

# Maintenance Task Group Hybrid Meeting

November 12, 2024

# 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-0324-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.

# Maintenance Task Group Meeting

## November 12, 2024 – 8:00 PT

### Agenda

- <https://1.ieee802.org/november-2024-plenary-session-maintenance-tg-agenda/>

### Agenda

- Maintenance Project Status
  - Timeline update on P802.1Q-2022-REV
- Comment Review on [802 PARs Under Consideration](#)
- [Liaison Activity](#) – Karen Randall
- Review of Maintenance Motions
- Review of Outstanding Maintenance Items and next steps
- [Editor's Update on P802.1ACea](#)
- [Editor's Update on P802.1CB-2017/Cor1](#)

# Maintenance TG Project Status

- Active Projects
  - [P802-REVc](#)
  - [P802.1Q-2022-Rev](#) - Update from Mick
  - [P802.1AS-2020-Rev](#)
  - P802.1AB-2016-Rev
  - P802.1AC-2016-Rev
  - [P802.1ACea](#) - Update Later from Marco
  - [P802.1CB-2017/Cor1](#) - Update Later from Christophe

# IEEE 802 PARs under consideration

- P802.11bq – Amendment – Enhancements for Integrated mmWave (IMMW) WLAN, [PAR](#) and [CSD](#)
- P802.16 – Standard for Air Interface for Broadband Wireless Access Systems – Revision to IEEE Standard 802.16-2017, [PAR](#)

No comments generated from pre-plenary review

# IEEE 802 PARs under consideration

- [P802.1CB-2017-Revision](#)

# Liaison Status

- Review ISO/IEC JTC1 SC6 responses to standards sent for information and adoption
- Review [LS 135](#) on OTNT Standardization Work Plan Issue 34 (with attachment)



# IEEE 802.1 Stds for SC6 approval

## – For adoption: PSDO in process (FDIS 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; FDIS ballot closed 4 July 2024 with China NB cmt and India NB cmts – response sent July 2024
- IEEE 802.1CS-2020/Cor1 (Link-local Reg Protocol) - Nov 2023 motion to send; sent 29 April 2024; DCOR ballot closed/passed 7 Aug 2024 – no comments
- IEEE Std 802.1Qcz (Congestion Isolation) - Nov 2020 motion; sent 24 Aug 2023; CIB passed w 1 cmt; resp to SC6; FDIS ballot closed Sep 2024 - 1 cmt rvw 11/24
- IEEE Std 802.1AEdk (MACsec Privacy Protection) - Mar 2023 motion - sent 24 Aug 2023; CIB passed w 1 cmt; resp to SC6; FDIS ballot closed Sep 2024 - 1 cmt rvw 11/24
- IEEE Std 802f (YANG Data Model for Ethertypes) - Jul 2023 motion – sent 22 Jan 2024; CIB passed w 1 cmt; resp sent 7/24; FDIS closes 12 Feb 2025
- IEEE P802.1Qcw (YANG for Traffic, Preemption, etc) - Jul 2023 motion – sent 16 Nov 2023; CIB passed w 1 cmt; resp sent March 2024; FDIS closes 12 Feb 2025
- IEEE Std 802.1Qcj (Auto Attch to PBB services) - Jul 2023 motion – sent 16 Nov 2023  
CIB ballot closed 3 Feb 2024; CIB passed w 1 cmt; resp sent March 2024; FDIS ballot closes 3 March 2025
- IEEE Std 802.1ASdr (Inclusive Terminology) - Nov 2023 motion – sent 6 Mar 2024  
CIB ballot closed 27 May; no cmts; FDIS closes 10 Mar 25

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

- IEEE P802.1Qdj (Config Enhancements for TSN) - motion Mar 2024 – sent 14 July 2024  
CIB ballot closed/passed 26 Oct 2024 w 1 cmt – rvw 11/24
- IEEE P802.1Qdx (YANG Data Models for the CBS) - motion Mar 2024 – Sent 17 Sep 2024;  
CIB ballot open/closes 27 November 2024
- IEEE 802.1ASdm (Hot Standby) - July 2024 motion – CIB open/closes 31 Dec 2024
- IEEE 802.1ASdn (YANG data model) - July 2024 motion – CIB open/closes 31 Dec 2024

# IEEE 802.1 Stds for SC6 approval

- For adoption – waiting for 60-day Committee Internal Ballot
  - IEEE P802.1DC (QoS) - motion Jul 2023 – D3 sent for info Oct 2023;  
July 2024 motion to send for adoption after pub
  
- Approved draft standards send for information (next step: motion to send for adoption when published)
  - IEEE P802.1DG (TSN Profile for Automotive Comms) - motion July 2024 – D4 sent 17 Sept 2024
  - IEEE P802.1Qdy (YANG for the MSTP) - expect to have motion to send for adoption Nov 2024
  - IEEE P802-REVc (Revision to IEEE Std 802-2014) - expect to have motion to send for adoption Nov 2024
  
- For information: send draft standards when SA ballot starts
  - IEEE P802.1Qdy (YANG for the MSTP) - motion July 2024 – D2.1 sent 8 Nov 2024
  - IEEE P802-REVc (Revision to IEEE Std 802-2014) - motion Nov 2023 – D2 sent 27 June 2024
  - IEEE P802.1DP (TSN Profile for aerospace) - expect to have motion to send for information Nov 2024
  
- Standards that are under Systematic Review in ISO/IEC JTC1
  - IEEE 802.1CM (TSN for Fronthaul) - closes 2 December 2024

# IEEE 802.1 Standards – PSDO Approved (1/5)

## – 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;  
Sys Rvw – (re)confirmed 3/2019, 9/2023.  
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 (2/5)

## – 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 (3/5)

## – PSDO approved (cont'd)

- 802d-2017 (URN Namespace) - FDIS passed 3/2018; no cmts; pub Apr 2018
- 802.1CB (Frame Repl & Elim for Reliability) ISO/IEC/IEEE 8802-1CB:2019 - FDIS passed Dec 2018; no cmts; Systematic Rvw – (re)confirmed June 2024
- 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) ISO/IEC/IEEE 8802-1AE:2020/COR 1:2021 - DCOR ballot passed 13 Jan 2021; no cmts; ISO/IEC publication June 2021

# IEEE 802.1 Standards – PSDO Approved (4/5)

## – 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 802.1 Standards – PSDO Approved (5/5)

## – PSDO approved (cont'd)

- 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
- IEEE 802.1Q-2022 (Bridges & Br Nws) - FDIS ballot passed 7/24 w/cmt; cmt response sent July 2024
- IEEE 802.1CS-2020/Cor1 (Link-local Reg Protocol) - DCOR ballot passed 8/24 – no comments
- IEEE Std 802.1Qcz (Congestion Isolation) - FDIS ballot passed 7/24
- IEEE Std 802.1AEdk (MACsec Privacy Protection) - FDIS ballot passed 7/24

# ISO/IEC JTC1/SC6

- ISO/IEC JTC1/SC6 Ballot comment response review:
  - <https://www.ieee802.org/1/files/public/docs2024/draft-liaison-SC6CommentResponseQdjCIB-1124.pdf>
  - <https://www.ieee802.org/1/files/public/docs2024/draft-liaison-SC6CommentResponseQczFDIS-1124.pdf>
  - <https://www.ieee802.org/1/files/public/docs2024/draft-liaison-SC6CommentResponseAEdkFDIS-1124.pdf>



# LS135 From OTNT

- <https://www.ieee802.org/1/files/public/docs2024/liaison-response-cover-itu-t-sg15-otnt-swp-1124.pdf>
- <https://www.ieee802.org/1/files/public/docs2024/draft-liaison-itu-t-SG15-LS135-OTNTStdznWorkPlan34-att-1124.docx>

# Motion Summary

- For the EC Consent Agenda:
  - P802REVc to RevCom
  - P802.1CB-2016-Revision PAR to NesCom
- Liaison Motions:
  - Motion to approve/send ballot comment response(s):
    - Send FDIS ballot comment responses on IEEE Std 802.1AEdk and IEEE Std 802.1Qcz
    - Send CIB ballot comment responses on IEEE Std 802.1Qdj
  - Motion to send draft(s) for information (when SA ballot starts):
    - Send standard(s) to ISO/IEC JTC1 SC6 for information under the PSDO agreement, when SA ballot starts: IEEE 802.1DP
  - Motion to send standard(s) for adoption (after publication):
    - Send standard(s) to ISO/IEC JTC1 SC6 for adoption under the PSDO agreement, when published: IEEE 802.1Qdy, IEEE 802-REVc
  - Motion to send liaison response to ITU-T SG15 LS 135 on OTNT Standardization Work Plan Issue 34
- For 802.1 WG Internal
  - Authorize TG Balloting for P802.1AC-2016-REV.
  - Authorize a PAR modification for P802.1AS-2020-Revision

# Existing Maintenance Requests

- [0363](#) – IEEE 802.1Q-2022 maximum SDU size
- [0374](#) – YANG data types scaled-ns, unscaled-ns and float64 in IEEE Std 802.1ASdn

# P802.1ACea Editors Update

- Draft Document being introduced in 802.15 to support P802.1ACea
  - <https://mentor.ieee.org/802.15/dcn/24/15-24-0594-00-006a-mac-services-support-for-ieee-p802-1acea.pdf>

# P802.1CB-2017/Cor1

- Continuation of update from Christophe
  - <https://www.ieee802.org/1/files/public/docs2024/maint-mangin-CB-Cor1-0724-v01.pdf>

**Any Other Business?**