

Maintenance Task Group Electronic Meetings

March 8, 2022
March 11, 2022

Paul Congdon

REMINDER: Introduction Material

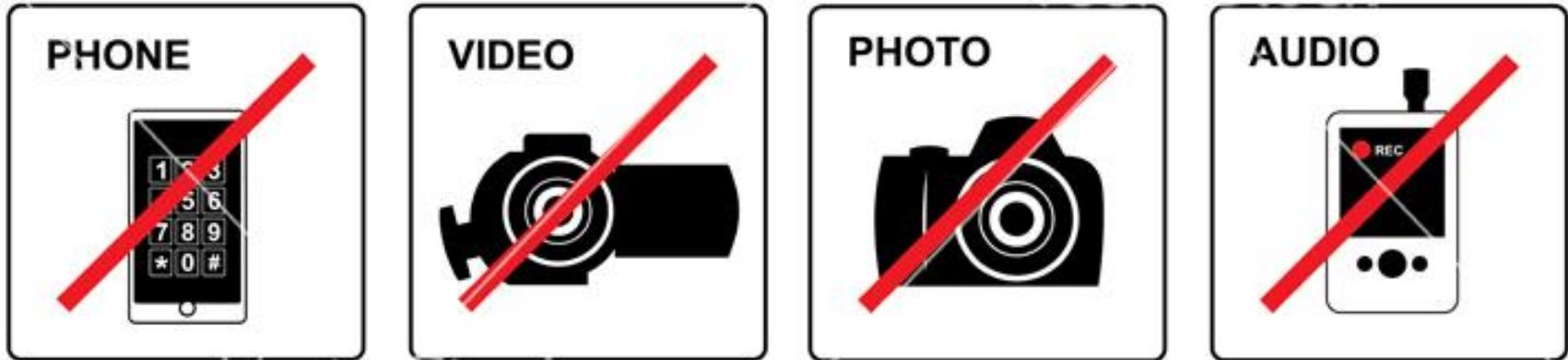
- The following information was made available before this meeting:
 - The IEEE Policy slides,
 - The IEEE SA Copyright and Participation Policies
- The information is part of “MEETING INTRODUCTION” at:
<https://www.ieee802.org/1/files/public/templates/admin-TG-intro-0721-v01.pdf>

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** (*5.3.3.3 of SASB Operations Manual*)
- **Video/Audio recording by participants is prohibited** (*5.3.3.2 of SASB Operations Manual*)
- **Photography by permission only** (*5.3.3.2 of SASB Ops Manual*)
- **Cell phone ringers off please**

ATTENDANCE

Please **record** your attendance in IMAT at <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.

- Please **promptly** email your affiliation to the minute taker if you are unable to record your attendance in IMAT.

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”

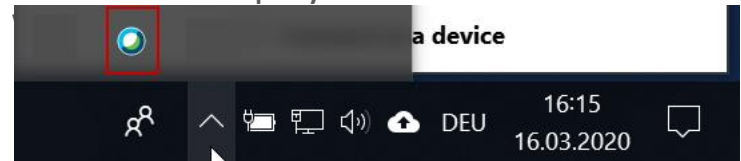
Please provide your information

- First and last names
- Affiliation, after your last name, e.g., in brackets
- (may provide them in the Chat window)

Changing your data in Webex

Step 1

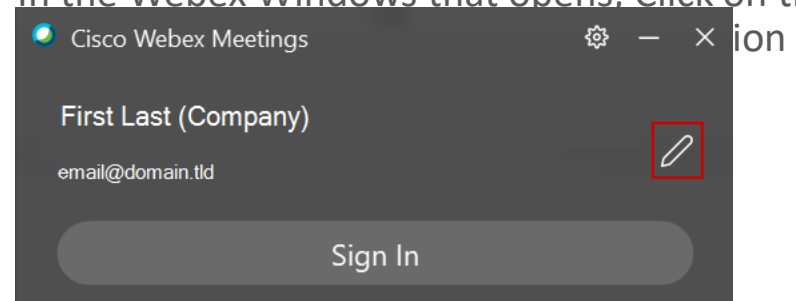
- Go to the "Display hidden icons" arrow in the



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

Step 2

- In the Webex Windows that opens, Click on the



Maintenance Task Group Meeting

March 8, 2022 – 2PM ET

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Agenda(s)

<https://1.ieee802.org/march-2022-plenary-session-electronic-maintenance-tg-agenda/>

Maintenance Motions Summary

- For the EC Consent Agenda:
 - Approve liaison of the comment responses to ISO/IEC JTC1/SC6 under the PSDO agreement
 - Approve liaison response ITU-T Joint Coordination Activity (JCA): LS on Invitation to update the information in the IMT2020 roadmap
- For 802.1 WG Internal
 - Authorize the Maintenance TG to hold electronic meetings

802 PARs Under Consideration

- [802 PARs Under Consideration](#)
 - 802.3dg – Amendment: Physical Layer Specifications and Management Parameters for 100Mb/s Operation and Associated Power Delivery over a Single Balanced Pair of Conductors, [PAR](#) and [CSD](#) – [draft response](#)
 - 802.3cz – Amendment: Physical Layer Specifications and Management Parameters for multi-gigabit optical Ethernet using graded-index **glass** optical fiber for application in the automotive environment, [PAR Modification](#), [CSD Modification](#) – [draft response](#)
 - IEEE P802.3dh – Amendment: Physical Layer Specifications and Management Parameters for multi-gigabit optical Ethernet using graded-index **plastic** optical fiber for application in the automotive environment, [PAR](#) and [CSD](#) – [draft response](#)
 - 802.15.6ma – Standard – Wireless Body Area Networks, [PAR Revision](#) and [CSD](#) – [draft response](#)

P802.1ASdr Editor's update

- [Editor's update](#) - Silvana Rodrigues

ISO/IEC JTC1 SC6 STATUS

March 2022

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 Stds for SC6 approval

- For adoption: PSDO in process (FDIS ballots)
 - IEEE 802.1X-2020 (Port-Based NW AC) (will be ISO/IEC/IEEE 8802-1X:2021) - CIB cmt resp sent 26Mar21; FDIS closed 17 Nov with 2 comments from China NB. Rvw Mar 2022
 - IEEE 802.1CS (Link-local Reg Protocol) - Nov 2020 motion to send std for adoption; CIB passed 31 Jul no cmts; FDIS closes 26 May 22

- For adoption: PSDO in process (60-day Committee Internal Ballots)
 - IEEE 802.1ACct - Nov 2021 motion; CIB closes 10 April 2022
 - IEEE 802.1CBcv - Nov 2021 motion; sent 25 Feb 22; wait for CIB
 - IEEE P802.1ABcu, P802.1BA-Rev, P802.1ABdh, P802.1AS-2020/Cor 1, P802.1ACct, P802.1CBdb, P802.1Q-Rev - motion Nov 2021 – send for adoption when published

- Standards that are under Systematic Review in ISO/IEC JTC1
 - 802.1BA-2011 (AVB systems) - closes 4 March 2022
 - 802.1BR-2012 (Port extender) - closes 4 March 2022

IEEE 802.1 Stds for SC6 approval

- Standards sent for information (next step: send for adoption when published)
 - IEEE P802.1ABcu
 - motion Mar 2021 – D2 sent for info 23 July 2021
 - IEEE P802.1CBdb, P802.1CBcv, P802.1ACct, P802.1ABdh, P802.1AS-2020/Cor 1, P802.1BA-Rev
 - motion Jul 2021 – send for info when SA ballot Sent 22 Sept 2021
 - IEEE P802.1Q-Rev-2022(Bridges & Bridged Nws)
 - motion Nov 2020 – SA ballot in Sep 2021, sent 22 Sept noting amendments included
 - P802.1Qcz (Congestion Isolation)
 - D1.2 sent for info 26 Aug 2020; Nov 2020 motion to send when pub (waiting for Q-Rev publication)
 - P802.1Qcr (Asynchronous Traffic Shaping)
 - motion July 2020 – D2.3 sent 26 Aug 2020; not send for adoption since rolled into Q-Rev
 - P802.1Qcx (YANG for Conn Fault Mgmt)
 - motion Jul 2019 – D2 sent for info 21 Jan 20; not send for adoption since rolled into Q-Rev.
- For information: send draft when SA ballot starts

IEEE 802.1 Standards – PSDO Approved (1/4)

– PSDO approved: 38 completed

- 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 (2/4)

– 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 (3/4)

– PSDO approved (cont'd)

- 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 802.1AE-2018/Cor1 (MAC Sec Cor1) ISO/IEC/IEEE 8802-1AE:2020/COR 1:2021 - DCOR ballot passed 13 Jan 2021; no cmts; ISO/IEC publication June 2021
- IEEE 802.1Qcp (Bridges YANG) ISO/IEC/IEEE 8802-1Q:2020/Amd 2:2021 - FDIS passed Jul 21; no cmts; published 9/21
- IEEE 802.1Qcy (VDP extension) ISO/IEC/IEEE 8802-1Q:2020/Amd 3:2021 - FDIS passed Jul 21; no cmts; published 9/21
- IEEE 802.1AX-2020 (Link Agg) ISO/IEC/IEEE 8802-1AX:2021 - FDIS passed Jul 21; no cmts; published 9/21

IEEE 802.1 Standards – PSDO Approved (4/4)

– PSDO approved (cont'd)

- IEEE 802.1Qcc (Stream Res Protocol)
(ISO/IEC/IEEE 8802-1Q:2020/Amd 31 (Ed 2)) - FDIS passed; cmt resp 11/21, sent Jan 2022
- IEEE 802.1CMde (Enh Fronthaul Profiles)
(ISO/IEC/IEEE 8802-1CM:2019/Amd 1) - FDIS passed; cmt resp 11/21, sent Jan 2022
- IEEE 802.1AS-2020 (Timing & Synchn)
(ISO/IEC/IEEE 8802-1AS:2021 (Ed 2)) - FDIS passed; cmt resp 11/21, sent Jan 2022

Motions – March 2022 Plenary

- Motion to approve/send ballot comment response(s):
 - [Send FDIS ballot comment responses for IEEE 802.1X-Rev](#)
- Motion to send draft(s) for information:
 - *Any drafts that have motions to start SA ballot (or conditional) can be sent for information*
- Motion to send standard(s) for adoption (after publication):
 - *Any standards for adoption expected?*
- These motions have already been approved:
 - **IEEE 802.1Qcz**: motion to send for adoption when published approved November 2020; waiting for IEEE 802.1Q-Rev to be published.
 - **IEEE 802.1Q-Rev**: motion to send for information approved November 2020; sent 22 Sept 2021 with note that these 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).
 - **IEEE 802.1ABcu, IEEE 802.1CBdb, IEEE P802.1CBcv, IEEE 802.1ABdh, P802.1AS-2020/Cor 1, P802.1BA-Rev, P802.1ACct, and IEEE 802.1Q-Rev**: Motion to send when published approved November 2021.

Liaisons

Incoming

- IEEE 1588: [Liaison Statement on inclusive terminology](#)
- IEEE 802.3: [Liaison from IEEE 802.3 re: status of IEEE P802.3cx Task Force](#) and [Draft IEEE P802.3cx D2.2](#)

FYI – Future Response Required

- ITU-T SG15: [LS351: OTNT Standardization Work Plan Issue 30](#)

Outgoing

- ITU-T Joint Coordination Activity (JCA): [LS on Invitation to update the information in the IMT2020 roadmap](#)
- SC6 ballot comment responses
 - FDIS ballot comments on IEEE 802.1X-2020 ([SC6 N17643](#)) - [draft response.](#)

P802.1Q-Rev

- P802.1Q-Rev/D1.0 Comment Resolution - Mick Seaman

P802-Rev PAR Development

- [P802-Rev PAR](#) – Roger Marks

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-2021 published.
 - 802.1Qcw/D1.3 WG comment resolution completed Mar 31st, 2021. Editor preparing next draft.
 - 802.1CBdb-2021 published Mar 8th, 2022.
 - 802.1CBcv-2021 published Feb 18th, 2022.
 - 802.1Qcz/D2.1 SA recirc comment resolution completed Jan 2022. Editor preparing next draft
 - 802.1Qdd/D0.5 TG comment resolution completed Oct 18th, 2021. Editor preparing next draft
 - 802.1Q-Rev/D1.0 SA ballot closed Oct 8th, 2021. Comment resolution continues at March plenary.
 - 802.1BA-2021 published Dec 17th, 2021.
 - 802.1AS-2020/Cor1-2021 published Mar 8th, 2022.
 - 802f/D1.1 WG ballot comment resolution completed Feb 25th, 2022. Editor preparing next draft.
 - 802.1Qdj/D0.2 TG ballot completed Jan 12th, 2022. Comment resolution continues at March plenary.
- Open Items awaiting document vehicles
 - 0174, 0298 – waiting for 802.1AC
 - 0300 – waiting for 802.1BR
 - 0315, 0338 – waiting for 802.1CB
 - 0339 – waiting for 802.1AB

Existing Maintenance Requests

- [0242](#): IEEE Std 802.1Qcp-2018: Collected issues on data consistency and others
- [0248](#): Managed objects for ECP in 802.1Q-2018
- [0311](#): 802.1Q: Resolution of stream filters with wildcard stream_handle specification
- [0314](#): network media and PHY
- [0324](#): Use of Tick in List Execute state machine (802.1Q) – Max Turner
- [0325](#): AVB latency calculation
- [0330](#): Incorrect definition of BucketEmptyTime in IEEE Std 802.1Qcr-2020
- [0333](#): Wildcard support for tsnCpeNullDownDestMac