

# Maintenance Task Group Meeting

July 16, 2019

Paul Congdon

(post meeting update)

# Maintenance Task Group Meeting

## July 16, 2019 – 8AM – 0.31/32 Level 0

### Agenda

- Patents and Guidelines
- Attendees
- Document Vehicle Status
- Existing Maintenance items
- New Maintenance items
- Comment resolution
  - None
- Liaisons
  - None
- SC6 comment resolution
  - Review JTC1/SC6 pre-ballot comment responses for IEEE 802.1AE and IEEE 802.1Xck
  - [http://www.ieee802.org/1/files/public/docs2019/maint-randall-SC6CommentResp1AE-0719\\_v02.pdf](http://www.ieee802.org/1/files/public/docs2019/maint-randall-SC6CommentResp1AE-0719_v02.pdf)
  - <http://www.ieee802.org/1/files/public/docs2019/maint-randall-SC6CommentResponse8021Xck-v00.pdf>
- SC6 status
- What are EPD and LPD? – Roger Marks
  - <http://www.ieee802.org/1/files/public/docs2019/maint-Marks-epd-lpd-0719-v02.pdf>

# 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.**

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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](mailto: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](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](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/D8.0 Sponsor ballot resolution completed July 8<sup>th</sup>. Editor is preparing a new draft and recirculation ballot prior to September Interim.
- 802.1ABcu Comment resolution completed on TSN conference calls. Editor is preparing draft D.07.
- 802.1Qcw/D0.4 TG ballot closed July 9<sup>th</sup>. Comment resolution to begin at the July plenary
- 802.1Qcr/D1.0 WG ballot closed July 9<sup>th</sup>. Comment resolution to begin at the July plenary
- 802.1CBdb/D0.1 TG ballot closed July 7<sup>th</sup>. Comment resolution to begin at the July plenary
- 802.1CMde/D0.2 TG ballot closed June 21<sup>st</sup>. Comment resolution to be completed in July. Editor is preparing draft for possible WG ballot
- 802.1AE-Cor – Project approved, awaiting initial draft
- Open Items awaiting document vehicles
  - 0170 – waiting for 802.1BA
  - 0174 – waiting for 802.1AC
  - 0210 – waiting for 802.1Q

# 802.1 Maintenance Status

Category	Count
Approved	0
Ready for Ballot	1
Complete then Ballot	5
Complete then Errata	0
Errata	0
Failed	0
Incomplete	0
Rejected	38
Published	132
Received	0
Errata Sheet Published	0
Technical experts review	1
Balloting	20
Withdrawn	2

# 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

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	Ready for Ballot	2018-05-21	802.1CM	7.4 & 9	Include regional Navigation satellite systems into IEEE Std 802.1CM	802.1CMde/D0.1
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	802.1Qcw/D0.3
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 IldpV2MessageTxHoldMultiplier are not consistent	
0223	Technical experts review	2018-12-14	IEEE 802.1Q-2018	17.7.14	Maintenance Request: IEEE8021-SRP-MIB inappropriate SYNTAX for ieee8021SrpStreamDataFramePriority	802.1Qcw/D0.4
0224	Technical experts review	2019-01-16	IEEE Std 802.1Q-2018	8.6.8.4	Clarify whether frame ends on last bit or after the inter-packet gap and preamble	802.1Qcr/1.0
0225	Technical experts review	2019-01-21	IEEE 802.1Q-2018	17.7.14	Addendum to Maintenance Request 0223: IEEE8021-SRP-MIB inappropriate SYNTAX for ieee8021SrpStreamDataFramePriority	802.1Qcw/D0.4
0226	Complete then Ballot	2019-01-24	802.1CB-2017	6.6	802.1CB Active Destination MAC and VLAN Stream identification	802.1CBdb/D0.1

# Items for review

<b>Number</b>	<b>Status</b>	<b>Submitted</b>	<b>Standard</b>	<b>Clause</b>	<b>Subject</b>	<b>Draft with fix</b>
0227	Complete then Ballot	2019-01-28	802.1CB-2017	6	802.1CB Required stream identification methods	802.1CBdb/D0.1
0228	Technical experts review	2019-02-03	802.1AE-2018	9.5	802.1AE-2018 incorrect text in Figure 9-4	
0229	Complete then Ballot	2019-05-17	802.1CB-2017	9.1.5.1	802.1CB IP Stream identification	802.1CBdb/D0.1
0230	Received	2019-06-06	802.1Qcp-2018	48.6.3.2	802.1Qcp-2018 maintenance: Incorrect traffic-class-table-grouping	

# NEW MAINTENANCE ITEMS

- 0230 - 802.1Qcp-2018 maintenance: Incorrect traffic-class-table-grouping

# Items progressed

## Jul 2019 Plenary Meeting

Location: Vienna, Austria

Minutes

Number	Status	Submitted	Standard	Clause	Subject	Draft
0205	Balloting	2018-05-21	802.1CM	7.4 & 9	Include regional Navigation satellite systems into IEEE Std 802.1CM	802.1CMde/D0.1
0211	Balloting	2018-09-18	802.1Qbv-2016	12.29.1; 17.2.22; 17.7.22	AdminCycleTime and Interval max values	802.1Qcw/D0.3
0223	Balloting	2018-12-14	IEEE 802.1Q-2018	17.7.14	Maintenance Request: IEEE8021-SRP-MIB inappropriate SYNTAX for ieee8021SrpStreamDataFramePriority	802.1Qcw/D0.4
0224	Complete then Ballot	2019-01-16	IEEE Std 802.1Q-2018	8.6.8.4	Clarify whether frame ends on last bit or after the inter-packet gap and preamble	802.1Qcr/1.0
0225	Balloting	2019-01-21	IEEE 802.1Q-2018	17.7.14	Addendum to Maintenance Request 0223: IEEE8021-SRP-MIB inappropriate SYNTAX for ieee8021SrpStreamDataFramePriority	802.1Qcw/D0.4
0226	Balloting	2019-01-24	802.1CB-2017	6.6	802.1CB Active Destination MAC and VLAN Stream identification	802.1CBdb/D0.1
0227	Balloting	2019-01-28	802.1CB-2017	6	802.1CB Required stream identification methods	802.1CBdb/D0.1
0228	Complete then Ballot	2019-02-03	802.1AE-2018	9.5	802.1AE-2018 incorrect text in Figure 9-4	
0229	Balloting	2019-05-17	802.1CB-2017	9.1.5.1	802.1CB IP Stream identification	802.1CBdb/D0.1
0230	Technical experts review	2019-06-06	802.1Qcp-2018	48.6.3.2	802.1Qcp-2018 maintenance: Incorrect traffic-class-table-grouping	

# BALLOT COMMENT RESOLUTION

- none



# LIAISONS

- none

# **JTC1 SC6 COMMENT RESPONSES**

- JTC1/SC6 pre-ballot results for IEEE 802.1AE 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.
- Comment summary reviewed from:  
<http://www.ieee802.org/1/files/public/docs2019/maint-randall-SC6comments1Q1XckAE-0319-v1.pdf>
- 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 reviewed now and when approved, sent in July

# JTC1/SC6 pre-ballot comment responses for IEEE 802.1AE and IEEE 802.1Xck

- <http://ieee802.org/1/files/public/docs2019/maint-randall-SC6CommentResp1AE-0719-v03.pdf>
- <http://ieee802.org/1/files/public/docs2019/maint-randall-SC6CommentResponse1Xck-0719-v01.pdf>

# **JTC1 SC6 STATUS – July 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 (MAC Security) - FDIS passed Oct 2013, cmnts liaised Jan 2014  
Systematic Rvw – (re)confirmed March 2019.  
No further action required.
- 802.1X-2010 (Port-Based NW Acc Cntrl) - FDIS passed Oct 2013, cmnts liaised Jan 2014  
Systematic Rvw – (re)confirmed March 2019  
No further action required.
- 802.1AS-2011 (Time synch) - FDIS passed Dec 2013, cmnts liaised May 2014  
Systematic Rvw – (re)confirmed June 2019.  
No further action required.
- 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 (Enh 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



# 802.1 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
- IEEE 802.1CM (Time Sens N/W fronthaul)
  - pre-ballot passed Oct 2018 w no cmts; FDIS ballot passed June 2019; no cmts

# 802.1 Stds for SC6 approval (3/3)

- For adoption - PSDO in process (FDIS ballots)
  - IEEE 802.1AR-Rev (Secure DeVID) - pre-ballot comment response rvw/apprv 11/2018 sent 14 Jan 2019; FDIS ballot closes 14 Nov 2019
  - 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-ballots)
  - IEEE 802.1AE-Rev (MAC security) - Ballot closed 11 March 2019 w/comments; cmt resp draft (24 June); approve at 7/2019 mtg
  - IEEE 802.1Xck (802.1X YANG model) - Ballot closed 11 March 2019 w/comments; cmt resp draft (14 Apr); approve at 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 appr 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/D2 (Link Agg) - March 2019: Approve to send D2 when go to SB.  
June 2019: 22 May SB version sent to IEEE staff to do “watermarking” of draft.  
July 2019: Waiting for IEEE staff to return marked draft then to be sent to SC6 Secretariat.

# Expected Actions and Motions at July 2019 Plenary

- Motion to approve/send after the Plenary meeting SC6 ballot comment responses on IEEE 802.1AE-Rev and IEEE 802.1Xck.
- Motion to send IEEE 802.1AS-Rev for adoption (after publication) – if ready
- Motion to send IEEE 802.1X-Rev for information
- Chair to send approved version of IEEE 802.1AX in liaison (for information)

# What is EPD and LPD?

- Roger Marks
  - <http://www.ieee802.org/1/files/public/docs2019/maint-Marks-epd-lpd-0719-v02.pdf>