

# Maintenance Task Group Conference Call

September 22, 2020

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(post meeting)

# REMINDER: Introduction Material

- The following information was made available before this meeting:
  - The IEEE SA Copyright Policy slides,
  - The IEEE SA PatCom Patent Slides for Standards Development Meetings,
  - The IEEE SA slides regarding IEEE Codes of Ethics and Conduct, participation in the “individual process”, and dominance,
  - The decorum information, and
  - The reminder for participants to register their attendance in IMAT
- The information can be reviewed at:  
<http://www.ieee802.org/1/files/public/templates/admin-WG+TG-intro-0720-v01.pdf>

# 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

# Maintenance Task Group Meeting

## September 22, 2020 – 2PM EDT

### Agenda

<https://1.ieee802.org/september-2020-interim-session-electronic-maintenance-tg-agenda/>

Update: during meeting two additional topics were discussed

1. Maintenance item 0232
2. Qcr inclusion in Q-Rev and associated timing

# **JTC1 SC6 STATUS – September 2020**

# 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, cmts 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, cmts liaised Jan 2014  
Systematic Rvw – (re)confirmed March 2019  
No further action required.
- 802.1AS-2011 (Time synch)
  - FDIS passed Dec 2013, cmts liaised May 2014  
Systematic Rvw – (re)confirmed June 2019.  
No further action required.
- 802.1AB-2009 (LLDP)
  - FDIS passed Dec 2013, cmts liaised May 2014
- 802.1AR-2009 (Secure device ID)
  - FDIS passed Dec 2013, cmts 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, cmts liaised Jan 2016
- 802.1Xbx-2014
  - FDIS passed Dec 2015; cmts liaised 20 April
- 802.1Q-2014
  - FDIS passed Jan 2016; cmts 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
- IEEE 802.1AR-2018 (Secure DevID)
  - FDIS ballot passed Nov 2019 w/cmt; cmt resps rvw Mar 2020; sent Apr 2020; published.
- IEEE 802.1Q-2018 (Bridges)
  - FDIS ballot passed May 2020 w/cmt; cmt resp rvw May 2020; sent 2 June 2020

# 802.1 Stds for SC6 approval (3/3)

- For adoption - PSDO in process (FDIS ballots)
  - IEEE 802.1AE-2018 (MAC security) - pre-ballot comment response rvw/apprv 7/2019; sent 17 Sep 2019; FDIS ballot cmt resp 7/20 sent
  - IEEE 802.1Xck (802.1X YANG model) - pre-ballot comment response rvw/apprv 7/2019; sent 17 Sep 2019; FDIS ballot cmt resp 7/20 sent
  - IEEE 802.1Qcp (Bridges YANG) - pre-ballot passed July 2020; no cmts; FDIS TBA
  - IEEE 802.1Qcy (VDP extension) - pre-ballot passed July 2020; no cmts; FDIS TBA
  - IEEE 802.1AX-2020 (Link Agg) - pre-ballot passed August 2020; no cmts; FDIS TBA
- For adoption - PSDO in process (60-day pre-ballots)
  - IEEE 802.1Qcc (Stream Res Protocol) - pre-ballot passed July 2020 w/1 cmt; draft resp Sep 2020
  - IEEE 802.1AS-2020 (Timing & Synchn) - pre-ballot passed Aug 2020 w/1 cmt; draft resp Sep 2020
- Next to send - send for adoption/start ballots (when std is published)
  - IEEE 802.1CMde (Enhance Fronthaul Profiles) - motion July 2020: motion to send published std
  - IEEE 802.1AE-2018/Cor1 (MAC Sec Cor1) - motion July 2020: send for adoption late Sep/Oct.
  - IEEE 802.1X-2020 (Port-Based NW AC) - motion July 2020: send for adoption late Sep/Oct
  - IEEE 802.1Qcx (YANG for Conn Fault Mgmt) - D2 sent for info 21 Jan 20 (not send for adoption)
- For Information – send document drafts
  - IEEE 802.1X-2020 (Port-Based NW AC) - motion July 2020: pub sent 11 Aug 2020
  - IEEE 802.1AE-2018/Cor1 (MAC Sec Cor1) - motion July 2020 – pub sent 11 Aug 2020
  - P802.1Qcr (Asynchronous Traffic Shaping) - motion July 2020 – D2.3 sent 26 Aug 2020
  - P802.1CS (Link-local Registration Protocol) - motion July 2020 – D3.0 sent 26 Aug 2020
  - P802.1Qcz (Congestion Isolation) - motion July 2020 – D1.2 sent 26 Aug 2020

# Upcoming Motions

## (ePoll or at November 2020 Plenary)

- Motion to approve/send ballot comment responses for
  - **IEEE 802.1Qcc**: pre-ballot comment responses to be reviewed/approved. Ready Sep 2020
  - **IEEE 802.1AS**: pre-ballot comment responses to be reviewed/approved Ready Sep 2020
- Motion to send documents for adoption (once approved and published):
  - **IEEE 802.1Qcx**: sent for info January 2020 – won't send for adoption if in Q-Rev (2021).
  - **IEEE 802.1Qcr, IEEE 802.1Qcz, IEEE 802.1CS**: sent for info Aug 2020; will need motions to send for adoption when ready to publish.
- Motion at future plenary to send for information:
  - TBD

# **Liaisons – September 2020**

# FDIS Comment Responses

802.1AS-2020

- [ISO/IEC/IEEE 802.1AS-2020](#) – [Proposed Response](#)

802.1Qcc-2018

- [ISO/IEC/IEEE 802.1Qcc-2018](#) – [Proposed Response](#)

# Brief Vehicle Status Update

- Maintenance database site issues resolved – current status believe to be accurate:  
<https://www.802-1.org/>
- Current Document Vehicles for open items
  - 802.1ABcu/D1.0 WG ballot completed Jan 13<sup>th</sup>. Editor is preparing next draft.
  - 802.1Qcw/D1.2 WG ballot closes September 28<sup>th</sup>.
  - 802.1Qcr/D2.3 sent to RevCom. Awaiting approval
  - 802.1Qcx-2020 approved June 4<sup>th</sup>, 2020. Awaiting publication.
  - 802.1CBdb/D1.0 WG ballot closes Oct 3<sup>rd</sup>.
  - 802.1CBcv/D0.4 TG ballot completed September 10<sup>th</sup>. Comment resolution at September interim.
  - 802.1CMde-2020 approved June 4<sup>th</sup>, 2020. Awaiting publication.
  - 802.1Qcz/D1.3 WG recirc ballot completed September 8<sup>th</sup>. Preparing draft for SA balloting.
  - 802.1Qdd/D0.2 TG comment resolution completed June 24<sup>th</sup>, 2020. Editor is preparing next draft.
  - 802.1Q-Rev/D0.2 WG ballot closes September 30<sup>th</sup>.
- Open Items awaiting document vehicles
  - 0170 – waiting for 802.1BA
  - 0174 – waiting for 802.1AC
  - 0237 – waiting for 802

# New Maintenance Items

- [0275](#): BMCA conformance requirements of 5.4.1
- [0276](#): Incorrect reference in PICs item MINTA-16 of A.7
- [0277](#): Missing support of the Common Mean Link Delay Service (CMLDS)
- [0278](#): Inconsistent Clause 5 and PICS with respect to state machines
- [0279](#): externalPortConfiguration should be externalPortConfigurationEnabled
- [0280](#): time-aware should be PTP
- [0281](#): “Delay\_Req” should be “Pdelay\_Req”
- [0282](#): Replace “Company Identifier” with “Company ID”
- [0283](#): Choose appropriate “domain number” or “domainNumber”

# Existing Maintenance Items

- [0232](#): Maintenance requires: PICS inconsistent in 802.1Q-2018
- [0242](#): IEEE Std 802.1Qcp-2018: Collected issues on data consistency and others
- [0248](#): Managed objects for ECP in 802.1Q-2018
- [0270](#): Missing transmission selection algorithm configuration management
- [0271](#): Default configuration for bridges that support credit-based shaper
- [0272](#): Misuse of the word, “default” in 802.1Q-2018 clause 34.5



# Items Progressed

## 22 Sep 2020 Interim Meeting

Location: WebEx

Minutes

Number	Status	Submitted	Standard	Clause	Subject	Draft
0283	Complete then Ballot	2020-09-15	802.1AS-2020	1	Choose appropriate "domain number" or "domainNumber"	
0275	Complete then Ballot	2020-08-11	IEEE Std 802.1AS-2020	5.4.1	BMCA conformance requirements of 5.4.1	
0276	Complete then Ballot	2020-08-11	802.1AS-2020	A.7	Incorrect reference in PICs item MINTA-16 of A.7	
0277	Complete then Ballot	2020-08-11	802.1AS-2020	5.5	Missing support of the Common Mean Link Delay Service (CMLDS)	
0278	Complete then Ballot	2020-08-11	802.1AS-2020	5.4.2	Inconsistent Clause 5 and PICS with respect to state machines	
0279	Complete then Ballot	2020-08-11	802.1AS-2020	5.4.1	externalPortConfiguration should be externalPortConfigurationEnabled	
0280	Technical experts review	2020-08-11	802.1AS-2020	15	time-aware should be PTP	
0281	Complete then Ballot	2020-08-11	802.1AS-2020	10	"Delay_Req" should be "Pdelay_Req"	
0282	Complete then Ballot	2020-08-11	802.1Q-2018	4	Replace "Company Identifier" with "Company ID"	
0274	Technical experts review	2020-07-31	802.1CB-2017	10.9	802.1CB-2017 10.9 Operational per-port FRER counters	

# Items Progressed

## 22 Sep 2020 Interim Meeting

Location: WebEx

Minutes

Number	Status	Submitted	Standard	Clause	Subject	Draft
0273	Technical experts review	2020-07-24	802.1CB-2017	9.3	802.1CB-2017 request on Cl. 9.3	
0270	Technical experts review	2020-07-07	802.1Q-2018	48	Missing transmission selection algorithm configuration management	
0269	Balloting	2020-06-18	802.1Q-2018	12.31.3.2.2	Missing parameter intervalOctetMax in Clause 12.31.3.2.2	802.1Qcw/D1.2
0267	Balloting	2020-06-02	802.1Q-2018	12.31.3 & 17.2.24 & 17.7.24	AdminCycleTime and Interval max values for PSFP	802.1Qcw/D1.2
0266	Balloting	2020-05-19	802.1Q-2018	12.29.1.2.1	802.1Q-2018 12.29.1.2.1 GateControlEntry	802.1Qcw/D1.2
0264	Balloting	2020-05-05	802.1Qcp-2018	48.6.3.3	Erronous xpath statements	802.1Qcw/D1.2
0258	Balloting	2020-03-16	802.1CB-2017	7.4.3.3	802.1CB-2017 7.4.3.3 SequenceRecoveryReset	802.1CBdb/D1.0
0254	Balloting	2020-01-24	IEEE Std 802.1Q	5.4	802.1Q-2018 5.4 VLAN Bridge Component Requirements item p)	802.1Q-Rev/D0.2
0253	Balloting	2020-01-21	IEEE Std 802.1Q-2018	F.1.3.2	Incorrect spelling of Bridge	802.1Q-Rev/D0.2
0252	Technical experts review	2020-01-15	802.1Q-2018	17	802.1Q-2018 Clause 17 MIB	

# Items Progressed

## 22 Sep 2020 Interim Meeting

Location: WebEx

Minutes

Number	Status	Submitted	Standard	Clause	Subject	Draft
0249	Balloting	2019-11-14	IEEE Std 802.1Qcc-2018	46.2.3.5.2 and others	Ambiguity in 802.1Qcc TSpec parameter MaxFramesPerInterval	802.1Qcw/D1.2
0232	Technical experts review	2019-07-17	IEEE Std 802.1Q-2018	Appendix A	Maintenance requires: PICS inconsistent in 802.1Q-2018	
0210	Balloting	2018-09-11	IEEE Std 802.1Q-2018	43.3.3.4	ECP protocol code point for P802.1CS needed in 802.1Q-2018	802.1Q-Rev/D0.2