Maintenance Task Group Meeting

July 10th, 2018, v3
Paul Congdon
John Messenger

Maintenance meeting
July 10ᵗʰ, 2018 Agenda

- Patents and Guidelines

- Attendees

- Status

- New Maintenance items
    - 0206: EAPOL address use alignment with 802.1AE, 802.1Q
    - 0207: MACsec Controlled Port use by PAE (nit)
    - 0208: Port Identifier alignment with 802.1AE
    - 0209: SCI definition alignment

- Existing Maintenance items
    - Open maintenance items that are not balloting
    - 802.1Q-2018-related items – review and close as necessary

- Review of Maintenance Motions

- Comment resolution
    - 802.1AC-2016-Cor-1/D1.2 – Editor's report

- Liaisons
    - None received

- SC6 comment resolution
    - None

- 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)

July 10th, 2018 Attendees

Paul Congdon
John Messenger
Brian Weis
Christian Boiger
Craig Gunther
Don Pannell
Eric Gray
Feng Chen
Geoffrey Garner
Graeme Wood
Hajime Koto
James McIntosh
Janos Farkas
Jens Bierschenk
Jessy Rouyer
Karen Randall
Lars Ellegaard
Ludwig Winkel
Marc Holness
Marina Gutierrez

Mark Gravel
Mick Seaman
Michael Potts
Nader Zein
Norman Finn
Paul Bottorff
Rodney Cummings
Roy Myers
Stephan Kehrer
Takahiro Yamaura
Tomoki Ohsawa
Tongtong Wang
Vincent Chou
Wenhao Sun
Xiang Yu
Yoshihiro Ito

Status Update

- 802.1AS-Rev/D7.0 WG ballot closed May 7th. Comment is complete.
- 802.1Xck/D2.0 initial Sponsor recirculation ballot closed July 5th, 2018. Comment resolution this week.
- 802.1Q-2018 approved by standard board May 7th. Published July 6th, 2018.
- 802.1AX-Rev/D0.3 TG ballot closed April 9th. Technical discussions this week.
- 802.1AC-2016-Cor-1/D1.2 sponsor recirculation ballot closed June 3rd: no comments. Plan to go to RevCom from this meeting.

802.1 Maintenance Status

Category	Count
Approved	0
Ready for Ballot	1
Complete then Ballot	1
Complete then Errata	0
Errata	0
Failed	0
Incomplete	0
Rejected	30
Published	123
Received	4
Errata Sheet Published	0
Technical experts review	2
Balloting	18
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	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	
0177	Technical experts review	2017-01-26	802.1AB-2009	8.5.8.1	System Capability entry for Small Cells	
0205	Technical experts review	2018-05-21	802.1CM	7.4 & 9	Include regional Navigation satellite systems into IEEE Std 802.1CM	
0206	Received	2018-06-22	802.1X	5.4	EAPOL address use alignment with 802.1AE, 802.1Q	802.1Xck/D2.0
0207	Received	2018-06-22	802.1X	5.4	MACsec Controlled Port use by PAE (nit)	802.1Xck/D2.0
0208	Received	2018-06-22	802.1X	3	Port Identifier alignment with 802.1AE	802.1Xck/D2.0
0209	Received	2018-06-22	802.1X	3	SCI definition alignment	802.1Xck/D2.0

NEW MAINTENANCE ITEMS

New maintenance items

- 0206: EAPOL address use alignment with 802.1AE, 802.1Q
- 0207: MACsec Controlled Port use by PAE (nit)
- 0208: Port Identifier alignment with 802.1AE
- 0209: SCI definition alignment

Items progressed (1)

Number	Status	Submitted	Standard	Clause	Subject	Draft
0209	Balloting	2018-06-22	802.1X	3	SCI definition alignment	802.1Xck/D2.0
0208	Balloting	2018-06-22	802.1X	3	Port Identifier alignment with 802.1AE	802.1Xck/D2.0
0207	Balloting	2018-06-22	802.1X	5.4	MACsec Controlled Port use by PAE (nit)	802.1Xck/D2.0
0206	Balloting	2018-06-22	802.1X	5.4	EAPOL address use alignment with 802.1AE, 802.1Q	802.1Xck/D2.0
0208	Balloting	2018-06-22	802.1X	3	Port Identifier alignment with 802.1AE	802.1Xck/D2.0
0207	Balloting	2018-06-22	802.1X	5.4	MACsec Controlled Port use by PAE (nit)	802.1Xck/D2.0
0209	Balloting	2018-06-22	802.1X	3	SCI definition alignment	802.1Xck/D2.0
0206	Balloting	2018-06-22	802.1X	5.4	EAPOL address use alignment with 802.1AE, 802.1Q	802.1Xck/D2.0
0205	Complete then Ballot	2018-05-21	802.1CM	7.4 & 9	Include regional Navigation satellite systems into IEEE Std 802.1CM	
0195 Closed	Published	2017-09-25	802.1Qch	Q.5.1	802.1Qch typo in Figure Q-3	802.1Q-Rev/D2.2

Items progressed (2)

Number	Status	Submitted	Standard	Clause	Subject	Draft
0193 Closed	Published	2017-07-05	802.1Qbv-2015	12.29	802.1 maintenance request: Clarification of points in time for scheduled traffic	
0191 Closed	Published	2017-07-04	802.1Q-2014/D1.4	1.3	Introduction items for P802.1Qbv and P802.1Qbu	802.1Q-Rev/D2.2
0183 Closed	Published	2017-05-17	802.1Q	21.4.3	CFM OpCodes	
0180 Closed	Published	2017-05-12	802.1Q-2014	17.7.18	Missing DESCRIPTION for 802.1Q TEIPS MIB module	802.1Q-Rev/D1.4
0181 Closed	Published	2017-05-12	802.1Q-2014	17.7.21	Incorrect DESCRIPTION for 802.1Q ECMP MIB module	802.1Q-Rev/D1.4
0182 Closed	Published	2017-05-12	802.1Q-2014	3	Incorrect references to IEEE 802.1Q-2014 in itself	802.1Q-Rev/D1.4
0179 Closed	Published	2017-02-16	802.1Q-2014	8.8.5	Clarification of outbound Ports as related to Dynamic VLAN Registration Entries and Ingress Filtering	802.1Q-Rev/D1.4
0178 Closed	Published	2017-02-07	802.1Qbu-2016	17.7.22	Maintenance Request for 802.1Qbu-2016 MIB error	802.1Q-Rev/D1.2
0176 Closed	Published	2017-01-17	802.1Q	17	Incorrect references to 802.1AC in 802.1Q's Bridge MIB	802.1Q-Rev/D1.2
0175 Closed	Published	2016-12-12	802.1Q	8.8	Record 802.1AEcg EDE use of -0B Reserved Address in 802.1Q	802.1Q-Rev/D1.2

Items progressed (3)

Number	Status	Submitted	Standard	Clause	Subject	Draft
0173 Closed	Published	2016-11-08	802.1Q-2014	2	802.1Q: IEEE 802.17 has been withdrawn	802.1Q-Rev/D1.1
0168 Closed	Published	2016-05-09	802.1Q-2014	17.5.3.2 and 17.5.3.3	802.1Q Port creation on components	802.1Q-Rev/D1.1
0169 Closed	Published	2016-05-09	802.1Q-2014	17.5.2.1	802.1Q: D-component creation	802.1Q-Rev/D1.1
0141 Closed	Published	2014-07-17	802.1Q-2014	6.6.1, 6.7.1	Remove 6.6.1 and 6.7.1	802.1Q-Rev/D1.1

LIAISONS

- None.

JTC1 SC6 COMMENT RESPONSES

SC6 Ballot Comments

- There are no ballot comment responses for review

JTC1 SC6 STATUS

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, 802.22
- 802.1 has previously agreed to submit its standards to SC6
  - Most standards and their amendments
  - Motion required per standard
    - To forward Sponsor Ballot draft for 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)

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

- 802.1AX-2014/Cor1-2017

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

- 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

802.1 Stds for SC6 approval (3/3)

- For adoption - PSDO in process (FDIS)
  - 802.1AEcg-2017 (EDE devices) — FDIS ballot started 10 April 2018; close Aug 2018
  - 802.1CB (Frame Repl & Elim for Reliability) — Ballot passed Jan 18 w no cmts; FDIS next (Jodi)
  - 802.1Qch (Cyclic Queuing & Fwding) — Ballot passed Jan 18 w no cmts; FDIS next (Jodi)
  - 802.1Qci (Per stream filtering & policing) — Ballot passed with cmt from China – response sent 16 April 2018; waiting for FDIS
  - IEEE 802c (Local MAC Address Usage) — Ballot passed w cmts; resp sent 4/2018; waiting for FDIS

- For adoption - PSDO in process (60 day pre-ballot)
- Next to send – send for adoption/start ballots when published
  - IEEE 802.1CM (Time Sens N/W fronthaul) — D2.2 sent Apr 2018 (*pub June 2018: send now)
  - IEEE 802.1Qcc (Stream Res Protocol) — D2.0 sent Dec 2017 (SB apprv 6/2018, send pub)
  - IEEE 802.1Qcp (Bridges YANG) — D2.0 sent Dec 2017 (SB apprv 6/2018, send pub)
  - IEEE 802.1AR-Rev (Secure DevID) — D2.6 sent April 2018 (SB apprv 6/2018, send pub)
  - IEEE 802.1AC-2016/Cor 1 (LLC encaps) — Sent April 2018 – send final text when published
  - IEEE 802.1Q-Rev (Bridges) — D2.0 sent 27 July 2017 – 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/D7.1 (Timing & Synchn)