

Note that, throughout this document, minuted/recorded inputs from any attendee can not/shall not be assumed to represent a position of their employer or affiliated organization. Discussion points captured do not necessarily reflect the views of the presenter, discussion leader or minute taker, and do not imply consensus unless that is explicitly minuted. The content of draft standards is determined by the ballot process; other formal decisions are the subject of Working Group motions.

## 1 Attendance and affiliation

[illegible]

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TSN, Fri Nov 15, 2024, 10:30-12:30 PT																						
TSN, Fri Nov 15, 2024, 8:00-10:00 PT																						
Closing Plenary, Thu Nov 14, 2024, 13:30-18:00 PT																						
TSN - IEC/IEEE 60802, Thu Nov 14, 2024, 10:30-12:30 PT																						
TSN - P802.1DG, Thu Nov 14, 2024, 10:30-12:30 PT																						
TSN, Thu Nov 14, 2024, 8:00-10:00 PT																						
Nendica, Thu Nov 14, 2024, 8:00-10:00 PT																						
TSN, Wed Nov 13, 2024, 16:00-18:00 PT																						
TSN - IEC/IEEE 60802, Wed Nov 13, 2024, 16:00-18:00 PT																						
TSN - P802.1DG, Wed Nov 13, 2024, 13:30-15:30 PT																						
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TSN, Wed Nov 13, 2024, 8:00-10:00 PT																						
802.1/802.15 Joint, Tue Nov 12, 2024, 18:15-19:15 PT																						
YANGsters, Tue Nov 12, 2024, 16:00-18:00 PT																						
TSN - IEC/IEEE 60802, Tue Nov 12, 2024, 13:30-15:30 PT																						
TSN - P802.1DP/AS6675, Tue Nov 12, 2024, 13:30-15:30 PT																						
TSN - IEC/IEEE 60802, Tue Nov 12, 2024, 10:30-12:30 PT																						
Maintenance, Tue Nov 12, 2024, 8:00-10:00 PT																						
TSN, Mon Nov 11, 2024, 16:00-18:00 PT																						
TSN, Mon Nov 11, 2024, 13:30-15:30 PT																						
Opening Plenary, Mon Nov 11, 2024, 10:30-12:30 PT																						
TSN - P802.1DG, Mon Nov 11, 2024, 8:00-10:00 PT																						
Last name	First name	Affiliation																				
Kabra	Lokesh	Synopsys, Inc.	•																			
Karl	Michael	Marvell Semiconductor, Inc.	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Kato	Arata	Space-Time Engineering Japan, Inc.*																				
Kehrer	Stephan	Belden	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Kitazawa	Shoichi	Muroran IT																				
Krebs	Alex	Apple*																				
Lai	Gavin	Moxa Inc.	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Lee	HyeongHo	Netvision Telecom																				
Li	Jieyu	China Mobile																				
Liu	Peng	China Mobile Limited																				
Lyu	Yunping(Lily)	Huawei Technologies Co., Ltd	•	•			•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Maile <sup>3</sup>	Lisa	Technische Universität Braunschweig																				
Mangin	Christophe	Mitsubishi Electric Corporation	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Mansfield	Scott	Telefon AB LM Ericsson		•	•	•	•															
McCall	David	Intel	•	•	•	•																
Mittelberger	Martin	Siemens AG	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Monajemi	Pooya	Apple*																				
Nakano	Hiroki	Red Orange Co Ltd, CAHI Corporation	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Niess	Adriaan	Robert Bosch GmbH	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Nomura	Takumi	Honda R&D	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Noseworthy	Bob	University of New Hampshire InterOperability Laboratory (UNH-IOL)	•	•			•	•	•													
Ogawa	Masakatsu	Sophia University*																				
Parkholm	Ulf	Ericsson AB																				
Parsons	Glenn	Ericsson AB		•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Peterson	Eric	Blue Origin	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Prajapati	Sudhirkumar	Infineon Technology	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Proell	Dieter	Siemens AG	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Randall	Karen	Randall Consulting	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Regev	Alon	Keysight Technologies																				
Rodrigues	Silvana	Huawei Technologies Co., Ltd	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Rouyer	Jessy	Nokia		•	•	•	•															
Sato	Atsushi	Yokogawa Electric Corporation	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•

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Last name	First name	Affiliation																							
Sayrafian	Kamran	National Institute of Standards and Technology																							
Seaman	Michael	Individual																							
Seewald	Maik	Cisco Systems, Inc.																							
Sekine	Norihiko	NICT*																							
Sivakolundu	Ramesh	Cisco Systems, Inc.																							
Siyao	Tai	Ningbo University																							
Specht	Johannes	Self																							
Stamenic	Nemanja	Siemens AG																							
Stanica <sup>3</sup>	Marius	ABB AB																							
Steindl <sup>3</sup>	Guenter	Siemens AG																							
Stuebing	Gary	Cisco Systems, Inc.																							
Sturek	Don	Itron Inc.																							
Sudhir	Prajapati	CSS ICW ENG WFS SYS AMR*																							
Takumi	Kobayashi	Nitech/YRP-IAI*																							
Tse	Richard	Microchip Technology, Inc.																							
Turner	Max	Ethernovia																							
Wang	Haojie	Huawei																							
Wang	Tongtong	Huawei Technologies Co., Ltd																							
Wei	Yuehua	ZTE Corporation																							
Wendt	Matthias	Signify																							
Winkel	Ludwig	PNO e.V.																							
Wolfe	Jason	Bell Canada																							
Woods <sup>1</sup>	Jordon	Analog Devices Inc.																							
Yamaura	Takahiro	TOSHIBA Corporation																							
Yang	Shang-Te	Apple Inc																							
Zein	Nader	NEC Europe (NLE)																							

(\*) Last and first names and affiliation possibly incorrect as based on Webex access information or otherwise, and either outdated or not provided in IMAT.

(1) IEEE 802 LMSC fee waivers - Full week (6.3 of IEEE 802 LMSC WG P&P)

(2) Invited officers of other SDOs - Full week (item 9 in 4.1 of IEEE 802 LMSC Chair's guidelines)

(3) WG Chair designated remote individuals limited to specific topics - Single Meeting (IEEE 802 LMSC Operations Manual, clause 5)

## 2 802.1 Officers and Leadership

- Chair: Glenn Parsons
- Vice-Chair and Recording Secretary: Jessy Rouyer
  - Executive Secretary: Stephan Kehrer
  - Liaison Secretary: Karen Randall
- Maintenance TG Chair: Mark Hantel
- Security TG Chair: Mick Seaman
  - Security TG Vice-Chair: Karen Randall
- TSN TG Chair: János Farkas
  - TSN TG Vice-Chair: David McCall
  - TSN TG Secretary: Johannes Specht
  - IEC/IEEE 60802 Joint Project Chair: Ludwig Winkel
  - IEC/IEEE 60802 Joint Project Secretary: Dieter Pröll
  - IEEE P802.1DP/SAE AS6675 joint project co-Chairs: Abdul Jabbar & János Farkas
  - IEEE P802.1DP/SAE AS6675 joint project Secretary: Nader Zein
- Nendica Chair: Roger Marks
  - Nendica Vice-Chair: Johannes Specht
- YANGsters Chair: Scott Mansfield
  - YANGsters Vice-Chair and Secretary: Stephan Kehrer
- Maintenance of Email exploder: Mark Hantel and Hal Keen
- Maintenance of website: Mark Hantel, Roger Marks, John Messenger

## 3 Opening Plenary Meeting

See section 1 for attendance and affiliation information.

**Call to order** Nov 11, 2024 at 10:32 PT by the Chair who presided. The Recording Secretary wrote the minutes.

The Chair presented “Opening Plenary November 2024” finalized as <http://www.ieee802.org/1/files/public/minutes/2024-11-opening-plenary-slides.pdf>.

During this presentation, the Chair:

- Introduced the agendas on slide 2 that were tacitly approved.
- Reminded all participants that access to this session requires a registration fee (slide 3).
- Provided mixed mode session information (slide 4) and mixed mode guidelines (slides 5-7).
- Reviewed meeting decorum, including the policies on public reporting, and on photography or recording (slide 8), and called for any members of the press (i.e., anyone reporting publicly on this meeting) who have not already announced themselves to announce their presence.
  - There were no responses to the call.
- Asked participants to record attendance in IMAT and, if they are unable to do so, to promptly provide their affiliation to the minute taker (slide 9).
- Introduced meeting policies to be reviewed at this meeting (slide 10).
- Showed slides 11 through 15 (reproducing slides 0 through 4 of the IEEE SA PatCom Patent Slides for Standards Development Meetings, separately available at <http://standards.ieee.org/about/sasb/patcom/materials.html>).

The Chair:

- Presented information on these slides including:
  - Instructions for the WG Chair;
  - Participants have a duty to inform the IEEE;
  - Ways to inform IEEE;
  - Other guidelines for IEEE Working Group meetings; and
  - Patent-related information.
- Advised WG attendees that:
  - IEEE's patent policy is described in Clause 6 of the IEEE-SA Standards Board Bylaws;
  - Early identification of patent claims which may be essential for the use of standards under development is strongly encouraged;
  - There may be Essential Patent Claims of which IEEE is not aware. Additionally, neither IEEE, the WG, nor the WG Chair can ensure the accuracy or completeness of any assurance or whether any such assurance is, in fact, of a Patent Claim that is essential for the use of the standard under development.
- Made the "Call for Potentially Essential Patents", i.e. provided an opportunity for participants to identify patent claim(s)/patent application claim(s) and/or the holder of patent claim(s)/patent application claim(s) of which the participant is personally aware and that may be essential for the use of that standard.
  - There were no responses to the call prior to the end of the session.
- Presented slide 16 thereby providing the following information:
  - IEEE SA's copyright policy is described in Clause 7 of the IEEE SA Standards Board Bylaws and Clause 6.1 of the IEEE SA Standards Board Operations Manual;
  - Any material submitted during standards development, whether verbal, recorded, or in written form, is a Contribution and shall comply with the IEEE SA Copyright Policy.
- Showed IEEE SA Copyright Policy slides 17 and 18.
- Presented slides 19 through 21 reproducing the IEEE SA slides 1 through 3 approved by SASB in June 2019 regarding IEEE Codes of Ethics and Conduct, participation in the "individual process", and dominance, thereby conveying that:
  - Participant behavior in IEEE-SA activities is guided by the IEEE Codes of Ethics & Conduct;
  - Participants in the IEEE-SA "individual process" shall act independently of others, including employers; and
  - IEEE-SA standards activities shall allow the fair & equitable consideration of all viewpoints.
- Made subgroup announcements (slide 22) thereby reminding subgroup Chairs of their obligation to:
  - Remind participant at the start of the first subgroup meeting that the meeting is subject to the policies in "MEETING INTRODUCTION" presentations made available beforehand (as announced in the opening plenary meeting) and, in the case of a Task Group (TG), to make the "Call for Potentially Essential Patents" and minute any responses to it;
  - After any recess, announce that the meeting remains subject to the policies as read and displayed in the opening plenary meeting; and
  - At meeting start and after any recess, ask participants to record attendance in IMAT and, if unable to do so, to promptly provide their affiliation to the minute taker.

- Reminded participants of the various plenary session registration fees applying and attendant registration details (slide 23), noting that fee waivers may be granted in advance, exceptionally and listing them (slide 24).
- Shared information about food and social logistics (slide 25).
- Provided general information regarding meeting contributions (requested to be uploaded 24 hours prior to presentation), minutes, schedule for all Working Groups, website (slide 26).
- Introduced 802.1 officers and leadership (slide 27).
- Reviewed the list of editors for current projects (slide 28) thanking them and calling for a volunteer to succeed in Hal Keen's role maintaining 802.1 email exploders.
- Discussed 802.1 WG Process (slide 29) including the "New work" process as previously introduced and leveraging Nendica towards vetting all new 802.1 work.
- Provided an update on current joint development procedures (slide 30) noting leadership is handling any current issues without updating the linked documentation.
- Reminded 802.1 voting members of their obligations regarding declaring affiliation(s) and employer(s) (slide 31), electronic ballots (ePolls) conducted between sessions (slide 32), requesting and retaining voting membership (slide 33), and responding to WG ballot series (including ePolls) as well as regarding the consequences of not responding to WG ballot series (including ePolls) (slide 34).
- Reviewed the list of 802.1 voters (slide 35), including information about individuals who may gain (slides 36 and 37) or lose (slides 38 and 39) 802.1 voting membership.
- Reminded individual participants of 802.11 reciprocal credit, which was continued at this session (slide 40), and indicated 802.3 reciprocal credit is being trialed at this session (slide 41).
- Had Stephan Kehrer, Executive Secretary, introduce information about:
  - The Jan 2025 interim session (slide 42) for which three options are possible after the previously approved proposal to meet in Asheville, NC, USA was withdrawn by the host due to damage caused by Hurricane Helene:
    - General Electric (GE) offer to host (proposal), January 13-16, 2025, GE Research center, Niscayuna, NY, USA.
      - Abdul Jabbar presented "Proposal to Host 802.1 Interim Session in Jan 2025"  
<https://www.ieee802.org/1/files/public/docs2024/admin-jabbar-Jan25-interim-proposal-1124-v01.pdf>.  
**Disposition:** For information.
    - Co-located with IEEE 802.3, hosted by Samtec, January 19-24, 2025, Kimpton Hotel Palomar Phoenix, AZ, USA.
      - The Executive Secretary presented "IEEE 802.1 Interim Session January 19-23rd, 2025 Proposal By Samtec"  
<https://www.ieee802.org/1/files/public/docs2024/admin-kehrer-Jan25-interim-proposal-Samtec-1124-v01.pdf>.  
**Discussion:** Various items were discussed for clarification including location and weather.  
**Disposition:** For information.
    - Virtual interim, January 13-16, 2025, Webex only. The Chair noted this would be held 8:00 to 18:00 ET.

The Chair conducted the following straw poll (slide 43):

- Out of the three options for the IEEE 802.1 January 2025 Interim Session, which do you prefer?
  - GE offer for Albany, January 13-17, 2025? **9**
  - Samtec offer for Phoenix, January 19-24, 2025? **12**
  - Virtual Interim meeting, January 13-17, 2025? **23**
- Number of people in Webex: **53**
- The May 19-23, 2025 interim session (slide 44).
  - Christophe Mangin presented “Proposal update for the May 2025 interim meeting in Rennes, France”  
<https://www.ieee802.org/1/files/public/docs2024/admin-mangin-May2025-interim-proposal-update-1124-v01.pdf>.  
**Discussion:** It was clarified that three rooms would be available. The higher price for registration as remote is an incentive for attendees to participate in-person.  
**Disposition:** For information.
- The Sep 2025 interim session (slide 45).
  - Currently no host.
- Had the Executive Secretary provide an overview of the schedule for future interim sessions (slide 46):
  - January 2025
    - TBD
      - 3 possible options
  - May 2025
    - Hosted by Mitsubishi Electric R&D Centre Europe as in-person session with provisions to support mixed mode
      - Date: May 19-23, 2025
      - Location: Rennes, France
  - September 2025
    - Currently no offer
- Provided an overview of the schedule for future plenary sessions (slide 47):
  - March 9-14, 2025 – Atlanta, GA, USA
    - Hilton Atlanta
  - July 27-August 4, 2025 – Madrid, Spain
    - Melia Castilla
  - November 9-14, 2025 – Bangkok, Thailand
    - Marriot Marquis Queen’s Park
  - March 8-13, 2026 – Vancouver, BC, Canada
    - Hyatt Regency Vancouver
  - July 13-18, 2026 – Montreal, QC, Canada
    - Le Centre Sheraton Montreal
  - Nov 8-13, 2026 – Bangkok, Thailand
    - Marriot Marquis Queen’s Park
  - Mar 14-19, 2027 – Atlanta, GA, United States
    - Hilton Atlanta
  - Jul 11-16, 2027 – Gothenburg, Sweden
    - Gothia Towers



- Had planned but ran out of time to conduct the following straw polls (slide 48):
  1. If you will attend one of the three meetings on Friday, November 15 2024 (802 EC Closing Plenary, the 802.11 Closing Plenary or the 802.1 TSN TG meeting) will you participate (eat/drink):
    - With breakfast? -
    - with the AM Break? -
    - With lunch? -
    - with the PM Break? -
  2. If the 2025 March Plenary Session is held at the Hilton Atlanta in Atlanta, GA, USA, as an in-person only session, will you attend?
    - Yes - No - Did not respond -
  3. If the 2025 March Plenary Session is held at the Hilton Atlanta in Atlanta, GA, USA, as a mixed-mode session, will you attend:
    - Attend In-person -
    - Attend Virtually (remotely)-
    - Will not attend plenary -
    - Did not respond -
- Previewed the straw polls regarding this plenary session to be conducted during the 802.1 closing plenary meeting (slide 49):
  1. Would you like to come back to this venue?
    - Yes - No - Did not respond -
  2. Did you go to the social?
    - Yes - No - Did not respond -
  3. Did you like the social?
    - Yes - No - Did not respond -
- Provided pointers to the LMSC schedule of EC/WG/TAG meetings to be held during this plenary session (slide 50).
- Reported the following items out of the 802 Executive Committee (EC) plenary session #137 (slide 51):
  - Fee Waivers granted
  - New associate recording secretary - Beth Kochuparambil
  - 802 history ad hoc (Tues noon) ([EC-24-258](#))
  - 802 rules update (Mon 7:30pm) ([EC-24-261](#))
    - Reiterate that attendance in-person required to gain voting rights
    - ICAID renewals, opening source, associate positions
  - Venues ([EC-24-274](#))
    - Nov 2024 – 1025 attendees – with more than half in-person
    - Finalizing contracts for venues into 2027
  - Treasurer ([EC-24-273](#))
    - Spending on commercial activities may be allowed, but IEEE SA approval needed in advance
    - Reserves level review underway (currently at \$1.7M)
    - FrameMaker costs reimbursed by IEEE SA
  - LMSC Workshop ([EC-24-263](#)) (Saturday)
- Introduced IEEE SA staff supporting IEEE 802 (slide 52):
  - Jodi Haasz
    - IEEE 802 lead, supports dot01, dot03 and dot18 groups
    - Senior Manager, Operational Program Management
  - Christy Bahn
    - supports dot11, dot15, dot19 and, dot24 groups
    - Senior Program Manager, Operational Program Management

Available for editorial guidance questions via email

- Michelle Turner
  - 802 lead editorial support
  - Senior Manager, Content Production and Management
- Catherine Berger
  - 802 editorial support
  - Senior Program & Special Project Manager
- Pointed to instructions to access IEEE 802 electronic media (slide 53).
- Provided IEEE 802 program status pointers (slide 54), mentioning the following notable items (slide 55):
  - Top 802.1 downloads
    - 802.1Q ~3300
    - 802.1AE ~2800
    - 802.1AS ~2700
    - 802 ~2100
    - 802.1CB ~1600
  - Top 802 downloads
    - 802.3 ~39,000
    - 802.11 ~28,000
    - 802.15.4 ~8,000
- Provided information about public review (slide 56).
- Pointed out 802.1 PARs and CSD (slide 57) as well as 802.11 and 802.16 PARs and CSD (slide 58) that are up for vote or finalization during this IEEE 802 plenary session.
- Noted no tutorials are scheduled at this plenary session (slide 59).
- Had the Liaison Secretary present liaison resources (slide 60) and the set of incoming liaisons to be handled by specific subgroups (slide 61) as well as the status of outgoing liaisons, either sent since the previous plenary session or to be completed (slide 62).
- Summarized IETF coordination items (slide 63).
- Provided information about JTC1/SC6 coordination (slide 64), ITU coordination (slide 65) noting the tentative consent in March 2025 of ITU-T G.eth and the possibility for 802.1 standards to be similarly proposed by IEEE to be incorporated by reference, and meetings to be held with 802.15 during this plenary session (slide 66).
- Discussed promotion of the work of the WG (slide 67).
  - János Farkas provided a verbal update on “[TSN/A](#) – Oct 1-2, 2024” and presented IEEE SA and IEEE 802.1 involvement at TSN/A Conference 2024 (slide 68).
- Discussed 802.1 public visibility messaging (slide 69).
- Reminded nominations are welcome for the IEEE Fellow program (slide 70) and the various types of IEEE Awards (slide 71) highlighting the various deadlines and encouraging nominations.
- Recognized Jordon Woods and Rodney Cummings for receiving 2024 IEEE SA Standards Medallions (slide 72). Rounds of applause ensued.
- Noted WG Chair Awards would be upcoming (slide 73). A round of applause ensued.
- Provided the anticipation of next actions with respect to the projects in the WG’s current workload (slide 74).
- Had János Farkas, TSN TG Chair, introduce some TSN developments in 2024 (slide 75) with thanks to everyone contributing to these developments.
- Reviewed the timeline for 802.1Q (slide 76) and 802.1AS (slide 77) revisions and amendments.

- Showed the 802.1 schedule for this plenary session, which was tacitly approved (slide 78).
- Listed 802.1 leadership and editors' meetings (slide 79).
- Reminded the Working Group of the logistics orientation information available <https://1.ieee802.org/orientation/> and of the possibility to practice the web-based voting tool to be used at the 802.1 closing plenary meeting (slide 80).
- Corrected the information provided on slide 36, acknowledging Rajeev Roy as a potential new voting member.
- Requested that subgroup agendas be presented (slide 81):
  - The Maintenance TG Chair presented the agenda on slide 82.
  - The Security TG Chair presented the agenda on slide 83.
  - The IEC/IEEE 60802 Joint Project Chair and the TSN TG Chair presented the agenda on slide 84.
  - The Nendica Chair presented the Nendica report on slides 85-87.
  - The YANGsters Chair presented the agenda (slide 88), and a list of ongoing YANG projects (slide 89)
- Called for Any Other Business (slide 90).
  - No other business was discussed in this meeting.

12:47 PT recess

## 4 802.1/802.15 Joint Meeting

Between this session and the preceding session, no 802.1/802.15 joint meetings were held.

See section 1 for 802.1 attendance and affiliation information and 802.15 session minutes for 802.15 attendance and affiliation information.

The minutes of the 802.1/802.15 joint meeting held May 14, 2023 are on page 17 of "802.15 WG & CAC & Joint 1/15 Minutes November 2024" <https://mentor.ieee.org/802.15/dcn/24/15-24-0676-00-0000-802-15-wg-cac-joint-1-15-minutes-november-2024.docx>.

## 5 Maintenance Task Group

Between this session and the preceding session, the IEEE 802.1 Maintenance Task Group (TG) held electronic meetings whose minutes are incorporated to these session minutes by reference as follows:

- Minutes of the Maintenance TG meeting held 2024-10-01 11:00 - 13:00 ET <https://listserv.ieee.org/cgi-bin/wa?A2=STDS-802-1-MINUTES;5206cc92.24&S=>
- Minutes of the P802-REVC meeting held 2024-10-09 11:00 - 12:00 ET <https://listserv.ieee.org/cgi-bin/wa?A2=STDS-802-1-MINUTES;fb259d54.24&S=>
- Minutes of the Maintenance TG meeting held 2024-10-29 11:00 - 13:00 ET <https://listserv.ieee.org/cgi-bin/wa?A2=STDS-802-1-MINUTES;526454af.24&S=>
- Minutes of the Maintenance meetings held during the 2024-11-11 - 2024-11-15 session <https://listserv.ieee.org/cgi-bin/wa?A2=STDS-802-1-MINUTES;dfa0b5b7.25&S=>

See section 1 for attendance and affiliation information.

Call to order Nov 12, 2024 at 8:00 PT by Mark Hantel, IEEE 802.1 Maintenance TG Chair (Chair), who presided and wrote the minutes, assisted by Karen Randall, IEEE 802.1 Liaison Secretary.

Agenda items and dispositions:

1. Meeting introduction and other administrative items. The IEEE SA slides on IEEE Patent Policy and IEEE SA Copyright and Participation Policies were provided beforehand as part of "MEETING INTRODUCTION" <http://www.ieee802.org/1/files/public/templates/admin-TG-intro-0324-v01.pdf>.

The Chair showed this presentation advising that the following, provided beforehand, applies:

- Participant behavior shall comply with the outlined requirements;
- IEEE's Patent Policy is described in Clause 6 of the IEEE SA Standards Board Bylaws;
- Early identification of patent claims which may be essential for the use of standards under development is strongly encouraged;
- There may be Essential Patent Claims of which IEEE is not aware. Additionally, neither IEEE, the WG, nor the WG Chair can ensure the accuracy or completeness of any assurance or whether any such assurance is, in fact, of a Patent Claim that is essential for the use of the standard under development.
- IEEE SA's copyright policy is described in Clause 7 of the IEEE SA Standards Board Bylaws and Clause 6.1 of the IEEE SA Standards Board Operations Manual;
- Any material submitted during standards development, whether verbal, recorded, or in written form, is a Contribution and shall comply with the IEEE SA Copyright Policy.

The Chair made the Call for Potentially Essential Patents thereby providing an opportunity for participants to identify patent claim(s)/patent application claim(s) and/or the holder of patent claim(s)/patent application claim(s) of which the participant is personally aware and that may be essential for the use of that standard: there were no responses to this Call prior to the end of the meeting.

The Chair asked participants to record their attendance in IMAT and, if they are unable to do so, to promptly provide their affiliation to the minute taker.

2. Approval of agenda. The Chair presented the agenda in <https://www.ieee802.org/1/files/public/docs2024/maint-Hantel-hy-1124-v02.pdf>.  
**Disposition:** The agenda was reviewed, discussed, and agreed (informally, none dissenting) as presented.
3. Maintenance Project Status. The Chair gave a verbal update that P802-REVc is complete. Mick Seaman, P802.1Q-2002-Rev editor, gave a verbal update. The Chair gave a verbal update on P802.1AS-2020-Rev, P802.1AB-2016-Revision, and P802.1AC-2016-Rev.  
**Disposition:** For Information.
4. Comment review on 802 PARs under consideration. The Chair led the review of "Comments on P802.11bq PAR & CSD From IEEE 802.1"  
<https://www.ieee802.org/1/files/public/docs2024/admin-PAR-CSD-Comments-80211bq-1124-v02.pdf>. There were no comments on <https://mentor.ieee.org/802.15/dcn/24/15-24-0519-00-016t-draft-revision-par-for-802-16-2017.pdf>.  
**Disposition:** For Information.
5. IEEE 802.1 PARs under consideration. The Chair led the review of draft text for an IEEE 802.1CB-2017 revision PAR in <https://www.ieee802.org/1/files/public/docs2024/cb-Hantel-draft-PAR-1124-v01.pdf>.  
**Disposition:** For Information.
6. The Chair led the review of motions for the 802.1 closing plenary meeting.  
**Disposition:** For information.

7. Liaison Report. Karen Randall, IEEE 802.1 Liaison Secretary, gave a verbal update on draft outgoing liaisons. New liaisons have been received from SC6, and ITU-T SG15 LS135. Randall led the review of draft outgoing liaisons finalized as:

- <https://www.ieee802.org/1/files/public/docs2024/liaison-randall-SC6CommentResponse8021Qdj-1124.pdf>
- <https://www.ieee802.org/1/files/public/docs2024/liaison-randall-SC6CommentResponse8021AEdkFDIS-1124.pdf>
- <https://www.ieee802.org/1/files/public/docs2024/liaison-randall-SC6CommentResponse8021QczFDIS-1124.pdf>
- <https://www.ieee802.org/1/files/public/docs2024/liaison-response-itu-t-SG15-LS135-OTNTStdznWorkPlan34-1124.pdf>

**Disposition:** For information.

8. Outstanding Maintenance Items. The Chair led discussion on maintenance items 363 and 374.

**Disposition:** More discussion needed.

9. Editors update on P802.1ACea. Marco Hernandez, P802.1ACea editor, provided a verbal update on the status of <https://www.ieee802.org/1/files/private/ea-drafts/d1/802-1ACea-d1-3.pdf>.

**Disposition:** For information.

10. Editors update on P802.1CB-2017/Cor1. Christophe Mangin, P802.1CB-2017/Cor1 editor, presented <https://www.ieee802.org/1/files/public/docs2024/maint-mangin-CB-Cor1-item-343-1124-v01.pdf>.

**Disposition:** More discussion needed.

10:05 PT adjournment

## 6 Security Task Group

Between this session and the preceding session, the IEEE 802.1 Security Task Group (Security TG) did not hold electronic meetings.

See section 1 for attendance and affiliation information.

Call to order Nov 13, 2024 at 10:33 PT by Mick Seaman, IEEE 802.1 Security TG Chair, who presided and wrote the minutes assisted by Karen Randall, IEEE 802.1 Security TG Vice-Chair.

Agenda items and dispositions:

1. Meeting introduction. The IEEE SA slides on IEEE Patent Policy, IEEE SA Copyright Policy, and Participation Behavior were provided beforehand as part of “MEETING INTRODUCTION” <https://www.ieee802.org/1/files/public/templates/admin-TG-intro-0324-v01.pdf>.

The Security TG Chair announced that the meeting is subject to these Policies as read and displayed at the opening plenary meeting.

The Security TG Chair made the Calls for Potentially Essential Patents thereby providing an opportunity for participants to identify patent claim(s)/patent application claim(s) and/or the holder of patent claim(s)/patent application claim(s) of which the participant is personally aware and that may be essential for the use of that standard: there were no responses to these Calls prior to the end of the session.

The Security TG Chair asked participants to record their attendance in IMAT and, if they are unable to do so, to promptly provide their affiliation to the minute taker.

2. Approval of agenda. The Security TG Chair presented the agenda in <https://1.ieee802.org/november-2024-plenary-session-security-tg-agenda/>.

**Disposition:** The agenda was reviewed, discussed and updated as recorded by these minutes.

3. Liaison from IEC TC57/WG15 on MACsec profile collaboration. Karen Randall, Security TG Vice-Chair and 802.1 Liaison Secretary, and Jodi Haasz, IEEE Staff, reported progress on establishing the liaison requested by IEC TC57/WG15.

Discussion:

- IEC has completed its processing for Category C liaison.
- IEEE 802.1 needs to respond, establish the liaison from the 802.1 Working Group, and appoint a Standards Committee External Liaison coordinator (as per Clause 7 of the IEEE Standards Board Operations Manual).
- The collaboration was most welcome, and would form part of the overall effort to cooperate with standards organizations focused on industry verticals that can benefit from the use of 802.1 standards technology.

**Disposition:** Agreed (informally, none dissenting) to propose Maik Seewald as the liaison coordinator. Motions for establishing the liaison and for the liaison coordinator appointment were passed by the 802.1 Working Group during its closing plenary meeting held Nov 14, 2024.

4. P802.1Qdt Priority-based Flow Control Enhancements. Mick Seaman presented “DCBX PFC Configuration” <https://www.ieee802.org/1/files/public/docs2024/dt-seaman-dcbx-pfc-config-1124-v02.pdf>.

Discussion:

- The presentation was prompted by discussion in the Jul and Sep 2024 sessions as to filling out the management part of the P802.1Qdt draft prior to a first ballot.
- DCBX (Data Center Bridge eXchange protocol) support is mandatory for a claim of PFC Conformance, although not all PFC implementations use it.
- There are errors in the existing text and state machine. While the aim of P802.1Qdt is to make PFC management easier, by automating PFC headroom setting, difficulties experienced in PFC deployment may be as a result of those issues.
- The proposed replacement Symmetric attribute passing state machine is a definite improvement.
- The issues identified go well beyond the reasons for progressing P802.1Qdt in the Security Task Group and should be brought to wider attention.
- PFC is widely used in data center networks, and potentially in AI networks, so the technical and editorial errors in the description of existing functionality warrant timely attention, possibly in the 802.1Q-2022-Revision.

**Disposition:** Agenda time for continued discussion in the TSN Task Group meeting to be held in the Jan 2025 interim session has been requested.

5. Any Other Business

5.1 MKA (MACsec Key Agreement) performance in Group CAs. Mick Seaman reported an informally raised concern that MKA would require the transmission of  $n^2$  squared messages (MKPDUs) when a new participant joined an existing group of  $n$  participants.

Discussion:

- The concern appeared to be based on extrapolating from summary text explaining that the new participant would begin transmission once it had heard from all the others that they were prepared to receive using the newly



distributed SAK (data key). However, it is always necessary to read the detailed provisions of a standard before drawing conclusions, as introductory text has to be a brief overview and can contain all detail.

- Each MKPDU is transmitted to a group address, so each participant in a group of  $n+1$  need send only one MKPDU to communicate to each of the other  $n$ , reducing the scaling factor from the  $n$  squared that might be required for point-to-point communication to  $n$ .
- The time at which all participants should begin transmitting with the new SAK is actually determined by the Key Server (thus defending against possible delays cause by a lack of communication from a particular participant, or frequent changes in the number of participants) as specified by the CP state machine. This means that further optimizations are possible.

**Disposition:** Item closed.

#### 5.2 Post Quantum Cryptography (PQC) for IEEE Std 802.1AR Secure Device Identity.

Paul Bortorff reported on recent NIST decisions and publication (FIPS 204 and FIPS 205) of quantum-resistant Digital Signature Algorithms and on interest in the inclusion of such algorithms in 802.1AR signature suites.

**Disposition:** For further discussion.

#### 6. Review of Security TG Motions/Liaisons for Closing Plenary.

**Disposition:** Motions proposed for IEC TC57/WG15 liaison (see agenda item 3). No others required, apart from addition to the general list of permissions to hold electronic meetings prior to the next plenary session (with 10-day notice to the 802.1 minutes email list, as usual).

#### 7. Future meetings/teleconferences.

**Discussion:** The timing and detail for TG meetings in the near future will depend on WG decisions as to the Jan 2025 interim session.

**Disposition:** Following the WG Plenary decision to hold the Jan 2025 interim session in Phoenix, AZ, USA, collocated with 802.3, the Security TG will not meet during that interim session so as to reduce the number of session conflicts. However, TSN TG agenda time has been requested for the P802.1Qdt DCBX topic (see agenda item 4). Further electronic meetings may be scheduled, with the required notice and depending on contributions, prior to the Mar 2025 plenary session in Atlanta, GA, USA.

12:15 PT adjournment

## 7 Time-Sensitive Networking Task Group

Between this session and the preceding session, the IEEE 802.1 Time-Sensitive Networking (TSN) Task Group (TG) held electronic meetings on generic TSN topics whose minutes are incorporated to these session minutes by reference as follows:

- Minutes of the TSN TG meeting held 2024-10-07, 11:00 – 13:00 ET  
<https://listserv.ieee.org/cgi-bin/wa?A2=STDS-802-1-MINUTES;357b0377.25&S=>
- Minutes of the TSN TG meeting held 2024-10-14, 11:00 – 13:00 ET  
<https://listserv.ieee.org/cgi-bin/wa?A2=STDS-802-1-MINUTES;18ea10e1.25&S=>
- Minutes of the TSN TG meeting held 2024-10-21, 11:00 – 12:21 ET  
<https://listserv.ieee.org/cgi-bin/wa?A2=STDS-802-1-MINUTES;cca97ad.25&S=>
- Minutes of the TSN TG meeting held 2024-10-28, 11:00 – 12:20 ET  
<https://listserv.ieee.org/cgi-bin/wa?A2=STDS-802-1-MINUTES;9f9f44a5.25&S=>
- Minutes of the TSN TG meeting held 2024-11-04, 11:00 – 13:12 ET  
<https://listserv.ieee.org/cgi-bin/wa?A2=STDS-802-1-MINUTES;61573db3.25&S=>

Between this session and the preceding session, the IEEE 802.1 Time-Sensitive Networking (TSN) Task Group (TG) held electronic meetings on P802.1DG whose minutes are incorporated to these session minutes by reference as follows:

- Minutes of the IEEE P802.1DG meeting held 2024-09-24 9:00 - 11:00 ET  
<https://listserv.ieee.org/cgi-bin/wa?A2=STDS-802-1-MINUTES;a24f19fb.24&S=>
- Minutes of the IEEE P802.1DG meeting held 2024-10-08 9:00 - 11:00 ET  
<https://listserv.ieee.org/cgi-bin/wa?A2=STDS-802-1-MINUTES;6d4f9538.24&S=>

See section 1 for attendance and affiliation information.

Minutes of the IEC/IEEE 60802 Joint Project meetings are in section 7.1.

Minutes of the IEEE P802.1DP/SAE AS 6675 joint project meeting are in section 7.2.

**Call to order** Nov 11, 2024 13:30 PT by János Farkas, IEEE 802.1 TSN TG Chair (Chair), who presided. Johannes Specht, IEEE 802.1 TSN TG Secretary (Secretary), wrote the minutes.

Agenda items and dispositions:

1. Meeting introduction. The IEEE SA slides on IEEE Patent Policy, IEEE SA Copyright Policy, and Participation Behavior were provided beforehand as part of “MEETING INTRODUCTION” <https://www.ieee802.org/1/files/public/templates/admin-TG-intro-0324-v01.pdf>.

The Chair showed this presentation advising that the following, provided beforehand, applies:

- IEEE’s Patent Policy is described in Clause 6 of the IEEE SA Standards Board Bylaws;
- Early identification of patent claims which may be essential for the use of standards under development is strongly encouraged;
- There may be Essential Patent Claims of which IEEE is not aware. Additionally, neither IEEE, the WG, nor the WG Chair can ensure the accuracy or completeness of any assurance or whether any such assurance is, in fact, of a Patent Claim that is essential for the use of the standard under development.
- IEEE SA’s copyright policy is described in Clause 7 of the IEEE SA Standards Board Bylaws and Clause 6.1 of the IEEE SA Standards Board Operations Manual;
- Any material submitted during standards development, whether verbal, recorded, or in written form, is a Contribution and shall comply with the IEEE SA Copyright Policy.

The Chair made the Calls for Potentially Essential Patents at the beginning of each TG meeting during this session thereby providing an opportunity for participants to identify patent claim(s)/patent application claim(s) and/or the holder of patent claim(s)/patent application claim(s) of which the participant is personally aware and that may be essential for the use of that standard: there were no responses to these Calls prior to the end of the session.

The Chair asked participants to record their attendance in IMAT and, if they are unable to do so, to promptly provide their affiliation to the Secretary.

2. Approval of agenda. The Chair presented the agenda in <https://1.ieee802.org/2024-11-plenary-tsn-agenda/>.

**Disposition:** The agenda was reviewed, and updated as recorded by these minutes.



3. János Farkas presented “Some IEEE 802.1 TSN Developments in 2024”  
<https://www.ieee802.org/1/files/public/docs2024/admin-farkas-some-tsn-developments-1124-v01.pdf>.

**Disposition:** Presentation discussed.

4. The Chair presented incoming liaison and communication:
- ITU-T SG13-LS 208 “LS on request for feedback on work items related to deterministic networking in SG13”  
<https://www.ieee802.org/1/files/public/docs2024/liaison-itu-t-SG13-LS208-DetermNetworking-0824.pdf>.

**Disposition:** Presentation discussed. Further discussion needed.

5. The Chair presented draft motions.

**Disposition:** Draft motions reviewed.

6. Martin Mittelberger, P802.1Qdy editor, led the resolution of comments received on  
<https://www.ieee802.org/1/files/private/dy-drafts/d2/802-1Qdy-d2-1.pdf>.

**Disposition:** Final disposition: <https://www.ieee802.org/1/files/private/dy-drafts/d2/802-1Qdy-d2-1-dis-v02.pdf>.

7. Abdul Jabbar, P802.1ASed editor, led the resolution of comments received on  
<https://www.ieee802.org/1/files/private/ased-drafts/d1/802-1ASed-d1-0.pdf>.

**Disposition:** Disposition per agenda item 8.

15:30 – 16:00 PT recess

8. Abdul Jabbar, P802.1ASed editor, continued the resolution of comments received on  
<https://www.ieee802.org/1/files/private/ased-drafts/d1/802-1ASed-d1-0.pdf>.

**Disposition:** Final disposition: <https://www.ieee802.org/1/files/private/ased-drafts/d1/802-1ASed-d1-0-dis.pdf>.

18:00 PT recess

**Call to order** Nov 13, 2024 8:00 PT by János Farkas, IEEE 802.1 TSN TG Chair (Chair), who presided. Johannes Specht, IEEE 802.1 TSN TG Secretary (Secretary), wrote the minutes.

9. The Chair announced that this meeting remains subject to the Policies mentioned in agenda item 1 and asked participants to record their attendance in IMAT and, if they are unable to do so, to promptly provide their affiliation to the Secretary.

10. The Chair led the resolutions of comments  
<https://www.ieee802.org/1/files/public/docs2024/ec-PAR-CSD-comments-responses-1124-v01.pdf> received on the PAR <https://www.ieee802.org/1/files/public/docs2024/ec-PAR-1124-v01.pdf> and CSD <https://www.ieee802.org/1/files/public/docs2024/ec-CSD-1124-v01.pdf> for P802.1CBec.

**Disposition:** Updated PAR and CSD.

11. Feng Chen presented <https://www.ieee802.org/1/files/private/dd-drafts/d1/802-1DD-d1-0.pdf>.

**Disposition:** Presentation discussed. Further discussion needed.

12. Marina Gutiérrez presented “Backwards compatibility with MSRP | Contribution to P802.1DD” <https://www.ieee802.org/1/files/public/docs2024/dd-gutierrez-et-al-backwards-compatibility-msrp-1124-v02.pdf>.

**Disposition:** Presentation discussed. Further discussion needed.

10:00 – 10:30 PT recess

13. The Chair led the discussion of draft outgoing liaisons:

- Draft liaison response, finalized as “Liaison response to LS 208 on request for feedback on work items related to deterministic networking in SG13”  
<https://www.ieee802.org/1/files/public/docs2024/liaison-response-itu-t-SG13-LS208-DetermNetwrking-1124-v01.pdf>, to ITU-T SG13-LS 208 “LS on request for feedback on work items related to deterministic networking in SG13”  
<https://www.ieee802.org/1/files/public/docs2024/liaison-itu-t-SG13-LS208-DetermNetwrking-0824.pdf>.

**Disposition:** Draft outgoing liaisons discussed.

14. Lihao Chen presented “Individual contribution to IEEE 802.1”

<https://www.ieee802.org/1/files/public/docs2024/dw-chen-individual-text-1124-v02.pdf> and “P802.1Qdw text contribution overview”  
<https://www.ieee802.org/1/files/public/docs2024/dw-chen-text-contribution-overview-1124-v02.pdf>.

**Disposition:** Presentation discussed. Further discussion needed.

15. Lihao Chen presented “Generic TSN end-to-end guideline”

<https://www.ieee802.org/1/files/public/docs2024/new-chen-generic-tsn-e2e-guide-1124-v02.pdf>.

**Disposition:** Presentation discussed.

12:03 PT recess

**Call to order** Nov 13, 2024 16:00 PT by János Farkas, IEEE 802.1 TSN TG Chair (Chair), who presided. Johannes Specht, IEEE 802.1 TSN TG Secretary (Secretary), wrote the minutes.

16. The Chair announced that this meeting remains subject to the Policies mentioned in agenda item 1 and asked participants to record their attendance in IMAT and, if they are unable to do so, to promptly provide their affiliation to the Secretary.

17. Hiroki Nakano, P802.1Qdq editor, led the resolution of comments received on

<https://www.ieee802.org/1/files/private/dq-drafts/d1/802-1Qdq-d1-0.pdf>.

**Disposition:** Final disposition: <https://www.ieee802.org/1/files/private/dq-drafts/d1/802-1Qdq-d1-0-dis-v01.pdf>.

18. Steve Haddock, P802.1AXdz editor, led the resolution of comments received on

<https://www.ieee802.org/1/files/private/axdz-drafts/d0/802-1AXdz-d0-2.pdf> and presented

“802.1AXdz YANG for Link Aggregation: Editor’s Report: November 2024”

<https://www.ieee802.org/1/files/public/docs2024/dz-haddock-editors-report-1124-v1.pdf>.

**Disposition:** Disposition per agenda item 21.

18:00 PT recess

**Call to order** Nov 14, 2024 8:00 PT by János Farkas, IEEE 802.1 TSN TG Chair (Chair), who presided. Johannes Specht, IEEE 802.1 TSN TG Secretary (Secretary), wrote the minutes.

19. The Chair announced that this meeting remains subject to the Policies mentioned in agenda item 1 and asked participants to record their attendance in IMAT and, if they are unable to do so, to promptly provide their affiliation to the Secretary.

20. Takumi Nomura presented “Towards a Solution to the VLAN Issue of gPTP”

<https://www.ieee802.org/1/files/public/docs2024/dg-Nomura-JASPAR-gPTP-VLAN-issue-1124-v03.pdf>.

**Disposition:** Presentation discussed.

21. Steve Haddock, P802.1AXdz editor, continued the resolution of comments received on <https://www.ieee802.org/1/files/private/axdz-drafts/d0/802-1AXdz-d0-2.pdf>.

**Disposition:** Final disposition: <https://www.ieee802.org/1/files/private/axdz-drafts/d0/802-1AXdz-d0-2-dis-v01.pdf>.

10:00 PT adjournment

## 7.1 IEC/IEEE 60802 Joint Project

Between this session and the preceding session, the IEC/IEEE 60802 Joint Project held electronic meetings whose minutes are incorporated to these session minutes by reference as follows:

- Minutes of the IEC/IEEE 60802 Joint Project meeting held 2024-09-30 9:00 - 11:00 ET <https://listserv.ieee.org/cgi-bin/wa?A2=STDS-802-1-MINUTES;7a11cb37.24>
- Minutes of the IEC/IEEE 60802 Joint Project meeting held 2024-10-07 9:00 - 11:00 ET <https://listserv.ieee.org/cgi-bin/wa?A2=STDS-802-1-MINUTES;195d8a5d.24>
- Minutes of the IEC/IEEE 60802 Joint Project meeting held 2024-10-14 9:00 - 11:00 ET <https://listserv.ieee.org/cgi-bin/wa?A2=STDS-802-1-MINUTES;632415c9.24>
- Minutes of the IEC/IEEE 60802 Joint Project meeting held 2024-10-21 9:00 - 11:00 ET <https://listserv.ieee.org/cgi-bin/wa?A2=STDS-802-1-MINUTES;6d4c7dca.24>
- Minutes of the IEC/IEEE 60802 Joint Project meeting held 2024-10-28 9:00 - 11:00 ET <https://listserv.ieee.org/cgi-bin/wa?A2=STDS-802-1-MINUTES;fd24276d.24>
- Minutes of the IEC/IEEE 60802 Joint Project meeting held 2024-11-04 9:00 - 11:00 ET <https://listserv.ieee.org/cgi-bin/wa?A2=STDS-802-1-MINUTES;b4110a6e.24>

See section 1 for attendance and affiliation information.

Call to order Nov 12, 2024 at 10:30 PT by Ludwig Winkel, IEC 65C/WG18 Convenor and IEC/IEEE 60802 Joint Project Chair (60802 Chair), who presided together with János Farkas, IEEE 802.1 TSN TG Chair (TSN TG Chair). Dieter Proell, IEC/IEEE 60802 Joint Project Secretary (60802 Secretary), wrote the minutes.

Agenda items and dispositions:

1. Meeting introduction and other administrative items. The IEEE SA slides on IEEE Patent Policy, IEEE SA Copyright Policy, and Participant Behavior ("Policies") were provided beforehand as part of "MEETING INTRODUCTION"

<https://www.ieee802.org/1/files/public/templates/admin-TG-intro-0324-v01.pdf>.

The 60802 Chair announced that the meeting is subject to these Policies as read and displayed at the opening plenary meeting.

The 60802 Chair made the Calls for Potentially Essential Patents at the beginning of the session thereby providing an opportunity for participants to identify patent claim(s)/patent application claim(s) and/or the holder of patent claim(s)/patent application claim(s) of which the participant is personally aware and that may be essential for the use of that standard: there were no responses to this Call prior to the end of the session.

The 60802 Chair explained that the IEC/IEEE 60802 Joint Project also follows the IEC patent and copyright policies, <https://www.iec.ch/news-resources/reference-material#policy>.

The 60802 Chair asked participants to record their attendance in IMAT and, if they are unable to do so, to promptly provide their affiliation to the minute taker.

2. Approval of agenda. The 60802 Chair presented the agenda in <https://1.ieee802.org/2024-11-plenary-tsn-agenda/>.

**Disposition:** The agenda was reviewed, discussed, and updated as recorded by these minutes.

3. 60802/D3.0 SA ballot comment resolution. Jordon Woods, IEC/IEEE 60802 Joint Project Editor (60802 Editor), led the resolution of comments received on <https://www.ieee802.org/1/files/private/60802-drafts/d3/60802-d3-0.pdf>.

**Disposition:** Ballot comments I-194, I-182, I-50, I-196, I-197, I-198, I-199, I-200, I-201, I-202 were resolved. Partial disposition: <https://www.ieee802.org/1/files/private/60802-drafts/d3/60802-d3-0-pdis-v07.pdf>.

12:15 – 13:30 PT recess

4. 60802/D3.0 SA ballot comment resolution. The 60802 Editor led the resolution of comments received on <https://www.ieee802.org/1/files/private/60802-drafts/d3/60802-d3-0.pdf>.

**Disposition:** Ballot comments I-49, I-134, I-131, I-81, I-132, I-133, I-97, I-98, I-99, I-100, I-161, I-157, I-156, I-102, I-122, I-105, I-211, I-206, I-108, I-109, I-64, I-110, I-63, I-120, I-62, I-31, I-32, I-103, I-104, I-119, I-130, I-213 were resolved. Partial disposition: <https://www.ieee802.org/1/files/private/60802-drafts/d3/60802-d3-0-pdis-v07.pdf>.

15:30 PT recess

Call to order Nov 13, 2024 at 10:30 PT by Ludwig Winkel, IEC 65C/WG18 Convenor and IEC/IEEE 60802 Joint Project Chair (60802 Chair). Dieter Proell, IEC/IEEE 60802 Joint Project Secretary (60802 Secretary), wrote the minutes.

5. Contributions. Guenter Steindl presented “Extended onboarding model” <https://www.ieee802.org/1/files/public/docs2024/60802-steindl-et-al-extended-onboarding-model-1024-v04.pdf>.

**Disposition:** More discussion needed.

6. 60802/D3.0 SA ballot comment resolution. The 60802 Editor led the resolution of comments received on <https://www.ieee802.org/1/files/private/60802-drafts/d3/60802-d3-0.pdf>.

**Disposition:** Ballot comments I-46, I-47, I-164 were resolved. Partial disposition: <https://www.ieee802.org/1/files/private/60802-drafts/d3/60802-d3-0-pdis-v07.pdf>.

12:20 – 13:30 PT recess

7. 60802/D3.0 SA ballot comment resolution. The 60802 Editor led the resolution of comments received on <https://www.ieee802.org/1/files/private/60802-drafts/d3/60802-d3-0.pdf>.

**Disposition:** Ballot comments I-163, I-165, I-92, I-212, I-207, I-210, I-167, I-170, I-173, I-174, I-171, I-158, I-172, I-79, I-93, I-84, I-51, I-175, I-53, I-54, I-55, I-85, I-176, I-187, I-57, I-70, I-74, I-73, I-128, I-94, I-7 were resolved. Partial disposition: <https://www.ieee802.org/1/files/private/60802-drafts/d3/60802-d3-0-pdis-v07.pdf>.

15:30 – 16:00 PT recess

8. 60802/D3.0 SA ballot comment resolution. The 60802 Editor led the resolution of comments received on <https://www.ieee802.org/1/files/private/60802-drafts/d3/60802-d3-0.pdf>.  
**Disposition:** Ballot comments I-225, I-229, I-233, I-234, I-246, I-248, I-254, I-256, I-261, I-281, I-282, I-209, I-107, I-106, I-101, I-121, I-193, I-117, I-115 were resolved. Partial disposition: <https://www.ieee802.org/1/files/private/60802-drafts/d3/60802-d3-0-pdis-v07.pdf>.

17:00 PT recess

Call to order Nov 14, 2024 at 10:30 PT by Ludwig Winkel, IEC 65C/WG18 Convenor and IEC/IEEE 60802 Joint Project Chair (60802 Chair). Dieter Proell, IEC/IEEE 60802 Joint Project Secretary (60802 Secretary), wrote the minutes.

9. November, December and January electronic calls. The 60802 Chair proposed to cancel the meetings initially scheduled on Monday Dec 23, 2024 9:00 - 11:00 ET, Friday Dec 27, 2024 9:00 - 11:00 ET, Monday Dec 30, 2024 9:00 - 11:00 ET, Friday Jan 03, 2025 9:00 - 11:00 ET, Monday Jan 06, 2025 9:00 - 11:00 ET, Monday Jan 20, 2025 9:00 - 11:00 ET and Friday Jan 24, 2025 9:00 - 11:00 ET based on anticipated attendance.  
**Disposition:** Agreed (informally, none dissenting) to cancel these meetings.
10. 60802/D3.0 SA ballot comment resolution. The 60802 Editor led the resolution of comments received on <https://www.ieee802.org/1/files/private/60802-drafts/d3/60802-d3-0.pdf>.  
**Disposition:** Ballot comments I-283, I-284, I-285, I-286, I-287, I-288, I-289, I-290, I-291, I-292, I-227, I-293, I-294, I-295, I-296, I-219, I-220, I-223, I-224, I-226, I-228, I-230, I-231, I-232, I-235, I-239, I-243, I-255, I-265 were resolved. Partial disposition: <https://www.ieee802.org/1/files/private/60802-drafts/d3/60802-d3-0-pdis-v07.pdf>.

12:10 PT adjournment

## 7.2 IEEE P802.1DP/SAE AS6675 joint project

Between this session and the preceding session, the IEEE 802.1 Time-Sensitive Networking (TSN) Task Group (TG) held electronic meetings on P802.1DP/SAE AS 6675 whose minutes are incorporated to these session minutes by reference as follows:

- Minutes of the IEEE P802.1DP/SAE AS6675 meeting held 2024-10-23, 10:00 - 10:40 ET <https://listserv.ieee.org/cgi-bin/wa?A2=STDS-802-1-MINUTES;2bc24e19.24&FT=&P=&H=&S=>

See section 1 for attendance and affiliation information.

**Call to order** Nov 12, 2024 at 13:37 PT by János Farkas, IEEE 802.1 TSN TG Chair. Abdul Jabbar and János Farkas, IEEE P802.1DP/SAE AS6675 joint project co-Chairs, presided. Nader Zein, IEEE P802.1DP/SAE AS6675 Secretary, wrote the minutes.

Agenda items and dispositions:

1. Meeting introduction. The IEEE SA slides on IEEE Patent Policy, IEEE SA Copyright Policy, and Participation Behavior were provided beforehand as part of "MEETING INTRODUCTION" <https://www.ieee802.org/1/files/public/templates/admin-TG-intro-0324-v01.pdf>.  
János Farkas, IEEE P802.1DP/SAE AS6675 co-Chair, announced that the meeting is subject to these Policies as read and displayed at the opening plenary meeting.



János Farkas, IEEE P802.1DP/SAE AS6675 co-Chair, made the Call for Potentially Essential Patents thereby providing an opportunity for participants to identify patent claim(s)/patent application claim(s) and/or the holder of patent claim(s)/patent application claim(s) of which the participant is personally aware and that may be essential for the use of that standard: there were no responses to these Calls prior to the end of the session.

János Farkas, IEEE P802.1DP/SAE AS6675 co-Chair, explained that the IEEE P802.1DP/SAE AS6675 Joint Project also follows the SAE International code of conduct [https://www.sae.org/about/legal-policies/content\\_policy](https://www.sae.org/about/legal-policies/content_policy) and policy on intellectual property and copyright <https://www.sae.org/about/legal-policies/intellectual-property>.

János Farkas, IEEE P802.1DP/SAE AS6675 co-Chair, asked participants to record their attendance in IMAT and, if they are unable to do so, to promptly provide their affiliation to the minute taker.

2. Approval of agenda. János Farkas, IEEE P802.1DP/SAE AS6675 co-Chair, presented the agenda in [https://1.ieee802.org/2024-11-plenary-tsn-agenda/#TSN\\_8211\\_P8021DPAS6675](https://1.ieee802.org/2024-11-plenary-tsn-agenda/#TSN_8211_P8021DPAS6675).

**Disposition:** The agenda was reviewed, discussed and updated as recorded by these minutes.

3. Abdul Jabbar, P802.1DP/SAE AS6675 editor, presented “IEEE P802.1DP | SAE AS6675 TSN Profile for Aerospace | Overview” <https://www.ieee802.org/1/files/public/docs2024/dp-jabbar-profile-overview-0924-v01.pdf> and “IEEE P802.1DP/SAE AS6675 Editor’s Report | Proposed Comment Resolution for D2.1 WG Recirc. Ballot Version 1” <https://www.ieee802.org/1/files/public/docs2024/dp-jabbar-d2-1-wg-ballot-editors-report-1124-v01.pdf>.

**Disposition:** For information.

4. Abdul Jabbar, P802.1DP/SAE AS6675 Editor, led the resolution of comments received on <https://www.ieee802.org/1/files/private/dp-drafts/d2/802-1DP-d2-1.pdf>.

**Disposition:** The following comments were resolved: 168, 179, 180, 202, 165, 169, 170, 167, 195, 200, 201, 196, 192, 166, 193, 171, 194, 183, 197, 172, 190, 184-187, 173, 188, 174, 189, 175, 199, 198, 191, 176-178, 181, 182.

Final disposition provided post-session: <https://www.ieee802.org/1/files/private/dp-drafts/d2/802-1DP-d2-1-dis-v01.pdf>.

15:43 PT adjournment

## 8 Nendica

Between this session and the preceding session, the IEEE 802 “Network Enhancements for the Next Decade” Industry Connections Activity (Nendica) held electronic meetings whose minutes are incorporated to these session minutes by reference as follows:

- Minutes of the Nendica meeting held 2024-10-17 09:00-11:00 ET <https://listserv.ieee.org/cgi-bin/wa?A2=STDS-802-1-MINUTES;cb263d85.24>
- Minutes of the Nendica meeting held 2024-10-31 09:00-11:00 ET <https://listserv.ieee.org/cgi-bin/wa?A2=STDS-802-1-MINUTES;cc05c13f.24>

See section 1 for attendance and affiliation information.

Call to order Nov 14, 2024 8:00 PT by Johannes Specht, Nendica Vice-Chair (“Chair”), who presided and wrote the minutes, reviewed by Roger Marks, Nendica Chair.

Agenda items and dispositions:

1. Meeting introduction and other administrative items. The IEEE SA slides on IEEE Patent Policy, IEEE SA Copyright Policy, and Participant Behavior (“Policies”) were provided beforehand as part of “MEETING INTRODUCTION”

<https://www.ieee802.org/1/files/public/templates/admin-prePAR-intro-0324-v01.pdf>. The

Chair showed this presentation advising that the following applies:

- Participant behavior shall comply with the outlined requirements;
- IEEE SA’s copyright policy is described in Clause 7 of the IEEE SA Standards Board Bylaws and Clause 6.1 of the IEEE SA Standards Board Operations Manual;
- Any material submitted during the Nendica meeting, whether verbal, recorded, or in written form, is a Contribution and shall comply with the IEEE SA Copyright Policy.

The Chair asked participants to record their attendance in IMAT and, if they are unable to do so, to promptly provide their affiliation to the minute taker.

2. Approval of agenda. The Chair presented the agenda at <https://1.ieee802.org/802-nendica-agenda-2024-11-14/> and noted the Mentor server document list.

**Disposition:** The agenda was reviewed and agreed (informally, none dissenting) as presented.

3. Minutes.

- The Chair reviewed the draft “Minutes of the Nendica meeting held 2024-10-31 09:00-11:00 ET” <https://listserv.ieee.org/cgi-bin/wa?A2=STDS-802-1-MINUTES;cc05c13f.24>.

**Disposition:** Agreed (informally, none dissenting) to approve the minutes.

- The Chair reviewed the draft “Minutes of the Nendica meeting held 2024-05-16 08:00-10:00 CEST” <https://listserv.ieee.org/cgi-bin/wa?A2=STDS-802-1-MINUTES;5f2a7104.24>.

**Disposition:** Agreed (informally, none dissenting) to approve the minutes.

4. Study Items.

- Lily Lyu led discussions regarding the AI Computing Networks (AICN) Study Item.
- Yuehua Wei presented “Updates of 1-24-0031-02-ICne”(Rev 0) [https://mentor.ieee.org/802.1/documents?is\\_year=2024&is\\_dcn=0057](https://mentor.ieee.org/802.1/documents?is_year=2024&is_dcn=0057).

Discussion focused on clarification of the information on page 6 and how it correlates with the conclusions on page 7. The contributors were encouraged to prepare a revision.

**Disposition:** Further discussion needed.

- Weiqiang Cheng presented “Follow-up Discussion of Link security” (Rev 0) [https://mentor.ieee.org/802.1/documents?is\\_year=2024&is\\_dcn=0056](https://mentor.ieee.org/802.1/documents?is_year=2024&is_dcn=0056).

Discussion included consideration of different aspects of MACsec in relationship to the proposal presented, and the roles of the IEEE 802 Nendica, IEEE 802.1 WG, IEEE 802.3 WG, and IEEE 802.3 NEA.

**Disposition:** Further discussion needed.

- Lily Yunping Lyu presented “Clarification of the content in AICN” (Rev 0) [https://mentor.ieee.org/802.1/documents?is\\_year=2024&is\\_dcn=0055](https://mentor.ieee.org/802.1/documents?is_year=2024&is_dcn=0055).

Discussion included how IEEE 802.1 technologies could be potentially used to enhance the network performance over the presented communication patterns.

**Disposition:** Further discussion needed.

- Contribution “Reviewing Load balancing issues in AI Computing Network” (Rev 1) [https://mentor.ieee.org/802.1/documents?is\\_year=2024&is\\_dcn=0060](https://mentor.ieee.org/802.1/documents?is_year=2024&is_dcn=0060) was deferred to a subsequent Nendica meeting due to lack of time.
- 5. Vetting and New Topics. No discussion.
- 6. Next Meeting. It was agreed (informally, none dissenting) to request authorization to meet electronically alternate Thursdays 9:00 - 11:00 ET, beginning December 12, 2024, with additional meetings as announced at least 10 days in advance.
- 7. Other Business. The Chair noted documents “Announcement: IEEE SA Industry Connections White Paper Guidelines” (Rev 0) [https://mentor.ieee.org/802.1/documents?is\\_year=2024&is\\_dcn=0059](https://mentor.ieee.org/802.1/documents?is_year=2024&is_dcn=0059) and “IEEE SA Industry Connections White Paper Guidelines & Requirements” (Rev 0) [https://mentor.ieee.org/802.1/documents?is\\_year=2024&is\\_dcn=0058](https://mentor.ieee.org/802.1/documents?is_year=2024&is_dcn=0058).  
**Disposition:** For information.

10:03 PT adjournment

## 9 YANGsters

Between this session and the preceding session, YANGsters held electronic meetings whose minutes are incorporated to these session minutes by reference as follows:

- Minutes of the YANGsters meeting held 2024-11-05 10:02 –10:54 ET <https://listserv.ieee.org/cgi-bin/wa?A2=STDS-802-1-MINUTES;4bc942a8.25&S=>

See section 1 for attendance and affiliation information.

Call to order Nov 12, 2024 at 16:00 PT by Stephan Kehrer, YANGsters Vice-Chair, acting locally for remote Scott Mansfield, YANGsters Chair, who presided. Stephan Kehrer, YANGsters Secretary, wrote the minutes.

Agenda items and dispositions:

1. Meeting introduction. The IEEE SA slides on IEEE Patent Policy, IEEE SA Copyright Policy, and Participant Behavior (“Policies”) were provided beforehand as part of “MEETING INTRODUCTION” <http://www.ieee802.org/1/files/public/templates/admin-prePAR-intro-0324-v01.pdf>.  
The YANGsters Vice Chair showed this presentation advising that the following, provided beforehand, applies:
  - Participant behavior shall comply with the outlined requirements;
  - IEEE SA’s copyright policy is described in Clause 7 of the IEEE SA Standards Board Bylaws and Clause 6.1 of the IEEE SA Standards Board Operations Manual;
  - Any material submitted during standards development, whether verbal, recorded, or in written form, is a Contribution and shall comply with the IEEE SA Copyright Policy.
- The YANGsters Vice Chair asked participants to record their attendance in IMAT and, if they are unable to do so, to promptly provide their affiliation to the minute taker.
2. Approval of agenda. The YANGsters Chair presented the agenda in <https://1.ieee802.org/november-2024-plenary-session-yangsters-agenda/>.  
**Disposition:** The agenda was reviewed, discussed, and updated as recorded by these minutes.



3. Introduction to YANGsters. The YANGsters Chair presented the “Introduction” slide of “YANGsters” <https://www.ieee802.org/1/files/public/docs2024/yangsters-smansfield-vancouver-status-1124-v01.pdf> to introduce the following:
  - <https://1.ieee802.org/yangsters/>, and
  - <https://1.ieee802.org/yangsters/yangsters-guidelines/yangsters-faq/>.**Disposition:** For information.
4. Status. The YANGsters Chair presented slide 3 of the presentation in agenda item 3.
  - The table on the “YANG Status” slide provides an overview of all currently open IEEE 802.1 projects that contain or are expected to contain YANG.**Disposition:** For information.
5. IEEE 802.3 YANG Update. The YANGsters Chair provided an overview of the topic.
  - Comment resolution on P802.3.2/D3.0 has finished.
  - P802.3.2/D3.1 is currently being prepared for recirculation.**Disposition:** For information.
6. IETF YANG Status. The YANGsters Chair presented the topic and led the discussion.
  - IETF 121 took place in the week of Nov 4, 2024. More information can be found at <https://datatracker.ietf.org/meeting/121/agenda>.
  - Some topics in the IETF netmod group are of relevance for YANGsters.
  - Work on an update of IETF RFC 8407 “Guidelines for Authors and Reviewers of Documents Containing YANG Data Model” is ongoing. For more information, see <https://datatracker.ietf.org/doc/draft-ietf-netmod-rfc8407bis/20/>.**Disposition:** For information.
7. Bridge YANG Discussion Stephen Haddock introduced the topic by presenting “802.1Q YANG bridge-address” <https://www.ieee802.org/1/files/public/docs2024/yangsters-haddock-bridge-address-1124-v3.pdf> and led the discussion.
  - This was a continuation of the topic from previous YANGsters meetings.
  - Slide 6 of the presentation provides two options how to address the issue.
  - The suggested way forward is the second option: change macAddress to “config true” but “mandatory false” and remove the “unique” statement.
  - This change would allow a manufacturer to provide a value for macAddress. An operator could override the value provided by the manufacturer. The change is backward compatible.**Disposition:** YANGsters suggest that a maintenance item on the issue be submitted with the recommended option as a suggested remedy.
8. Maintenance item 0374. The YANGsters chair provided an overview of maintenance item 0374 <https://www.802-1.org/items/481>.
  - During the meeting of the Maintenance TG on Nov 13, 2025, it was suggested that YANGsters discuss the topic to provide a recommendation to the Maintenance TG on how to move forward.
  - It is planned to continue the discussion on the item in the YANGsters electronic meeting on Dec 3, 2025.**Disposition:** More discussion needed.
9. YANG module inclusion in FrameMaker. Mick Seaman introduced the topic and led the discussion.
  - The process of including YANG modules into FrameMaker should be done in a way that keeps it manageable.
  - It was pointed out that it would be desirable to have live cross references in the YANG modules included in IEEE 802.1 documents.
10. Request for Next Calls. Intersession YANGsters electronic meetings would be held every other week, starting Tuesday, Dec 3, 2024, tentative on 802.1 approval during the 802.1 closing plenary meeting.

11. Any Other Business.

17:26 PT adjournment

## 10 Closing Plenary Meeting

**Call to order** Nov 14, 2024 at 13:33 PT by the Chair who presided. The Recording Secretary wrote the minutes.

See section 1 for attendance and affiliation information.

The Chair presented “Closing Plenary November 2024” finalized as <https://www.ieee802.org/1/files/public/minutes/2024-11-closing-plenary-slides.pdf>.

During this presentation, the Chair:

- Introduced the agenda on slide 2 that was tacitly approved.
- Reminded all participants that access to this session requires a registration fee (slide 3).
- Reviewed mixed mode guidelines (slides 4 and 5), audio guidelines for in-person attendees (slide 6), web conferencing guidelines supporting mixed mode (slide 7), meeting decorum including the policies on public reporting, and on photography or recording (slide 8), and called for any members of the press (i.e., anyone reporting publicly on this meeting) who have not already announced themselves to announce their presence.
  - There were no responses to the call.
- Asked participants to record attendance in IMAT and, if they are unable to do so, to promptly provide their affiliation to the minute taker (slide 9).
- Announced that this closing plenary meeting remains subject to the IEEE Patent Policy (slides 10 to 15), IEEE SA Copyright Policies (slides 16 to 18) and IEEE SA Participation policies (slides 19 to 21) made available beforehand (as announced in the opening plenary meeting – see section 3) and noted related subgroup announcements (slide 22).
- Reminded participants of the various plenary session registration fees applying and attendant registration details (slide 23).
- Provided general information regarding meeting contributions, minutes, schedule for all Working Groups, website (slide 24).
- Showed the list of 802.1 officers and leadership (slide 25), recognizing this session as the last to be attended by Ludwig Winkel, presenting him with a certificate of appreciation for his invaluable contribution and constructive participation in the WG (slide 26), and announcing Dieter Proell and Nemanja Stamenic as the succeeding IEC/IEEE 6802 Joint Project Chair and Secretary, respectively. A round of applause ensued.
  - 13:43-13:44 PT recess (during which photographs were taken of the certificate recipient and the Chair)
- Recognized the editors of current projects (slide 27), noting that the role of P802.1Qdw editor is still vacant.
- Reminded 802.1 participants and voting members of obligations regarding 802.1 voting membership and how voting membership may be requested and retained (slide 28).
- Reminded 802.1 voting members of their obligations regarding responding to WG letter ballot series (WG ballots + ePolls) as well as regarding the consequences of not responding to WG letter ballot series (slide 29).

- Reviewed the list of 802.1 voting members (slide 30), including information about individuals who may gain (slides 31 and 32), could lose (slide 33), or will lose (slide 34) 802.1 voting membership.
- Reminded individual participants of 802.11 reciprocal credit, which was continued at this session (slide 35), and of 802.3 reciprocal credit, which was trialed at this session (slide 36).
- Had the 802.1 Executive Secretary summarize information about upcoming sessions, starting with the three possible options for the January 2025 interim session (slides 37 to 40), May 2025 (slide 41), and Sep 2025 (slides 42 and 43) interim sessions
  - The three possible options for the January 2025 interim session, for which the Chair noted a motion is proposed, were discussed.
- Showed “IEEE 802.3 Interim Session September 14-19th, 2025”  
<https://www.ieee802.org/1/files/public/docs2024/admin-kehrer-Sep25-interim-proposal-Siemens-1124-v03.pdf> and conducted the following straw poll (slide 44):
  - Out of the two options for the IEEE 802.1 September 2025 interim session, which do you prefer?
    - Siemens offer, Minneapolis 15
    - Huawei offer, Munich 25
- Had the 802.1 Executive Secretary summarize the schedule for future interim (slide 45) and plenary (slide 46) sessions, which remained unchanged from the opening plenary meeting except for Jan and Sep 2025 as previously presented.
- Conducted the following straw polls (slide 47):
  - 1. Would you like to come back to this venue?
    - Yes 25
    - No 4
    - Did not respond 19
  - 2. Did you go to the social?
    - Yes 18
    - No 3
    - Did not respond 6
  - 3. Did you like the social?
    - Yes 10
    - No 7
    - Did not respond 10

48 present in Webex

27 present in room

- Provided the anticipation of next actions with respect to projects in the WG’s current workload (slide 48)
- Requested that the subgroup Chairs provide reports on the activities of their subgroups during this plenary session (slide 49) (see individual subgroup minutes above for details):
  - The Maintenance TG Chair presented the report on slides 50-51, the 802.1 Chair showing the PAR <https://www.ieee802.org/1/files/public/docs2024/cb-Hantel-draft-PAR-0924-v01.pdf> for P802.1CB-2017-REV: the Maintenance TG Chair presented PAR item 7.1: no comments were received in this meeting on this presented item.
  - The Security TG Chair presented the report on slide 52.
  - The IEC/IEEE 60802 Joint Project Chair and TSN TG Chair presented the report on slide 53.
  - The Nendica Vice Chair presented the report on slide 54, the 802.1 Chair noting that related discussions including on link layer aspects may take place with 802.3’s New Ethernet Applications ICA.

- The YANGsters Chair presented the report on slide 55.
- Introduced the promotion work of the WG (slide 56) and summarized public visibility encouraging anyone to volunteer as coordinator for 802.1 (slide 57).
  - It was noted that 802 marketing calls are held with IEEE SA marketing bi-monthly where an 802.1 participant would be welcome.
- Encouraged nominations for IEEE Fellow (slide 58) and for the various types of IEEE Awards (slide 59).
- Had the Liaison Secretary summarize liaison resources (slide 60), review incoming liaisons reviewed at this session (slide 61), summarize the set of outgoing liaisons (slide 62).
- Summarized discussion during the ITU Coordination meeting held this week (slide 63).
- Had the Liaison Secretary lead the final review of draft outgoing liaison statements (slide 62).
  - The TSN TG Chair showed the draft liaison response, finalized as “Liaison response to LS 208 on request for feedback on work items related to deterministic networking in SG13”  
<https://www.ieee802.org/1/files/public/docs2024/liaison-response-itu-t-SG13-LS208-DetermNetwrking-1124-v01.pdf>, to ITU-T SG13-LS 208 “LS on request for feedback on work items related to deterministic networking in SG13”  
<https://www.ieee802.org/1/files/public/docs2024/liaison-itu-t-SG13-LS208-DetermNetwrking-0824.pdf>.
    - Agreed (informally, none dissenting) to have the 802.1 Chair use editorial license to change, as suggested, “to various scale and network segments” to “at any scale and to various network segments”.
  - The Liaison Secretary showed other draft outgoing liaisons per the sequence of slide 62.
    - Drafts discussed and agreed (informally, none dissenting) not to modify them.
- Addressed questions on the incoming liaison “Towards a Solution to the VLAN Issue of gPTP” <https://www.ieee802.org/1/files/public/docs2024/dg-Nomura-JASPAR-gPTP-VLAN-issue-1124-v03.pdf> from the JASPAR organization and clarified that no motion is needed to draft a response. Any response would be captured on the “Incoming and Outgoing Liaisons” page at <https://1.ieee802.org/liaisons/liaisonable/>.
- Summarized the outcome of the ITU Coordination meeting held during this session (slide 63).
- Provided guidance on using DirectVoteLive to vote on motions (slide 64).
- Following 15:38 – 16:00 PT recess, showed the 802.1 consent agenda items for the LMSC closing plenary meeting (slides 65-67).
- Conducted votes on the following motions (slides 68-108) that all passed unless indicated otherwise. (Supporting information is available in “Closing Plenary November 2024” finalized as <https://www.ieee802.org/1/files/public/minutes/2024-11-closing-plenary-slides.pdf>.)

**Motions for 802 EC  
Consent Agenda  
PARs to NesCom**

- Motion
  - Approve forwarding P802.1CBec PAR documentation in <https://www.ieee802.org/1/files/public/docs2024/ec-PAR-1124-v01.pdf> to NesCom
  - Approve CSD documentation in <https://www.ieee802.org/1/files/public/docs2024/ec-CSD-1124-v01.pdf>
  - In the WG, Proposed: Stephan Kehrer ,  
Second: János Farkas
    - PAR (y/n/a): 28, 0, 5
    - CSD (y/n/a): 29, 0, 4
- Motion
  - Approve forwarding P802.1CB-2017-Revision PAR documentation in <https://www.ieee802.org/1/files/public/docs2024/cb-Hantel-draft-PAR-0924-v01.pdf> to NesCom
  - Note: there is no CSD statement since this maintenance project is not intended to provide any new functionality  
In the WG, Proposed: Mark Hantel      Second: Karen Randall
  - Sending draft (y/n/a): 41, 0, 1

**Motions for 802 EC  
Consent Agenda  
Drafts to SA Ballot**

- Motion
  - Conditionally approve sending P802.1DP D3.0 to Standards Association ballot
  - Confirm the CSD for P802.1DP in <https://mentor.ieee.org/802-ec/dcn/21/ec-21-0096-00-ACSD-p802-1dp.pdf>
  - P802.1DP D2.1 had 100% approval at the end of the last WG ballot
  - In the WG, Proposed: János Farkas, Second: Jessy Rouyer
    - Sending draft (y/n/a): 28, 0, 5
    - CSD (y/n/a): 28, 0, 4

**Motions for 802 EC  
Consent Agenda  
Drafts to RevCom**

- Motion
  - Approve sending P802-REVC to RevCom
    - Note: there is no CSD statement since this maintenance project is not intended to provide any new functionality
  - P802-REVC D2.2 had 96% approval at the end of the last SA ballot
  - In the WG, Proposed: Mark Hantel      Second: Karen Randall
    - Sending draft (y/n/a): 28, 1, 3

- Motion
  - Conditionally approve sending P802.1Qdy to RevCom
  - Approve CSD documentation in <https://mentor.ieee.org/802-ec/dcn/23/ec-23-0149-00-ACSD-p802-1qdy.pdf>
  - P802.1Qdy D2.1 had 97% approval at the end of the last SA ballot
  - In the WG, Proposed: Mick Seaman, Second: János Farkas
    - Sending draft (y/n/a): 30, 1, 2
    - CSD (y/n/a): 29, 1, 2

**Motions for 802 EC  
Consent Agenda  
Liaisons and external communications (ME)**

- Motion
  - Approve sending ballot comment responses to ISO/IEC JTC1 SC6 on: IEEE Std 802.1AEdk, IEEE Std 802.1Qcz and IEEE Std 802.1Qdj
    - <https://www.ieee802.org/1/files/public/docs2024/liaison-randall-SC6CommentResponse8021Qdj-1124.pdf>
    - <https://www.ieee802.org/1/files/public/docs2024/liaison-randall-SC6CommentResponse8021QczFDIS-1124.pdf>
    - <https://www.ieee802.org/1/files/public/docs2024/liaison-randall-SC6CommentResponse8021AEdkFDIS-1124.pdf>
  - In the WG, Proposed: Mark Hantel Second: Karen Randall
    - Sending draft (y/n/a): 31, 0, 1
- Motion
  - Approve Sending draft, when SA ballot starts, to ISO/IEC JTC1 SC6 for information under the PSDO agreement: IEEE 802.1DP
  - In the WG, Proposed: Mark Hantel Second: Karen Randall
  - Sending draft (y/n/a): 31, 0, 1
- Motion
  - Approve Sending standard(s), when published, to ISO/IEC JTC1 SC6 for adoption under the PSDO agreement: IEEE 802 and IEEE 802.1Qdy
  - In the WG, Proposed: Mark Hantel Second: Karen Randall
    - Sending draft (y/n/a): 33, 1, 0
- Motion
  - Approve <https://www.ieee802.org/1/files/public/docs2024/liaison-response-itu-t-SG15-LS135-OTNTStdznWorkPlan34-1124.pdf> as communication to ITU-T SG15 on OTNT Standardization Work Plan Issue 34 granting the IEEE 802.1 WG chair (or his delegate) editorial license.
    - This approval is under LMSC OM “Procedure for public statements to government bodies”
  - In the WG, Proposed: Mark Hantel Second: Karen Randall
    - Sending draft (y/n/a): 32, 0, 2
- Motion
  - Approve <https://www.ieee802.org/1/files/public/docs2024/liaison-response-itu-t-SG13-LS208-DetermNetworking-1124-v01.pdf> as communication to ITU-T SG13 granting the IEEE 802.1 WG chair (or his delegate) editorial license.
    - This approval is under LMSC OM “Procedure for public statements to government bodies”



- In the WG: Proposed: János Farkas, Second: Karen Randall
  - (y/n/a): 31, 0, 3
- Motion
  - Approve establishing a liaison relationship between the IEEE 802.1 Working Group and IEC TC 57/WG15 for collaboration on MACsec profiles.
  - In the WG, Proposed: Mick Seaman Second: Karen Randall
    - (y/n/a): 30, 2, 1
- Motion
  - Approve appointing Maik Seewald as the Standards Committee External Liaison coordinator from IEEE 802.1 Working Group to IEC TC 57/WG15.
  - In the WG, Proposed: Mick Seaman Second: Karen Randall
    - (y/n/a): 27, 0, 4

**Motions for 802 EC  
Consent Agenda  
Liaisons and external communications (II)**

- Motion
  - Approve sharing IEC/IEEE 60802 Draft 3.0 with OPC Foundation
  - In the WG, Proposed: Martin Mittelberger Second: Janos Farkas
  - Sending draft (y/n/a): 31, 1, 1

**Administrative  
WG Motions**

- Motion
  - 802.1 approves:
    - July 2024 (plenary) session minutes:
      - <https://www.ieee802.org/1/files/public/minutes/2024-07-minutes.pdf>
    - September 2024 (interim) session minutes:
      - <https://www.ieee802.org/1/files/public/minutes/2024-09-minutes.pdf>
  - Proposed: Jessy Rouyer
  - Seconded: Johannes Specht
  - Approved by acclamation
- Meetings motion
  - 802.1 authorizes the noted subgroups to hold the meetings in the following future meetings table with announcement requirement, agenda and access information as indicated
  - Proposed: Jessy Rouyer
  - Seconded: János Farkas
  - Approved by acclamation

Future meetings table

Subgroup	Topic	Date	Time	Recurrence	Date	Agenda	Agenda	Access Information
					Announcements (days prior)			
YANGsters	per agenda	Tue 2024/12/03	10:00 - 11:00 ET	every two weeks	motion	5 days	<a href="#">802.1 Minutes email list</a>	<a href="https://1.ieee802.org/yangsters/yangsters-call-information/">https://1.ieee802.org/yangsters/yangsters-call-information/</a>
YANGsters	per agenda	as announced			10 days	10 days	<a href="#">802.1 Minutes email list</a>	<a href="https://1.ieee802.org/yangsters/yangsters-call-information/">https://1.ieee802.org/yangsters/yangsters-call-information/</a>
Maintenance TG	address TG matters and progress resolution of maintenance items in <a href="https://1.ieee802.org/maintenance/database/">https://1.ieee802.org/maintenance/database/</a>	as announced			10 days	10 days	<a href="#">802.1 Minutes email list</a>	<a href="https://1.ieee802.org/category/maintenance-tg-agenda/">https://1.ieee802.org/category/maintenance-tg-agenda/</a>
Security TG	P802.1Qdt and TG matters arising	as announced			10 days	10 days	<a href="#">802.1 Minutes email list</a>	<a href="https://1.ieee802.org/security/security-task-group-agenda/">https://1.ieee802.org/security/security-task-group-agenda/</a>
TSN TG	per agenda	Mon 2025/03/10	8:00 - 10:00	none	motion	14 days	<a href="https://1.ieee802.org/category/tsn-tg-agenda/">https://1.ieee802.org/category/tsn-tg-agenda/</a>	<a href="https://1.ieee802.org/meetings/">https://1.ieee802.org/meetings/</a>
TSN TG	per agenda	Fri 2025/03/14	8:00 - 13:00	none	motion	14 days	<a href="https://1.ieee802.org/category/tsn-tg-agenda/">https://1.ieee802.org/category/tsn-tg-agenda/</a>	<a href="https://1.ieee802.org/meetings/">https://1.ieee802.org/meetings/</a>
TSN TG	per agenda	Mon 2024/11/25	11:00 - 13:00 ET	weekly	motion	5 days	<a href="#">802.1 Minutes email list</a>	<a href="http://www.ieee802.org/1/tsn">http://www.ieee802.org/1/tsn</a>
TSN TG	progress TG projects and TG matters arising	as announced			10 days	10 days	<a href="#">802.1 Minutes email list</a>	<a href="http://www.ieee802.org/1/tsn">http://www.ieee802.org/1/tsn</a>
TSN TG	progress IEC/IEEE 60802 Joint Project work	Mon 2024/12/02	9:00 - 11:00 ET	weekly	motion	5 days	<a href="#">802.1 Minutes email list</a>	<a href="http://www.ieee802.org/1/tsn">http://www.ieee802.org/1/tsn</a>



Subgroup	Topic	Date	Time	Recurrence	Date	Agenda	Agenda	Access Information
					Announce- ments (days prior)			
	with IEC 65C/WG18							
TSN TG	progress IEC/IEEE 60802 Joint Project work with IEC 65C/WG18	Fri 2024/12/06	9:00 - 11:00 ET	weekly	motion	5 days	<a href="#">802.1 Minutes email list</a>	<a href="http://www.ieee802.org/1/tsn">http://www.ieee802.org/1/tsn</a>
TSN TG	progress P802.1DG	Tue 2024/11/26	9:00 - 11:00 ET	weekly	motion	5 days	<a href="#">802.1 Minutes email list</a>	<a href="http://www.ieee802.org/1/tsn">http://www.ieee802.org/1/tsn</a>
TSN TG	progress P802.1DP / SAE AS6675 Joint Project work with SAE AS6675	Wed 2024/11/20	10:00 - 12:00 ET	weekly	motion	5 days	<a href="#">802.1 Minutes email list</a>	<a href="http://www.ieee802.org/1/tsn">http://www.ieee802.org/1/tsn</a>
Nendica	per agenda	Thu 2024/12/12	9:00 - 11:00 ET	every two weeks	motion	5 days	<a href="#">802.1 Minutes email list</a>	<a href="https://1.ieee802.org/802-nendica/">https://1.ieee802.org/802-nendica/</a>
Nendica	per agenda	as announced			10 days	10 days	<a href="#">802.1 Minutes email list</a>	<a href="https://1.ieee802.org/802-nendica/">https://1.ieee802.org/802-nendica/</a>

- Motion
  - 802.1 approves to hold an 802.1 fully electronic interim session January 13-17, 2025
    - Information on slide 40
  - Proposed: Max Turner
  - Seconded: Silvana Rodrigues
  - Yes: 13 No: 16 Abstain: 5
  - Motion failed.
- Motion
  - 802.1 approves to hold an 802.1 mixed mode interim session January 13-17, 2025 in Albany at GE
    - Information on slide 38
  - Proposed: Max Turner
  - Second: Silvana Rodrigues
  - Yes: 12 No: 16 Abstain: 6
  - Motion failed.

- Motion
  - 802.1 approves to hold an 802.1 mixed mode interim session January 20-24, 2025 in Phoenix hosted by Samtec
    - Information on slide 39
  - Proposed: Mark Hantel
  - Second: David McCall
  - Yes: 17    No: 9    Abstain: 8

**Nendica  
WG Motions**

**YANGsters  
WG Motions**

**Maintenance TG  
WG Motions**

- Motion
  - 802.1 authorizes the Maintenance TG to generate a PAR modification at the January 2025 interim session for P802.1AS-2020-REV.
  - Proposed: Mark Hantel
  - Second: Karen Randall
  - In the WG (y/n/a): 31, 0, 0
- Motion
  - 802.1 authorizes Paul Botorff, the Editor of P802.1AB-2016-REV, Standard for Local and Metropolitan Area Networks -- Station and Media Access Control Connectivity Discovery, to prepare drafts for and conduct Task Group balloting.
  - Proposed: Mark Hantel
  - Second: Karen Randall
  - In the WG (y/n/a): 32, 0, 0
- Motion
  - 802.1 authorizes Jessy Rouyer, the Editor of P802.1AC-2016-REV, Standard for Local and Metropolitan Area Networks -- Media Access Control (MAC) Service Definition, to prepare drafts for and conduct Task Group balloting.
  - Proposed: Mark Hantel
  - Second: Karen Randall
  - In the WG (y/n/a): 32, 0, 0
- Motion
  - 802.1 authorizes Silvana Rodrigues, the Editor of P802.1AS-2020-Rev Standard for Local and Metropolitan Area Networks: Timing and Synchronization for Time-Sensitive Applications to prepare drafts for and conduct Working Group balloting after Task Group balloting.
  - Proposed: János Farkas
  - Second: Max Turner
  - In the WG (y/n/a): 32, 0, 0

**Security TG  
WG Motions**

**TSN TG  
WG Motions**

- Motion
  - 802.1 authorizes Stephen Haddock, the Editor of P802.1AXdz Standard for Local and Metropolitan Area Networks: Link Aggregation — Amendment: YANG for Link Aggregation to prepare drafts for and conduct Working Group balloting.
  - Proposed: János Farkas
  - Second: Stephan Kehrer
  - In the WG (y/n/a): 33, 0, 0
- Motion
  - 802.1 authorizes Abdul Jabbar, the Editor of P802.1ASed Standard for Local and Metropolitan Area Networks: Timing and Synchronization for Time-Sensitive Applications — Amendment: Fault-Tolerant Timing with Time Integrity to prepare drafts for and conduct Working Group balloting.
  - Proposed: János Farkas
  - Second: Nader Zein
  - In the WG (y/n/a): 31, 0, 1
- Motion
  - 802.1 authorizes Martin Mittelberger, the Editor of P802.1DD Standard for Local and Metropolitan Area Networks: Resource Allocation Protocol to prepare drafts for and conduct Task Group balloting.
  - Proposed: János Farkas
  - Second: Mick Seaman
  - In the WG (y/n/a): 31, 1, 1
- Called for Any Other Business (slide 109).
  - It was noted that this plenary session was held on the unceded, traditional and ancestral territories of the Squamish, Musqueam, and Tsleil-Watuth Nations: a participant expressed personal gratitude to them for making this possible.
  - No other business was discussed in this meeting.

17:25 PT adjournment

## 8 Next Session

Jan 20-24, 2025 mixed mode interim session in Phoenix, AZ, USA.