Maintenance Task Group Electronic Meeting

November 15, 2022 (2-meetings)
November 17, 2022

Paul Congdon

REMINDER: Introduction Material

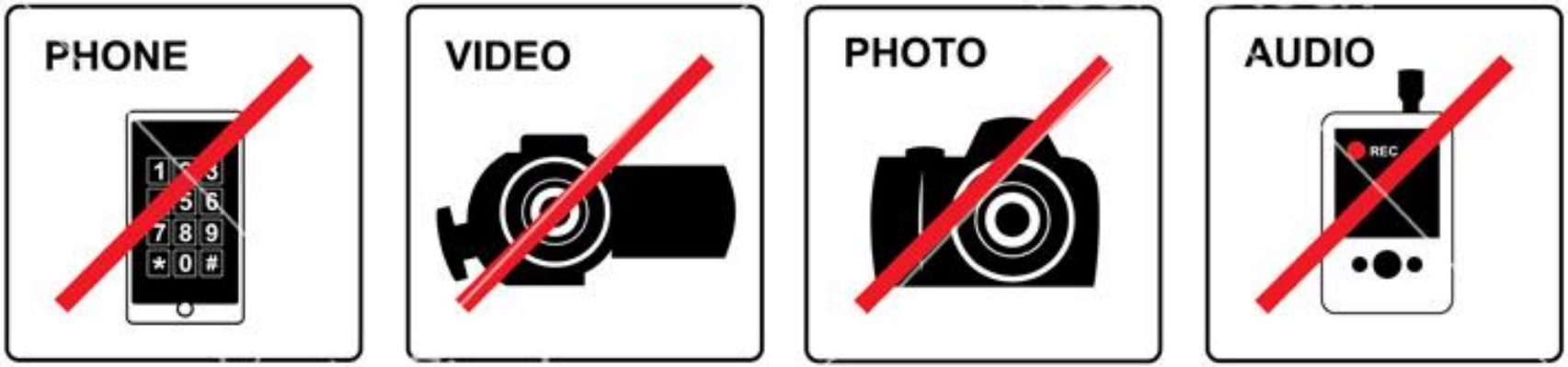
- The following information was made available before this meeting:
  - The IEEE Policy slides,
  - The IEEE SA Copyright and Participation Policies
- The information is part of “MEETING INTRODUCTION” at: https://www.ieee802.org/1/files/public/templates/admin-TG-intro-0721-v01.pdf

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

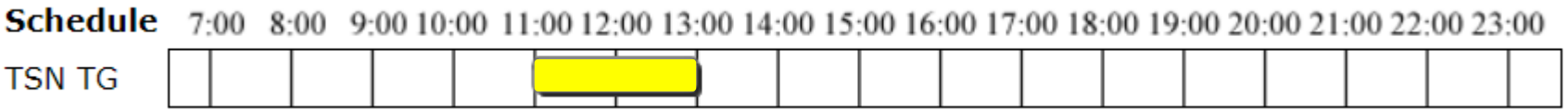


- Press (i.e., anyone reporting publicly on this meeting) are to announce their presence *(5.3.3.3 of SASB Operations Manual)*
- Video/Audio recording by participants is prohibited *(5.3.3.2 of SASB Operations Manual)*
- Photography by permission only *(5.3.3.2 of SASB Ops Manual)*
- Cell phone ringers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



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”

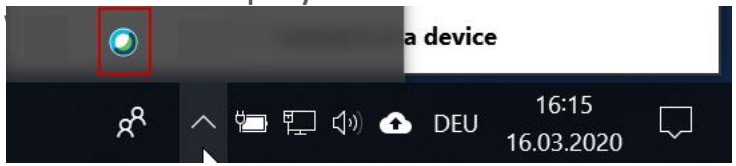
Please provide your information

- 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

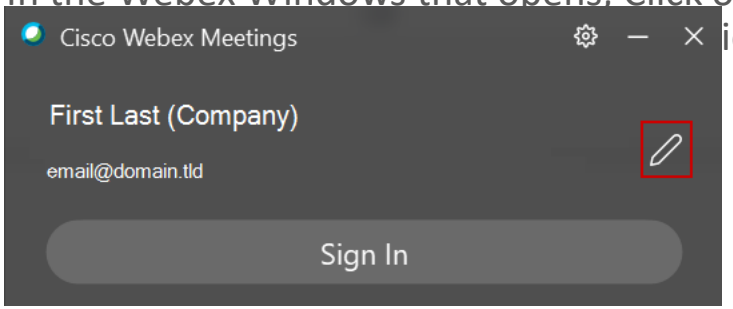
- Go to the "Display hidden icons" arrow in the



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

Step 2

- In the Webex Windows that opens, Click on the ion



IEEE SA STANDARDS ASSOCIATION

IEEE

(*) May need to Exit Webex via the cog wheel and restart the desktop Webex app to see the pencil icon.

Maintenance Task Group Meeting
November 15, 2022 – 8AM ICT
November 15, 2022 – 9AM ICT
November 17, 2022 – 8AM ICT
Agenda

https://1.ieee802.org/november-2022-plenary-session-electronic-maintenance-tg-agenda/

P802-REVc Balloting

- Glenn Parsons - contribution

P802-REVc TG Ballot Comment Resolution

- James Gilb
  - https://www.ieee802.org/1/files/private/802-REVc-drafts/d0/802-REVc-d0-2-comments-01.pdf

Existing project status

- P802-REVc/d0.2
  - TG ballot comment resolution
  - Process for WG balloting
- P802.1ASdr/d0.1
  - TG comment resolution
- P802.1CS-2020/Cor1
  - Possible PAR modification
  - Waiting for Editor assignment – Norm Finn has agreed.

Motion Summary

- For the EC Consent Agenda:
  - Approve liaison of the comment responses to ISO/IEC JTC1/SC6 under the PSDO agreement
  - Approve submission of the drafts to ISO/IEC JTC1/SC6 for information 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
  - Authorize the Maintenance TG to hold electronic meetings for 802-REVc
  - Authorize 802.1 Interim to generate a PAR modification of 802.1CS/Cor1
  - Authorize editor of P802.1ASdr to commence WG balloting
  - Authorize editor of P802.1CS/Cor to commence WG balloting

ISO/IEC JTC1 SC6 STATUS
November 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 802.1CBdb (FRER: Ext Stream ID Fns) - Nov 2021 motion to send for adoption; CIB closed/approved 14 June 22. FDIS ballot opened Aug 2022, closes 16 Jan 2023
  - IEEE 802.1CBcv (FRER: YANG) - Nov 2021 motion to send for adoption CIB closed/approved 14 June 22 FDIS ballot opened Aug 2022, closes 16 Jan 2023
  - IEEE 802.1ACct (Support for IEEE Std 802.15.3) - Nov 2021 motion; CIB passed 10 April 2022 with 1 cmt; Resp sent July 2022; FDIS ballot open; closes 24 Mar 2023
  - IEEE 802.1BA-Rev (AVB Systems) - Nov 21 motion; CIB passed 24 Jun 22 (6N17847) w 1 cmt Resp sent July 2022; FDIS ballot open; closes 24 Mar 2023
  - IEEE 802.1AS-2020/Cor 1 - Nov 2021 motion; DCOR ballot closed 23 Aug 22 China NB cmt (6N17841) – response to be rvwed 11/22
- For adoption: PSDO in process (60-day Committee Internal Ballots)
  - IEEE 802.1ABcu (YANG Data Model) - Nov 2021 motion; CIB passed July 22 (6N17845) no cmts; wait for FDIS to open (appx 22 Nov)
  - IEEE 802.1ABdh (Multiframe PDUs) - Nov 2021 motion; CIB passed July 22 (6N17848) no cmts: wait for FDIS to open (appx 22 Nov)
  - IEEE P802.1Q-Rev (Bridges & Bridged NWs) - motion Nov 2021 to send for adoption when pub
  - IEEE P802.1Qcz (Congestion Isolation) - D1.2 sent for info 26 Aug 2020; Nov 20 motion to send when pub (waiting for Q-Rev publication)
- Standards that are under Systematic Review in ISO/IEC JTC1
  - 802.1AB-2017 (Stn+MAC connective) - closes 2 December 2022

IEEE 802.1 Stds for SC6 approval

- Approved draft standards sent for information (next step: send for adoption when published)
  - IEEE P802.1Q-Rev-2022(Bridges & Bridged Nws) - motion Nov 2020 – SA ballot in Sep 2021, sent 22 Sept 2021 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 standards when SA ballot starts
  - P802.1AEdk (MACsec Privacy Protection) - motion Jul 2022 – D2.1 sent for info 2 Sep 22
  - P802f (YANG Data Model for Ethertypes) - motion Jul 2022
  - P802.1Qcw (YANG for Traffic, Preemption, etc) - motion Jul 2022

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
  - 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

IEEE 802.1 Standards – PSDO Approved (2/4)

- PSDO approved (cont'd)
  - 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
  - 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

IEEE 802.1 Standards – PSDO Approved (3/4)

- PSDO approved (cont'd)
  - 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 & 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 (4/4)

- PSDO approved (cont'd)
  - IEEE 802.1Qcp (Bridges YANG) -FDIS passed Jul 21; no cmts; published 9/21
    ISO/IEC/IEEE 8802-1Q:2020/Amd 2:2021
  - IEEE 802.1Qcy (VDP extension) - FDIS passed Jul 21; no cmts; published 9/21
    ISO/IEC/IEEE 8802-1Q:2020/Amd 3:2021
  - IEEE 802.1AX-2020 (Link Agg) - FDIS passed Jul 21; no cmts; published 9/21
    ISO/IEC/IEEE 8802-1AX:2021
  - IEEE 802.1Qcc (Stream Res Protocol) - FDIS passed; cmt resp 11/21, sent Jan 2022
    (ISO/IEC/IEEE 8802-1Q:2020/Amd 31 (Ed 2))
  - IEEE 802.1CMde (Enh Fronthaul Profiles) - FDIS passed; cmt resp 11/21, sent Jan 2022
    (ISO/IEC/IEEE 8802-1CM:2019/Amd 1)
  - IEEE 802.1AS-2020 (Timing & Synchn) - FDIS passed; cmt resp 11/21, sent Jan 2022
    (ISO/IEC/IEEE 8802-1AS:2021 (Ed 2))
  - IEEE 802.1X-2020 (Port Based Nw AC) - FDIS passed; cmt resp 3/22, sent Mar 2022
    (ISO/IEC/IEEE 8802-1X:2021)
  - IEEE 802.1CS (Link-local Reg Protocol) - FDIS passed June 22; no cmts; published 7/22
    (ISO/IEC/IEEE 8802-1CS:2022)

Liaison Activity

(from: https://1.ieee802.org/liaisons/liaisontable/)

- Incoming
  - LS15 - Response on LS on OTNT Standardization Work Plan Issue 30 (& Issue 31 OTNT SWP)
- Outgoing
  - Proposed response to IMT2020 roadmap
  - Proposed response on IEEE 802.1AS-2020/Cor-1 (SC6 N17841)

802 PARs under consideration (from: https://www.ieee802.org/PARs.shtml)

- Draft 802.3 Comments - https://www.ieee802.org/1/files/public/docs2022/admin-PAR-CSD-comments-802-3-1122-v01.pdf
  - 802.3df – Amendment: Media Access Control Parameters for 800 Gb/s and Physical Layers and Management Parameters for 400 Gb/s and 800 Gb/s Operation, PAR Modification and CSD
  - 802.3dj – Amendment: Media Access Control Parameters for 1.6 Tb/s and Physical Layers and Management Parameters for 200 Gb/s, 400 Gb/s, 800 Gb/s, and 1.6 Tb/s Operation, PAR and CSD
  - 802.3dk – Amendment: Greater than 50 Gb/s Bidirectional Optical Access PHYs, PAR and CSD
- Draft 802.11 Comments - https://www.ieee802.org/1/files/public/docs2022/admin-PAR-CSD-comments-802-11-1122-v02.pdf
  - 802.11bk – Amendment: 320 MHz Positioning, PAR and CSD

P802.1ASdr Comment Resolution

- Silvana Rodrigues - https://1.ieee802.org/maintenance/802-1asdr/

Review of IETF draft-eastlake-rfc7042bis-09

- IANA Considerations and IETF Protocol and Documentation Usage for IEEE 802 Parameters
- draft-eastlake-rfc7042bis-09
- A “Best Current Practice” document
- History of this document:
  - RFC 2153 ~> RFC 5342 -> RFC 7042 -> RFC 7042bis
- We need to discuss a process for review and comment submission on this draft

Summary of RFC 7042bis

Introduction

- Specifies IANA considerations for the assignment of code points under the IANA OUI (Organizationally Unique Identifier)
  - MAC addresses
  - protocol identifiers
- Specifies other uses by the IETF of IEEE 802 code points
  - CFM code points
  - LLDP Organizationally Specific TLVs
- Specifies Concise Binary Object Representation (CBOR) tags of IEEE 802 code points
  - MAC addresses
  - OUI/CIDs

Summary of RFC 7042bis

Changes from RFC 7042

- Add information on MA-M (28-bit) and MA-S (36-bit) EUI prefixes that the IEEE Registration Authority assigns.
- Add information on the restructuring of the "local" MAC address space into four quadrants under the Structured Local Address Plan (SLAP)
- Include the IESG Statement on Ethertypes (B.1)
- IEEE 802 CFM Codepoints that have been allocated to the IETF (1.5)
- Registry set up for LLDP organizationally specific TLVs (4.1)
- Clarify IETF Expert Review and IESG Ratification (5.1?)
- Specify CBOR tags (2.4)
- Add a version field requirement for the allocation of protocol numbers under the IANA OUI (3.1)

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
  - 802.1Qcw/D1.5 comment resolution complete. Motion to move to SA ballot in November.
  - 802.1Qcz/D2.3 SA re-circ ballot closed Oct 19th, 2022. Another re-circ to address rogue comments.
  - 802.1Qdd/D0.6 TG comment resolution complete Sep 19th, 2022. Editor preparing next draft.
  - 802.1Q-Rev/D1.2 approved. Awaiting publication.
  - 802f/D1.4 WG ballot closed Oct 14th, 2022. Comment resolution at November Plenary.
  - 802.1Qdj/D1.0 WG ballot in progress.
  - 802.1ASdm/D0.7 TG ballot completed Sept 1st, 2022. Ongoing comment resolution.
- 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

New Maintenance Requests

- 0348: ieee8021LrpTcMIB OID duplicate assignment – Mick Seaman
- 0349: ieee8021LrpMIB OID duplicate assignment – Mick Seaman
- 0350: error in MPDelayReq state machine – Marina Gutierrez
- 0351: 802.1CS-2020 YANG is not attached and does not validate

Existing Maintenance Requests

- 0242: IEEE Std 802.1Qcp-2018: Collected YANG issues - Johannes Specht
- 0248: Managed objects for ECP in 802.1Q-2018 - Norman Finn
- 0314: network media and PHY - Johannes Specht
- 0324: Use of Tick in List Execute state machine (802.1Q) – Max Turner
- 0340: Misleading details on ATS MaxResidenceTime - Max Turner
- 0342: StreamID, StreamID Group, StreamID TLV - Max Turner – Contribution
- 0343: Handling of stream_handle in Active Stream - Max Turner
- 0344: Handling of R-TAG in IP Stream Identification - Max Turner - Contribution