Maintenance Task Group Meeting

January 15, 2019
Paul Congdon

Maintenance Task Group Meeting January 15, 2019 Agenda

- Patents and Guidelines

- Attendees
- Document Vehicle Status
- Items progressed prior to the meeting
- Existing Maintenance items
- New Maintenance items
- Comment resolution
  - None
- Liaisons
  - SG15 LS172 OTNT
- SC6 comment resolution
  - Discuss plans and draft response to CN.1 on IEEE 802c-2017 (ISO/IEC/IEEE FDIS 8802-A:2015/FDAmd 2)
- 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

<u>**Slide #1**</u>

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)

Document Vehicles - Status Update

- 802.1AS-Rev/D7.5 WG recirculation ballot closed January 5th, 2019 with no comments. Sponsor ballot to start the week after the January Interim. Sponsor ballot resolution to begin in March 2019.
- 802.1Xck-2018 Published on December 21th, 2018 meeting.
- 802.1AC-2016/Cor 1-2018 was Published on November 9th, 2018
- 802.1AX-Rev/D1.0 WG ballot closed January 10th. WG ballot resolution begins at January Interim.
- 802.1ABcu is waiting for an initial draft and TG ballot.
- 802.1Qcw/D0.2 completed TG comment disposition in November. Editor is preparing D0.3

- Open Items awaiting document vehicles
  - 0170 – waiting for 802.1BA
  - 0174 – waiting for 802.1AC
  - 0205 – waiting for 802.1CM
  - 0210 – waiting for 802.1Q

Items progressed prior to meeting

Jan 2019 Interim Meeting

Location: Hiroshima

Number	Status	Submitted	Standard	Clause	Subject	Draft
0223	Received	2018-12-14	IEEE 802.1Q-2018	17.7.14	Maintenance Request: IEEE8021-SRP-MIB inappropriate SYNTAX for ieee8021SrpStreamDataFramePriority	
0209 Closed	Published	2018-06-22	802.1X	3	SCI definition alignment	802.1Xck/D2.0
0206 Closed	Published	2018-06-22	802.1X	5.4	EAPOL address use alignment with 802.1AE, 802.1Q	802.1Xck/D2.0
0207 Closed	Published	2018-06-22	802.1X	5.4	MACsec Controlled Port use by PAE (nit)	802.1Xck/D2.0
0208 Closed	Published	2018-06-22	802.1X	3	Port Identifier alignment with 802.1AE	802.1Xck/D2.0
0196 Closed	Published	2017-10-04	802.1X	9	802.1X (MKA pending PN exhaustion)	802.1Xck/D1.1
0171 Closed	Published	2016-07-26	802.1X-2010	9	MI ordering in MKA Key Server Peer List	802.1Xck/D1.0
0155 Closed	Published	2015-01-07	802.1X-2010	13.5	MIB ieee8021XAuthPaeReAuthEnabled	802.1Xck
0157 Closed	Published	2015-01-07	802.1X-2010	13.5	MIB ieee8021XEapolStartFramesTx	802.1Xck
0154 Closed	Published	2015-01-07	802.1X-2010	13.5	MIB ieee8021XPaePortAuthenticatorEnable and ieee8021XPaePortSupplicantEnable	802.1Xck

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	Draft with fix
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	
0205	Complete then Ballot	2018-05-21	802.1CM	7.4 & 9	Include regional Navigation satellite systems into IEEE Std 802.1CM	
0210	Complete then Ballot	2018-09-11	IEEE Std 802.1Q-2018	43.3.3.4	ECP protocol code point for P802.1CS needed in 802.1Q-2018	
0211	Complete then Ballot	2018-09-18	802.1Qbv-2016	12.29.1; 17.2.22; 17.7.22	AdminCycleTime and Interval max values	
0213	Complete then Ballot	2018-09-24	802.1AB-2016 and 802.1AB-2009	9.2.5.6	The range of msgTxHold and the range of its MIB object lldpV2MessageTxHoldMultiplier are not consistent	
0223	Received	2018-12-14	IEEE 802.1Q-2018	17.7.14	Maintenance Request: IEEE8021-SRP-MIB inappropriate SYNTAX for ieee8021SrpStreamDataFramePriority	

NEW MAINTENANCE ITEMS

- 0223 - IEEE8021-SRP-MIB inappropriate SYNTAX for ieee8021SrpStreamDataFramePriority

BALLOT COMMENT RESOLUTION

- none

LIAISONS

- http://www.ieee802.org/1/files/public/docs2019/liaison-SG15-LS172-OTNT_standardization_workplan-0119.zip

SG15 OTNT request

- Attached is Issue 25 of the OTNT SWP, the latest version updated by the SG15 during a correspondence activity after the meeting in October 2018.

- We would appreciate updates to the material relevant to your SDO

- See Attachment: Optical Transport Networks & Technologies Standardization Work Plan Issue 25, December 2018

JTC1 SC6 COMMENT RESPONSES

- IEEE 802c-2017 (ISO/IEC/IEEE FDIS 8802-A:2015/FDAmd 2)

SC6 Ballot Comment Summary

- The voting results on IEEE 802c-2017 (ISO/IEC/IEEE FDIS 8802-A:2015/FDAmd 2):
  - Passed 9/1/9
  - 1 comment was received with the China NB NO vote
- Comment
  - 802c-2017 defines the Structured Local Address Plan (SLAP) using which designates a range of local MAC addresses for protocols using a Company ID (CID) assigned by the RAC. IEEE has already registered multiple OID nodes for the MAC address. Using CID will cause confusion in the international standard identifier system and add burden or difficulty to the management.
  - it is suggested that the CID format defined in this proposal directly adopt OID format.
- Draft Response
  - http://www.ieee802.org/1/files/public/docs2019/maint-randall-SC6CommentResponse802c-0119-v01

JTC1 SC6 STATUS – January 2019

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   - 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)
  - 802.1CB (Frame Repl & Elim for Reliability)
  - 802.1Qch (Cyclic Queuing & Fwding)
  - 802.1Qci (Per stream filtering & policing)

- FDIS passed Dec 2017 – no cmts; pub Jan 2018
- 90 day Cor FDIS passed Jul 2017; no cmts published Sep 2018
- FDIS passed 3/2018 – cmt resps sent Apr 2018 published Apr 2018
- FDIS passed 3/2018; no cmts; pub Apr 2018
- FDIS passed Dec 2018; no cmts
- FDIS passed Jan 2019; no cmts
- FDIS passed Jan 2019; no cmts

802.1 Stds for SC6 approval (3/3)

- For adoption - PSDO in process (FDIS ballots)
  - IEEE 802.1AEcg-2017 (EDE devices) — - FDIS passed 8/2018 with cmt from China; resp rvw/apprv 11/2018 – sent 1/2019
  - IEEE 802c (Local MAC Address Usage) — - FDIS closed 26 Dec 2018 <u>w 1 cmt from China</u> – resp to be drafted/reviewed/apprvd by 3/2019
  - IEEE 802.1CM (Time Sens N/W fronthaul) — - pre-ballot passed 10/2018 w no cmts; has FDIS started?
  - IEEE 802.1AC-2016/Cor 1 (LLC encaps) — - Sent final COR text 12/2018 for 1 *90-day* ballot Ballot closes 17 March 2019.

- For adoption - PSDO in process (60 day pre-ballots)
  - IEEE 802.1AR-Rev (Secure DevID) — - Ballot passed Oct 2018 with 2 cmts from China; resp rvw/apprv 11/2018 – <u>sent 1/2019</u>
  - IEEE 802.1AE-Rev (MAC security) — - Ballot closes 11 March 2019
  - IEEE 802.1Xck (802.1X YANG model) — - Ballot closes 11 March 2019
  - IEEE 802.1Q-Rev (Bridges) — - Ballot closes 11 March 2019

- Next to send - send for adoption/start ballots when published (Motions for all of these have been approved at 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, send after pub and after Q is done in SC6)
  - IEEE 802.1Qcy (VDP extension) — - D2.1 sent April 2018 – send final text send after pub & after Q is done in SC6)

- For Information – send document drafts
  - P802.1AS-Rev/D8 (Timing & Synch) — - expect Sponsor Ballot in Jan 2019

Expected Motions at March 2019 Plenary (and looking ahead)

- Need a motion to approve and send ballot comment response for **IEEE 802c** – FDIS ballot closed January with 1 comment from China. Need to review comment responses and approve by March 2019 Plenary meeting.

- IEEE 802.1Qch and IEEE 802.1Qci FDIS ballots closed with no comments. IEEE 802.1Q-Rev has been sent for adoption; the SC6 pre-ballot closes March 2019. Also okay to send IEEE 802.1Q amendments (Qcp, Qcc, Qcy) whenever ready/appropriate.

- Any other documents to be sent for information or adoption?