Xck

• The pre-ballots of IEEE 802.1AE, IEEE 802.1Q, and IEEE 802.1Xck all passed - and there were comments on all three docs from China.


• NOTE: Response to comments on 802.1Q were approved and sent in March 2019

• Responses to comments on 802.1AE and 802.1Xck will be completed and when approved, sent in July
ISO/IEC JTC1 SC6 Status

• Karen Randall has been performing this tracking
• Volunteers 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

• 802.1X-2010

• 802.1AS-2011 (Time synch)

• 802.1AB-2009 (LLDP)

• 802.1AR-2009 (Secure device ID)

• 802.1AEbn-2011

• 802.1AEbw-2013

• 802.1AX-2014

• 802-2014

• 802.1Xbx-2014

• 802.1Q-2014

• 802.1BA-2011 (AVB systems)

• 802.1BR-2012 (Port extender)

• 802.1AB-2016 (Stn & MAC Conn Disc)

• 802.1Qbv-2015 (Enhs for Sch Traffic)

• 802.1Qca-2015 (Path Control & Reserv)
802.1 Stds for SC6 approval (2/3)

- PSDO approved (cont’d)
  - 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
  - 802.1Qcd (Application VLAN TLV)
    - FDIS passed Dec 2017 – no cmts; pub Jan 2018
  - 802.1AX-2014/Cor1-2017
    - 90 day Cor FDIS passed Jul 2017; no cmts published Sep 2018
  - 802.1AC-2016 (MAC Svc Def)
    - FDIS passed 3/2018 – cmt resps sent Apr 2018 published Apr 2018
  - 802d-2017 (URN Namespace)
    - FDIS passed 3/2018; no cmts; pub Apr 2018
  - 802.1CB (Frame Repl & Elim for Reliability)
    - FDIS passed Dec 2018; no cmts
  - 802.1Qch (Cyclic Queuing & Fwding)
    - FDIS passed Jan 2019; no cmts
  - 802.1Qci (Per stream filtering & policing)
    - FDIS passed Jan 2019; no cmts
  - 802.1AEcg-2017 (EDE devices)
    - FDIS passed Aug 2018 w/cmt from China; cmt resps sent Jan 2019; published Oct 2018
  - IEEE 802.1AC-2016/Cor 1 (LLC encaps)
    - 90 day COR FDIS passed Mar 2019; no cmts
  - IEEE 802c (Local MAC Address Usage)
    - FDIS passed Dec 2018 w/cmt from China; cmt resps approved March 2019; sent 1 May 2019
802.1 Stds for SC6 approval (3/3)

- For adoption - PSDO in process (FDIS ballots)
  - IEEE 802.1CM (Time Sens N/W fronthaul) - pre-ballot passed 10/2018 w no cmts; FDIS ballot closes 26 June 2019
  - IEEE 802.1AR-Rev (Secure DevID) - pre-ballot comment response rvw/apprv 11/2018 sent 14 Jan 2019; SC6 posted on 28 March 2019. waiting for FDIS ballot to open
  - IEEE 802.1Q-Rev (Bridges) - pre-ballot comment response rvw/apprv 3/2019; sent 1 May 2019; waiting for FDIS ballot to open

- For adoption - PSDO in process (60 day pre-balloths)
  - IEEE 802.1AE-Rev (MAC security) - Ballot closed 11 March 2019 w/comments; cmt resp to be drafted for approval at 7/2019 mtg
  - IEEE 802.1Xck (802.1X YANG model) - Ballot closed 11 March 2019 w/comments; cmt resp draft (14 Apr 2019); approval @ 7/2019 mtg

- Next to send - send for adoption/start ballots when published (Motions for all of these were approved at July 2018 Plenary)
  - IEEE 802.1Qcp (Bridges YANG) - D2 sent 12/2017 (*pub 9/2018; send after Q)
  - IEEE 802.1Qcc (Stream Res Protocol) - D2 sent 12/2017 (SB apprv 6/18, pub Oct 2018; send after Q is done in SC6)
  - IEEE 802.1Qcy (VDP extension) - D2.1 sent 4/2018 – send final text after pub and after Q is done in SC6

- For Information – send document drafts
  - P802.1AS-Rev/D8 (Timing & Synchn) - Sponsor Ballot (D8) sent for info 13 March 2019
  - P802.1AX-Rev/D? (Link Agg) - March 2019: Approve to send when go to SB
Expected Actions and Motions at July 2019 Plenary

• Review SC6 ballot comment responses on IEEE 802.1AE-Rev and IEEE 802.1Xck. Motion to approve/send after the Plenary meeting.
• IEEE 802.1CM FDIS ballot closes 26 June. Respond to FDIS comments, if any. Note: There were no comments on the pre-ballot.
• Motion to send IEEE 802.1AS-Rev for adoption (after publication) – if ready
• Determine draft of IEEE 802.1AX to be sent in liaison (for information)