

# Maintenance Task Group Conference Calls

May 4, 2021

May 7, 2021

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# 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:  
<https://www.ieee802.org/1/files/public/templates/admin-WG+TG-intro-0321-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

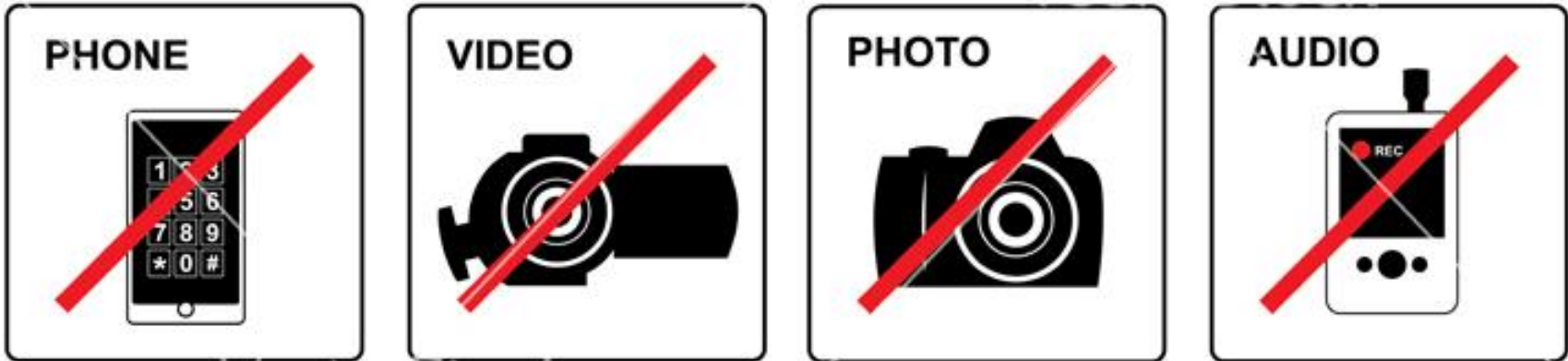
**Early identification of holders of potential  
Essential Patent Claims is encouraged**

# 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

# Decorum



- **Press (i.e., anyone reporting publicly on this meeting) are to announce their presence (*SASB Ops Manual 5.3.3.3*)**
- **Video/Audio recording by participants is prohibited (*SASB Ops Manual 5.3.3.2*)**
- **Photography by permission only (*SASB Ops Manual 5.3.3.2*)**
- **Cell phone ringers off please**

# Register Attendance for Minutes

- Please **register** your attendance at IMAT: <https://imat.ieee.org>
- This requires a free IEEE Account.
- Please create one **only** if you do not yet have an IEEE Account.

**Schedule** 7:00 8:00 9:00 10:00 11:00 12:00 13:00 14:00 15:00 16:00 17:00 18:00 19:00 20:00 21:00 22:00 23:00

TSN																	
TG																	

- Please record your attendance for an active meeting (denoted by a yellow bar) by clicking on the yellow bar. Once your attendance has been recorded, the yellow bar changes to a green bar.
- The data from IMAT is used as the meeting participant list.

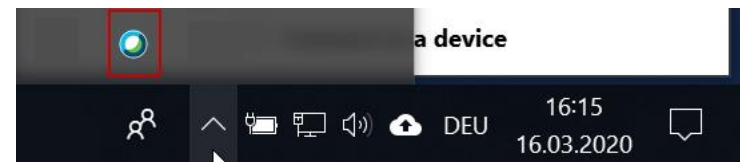
# Electronic meeting guidelines

- | Please **mute** yourself when you are not speaking
- | Please put yourself into the queue “at the mic” via the Chat, e.g.,: “+q” / “-q”
- | Please provide your information
  - | Full name
  - | Affiliation, as part of your name, e.g., in brackets
  - | (may provide them in the chat window)

## Changing your data in Webex

### Step 1

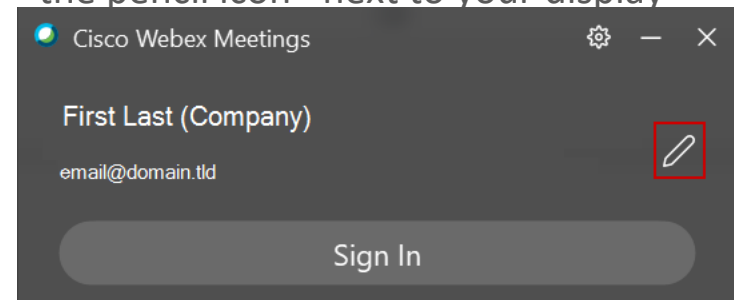
- Go to the "Display hidden icons" arrow in the Windows task bar



- Right-click on the Webex icon and select "Open Cisco Webex Meetings"

### Step 2

- In the Webex Windows that opens, Click on the pencil icon\* next to your display



Maintenance Task Group Meeting  
March 9, 2021 – 2PM ET  
Agenda

<https://1.ieee802.org/may-2021-interim-session-electronic-maintenance-agenda/>



# Inclusive Terminology update from IEEE 1588

- [IEEE 1588 Inclusive Terminology Briefing](#) – Doug Arnold

# Comment Resolution

- 802.1AS-2020/Cor1/D1.0 Comment Resolution – Geoff Garner
- 802.1ACct/D1.0 Comment Resolution – James Gilb
- [802.1Q-Rev/D0.4 Comment Resolution](#) – Mick Seaman

# **ISO/IEC JTC1 SC6 STATUS**

## **May 2021**

# 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
- IEEE 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 IEEE SA Ballot draft for information and comment
    - To submit approved standard for PSDO approval
  - Procedure for Corrigenda: one 90 day ballot and three questions.

# IEEE 802.1 Standards – PSDO Approved (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.
- 802-2014 (Overview and Architecture)
  - FDIS passed Nov 2015, cmts liaised Jan 2016  
Systematic Rvw – (re)confirmed March 2021  
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
- 802.1Xbx-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

# IEEE 802.1 Standards – PSDO Approved (2/3)

## – PSDO approved (cont'd)

- 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
- 802.1Qcd (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 802.1 Standards – PSDO Approved (3/3)

## – PSDO approved (cont'd)

- IEEE 802d-2017 (URN Namespace) - FDIS passed 3/2018; no cmts; pub Apr 2018
- IEEE 802.1CB (Frame Repl & Elim for Relbty) - FDIS passed Dec 2018; no cmts
- IEEE 802.1Qch (Cyclic Queuing & Fwding) - FDIS passed Jan 2019; no cmts
- IEEE 802.1Qci (Per stream filtering & policing) - FDIS passed Jan 2019; no cmts
- IEEE 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 & Br Nws) - FDIS ballot passed May 2020 w/cmt; cmt resp rvw May 2020; sent 2 June 2020
- IEEE 802.1AE-2018 (MAC security) - FDIS passed with cmts; cmt resp sent 7/20; pub is ISO/IEC/IEEE 8802-1AE:2020 (Ed2)
- IEEE 802.1Xck (802.1X YANG model) - FDIS passed; cmt resp 7/20 sent, Nov 2020; pub is ISO/IEC/IEEE 8802-1X:2013/Amd2-2020

# IEEE 802.1 Stds for SC6 approval

- For adoption: PSDO in process (FDIS ballots)
  - IEEE 802.1AE-2018/Cor1 (MAC Sec Cor1) - DCOR ballot passed 13 Jan 2021; no cmts; waiting for ISO publication (JH: March 2021?)
  - IEEE 802.1Qcp (Bridges YANG) (ISO/IEC/IEEE 8802-1Q:2020/FDAmD 2 (Ed 2)) - CIB passed July 2020; no cmts; FDIS ballot closes 29 July 2021
  - IEEE 802.1Qcy (VDP extension) (ISO/IEC/IEEE 8802-1Q:2020/FDAmD 3 (Ed 2)) - CIB passed July 2020; no cmts; FDIS ballot closes 29 July 2021
  - IEEE 802.1AX-2020 (Link Agg) (ISO/IEC/IEEE FDIS 8802-1AX (Ed 2)) - CIB passed August 2020; no cmts; FDIS ballot closes 29 July 2021
  - IEEE 802.1Qcc (Stream Res Protocol) (ISO/IEC/IEEE 8802-1Q:2020/FDAmD 31 (Ed 2)) - CIB cmt resp apprv 9/20; sent 21Oct20; FDIS ballot closes 8 Sep 21
  - IEEE 802.1CMde (Enh Fronthaul Profiles) (ISO/IEC/IEEE 8802-1CM:2019/FDAmD 1) - CIB passed Jan 21; no cmts; FDIS closes 8 Sep 21
  - IEEE 802.1AS-2020 (Timing & Synchn) (ISO/IEC/IEEE 8802-1AS:2021) - CIB cmt resp sent 21Oct20; FDIS closes 16 Sep 21
  - IEEE 802.1X-2020 (Port-Based NW AC) - CIB cmt resp apprv 3/21; sent 26Mar21; FDIS TBA
- For adoption: PSDO in process (60-day Committee Internal Ballots)
  - IEEE 802.1CS (Link-local Reg Protocol) - D3.0 sent for info 26 Aug 2020; Nov 2020 motion Std sent for adoption 26 April 2021; CIB TBA
- Standards to send for adoption/start ballots (send when published)
  - IEEE 802.1Qcz (Congestion Isolation) - D1.2 sent for info 26 Aug 2020; Nov 2020 motion to send when pub
- SA ballot drafts to send for information:
  - IEEE P802.1ABcu, IEEE P802.1CBcv - motion Mar 2021 – send when to SA ballot
  - P802.1Qcx (YANG for Conn Fault Mgmt) - motion Jul 2019 – D2 sent for info 21 Jan 20
  - P802.1Qcr (Asynchronous Traffic Shaping) - motion July 2020 – D2.3 sent 26 Aug 2020
  - P802.1Q-Rev-2021 (Bridges & Bridged Nws) - motion Nov 2020 – send when to SA ballot, with note about which amendments are included



# Future Motions – July 2021 Plenary

- Motion to approve/send ballot comment response(s):
  - None expected in May/July 2021.
- Motion to send draft(s) for information:
  - Any drafts that have motions to start SA ballot (or conditional) can be sent for information
  - Expect **IEEE 802.1CBdb**, **IEEE 802.1Qcw** to be ready for SA ballot next
- Motion to send standard(s) for adoption (after publication):
  - Any standards for adoption expected?
- These motions have already been approved:
  - **IEEE P802.1ABcu**, **IEEE P802.1CBcv**: motion to send for information when SA ballot starts approved March 2021
  - **IEEE 802.1Qcz**: motion to send for adoption when published approved November 2020
  - **IEEE 802.1Q-Rev**: motion to send for information approved November 2020; waiting for SA ballot to start to send draft. Include note about which amendments are rolled in: Qcc, Qcp, Qcy, Qcx, Qcr.
  - **IEEE 802.1Qcr**: motion to send for information approved July 2020; D2.3 sent for info August 2020; Will be included in IEEE 802.1Q-Rev (2021), so not send for adoption.
  - **IEEE 802.1Qcx**: motion to send for information approved July 2019; D2 sent for info January 2020 – decided not to send for adoption since it will be included in IEEE 802.1Q-Rev (2021).

# Liaisons

- Incoming:
  - LS 312: OTNT Standardization Work Plan Issue 29 - <https://www.ieee802.org/1/files/public/docs2021/liaison-sg15-LS312-OTNTStdznWorkPlan-0421.zip>
  - LS 186: Liaison response on the withdrawal of IEEE Std 802.1D-2004 - <https://www.ieee802.org/1/files/public/docs2021/liaison-SG11-LS186-8021Dwithdrawal-0421.pdf>

# 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/D1.7 WG ballot closed April 21<sup>st</sup>, 2021. Comment resolution at May interim.
  - 802.1Qcw/D1.3 WG comment resolution completed Mar 31<sup>st</sup>, 2021. Editor preparing next draft.
  - 802.1CBdb/D1.3 WG recirc ballot closed April 30<sup>th</sup>, 2021. Comment resolution at May interim.
  - 802.1CBcv/D1.2 WG recirc ballot closed April 21<sup>st</sup>, 2021. Comment resolution at May interim.
  - 802.1Qcz/D2.0 SA ballot closed Feb 21<sup>st</sup>, 2021. Recirc waiting on other dependent standards.
  - 802.1Qdd/D0.4 comment resolution completed Feb 11<sup>th</sup>, 2021. Editor is preparing next draft
  - 802.1Q-Rev/D0.4 WG recirc ballot completed April 28<sup>th</sup>, 2021. Comment resolution at May interim.
  - 802.1BA-Rev project approved. David McCall is editor and preparing initial draft.
  - 802.1AS-2020/Cor1/D0.1 – working group ballot completed April 25<sup>th</sup>, 2021. Comment resolution at May interim.
  - 802f/D0.4 – TG ballot closed April 19<sup>th</sup>, 2021. Comment resolution at May interim.
- Open Items awaiting document vehicles
  - 0174, 0298 – waiting for 802.1AC
  - 0300 – waiting for 802.1BR

# Existing Maintenance Items

- [0242](#): IEEE Std 802.1Qcp-2018: Collected issues on data consistency and others
- [0248](#): Managed objects for ECP in 802.1Q-2018
- [0278](#): Inconsistent Clause 5 and PICS with respect to state machines
- [0306](#): Add “derived-from-or-self” to the IEEE 802.1Q bridge YANG for compatibility with interfaces derived from ethernetCsmacd
- [0309](#): Preemption in 802.1Q
- [0310](#): Preemption in 802.1AC
- [0311](#): 802.1Q: Resolution of stream filters with wildcard stream\_handle specification
- [0313](#): First frame of the stream

# New Maintenance Items

- [0314](#): network media and PHY
- [0315](#): Clarification on null-value
- [0316](#): Scaling Parameters for FRER
- [0317](#): Clarification on precedence in Stream Identity Table
- [0319](#): Race condition in 802.1Q-2018 between List Config state machine (clause 8.6.9.3) and Cycle Timer state machine (clause 8.6.9.1)
- [0322](#): Alternate set of information needed to correlate preciseOriginTimestamp