

Maintenance Task Group Hybrid Meeting

November 14, 2023

November 15, 2023

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:
<http://www.ieee802.org/1/files/public/templates/admin-TG-intro-0721-v01.pdf>

REGISTRATION FEE

**Access to this session*
requires a registration fee.**

**Please check the session
announcement for details
before attending.**

* IEEE 802.1 holds 3 plenary sessions and 3 interim sessions a year.
No registration fee is required for IEEE 802.1 electronic meetings held between these sessions.

MEETING INTRODUCTION

FOR IEEE 802.1 TASK GROUPS



MEETING INTRODUCTION

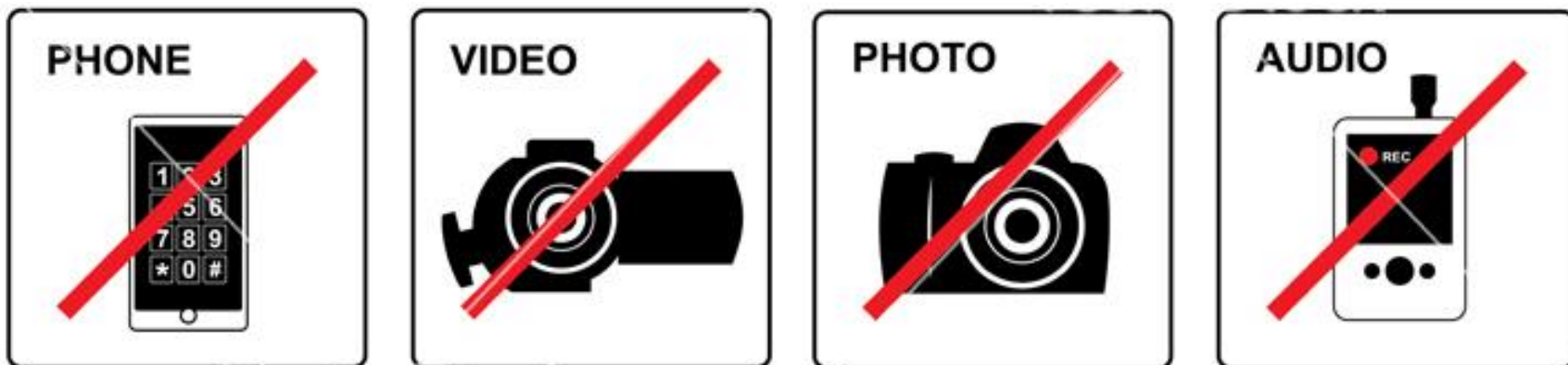
- **Call for Potentially Essential Patents**
- **Decorum**
- **Attendance**
- **Electronic Meeting Guidelines**
- **Policies provided in advance**
 - **IEEE Patent Policy**
 - **IEEE SA Copyright Policy**
 - **IEEE SA Participation Policy**

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** provide 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”

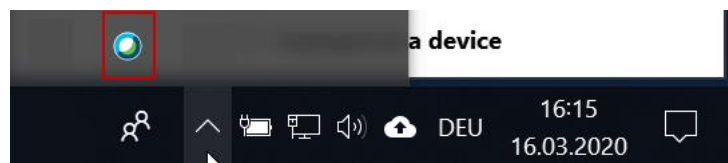
Please provide your information

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

Changing your data in Webex

Step 1

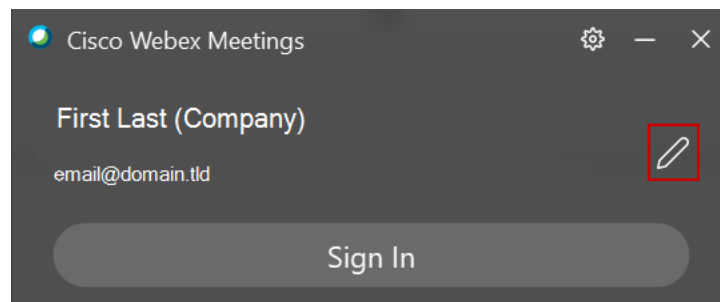
- Go to the "Display hidden icons" arrow in the Windows task bar



- 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 information



Maintenance Task Group Meeting

November 14, 2023 – 8:00 HST

Agenda

<https://1.ieee802.org/november-2023-plenary-session-maintenance-tg-agenda/>

- Meeting Introduction
- Approval of Agenda
- Maintenance Project Status
- Review of Maintenance Motions
- [802 PARs under consideration](#) at the November Plenary
 - 802.15.4ad (SUN PHY), 802.19.3a (Enhanced sub 1GH Coexistence)
- Liaison Activity – Karen Randall
 - Review Incoming and Outgoing Liaisons
- P802.1ASdr Comment resolution – Silvana Rodrigues
- P802.1Q-2022Rev update – Mick Seaman
- SC6 Status – Karen Randall
- Brief Vehicle Review (changed from published agenda)
- New Maintenance Requests
- Existing Maintenance Requests (changed from published agenda)
- Any Other Business

Maintenance Task Group Meeting

November 15, 2023 – 8:00 HST

Agenda

<https://1.ieee802.org/november-2023-plenary-session-maintenance-tg-agenda-p802-revc-comment-resolution/>

- Meeting Introduction
- Approval of Agenda
- [P802-REVC](#) comment resolution – James Gilb
- Any Other Business
- Future Meetings

Maintenance TG Project Status

- Active Projects

- IEEE [P802.1ASdr](#) – Amendment: Inclusive Terminology
- IEEE [P802.1CS-2020/Cor1](#) – Corrigendum to IEEE Std 802.1CS-2020
- IEEE [P802-REVc](#) – Revision of IEEE Std 802-2014 (roll-up of amendments)
- IEEE [P802.1Q-2022-Rev](#) – Revision of IEEE Std 802.1Q-2022 (roll-up of amendments)
- IEEE [P802.1AS-2020-Rev](#) – Revision of IEEE Std 802.1AS-2020 (roll-up of amendments)

Motion Summary

- For EC Consent Agenda
 - Approve submission of the drafts to ISO/IEC JTC1/SC6 for information under the PSDO agreement
 - Approve submission of the drafts to ISO/IEC JTC1/SC6 for adoption under the PSDO agreement
 - Approve responses to ballot comments received from SC6 on CIB ballots
 - Approve liaison statements
 - Conditionally approve sending P802-REVc D2.0 to Standards Association ballot
 - Conditionally approve sending P802.1ASdr D2.0 to RevCom
- For 802.1 WG Internal
 - Authorize the Maintenance TG to hold electronic meetings

July Motion Summary

- Liaison responses were sent to:
 - ITU-T JCA
 - ITU-T SG15
 - ISO/IEC JTC1/SC6

IEEE 802 PARs under consideration

P802.15.4ad – IEEE Standard for Low-Rate Wireless Networks
Amendment: Data rate and range extensions to IEEE 802.15.4 Smart
Utility Network (SUN) Physical layer (PHY), [PAR](#) and [CSD](#)

- IEEE 802.1 draft comments to be reviewed:

<https://www.ieee802.org/1/files/public/docs2023/admin-PAR-CSD-comments-802.19.3a-1123-v02.pdf>

P802.19.3a – IEEE Recommended Practice for Local and Metropolitan
Area Networks–Part 19: Coexistence Methods for IEEE 802.11 and
IEEE 802.15.4 Based Systems Operating in the Sub-1 GHz Frequency
Bands Amendment: Additional recommendations for improved
coexistence, [PAR](#) and [CSD](#)

- IEEE 802.1 draft comments to be reviewed:

<https://www.ieee802.org/1/files/public/docs2023/admin-PAR-CSD-comments-802.15.4ad-1123-v03.pdf>

Incoming Liaisons (new)

- [Liaison reply](#) from IEEE 802.3 to **Ultra Ethernet Consortium** (UEC) – IEEE 802.1 is copied for information [TSN, NENDICA, Maintenance]
- [Liaison](#) from **ITU-T JCA**: LS on Invitation to update the information in the IMT2020 roadmap [Maintenance]
- IAB/IESG/IEEE 802 Coordination
 - MAC Address Device Identification for Network and Application Services (MADINAS)
 - [Randomized and Changing MAC Address](#) – WG last call
 - [Randomized and Changing MAC Address Use cases](#)

Outgoing Liaisons

- Discuss if any

P802.1ASdr Comment resolution

- P802.1ASdr – Amendment: Inclusive Terminology
 - <https://1.ieee802.org/maintenance/802-1asdr/>
 - SA recirc ballot for D1.2 closed with 2 new comments and no new NO votes.

P802.1Q-2022Rev update

- P802.1Q-2022-Revision – Bridges and Bridged Networks
 - <https://1.ieee802.org/maintenance/802-1q-2022-rev/>

ISO/IEC JTC1 SC6 STATUS

November 2023

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 802.1ACct (Support for IEEE Std 802.15.3) - Nov 2021 motion; CIB passed 10 April 2022 with 1 cmt; Resp July 2022; FDIS ballot passed w cmts 24 Mar 2023; response approved July 2023 (and sent to SC6)
- IEEE 802.1BA-Rev (AVB Systems) - Nov 21 motion; CIB passed 24 Jun 22 (6N17847) w 1 cmt Resp July 2022; FDIS ballot passed w cmts 24 Mar 2023 response approved July 2023 (and sent to SC6)

– For adoption: PSDO in process (60-day Committee Internal Ballots)

- IEEE Std 802.1Q-2022 (Bridges & Bridged NWs) - motion Nov 2021 to send for adoption when pub CIB passed 26 March 2023 w China NB cmt; response approved July 2023 (and sent to SC6); wait for FDIS to start
- IEEE Std 802.1Qcz (Congestion Isolation) - D1.2 sent for info 26 Aug 2020; Nov 20 motion; sent 24 Aug 2023; CIB ballot closed 12 Nov 2023 w cmt
- IEEE Std 802.1AEdk (MACsec Privacy Protection) - D2.1 sent for info 2 Sep 22; Mar 23 - sent 24 Aug 2023 CIB ballot closed 12 Nov 2023 w cmt

– Standards that are under Systematic Review in ISO/IEC JTC1

- IEEE 802.1AC-2016 (MAC Svc Defn) - Systematic Rvw – (re)confirmed Sept 2023. No further action required.

IEEE 802.1 Stds for SC6 approval

- Approved draft standards sent for information (next step: send for adoption when published)
 - IEEE P802f (YANG Data Model for Ethertypes) - motion Jul 2022 – D2 sent for info 9 Feb 23; July 2023 motion to send when pub
 - IEEE P802.1Qcw (YANG for Traffic, Preemption, etc) - motion Jul 2022 – D2 sent for info 21 Dec 22; July 2023 motion to send when pub
 - IEEE P802.1Qcj (Auto Attch to PBB services) - motion Nov 2022 – D2 sent for info 20 Dec 22; July 2023 motion to send when pub
- For information: send draft standards when SA ballot starts
 - IEEE P802.1CS-2020/Cor1 (Link-local Reg Protocol) - motion Mar 2023 – D2 sent for info Oct 2023
 - IEEE P802.1ASdr (TSN Inclusive Term) - motion Jul 2023 – D1.2 sent for info Oct 2023
 - IEEE P802.1DC (QoS) - motion Jul 2023 – D3 sent for info Oct 2023
 - IEEE P802.1ASdn (YANG data model) - motion Jul 2023

IEEE 802.1 Standards – PSDO Approved (1/4)

– PSDO approved: 42 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
Systematic Rvw – (re)confirmed Dec 2022.
No further action required.
- 802.1AC-2016 (MAC Svc Def) - FDIS passed 3/2018 – cmt resps sent Apr 2018
published Apr 2018;
Systematic Rvw – (re)confirmed March 2019.
No further action required.
- 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)

IEEE 802.1 Standards – PSDO Approved (2/4)

– PSDO approved (cont'd)

- 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
Systematic Rvw – (re)confirmed March 2022
No further action required.
- 802.1BR-2012 (Port extender) - FDIS passed August 2016; no comments
Systematic Rvw – (re)confirmed March 2022
No further action required.
- 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

IEEE 802.1 Standards – PSDO Approved (3/4)

– PSDO approved (cont'd)

- 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) - 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) - DCOR ballot passed 13 Jan 2021; no cmts; ISO/IEC publication June 2021

IEEE 802.1 Standards – PSDO Approved (4/4)

– PSDO approved (cont'd)

- 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 802.1Qcc (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
- IEEE 802.1X-2020 (Port Based Nw AC)
(ISO/IEC/IEEE 8802-1X:2021) - FDIS passed; cmt resp 3/22, sent Mar 2022
- IEEE 802.1CS (Link-local Reg Protocol)
(ISO/IEC/IEEE 8802-1CS:2022) - FDIS passed June 22; no cmts; published 7/22
- IEEE 802.1CBdb (FRER: Ext Stream ID Fns) - FDIS passed Jan 2023; no cmts
- IEEE 802.1CBcv (FRER: YANG) - FDIS passed Jan 2023; no cmts
- IEEE 802.1ABcu (YANG Data Model) - FDIS passed June 2023; no cmts
- IEEE 802.1ABdh (Multi-frame PDUs) - FDIS passed June 2023; no cmts
- IEEE 802.1ACct (Support for IEEE Std 802.15.3) - FDIS passed; cmt resp 7/23, sent Aug 23
- IEEE 802.1BA-Rev (AVB Systems) - FDIS passed; cmt resp 7/23, sent Aug 23

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
 - 802.1Qdd/D0.7 TG ballot comment resolution completed. Further TG ballot is next.
 - 802.1Qdj/D1.3 WG recirc ballot comment resolution completed. Motion for SA ballot is next.
 - 802.1ASdm/D1.3 WG recirc ballot comment resolution in process.
 - 802.1ASdn/D1.2 WG recirc ballot comment resolution. Motion for SA ballot is next.
- Open items awaiting document vehicles
 - 309 – waiting for 802.1Q-2022-Rev
 - 353 – waiting for 802.1X
 - 339 – waiting for 802.1AB
 - 174, 298, 310 – waiting for 802.1AC
 - 352 – waiting for 802.1AE
 - 300 – waiting for 802.1BR (now inactive reserved)
 - 315, 338, 344 – waiting for 802.1CB

New Maintenance Requests

- (none)

Existing Maintenance Requests

- 0301: ieee8021QBridgeStaticUnicastReceivePort and ieee8021QBridgeStaticMulticastReceivePort – Norm Finn (Qcw/d2.0)
- 0309: Preemption in 802.1Q – Johannes Specht (Waiting for 802.1Q-2022Rev)
- 0310: Preemption in 802.1AC – Johannes Specht (Waiting for 802.1AC)
- 0312: StreamID as a key for YANG lists – Don Fedyk
- 0314: network media and PHY – Johannes Specht
- 0343: Handling of stream_handle in Active Stream – Max Turner
- 0362: IEEE 802.1AS Revision Request on invoking the MDpDelay Sms w/o CMLDS – Max Turner
- 0363: IEEE 802.1Q-2022 maximum SDU size – Christian Boiger
- 0364: Stream split table in IEEE 802.1CBcv-2021 FRER – Josef Dorr (Waiting for P802.1CB-2017/Cor1)

Maintenance Task Group Meeting

November 15, 2023 – 8:00 HST

Agenda

<https://1.ieee802.org/november-2023-plenary-session-maintenance-tg-agenda-p802-revc-comment-resolution/>

- Meeting Introduction
- Approval of Agenda
- [P802-REVC](#) comment resolution – James Gilb
- Unaddressed Agenda Items from November 14, 2023
- Any Other Business

P802-REVc comment resolution

- IEEE Standard P802-REVc – Revision to IEEE Standard 802-2014
 - <https://1.ieee802.org/maintenance/802-1cs-2020-cor1-corrigendum-to-ieee-standard-802-1cs-2020-2/>

Any Other Business?