IEEE 802.1 Working Group
July 15-19, 2024 Plenary Session
Montreal, QC, Canada – Mixed Mode
Session Minutes

The Working Group (WG) Chair, Glenn Parsons, presided and had requested that any subgroup Chair in remote attendance have on-site an individual acting on their behalf as needed to help conduct proceedings in "mixed mode", i.e. with local and remote participants. The Recording Secretary, Jessy Rouyer, wrote and/or edited the minutes in part based on input from subgroup Chairs and their Secretaries.

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

The table in this section reflects the attendance (denoted by the ● symbol) and affiliation of attendees in all 802.1 WG and subgroup meetings held in this session. Also see section 4.

The column session headings (left to right after the name/affiliation columns) are:

1. TSN, Mon Jul 15, 2024, 8:00-10:00 ET
2. Opening Plenary, Mon Jul 15, 2024, 10:30-12:30 ET
3. P802-REVc, Mon Jul 15, 2024, 13:30-15:30 ET
4. TSN, Mon Jul 15, 2024, 13:30-15:30 ET
5. TSN, Mon Jul 15, 2024, 16:00-18:00 ET
6. Maintenance, Tue Jul 16, 2024, 8:00-10:00 ET
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15. Security, Wed Jul 17, 2024, 13:30-15:30 ET
16. TSN, Wed Jul 17, 2024, 13:30-15:30 ET
17. Security, Wed Jul 17, 2024, 16:00-18:00 ET
18. TSN, Wed Jul 17, 2024, 16:00-18:00 ET
19. Nendica, Thu Jul 18, 2024, 8:00-10:00 ET
20. TSN, Thu Jul 18, 2024, 8:00-10:00 ET
21. TSN, Thu Jul 18, 2024, 10:30-12:30 ET
22. Closing Plenary, Thu Jul 18, 2024, 13:30-18:00 ET
23. TSN, Fri Jul 19, 2024, 8:00-10:00 ET
24. TSN, Fri Jul 19, 2024, 10:30-12:30 ET

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Abuibaid	Mohammed	Ericsson AB	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Ahmed	Mahin	Silicon Austria Labs GmbH	●	●	●	●	●	●	●	●	●		●	●	●	●	●	●	●	●	●				●	
Al-kadi	Ghiath	STMicroelectronics*										●														
Amezawa	Yasuharu	Mobile Techno Corp.										●														
Arunarthi	Venkat	Broadcom Corporation	●	●	●	●	●	●	●	●	●	●	●			●	●							●	●	
Aslan Saruhan	Aysun	Carleton University	●	●	●	●	●	●	●	●	●		●	●			●			●			●	●	●	
Assmann	Ralf	Marvell Semiconductor, Inc.	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Balraj	Murugan	Nokia	●	●	●	●	●	●	●	●	●		●	●	●	●	●	●	●	●	●	●	●	●	●	●

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Beecher	Philip	Wi-SUN Alliance										•														
Berger	Catherine	IEEE								•												•	•			
Boiger	Christian	Infineon Technologies	•	•	•	•	•	•	•	•		•	•	•	•	•	•	•	•	•		•	•	•	•	•
Bottorff	Paul	Hewlett-Packard Development Company, L.P.	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•		•	•	•	•	•
Canchi	Radhakrishna	Kyocera International Inc		•	•	•	•	•	•	•	•		•			•		•		•			•			
Chen	Feng	Siemens AG	•	•	•	•	•	•	•	•	•		•	•	•	•	•	•	•	•		•	•		•	•
Chen	Lihao	Huawei Technologies Co., Ltd	•	•	•	•	•	•	•	•	•		•	•	•	•	•	•		•		•	•	•	•	•
Chen	Ling	*											•	•												
Chng	Shi Baw	BAWMAN LLC		•	•	•																			•	•
Dev	Svi	KYOCERA SLD Laser*	•																							
Du	Zongpeng	China Mobile Limited	•	•	•	•	•	•	•	•	•		•	•	•					•		•	•	•	•	•
Farkas	Janos	Ericsson AB	•	•	•	•	•	•	•	•	•		•	•	•	•	•	•		•		•	•	•	•	•
Fedyk	Donald	LabN Consulting, L.L.C.	•	•	•	•	•	•	•	•	•		•	•	•	•	•			•			•	•		
Gapp	Simon	Avn			•	•	•						•	•	•	•										
Garner	Geoffrey	Analog Devices	•	•	•	•	•						•	•	•	•	•	•	•	•		•	•		•	•
Gilb	James	General Atomics Aeronautical Systems, Inc.			•	•							•	•												
Gravel	Mark	Hewlett Packard Enterprise	•	•	•	•	•	•	•	•	•		•	•	•	•	•	•	•	•			•	•		
Gubow	Martin	Keysight Technologies	•											•											•	•
Gunther	Craig	LabN Consulting, L.L.C.	•	•	•	•	•	•	•	•	•		•	•	•	•	•	•	•	•			•	•		
Gutierrez	Marina	L-Acoustics;RealTime-at-Work (RTaW)	•	•	•	•	•		•	•			•	•	•	•	•			•	•	•				
Haasz	Jodi	IEEE Standards Association (IEEE-SA)		•	•	•		•	•				•	•	•	•	•							•		
Hamilton	Mark	Ruckus Wireless											•	•												
Han	Ruibo	China Mobile Communications Corporation (CMCC)	•	•	•	•	•															•	•	•	•	•
Hantel	Mark	Rockwell Automation	•	•	•	•	•	•	•	•		•	•	•	•	•	•	•	•	•		•	•	•	•	•
Harada	Hiroshi	National Institute of Information and Communications Technology (NICT)									•															
Hernandez	Marco	National Institute of Information and Communications Technology (NICT)						•			•															
Hirata	Masayuki	Osaka University									•															
Hopf	Daniel	Continental Automotive Technologies GmbH	•	•	•	•	•	•	•	•	•		•	•	•	•	•						•	•	•	
Hortig	Philipp	avn			•	•	•						•	•	•	•										
Hu	Mark	Aptiv	•	•									•	•												
Huh	Woojung	Microchip Technology, Inc.	•	•	•	•	•		•	•	•		•	•	•	•	•	•	•	•		•	•	•	•	•
Itaya	Satoko	National Institute of Information and Communications Technology (NICT)	•	•	•	•	•	•	•	•	•		•	•	•	•	•	•	•	•		•	•			
Ito	Yoshihiro	Nagoya Institute of Technology	•	•	•	•	•	•	•	•	•		•	•	•	•	•	•		•		•	•			
Jabbar	Abdul	General Electric Company (GE)					•	•			•	•		•				•	•							

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Kauer	Florian	Linutronix GmbH				•																				
Kehrer	Stephan	Hirschmann Automation and Control, Inc.	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•				•	•	•	•
Kiessling	Marcel	Beckhoff Automation	•	•	•	•	•		•	•		•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Kivinen	Tero	Self Employed										•														
Kobayashi	Takumi	Yokohama National University										•														
Lai	Gavin	Moxa Inc.	•	•	•	•	•	•	•	•		•	•	•	•						•	•	•	•	•	•
Levy	Joseph	InterDigital, Inc.				•	•					•	•													
Li	Jieyu	China Mobile																				•				
Liu	Peng	Huawei Technologies Co., Ltd	•	•				•		•																
Luo	Xiliang	Apple, Inc.										•														
Lyu	Yunping(Lily)	Huawei Technologies Co., Ltd	•	•				•	•	•				•	•	•	•			•			•	•		
Maile	Lisa	Technische Universitat Braunschweig										•														
Mangin	Christophe	Mitsubishi Electric Corporation	•	•	•	•	•	•	•	•			•	•	•	•	•	•	•				•	•	•	•
Mansfield	Scott	Telefon AB LM Ericsson	•	•	•	•	•	•	•	•			•	•	•	•	•	•	•	•	•	•	•	•	•	•
Marks	Roger	EthAirNet Associates			•	•	•						•	•	•						•		•		•	
Mater	Olaf	Marvell Semiconductor, Inc.	•	•	•	•	•	•	•	•			•	•	•	•	•	•	•	•	•	•	•	•	•	•
McCall	David	Intel	•	•		•	•			•				•		•				•	•	•	•	•		•
McIntosh	James	Microchip Technology, Inc.			•			•	•						•	•										
Minter	Jenaye	NSA													•	•										
Mittelberger	Martin	Siemens AG	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Nakano	Hiroki	CAHI Corporation;Kyoto University;National Institute of Information and Communications Technology (NICT)	•	•	•	•	•		•	•	•	•	•	•	•	•						•	•	•	•	•
Niess	Adriaan	Robert Bosch GmbH	•		•	•	•		•	•			•	•		•	•	•	•	•	•		•	•		
Nomura	Takumi	Honda R&D	•	•	•	•	•	•	•	•	•		•	•	•	•	•	•	•	•	•	•	•	•	•	•
Noseworthy	Bob	University of New Hampshire InterOperability Laboratory (UNH-IOL)	•	•	•	•	•	•	•	•			•	•	•	•	•	•	•	•				•	•	•
O'Leary	John	Microchip*	•																							
Ott	Greg	USG													•	•						•				
Pannell	Donald	NXP Semiconductors	•	•	•	•	•						•	•	•	•					•		•		•	
Parkholm	Ulf	Ericsson AB									•			•	•							•	•			
Parsons	Glenn	Ericsson AB			•	•	•	•	•	•	•	•												•	•	
Pearn	Richie	NXP Semiconductors			•	•	•	•	•	•	•	•														
Peterson	Eric	Blue Origin			•	•	•	•	•	•	•		•	•	•	•	•	•	•	•	•	•	•	•	•	•

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Randall	Karen	INDEPENDENT;Tallac Networks, Inc;Tallac/Self		•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•				•		
Regev	Alon	Keysight Technologies	•		•	•	•		•	•	•			•	•	•	•	•	•					•	•	•
Riegel	Maximilian	Self*																				•		•		
Robert	Joerg	Technische Universitaet Ilmenau											•													
Rodrigues	Silvana	Huawei Technologies Co., Ltd	•	•	•	•	•		•	•				•	•	•	•	•	•	•	•	•	•	•	•	•
Rouyer	Jessy	Nokia	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Roy	Rajeev	NXP Semiconductors	•	•	•	•	•	•	•	•				•	•									•	•	•
Ruibo	Han	China Mobile*	•	•	•	•	•	•	•	•	•			•	•	•	•	•	•	•				•	•	•
Sand	Stephan	*											•													
Sayrafian	Kamran	National Institute of Standards and Technology											•													
Seaman	Michael	Individual		•					•		•				•	•						•		•	•	•
Seewald	Maik	Cisco Systems, Inc.	•	•	•	•	•	•	•	•				•	•	•	•	•	•	•	•	•	•	•	•	•
Sivakolundu	Ramesh	Cisco Systems, Inc.	•	•	•	•	•	•	•	•				•	•	•	•	•	•				•	•	•	•
Specht	Johannes	Self; Analog Devices, Inc.;Mitsubishi Electric Corporation; PROFIBUS Nutzerorganisation e.V.; Siemens AG;Texas Instruments, Inc.	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
St-Denis	Bernie	NXP Semiconductors	•						•					•										•	•	•
Sumi	Takenori	Mitsubishi Electric Corporation											•													
Suzuki	Takafumi	National Institute of Information and Communications Technology (NICT)											•													
Thompson	Geoffrey	GraCaSI S.A.										•	•													
traore	karim	Microchip/Microsemi Corporation			•	•	•	•	•	•	•			•	•	•	•								•	•
Tse	Richard	Microchip Technology, Inc.	•	•	•	•	•	•	•	•				•	•	•	•				•	•	•		•	
Turner	Max	Ethernovia	•	•	•	•	•	•	•	•				•	•	•	•	•	•	•					•	•
Venkatesan	Ganesh	Intel		•	•	•	•	•	•	•				•	•	•	•	•	•	•	•	•	•			
Videv	Stefan	Kyocera SLD Laser	•	•																						
Wang	Jing	China Mobile Limited	•	•	•		•		•		•			•	•	•	•	•	•	•						•
wang	ruixue	Chinamobile																					•			
Wang	Tongtong	Huawei Technologies Co., Ltd	•	•		•		•	•	•				•								•		•	•	•
Wei	Yuehua	ZTE Corporation	•	•	•	•	•	•	•	•				•	•	•	•	•	•					•	•	•
Wessels	Leon	Uman Technologies ZA	•	•	•	•	•		•					•	•	•	•					•	•	•		
Whisnant	Michelle	UNH-IOL						•	•	•																

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Yamaura	Takahiro	TOSHIBA Corporation	•	•	•	•	•	•	•	•			•	•	•	•	•	•		•	•	•	•	•	•	•
Ye	Zhenzhen	Red Point Positioning*										•														
Yu	Zhongxing	Calterah*			•	•																				
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.

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 Jul 15, 2024 at 10:30 ET by the Chair who presided. The Recording Secretary wrote the minutes.

The Chair presented "Opening Plenary July 2024" finalized as
http://www.ieee802.org/1/files/public/minutes/2024-07-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:
  - o 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;
  - o 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:
  - o Participant behavior in IEEE-SA activities is guided by the IEEE Codes of Ethics & Conduct;
  - o Participants in the IEEE-SA "individual process" shall act independently of others, including employers; and
  - o 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:
  - o 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;
  - o After any recess, announce that the meeting remains subject to the policies as read and displayed in the opening plenary meeting; and
  - o 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 fee waivers may be granted in advance, exceptionally. Such waiver applies to SAE participants in Nashville, TN, USA for this session.
- Shared information about the session venue (slide 24) and about food and social logistics (slide 25).
- Provided general information regarding meeting contributions, minutes, schedule for all Working Groups, website (slide 26).
- Introduced 802.1 officers and leadership (slide 27) noting the appointment of Nader Zein as IEEE P802.1DP/SAE AS6675 joint project Secretary.
- Reviewed the list of editors for current projects (slide 28) thanking them for all their efforts in progressing the work, and calling for a volunteer to succeed in the role of P802.1Qdw editor, currently vacant.
- 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).
- 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).
- Had the Executive Secretary introduce information about:
  - The Sep 16-20, 2024 interim session (slide 41).
    - The Executive Secretary and Hubert Lambers co-presented "Proposal to Host IEEE 802.1 Sept 2024 Interim Session" https://www.ieee802.org/1/files/public/docs2024/admin-lambers-Sept24-interim-update-0324-v04.pdf.
      Discussion: It was observed that the 8 Sep, 2024 registration deadline is unusually close in time to the session. Reservation specifics were discussed. A joint social event is schedule to take place with 802.3.
      Disposition: For information.
  - The Jan 13-17, 2025 interim session (slide 42).
    - Karen Randall presented "IEEE 802.1 Interim Meeting Proposal" https://www.ieee802.org/1/files/public/docs2024/admin-randall-Jan25-interim-proposal-0724-v01.pdf.
      Discussion: Airport locations were discussed.
      Disposition: For information.
    - Possibilities for collocation with 802.3 and 802.11 were discussed.
  - The May 19-23, 2025 interim session (slide 43).
    - 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-0724-v01.pdf.
      Discussion: The minimum meeting room occupancies as a condition for the potential host to be able to sign a contract were discussed.
      Disposition: For information.
  - The Sep 2025 interim session (slide 44).
    - Currently no host
    - Possibilities for collocation with 802.3 and 802.11 were discussed.
- Had the Executive Secretary provide an overview of the schedule for future interim sessions (slide 45):
  - September 2024
    - Hosted by Airbus as in-person session with provisions to support mixed mode
      - Date: September 16-20, 2024
      - Location: Hamburg, Germany
  - January 2025
    - Randall Consulting offer to host
      - Date: Jan 13-16, 2025
      - Location: Asheville, NC, USA
  - 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
    - Possibilities for collocation with 802.3 and 802.11 were discussed.

- Provided an overview of the schedule for future plenary sessions (slide 46):
    - November 10-15, 2024 – Vancouver, BC, Canada
        - Hyatt Regency Vancouver
    - 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
- Conducted the following straw polls (slide 47):
    1. Are you planning on eating on Friday?
        - Breakfast   27
        - Morning Break   25
        - Lunch   22
    2. For January 2025 interim, if the meeting is held in Asheville, NC, do you plan to attend?
        - Will attend in person   20
        - Will attend remotely   10
        - Will not attend   4
        - Do not know yet   10
        - 60 in the room
    3. For May 2025 interim, if the meeting is held in Rennes, FR, do you plan to attend?
        - Will attend in person   16
        - Will attend remotely   8
        - Will not attend   3
        - Do not know yet   12
        - 60 in the room
- Previewed the straw polls regarding this plenary session to be conducted during the 802.1 closing plenary meeting (slide 48):
    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 49).
- Reported the following items out of the 802 Executive Committee (EC) plenary session #136 (slide 50):
    - Fee Waivers granted
    - 802 history (Wed 12:30pm)

- o 802 rules update (Tues 7:30pm) ([EC-24-154](#))
  - Reiterate that attendance in-person required to gain voting rights
  - Make penalties for non-meeting fee payment stronger
  - Update rules based on new baseline
- o Venues ([EC-24-124](#))
  - July 2024 – 975 attendees – with less than half in-person
  - Finalizing contracts for venues into 2027
  - Likely to return to Montreal because of low in-person attendance
- o Treasurer ([EC-24-164](#))
  - Spending limited to "similar costs of IEEE standards development meetings."
  - Tax remittance is now tracked
  - Reserves level review this week (currently at $1.7M)
- Introduced the July 13, 2024 IEEE 802 / ITU-T SG15 workshop (slides 51-52) thanking Jessy Rouyer and Tom Huber for organizing the event and recognizing János Farkas and Scott Mansfield for moderating two of the four sessions.
- Introduced IEEE SA staff supporting IEEE 802 (slide 53):
  - o Jodi Haasz
    - IEEE 802 lead, supports dot01, dot03 and dot18 groups
    - Operational Program Management Senior Manager
  - o Christy Bahn
    - supports dot11, dot15, dot19 and, dot24 groups
    - Operational Program Management Senior Program Manager
  - o Ian Barbour
    - 802 editorial support
    - Content Editor, Content Production and Management
  - o Catherine Berger
    - 802 editorial support
    - Senior Program & Special Project Manager
- Pointed to instructions to access IEEE 802 electronic media (slide 54) with indication made that the included IEEE Std 802.1Q still is not searchable.
- Provided IEEE 802 program status pointers (slide 55), mentioning the following notable items (slide 56):
  - o May / June 2024 publication
    - 802.1Qdj-2024 & 802.1Qdx-2024
  - o Expiring PARs – Dec 2024
    - P802.1ASdm, P802.1ASdn, P802.1DC, P802.1DP, P802.1CQ
  - o Expiring standards
    - 2024 – 802
    - 2026 – 802.1AB, 802.1AC
    - 2027 – 802.1CB
  - o myProject and DVL updates
- Provided information about public review (slide 57).
- Pointed out 802.1 PARs, PAR extension, and CSDs (slide 58) as well as 802.11, 802.15, and 802.16 PARs, PAR revision, PAR extensions, and CSDs (slide 59) that are up for vote or finalization during this IEEE 802 plenary session.
- Noted no tutorials are scheduled at this plenary session (slide 60).

- Presented liaison resources (slide 61), and had the Liaison Secretary present the set of incoming liaisons to be handled by specific subgroups (slide 62) as well as the status of outgoing liaisons, either sent since the previous plenary session or to be completed (slide 63).
    - LS15 and LS156 were briefly discussed ahead of 16:00 ET discussion in the TSN TG.
- Had János Farkas summarize IETF coordination items 25, 27, 35, and had Scott Mansfield summarize IETF coordination item 33 (slide 64).
- Provided information about JTC1/SC6 coordination (slide 65), ITU coordination (slide 66) 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 67).
- Discussed promotion of the work of the WG (slide 68).
    - The value of the TSN automotive flyer was discussed.
    - It was agreed (informally, none dissenting) to have "The YANG blog post – TSN, EtherType & New CBS, MSTP & LAG" reviewed by the WG during this session and the output submitted on the consent agenda of the LMSC closing plenary meeting at this session.
    - Janos Farkas provided a verbal update on "TSN/A – Oct 1-2, 2024".
- Discussed 802.1 public visibility messaging (slide 69).
- Reminded nominations are welcome for the various types of IEEE awards (slide 70) highlighting the various deadlines and encouraging nominations, also indicating that Paul Nikolich is a recipient of the IEEE Charles Proteus Steinmetz award.
- Noted WG Chair Awards would be upcoming (slides 71 and 72).
- Provided the anticipation of next actions with respect to the projects in the WG's current workload (slide 73).
- Reviewed the timeline for 802.1Q (slide 74) and 802.1AS (slide 75) revisions and amendments.
- Showed the 802.1 schedule for this plenary session, which was tacitly approved (slide 76).
- Listed 802.1 leadership and editors' meetings (slide 77).
- 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 78).
- Corrected the information provided on slide 36, acknowledging Rajeev Roy as a potential new voting member.
- Requested that subgroup agendas be presented (slide 79):
    - The Maintenance TG Chair presented the Maintenance TG agenda on slide 80.
    - The Security TG Chair presented the agenda on slide 81.
    - The TSN TG Chair presented the agenda on slide 82.
    - The Nendica Chair presented the Nendica report on slides 83-85.
    - The YANGsters Chair presented the agenda (slide 86), a list of ongoing YANG projects (slide 87), and a list of nearly published and published YANG work (slide 88).
- Called for Any Other Business (slide 89).
    - No other business was discussed in this meeting.

12:53 ET 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 pages 7 and 8 of "802.15 WG & CAC & Joint 1/15 Minutes July 2024" https://mentor.ieee.org/802.15/dcn/24/15-24-0425-00-0000-802-15-wg-cac-joint-1-15-minutes-july-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 P802-REVc meeting held 2024-06-04 12:00 - 13:00 ET https://listserv.ieee.org/cgi-bin/wa?A2=STDS-802-1-MINUTES;1aa4332c.24&S=
- Minutes of the Maintenance TG meeting held 2024-07-11 08:00 - 10:00 ET https://listserv.ieee.org/cgi-bin/wa?A2=STDS-802-1-MINUTES;b8680a25.24&S=

See section 1 for attendance and affiliation information.

Call to order Jul 15, 2024 at 13:30 ET 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 announced that the meeting is subject to these Policies as read and displayed at the opening plenary meeting, and showed the Patent Policy slides.
   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://1.ieee802.org/july-2024-plenary-session-maintenance-tg-p802-revc-comment-resolution/ .
   Disposition: The agenda was reviewed, discussed, and agreed (informally, none dissenting) as presented.
3. P802-REVc D2.0 comment resolution. James Gilb, P802-REVc Editor, led the resolution of comments received on https://www.ieee802.org/1/files/private/802-REVc-drafts/d2/P802-REVc-d2.pdf.
   Disposition: Ballot comments 69, 68, 67, 66, 65, 64, 63, 56, 57, 58, 59, 60, 61, 62, 55, 54, 52, 51, 50, 49, 48, 47, 46, 45, 44, 35, 40 were resolved. Ballot comments 42, 43, 39 were discussed, further discussion needed.

4. Any Other Business. No other business was discussed by the Maintenance TG in this meeting.

15:30 ET recess

Call to order Jul 16, 2024 at 8:00 ET 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.

5. Meeting introduction and other administrative items. The Chair announced that the 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 minute taker.
6. Approval of agenda. The Chair presented the agenda in https://1.ieee802.org/july-2024-plenary-session-maintenance-tg-agenda/ .
    Disposition: The agenda was reviewed, discussed, and agreed (informally, none dissenting) as presented.
7. Maintenance Project Status. The Chair gave a verbal update on P802-REVc and P802.1AS-2020-Revision. Mick Seaman, P802.1Q editor, gave a verbal update on P802.1Q-2022-Revision. Christophe Mangin, P802.1CB-2017-Cor1 editor, presented "802.1CB-2017/Cor1 Editor's update" https://ieee802.org/1/files/public/docs2024/maint-mangin-CB-Cor1-0724-v01.pdf. Marco Hernandez, P802.1ACea editor, gave a verbal update on P802.1ACea.
    Disposition: For Information.
8. Comment review on 802 PARs under consideration. There were no 802.1 comments on the PARs for: P802.11-2024, P802.11bf, P802.16t, P802.15.4ae, and P802.15.9a. The Chair led the review of "Comments on IEEE P802.15.4ae CSD From IEEE 802.1" https://www.ieee802.org/1/files/public/docs2024/admin-CSD-comments-802154ae-0724-v02.pdf and "Comments on IEEE P802.15.9a CSD From IEEE 802.1" https://www.ieee802.org/1/files/public/docs2024/admin-CSD-comments-802159a-0724-v02.pdf.
    Disposition: For information.
9. Liaison Report. Karen Randall, IEEE 802.1 Liaison Secretary, gave a verbal update on outgoing liaisons. New liaisons have been received from ITU-T JCA, ITU-T SG15 and ITU-T SG6. Proposed responses, finalized as https://www.ieee802.org/1/files/public/docs2024/liaison-randall-SC6CommentResponse8021Q-0724.pdf and https://www.ieee802.org/1/files/public/docs2024/liaison-randall-SC6CommentResponse802f-0724.pdf were reviewed.
    Disposition: For information.
10. The Chair led the review of Maintenance TG motions for the 802.1 closing plenary meeting.
    Disposition: For information.
11. The review of outstanding maintenance items was deferred.
    Disposition: For information.
12. Any Other Business. No other business was discussed by the Maintenance TG in this meeting.

10:08 ET recess

Call to order Jul 17, 2024 at 8:00 ET 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.

13. Meeting introduction and other administrative items. The Chair announced that the 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 minute taker.
14. Approval of agenda. The Chair presented the agenda in https://1.ieee802.org/july-2024-plenary-session-maintenance-tg-agenda/.
    Disposition: The agenda was reviewed, discussed, and agreed (informally, none dissenting) as presented.
15. P802-REVc D2.0 comment resolution. James Gilb, P802-REVc Editor, led the resolution of comments received on https://www.ieee802.org/1/files/private/802-REVc-drafts/d2/P802-REVc-d2.pdf.
    Disposition: Ballot comments 74, 73, 71, 30, 22, 20, 12, 11, 5, 41, 13, 18, 53, 24, 6, 25, 21, 23, 72, 2, 7, 26, 27, 28, 29 were resolved. Ballot comments 72, 70, 39, 1, 17, 15, 14, 19, 3, 16 were discussed, further discussion needed.
16. Next Sessions. The Maintenance TG intends to meet next electronically on Jul 30, 2024 10:00 - 12:00 ET, Aug 13, 2024 10:00 - 12:00 ET, and Aug 20, 2024 10:00 - 12:00 ET.
17. Any Other Business. No other business was discussed by the Maintenance TG in this meeting.

9:59 ET adjournment

6 Security Task Group

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

- Minutes of the Security TG meeting held 2024-06-18 10:12 - 12:07 ET https://listserv.ieee.org/cgi-bin/wa?A2=STDS-802-1-MINUTES;38203904.24&S=

See section 1 for attendance and affiliation information.

Call to order July 17, 2024 at 10:33 ET 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/july-2024-plenary-session-security-tg-agenda/.
   Disposition: The agenda was reviewed, discussed and updated as recorded by these
   minutes. The liaison from IEC TC57/WG15
   https://www.ieee802.org/1/files/public/docs2024/liaision-IECTC57WG15-security-jul24.pdf
   would not be discussed, as the intended presenter was unable to attend.
3. P802.1Qdt Priority-based Flow Control Enhancements. Lily Lyu, P802.1Qdt Editor,
   presented updated P802.1Qdt draft 0.4 https://www.ieee802.org/1/files/private/dt-
   drafts/d0/802-1Qdt-d0-4.pdf.
   Discussion:
   - Main changes from P802.1Qdt draft 0.3 https://www.ieee802.org/1/files/private/dt-
     drafts/d0/802-1Qdt-d0-3.pdf, reviewed in the Jun 18, 2024 electronic meeting, are
     to PFC management.
   - Need for a high-level view, focused more on protocol not just encoding as for the
     DCBX/LLDP TLVs.
   - The name of the "Willing bit" can be confusing. It is really a "want bit" as in "I want
     to change my configuration to be aligned with yours".
   - The intent of PFC configuration needs to be clear. Sending PFCs and acting on
     their receipt are really separate functions. The configuration of a given link is not
     necessarily symmetric, though DCBX does not separate sending and receiving
     capability.
   - Need to be clear when DCBX and other operations can occur. PFC configuration
     needs to be organized prior to sending PFCs, otherwise a storm of PFCs not acted
     upon could be sent. Headroom measurement can occur at any time, and can
     reoccur as the link characteristics change.
   - Variables for PFC operational control should move from Clause 12 to 36.11.2, to
     maintain alignment between the use of those variables and the remainder of the
     operational specification. In particular, variables that relate to headroom
     measurement need to be aligned, although there is no point in providing
     management access to temporary/transient state machine conditions.
   - Information that the manager can use to monitor PFC use e.g. counts of PFCs
     transmitted and success of that use (e.g. counts of dropped frames that should
     have been prevented by PFC use) should be added or (preferably) referenced
     where existing information can meet that need.
   - There is a lot of content to ballot. Plan to task group ballot closer to the Sep 2024
     802.1 interim session. Want management part more or less complete before ballot.
   Disposition: Discussion to be continued.
4. Any Other Business
   4.1 MACsec protection for 802.1CM Fronthaul. Ulf Parkholm presented "Time-Sensitive
   Networking for Fronthaul, 802.1CM"
   https://www.ieee802.org/1/files/public/docs2024/cm-parkholm-security-0724-v1.pdf.
   Discussion:
   - What technologies are being used for fronthaul? Primarily a Layer 2 Ethernet
     switched network.
   - A good vehicle for getting to grips with applying MACsec in vertical applications
     with tight timing and jitter requirements. Will require constant delay MACsec
     implementations.
   - Proposal is based on satisfactory experience with currently commercially
     available implementations.
   Disposition: The suggestion was well received (none dissenting) and should be
   further progressed in the TSN Task Group.

4.2 TC17 (automotive) observations on MACsec specification. James McIntosh mentioned discussion of the specification of Confidentiality Offset and (separately) MKA Support for XPN.
Disposition: Maintenance requests to be raised to state the issue and record dispositions.

5. Review potential Security TG Motions/Liaisons for Closing Plenary.
Disposition: None required, apart from addition to the general list of permissions to hold electronic meetings prior to the next plenary session (with 10 days notice to the 802.1 minutes email list, as usual).

6. Future meetings/teleconferences. The Security TG will meet during the Sep 2024 802.1 interim session in Hamburg, Germany. Additional electronic meetings may be scheduled subject to the usual notice requirements.

12:14 ET 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 2024-06-03, 11:05 – 12:00 ET
  https://listserv.ieee.org/cgi-bin/wa?A2=STDS-802-1-MINUTES;970a6e36.24&S=
- Minutes of the TSN TG meeting held 2024-06-10, 11:00 – 13:00 ET
  https://listserv.ieee.org/cgi-bin/wa?A2=STDS-802-1-MINUTES;1a300126.24&S=
- Minutes of the TSN TG meeting held 2024-06-17, 11:00 – 13:11 ET
  https://listserv.ieee.org/cgi-bin/wa?A2=STDS-802-1-MINUTES;fc4438c2.24&S=
- Minutes of the TSN TG meeting held 2024-06-24, 11:00 – 13:00 ET
  https://listserv.ieee.org/cgi-bin/wa?A2=STDS-802-1-MINUTES;145063b6.24&S=
- Minutes of the TSN TG meeting held 2024-07-01, 11:00 – 12:05 ET
  https://listserv.ieee.org/cgi-bin/wa?A2=STDS-802-1-MINUTES;72f4840c.24&S=
- Minutes of the TSN TG meeting held 2024-07-08, 11:00 – 13:00 ET
  https://listserv.ieee.org/cgi-bin/wa?A2=STDS-802-1-MINUTES;2b35451c.24&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 2024-05-28 9:00 - 10:00 ET
  https://listserv.ieee.org/cgi-bin/wa?A2=STDS-802-1-MINUTES;162dacbd.24&S=
- Minutes of the IEEE P802.1DG meeting held 2024-06-25 9:00 - 10:00 ET
  https://listserv.ieee.org/cgi-bin/wa?A2=STDS-802-1-MINUTES;7d77a97.24&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 Jul 15, 2024 8:00 ET 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 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-0721-v01.pdf.

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

   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/2024-07-plenary-tsn-agenda/.
   Disposition: The agenda was reviewed, and updated as recorded by these minutes.

3. Johannes Specht provided a status update on P802.1ASdn.
   Disposition: Status update discussed.

4. János Farkas provided a status update on P802.1ASdm.
   Disposition: Status update discussed.

5. Silvana Rodrigues, P802.1ASds editor, led the resolution of comments received on https://www.ieee802.org/1/files/private/asds-drafts/d0/802-1ASds-d0-5.pdf.
   Disposition: Final disposition: https://www.ieee802.org/1/files/private/asds-drafts/d0/802-1ASds-d0-5-dis-v00.pdf.

6. Max Turner, P802.1DG editor, led the resolution of comments received on https://www.ieee802.org/1/files/private/dg-drafts/d3/802-1DG-d3-2.pdf.
   Disposition: Final disposition: https://www.ieee802.org/1/files/private/dg-drafts/d3/802-1DG-d3-2-dis-v01.pdf.

9:26 ET recess

Call to order Jul 15, 2024 13:30 ET by János Farkas, IEEE 802.1 TSN TG Chair (Chair), who presided. Johannes Specht, IEEE 802.1 TSN TG Secretary (Secretary), wrote the minutes.

7. 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.

8. Martin Mittelberger, P802.1Qdy editor, led the resolution of comments received on https://www.ieee802.org/1/files/private/dy-drafts/d2/802-1Qdy-d2-0.pdf.
   Disposition: Disposition per agenda item 22.

15:30 – 16:00 ET recess

9. The Chair presented incoming liaison and communication:
   - ITU-T SG13-LS156 LS on work items related to deterministic networking https://www.ieee802.org/1/files/public/docs2024/liaison-itu-t-SG13-LS156-DetermNetwrking-apr24.pdf
   - LS144 from ITU-T SG15: LS on Consented Recommendations https://www.ieee802.org/1/files/public/docs2024/liaison-itu-t-SG15-LS144-ConsentedRecs-0724.pdf

- LS143 from ITU-T SG15: LS on IM/DM modelling coordination
  https://www.ieee802.org/1/files/public/docs2024/liaison-itu-t-SG15-LS143-IMDM-ModellingCoord-0724.pdf
- LNI 4.0 LS on access to 802.1 drafts
  https://www.ieee802.org/1/files/public/docs2024/liaison-LNI40-access-to-drafts-0525.pdf

Marina Gutiérrez presented Avnu LS on RAP/MSRP backwards compatibility requirements in the P802.DD PAR https://www.ieee802.org/1/files/public/docs2024/liaison-RAP-MSRP-backwards-compatibility-AvnuAlliance-0724.pdf

Disposition: Presentations discussed. Further discussion needed.

10. The Chair presented draft TG motions.
    Disposition: Draft TG motions reviewed.
11. Martin Mittelberger, P802.1Qdy editor, continued the resolution of comments received on https://www.ieee802.org/1/files/private/dy-drafts/d2/802-1Qdy-d2-0.pdf.
    Disposition: Disposition per agenda item 22.

17:46 ET recess

Call to order Jul 16, 2024 10:30 ET by János Farkas, IEEE 802.1 TSN TG Chair (Chair), who presided. Johannes Specht, IEEE 802.1 TSN TG Secretary (Secretary), wrote the minutes.

12. 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.
13. Lisa Maile presented "Informative Annex Project Proposal for IEEE Std 802.1CB Sequence Recovery Function Parameter Configuration" https://www.ieee802.org/1/files/public/docs2024/new-maile-FRER-sequence-recovery-configuration-0624-v02.pdf.
    Disposition: Presentation discussed. Further discussion needed.
14. János Farkas, standing for the P802.1DC editor, led the resolution of comments received on https://www.ieee802.org/1/files/private/dc-drafts/d3/802-1DC-d3-3.pdf.
    Disposition: Final disposition: https://www.ieee802.org/1/files/private/dc-drafts/d3/802-1DC-d3-3-dis-v03.pdf.
15. Johannes Specht, P802.1ASdn editor, led the resolution of comments received on https://www.ieee802.org/1/files/private/asdn-drafts/d2/802-1ASdm-d2-0.pdf and presented "YANG Type Pattern Proposals for P802.1ASdn/D2.2" https://www.ieee802.org/1/files/public/docs2024/dn-specht-type-pattern-proposals-0724-v01.pdf.
    Disposition: Final disposition: https://www.ieee802.org/1/files/private/asdn-drafts/d2/802-1ASdn-d2-2-dis-v01.pdf.

12:30 ET recess

Call to order Jul 17, 2024 8:00 ET 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. Marina Gutiérrez presented "RAP Backwards Compatibility" https://www.ieee802.org/1/files/public/docs2024/dd-gutierrez-et-al-backwards-compatibility-0724-v02.pdf.
    Disposition: Presentation discussed.

18. Feng Chen led the resolution of comments https://www.ieee802.org/1/files/public/docs2024/dd-PAR-CSD-comments-responses-0724-v01.pdf received on the draft PAR https://www.ieee802.org/1/files/public/docs2024/dd-draft-PAR-0524-v01.pdf and CSD https://www.ieee802.org/1/files/public/docs2024/dd-draft-CSD-0524-v01.pdf for P802.1DD.
    Disposition:
    - Updated PAR: https://www.ieee802.org/1/files/public/docs2024/dd-PAR-0724-v01.pdf
    - Updated CSD: https://www.ieee802.org/1/files/public/docs2024/dd-CSD-0724-v01.pdf

19. The Chair led the resolution of comments https://www.ieee802.org/1/files/public/docs2024/ed-PAR-CSD-comments-responses-0724-v01.pdf received on the draft PAR https://www.ieee802.org/1/files/public/docs2024/ed-draft-PAR-0524-v01.pdf and CSD https://www.ieee802.org/1/files/public/docs2024/ed-draft-CSD-0524-v01.pdf for P802.1ASed.
    Disposition:
    - Updated PAR: https://www.ieee802.org/1/files/public/docs2024/ed-PAR-0724-v01.pdf
    - Updated CSD: https://www.ieee802.org/1/files/public/docs2024/ed-CSD-0724-v01.pdf

20. The Chair led the resolution of comments https://www.ieee802.org/1/files/public/docs2024/dp-PAR-extension-comments-responses-0724-v01.pdf received on the draft PAR extension https://www.ieee802.org/1/files/public/docs2024/dp-draft-PAR-extension-0524-v01.pdf for P802.1ASed.
    Disposition:
    - Updated PAR extension: https://www.ieee802.org/1/files/public/docs2024/dp-PAR-extension-0724-v01.pdf

21. The Chair discussed outgoing liaisons:
    - Liaison response finalized as https://www.ieee802.org/1/files/public/docs2024/liaison-response-RAP-MSRP-backwards-compatibility-AvnuAlliance-0724-v01.pdf to RAP/MSRP backwards compatibility requirements in the P802.1DD PAR https://www.ieee802.org/1/files/public/docs2024/liaison-RAP-MSRP-backwards-compatibility-AvnuAlliance-0724.pdf
    - Liaison response finalized as https://www.ieee802.org/1/files/public/docs2024/liaison-response-LNI40-access-to-drafts-0724-v01.pdf to LNI 4.0 Access to IEEE 802.1 Drafts https://www.ieee802.org/1/files/public/docs2024/liaison-LNI40-access-to-drafts-0525.pdf
    - Liaison response finalized as https://www.ieee802.org/1/files/public/docs2024/liaison-response-itu-t-SG13-LS156-DetermNetwrking-0724-v01.pdf to LS 156 on work items related to deterministic networking in SG13 https://www.ieee802.org/1/files/public/docs2024/liaison-itu-t-SG13-LS156-DetermNetwrking-apr24.pdf
    Disposition: Outgoing liaisons discussed.

12:13 – 13:34 ET recess

22. Martin Mittelberger, P802.1Qdy editor, continued the resolution of comments received on https://www.ieee802.org/1/files/private/dy-drafts/d2/802-1Qdy-d2-0.pdf.
    Disposition: Partial disposition: https://www.ieee802.org/1/files/private/dy-drafts/d2/802-1Qdy-d2-0-pdis-v04.pdf.

15:31 ET recess

Call to order Jul 18, 2024 8:00 ET by János Farkas, IEEE 802.1 TSN TG Chair (Chair), who presided. Johannes Specht, IEEE 802.1 TSN TG Secretary (Secretary), wrote the minutes.

23. 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.
24. Ganesh Venkatesan presented "Time Sync Performance Test Approach" https://www.ieee802.org/1/files/public/docs2024/new-Venkatesan-time-sync-related-performance-test-approach-0724-v01.pdf.
    Disposition: Presentation discussed. Further discussion needed.
25. Ulf Parkholm presented "802.1CM TSN for Fronthaul" https://www.ieee802.org/1/files/public/docs2024/cm-parkholm-security-0724-v1.pdf.
    Disposition: Presentation discussed. Further discussion needed.
26. Martin Mittelberger, P802.1Qdy editor, continued the resolution of comments received on https://www.ieee802.org/1/files/private/dy-drafts/d2/802-1Qdy-d2-0.pdf.
    Disposition: Partial disposition: https://www.ieee802.org/1/files/private/dy-drafts/d2/802-1Qdy-d2-0-pdis-v05.pdf.

10:00 – 10:30 ET recess.

27. Lihao Chen presented "P802.1Qdw Source Flow Control, Recap and Restart" https://www.ieee802.org/1/files/public/docs2024/dw-chen-recap-restart-0724-v01.pdf.
    Disposition: Presentation discussed. Further discussion needed.
28. The Chair presented the "TSN for Automotive" flyer.
    Disposition: For information.
29. Johannes Specht, P802.1DU editor, led the resolution of comments received on https://www.ieee802.org/1/files/private/du-drafts/d0/802-1-DU-d0-3.pdf.
    Disposition: Comments 6 – 8 resolved. Partial disposition: https://www.ieee802.org/1/files/private/du-drafts/d0/802-1DU-d0-3-pdis-v01.pdf.

12:15 ET recess

Call to order Jul 19, 2024 8:00 ET by János Farkas, IEEE 802.1 TSN TG Chair (Chair), who presided. Johannes Specht, IEEE 802.1 TSN TG Secretary (Secretary), wrote the minutes.

30. 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.
31. Lihao Chen presented "Generic TSN end-to-end guideline" https://www.ieee802.org/1/files/public/docs2024/new-chen-generic-tsn-e2e-guide-0724-v01.pdf.
    Disposition: Presentation discussed.
32. 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: Partial disposition: https://www.ieee802.org/1/files/private/dq-drafts/d1/802-1Qdq-d1-0-pdis-v01.pdf.

33. Johannes Specht, P802.1DU editor, continued the resolution of comments received on https://www.ieee802.org/1/files/private/du-drafts/d0/802-1-DU-d0-3.pdf.
Disposition: Comments 2, 3, 5, 16, 17 resolved. Partial disposition: https://www.ieee802.org/1/files/private/du-drafts/d0/802-1DU-d0-3-pdis-v02.pdf (uploaded post session).

12:15 ET 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 2024-06-17, 9:00 - 11:00 ET https://listserv.ieee.org/cgi-bin/wa?A2=STDS-802-1-MINUTES;f13e0c74.24&S=
- Minutes of the IEC/IEEE 60802 Joint Project meeting held 2024-07-08 9:00 - 11:00 ET https://listserv.ieee.org/cgi-bin/wa?A2=STDS-802-1-MINUTES;b202447e.24&S=

The IEC/IEEE 60802 Joint Project did not meet at this session.

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 2024-06-26 10:00 - 12:00 ET https://listserv.ieee.org/cgi-bin/wa?A2=STDS-802-1-MINUTES;8def2380.24&S=
- Minutes of the IEEE P802.1DP/SAE AS6675 meeting held 2024-07-03, 10:00 - 12:00 ET https://listserv.ieee.org/cgi-bin/wa?A2=STDS-802-1-MINUTES;303dcff8.24&S=

See section 1 for attendance and affiliation information.

Call to order Jul 16, 2024 at 13:30 ET 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 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.
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 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/2024-07-plenary-tsn-agenda/#TSN_8211_P8021DPAS6675.
   Disposition: The agenda was reviewed, discussed and updated as recorded by these minutes.

3. Richard Tse presented "FTTM Change Summary" https://www.ieee802.org/1/files/public/docs2024/ed-tse-FTTM-change-summary-0724-v01.pdf and "Individual Contirbution: Fault-Tolerant Timing with Time Integrity" https://www.ieee802.org/1/files/public/docs2024/ed-tse-draft-text-contribution-0724-v01.pdf.
   Discussion: Discussed open questions related to identifying the PTP instance that is connected to a specific input interface of the FTTM and that could be modelled in the YANG data model.
   Disposition: Agreed (informally, none dissenting) to propose the approval of TG balloting for P802.1Ased subject to approval of its PAR.

4. Abdul Jabbar, P802.1DP/SAE AS6675 editor, presented "IEEE P802.1DP Editor's Report Proposed Comment Resolution for D2.0 WG Ballot Version 4" https://www.ieee802.org/1/files/public/docs2024/DP-jabbar-d2-0-wg-ballot-editors-report-0724-v04.pdf.
   Disposition: For information.

5. 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-d2-0.pdf.
   Disposition: More discussion needed on comments 111 and 145. Comment 82 resolved. Final disposition provided post-session: https://www.ieee802.org/1/files/private/dp-drafts/d2/802-1DP-d2-0-dis-v01.pdf.

15:33 ET 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 2024-05-30 09:00-11:00 ET https://listserv.ieee.org/cgi-bin/wa?A2=STDS-802-1-MINUTES;bc01b3ee.24
- Minutes of the Nendica meeting held 2024-06-27 09:00-11:00 ET https://listserv.ieee.org/cgi-bin/wa?A2=STDS-802-1-MINUTES;84b38bac.24

See section 1 for attendance and affiliation information.

Call to order Jul 18, 2024 at 8:12 ET by Roger Marks, Nendica Chair ("Chair"), who presided and wrote the minutes, reviewed by Johannes Specht, Nendica Vice 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-2024-07-18/ 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 2024-06-27 09:00-11:00 ET" https://listserv.ieee.org/cgi-bin/wa?A2=STDS-802-1-MINUTES;84b38bac.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. IEEE SA support. Catherine Berger (IEEE SA Senior Program Manager, Document Development) discussed the IEEE SA White Paper platform https://standards.ieee.org/products-programs/standards-related/whitepaper/ and staff editorial support for publication of IEEE SA white papers. A template is provided for Industry Connections programs and it has been improved with respect to templates used in supporting earlier Nendica reports. Use of the template during draft development is optional. Emphasized was the importance of formal citations in a white paper. Staff is generally somewhat flexible about the need for permission letters for white papers citing brief text of prior publications, and staff would determine whether this flexibility could be documented with regard to the IEEE SA copyright policy.

5. Study Items. Lily Lyu led discussions regarding the AI Computing Networks (AICN) Study Item.
   - Lily Lyu and Jieyu Li presented "AICN Report Draft" (Rev 4) https://mentor.ieee.org/802.1/documents?is_year=2024&is_dcn=0028, with a focus on new material as highlighted. Discussion included suggestions that Nendica reporting should be based on citations of authoritative, reproducible original research and evidence; contributors can identify such material or contribute it directly. Further suggestions included adding definitions for specific terms used in the current draft (e.g., "flow" and "job").
     Disposition: Further discussion needed.
   - Yuehua Wei presented "Brief introduction of updates to 1-24-0031-00-ICne" https://mentor.ieee.org/802.1/documents?is_year=2024&is_dcn=0043, which highlighted changes make in revision 1 of "Availability challenges and requirements of AICN" https://mentor.ieee.org/802.1/documents?is_year=2024&is_dcn=0031. Discussion included suggestions that the benefits of Link Layer Retransmission should be quantified.
     Disposition: Further discussion needed.

- Haojie Wang presented "New Requirements and Challenges of Network Link Security" (Rev 2) https://mentor.ieee.org/802.1/documents?is_year=2024&is_dcn=0036. **Disposition:** Further discussion needed.
- Presentation of Lily Lyu's "AICN work item discussion" https://mentor.ieee.org/802.1/documents?is_year=2024&is_dcn=0038 was deferred due to lack of time.

6. Vetting and New Topics. No discussion.
7. Next Meeting. It was agreed (informally, none dissenting) to request authorization to meet electronically alternate Thursdays 9:00 - 11:00 ET, beginning July 25, 2024, with additional meetings as announced at least 10 days in advance. The agenda for the tentative meeting of July 25, 2024 was reviewed and revised accordingly, with the addition of the contribution "AICN work item discussion" as deferred earlier in the meeting.
8. Other Business.
   - The Chair presented "Draft Nendica ICCOM annual report 2024" https://mentor.ieee.org/802.1/documents?is_year=2024&is_dcn=0039 for presentation to ICCOM. **Disposition:** The report was reviewed and agreed (informally, none dissenting) as presented.
   - The Chair presented "Draft Nendica Session Review, July 2024" https://mentor.ieee.org/802.1/documents?is_year=2024&is_dcn=0040 for presentation to the 802.1 Working Group. **Disposition:** The report was reviewed and agreed (informally, none dissenting) as presented.

10:02 ET 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 2024-05-21 10:02 –11:00 ET https://listserv.ieee.org/cgi-bin/wa?A2=STDS-802-1-MINUTES;af63a8d.24&S=
- Minutes of the YANGsters meeting held 2024-06-04 10:00 –11:00 ET https://listserv.ieee.org/cgi-bin/wa?A2=STDS-802-1-MINUTES;a7405072.24&S=
- Minutes of the YANGsters meeting held 2024-06-18 10:01 –11:07 ET https://listserv.ieee.org/cgi-bin/wa?A2=STDS-802-1-MINUTES;d50bbb5e.24&S=
- Minutes of the YANGsters meeting held 2024-07-02 10:00 –10:29 ET https://listserv.ieee.org/cgi-bin/wa?A2=STDS-802-1-MINUTES;31cd45e9.24&S=

See section 1 for attendance and affiliation information.

Call to order Jul 16, 2024 at 16:00 ET by 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 Chair announced that the meeting is subject to these Policies as read and displayed at the opening plenary meeting.

The YANGsters 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/july-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-montreal-status-0724-v02.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. LS 144 on Consented Recommendations (ITU-T SG15). The YANGsters Chair presented the topic by showing "LS on Consented Recommendations" https://www.ieee802.org/1/files/public/docs2024/liaison-itu-t-SG15-LS144-ConsentedRecs-0724.pdf.
Disposition: For information.

6. LS 143 on IM/DM modelling coordination (ITU-T SG15). The YANGsters Chair presented the topic by showing "LS on IM/DM modelling coordination" https://www.ieee802.org/1/files/public/docs2024/liaison-itu-t-SG15-LS143-IMDM-ModellingCoord-0724.pdf.
Disposition: For information.

7. LS 135 on OTNT Standardization Work Plan Issue 34 (ITU-T SG15). The YANGsters Chair presented the topic by showing "LS on OTNT Standardization Work Plan Issue 34" https://www.ieee802.org/1/files/public/docs2024/liaison-itu-t-SG15-LS135-OTNTStdznWorkPlan34-0724.pdf
Disposition: For information.

8. Liaison Follow up on Management at Scale Projects (BBF). The YANGsters Chair presented the topic by showing "Follow up on Management at Scale Projects" https://www.ieee802.org/1/files/public/docs2024/liaison-BBF-FollowuponMgmtatScaleProjs-0724.docx.
Discussion:
   - An overview of the BBF response was provided.
   - Suggested text for a response to the liaison letter was discussed.
Disposition: Agreed (informally, none dissenting) to recommend to the IEEE 802.1 WG to send the suggested liaison response to the BBF.

9. IEEE 802.3 YANG Update. Ulf Parkholm presented "IEEE P802.3.1b/P802.3.2a Task Force Report" https://www.ieee802.org/3/minutes/jul24/802d3_task_force_802.3.1_802.3.2_opening.pdf. Detailed information on the progress can be found in the provided presentation.
Disposition: For information.

10. IETF YANG Status. The YANGsters Chair presented the topic and led the discussion.
Discussion:
   - There is currently an issue with the process to get IETF YANG modules into https://github.com/YangModels/yang that prevents new or modified YANG modules from being updated. The issue is currently being worked on.
   - Until the issue has been fixed, new and up-to-date YANG modules from IETF RFCs need to be pulled from the IETF data tracker.

Disposition: For information.

11. Request for Next Calls. Intersession YANGsters electronic meetings would be held every other week, starting Tuesday, Jul 30, 2024, tentative on 802.1 approval during the 802.1 closing plenary meeting.
12. Any Other Business.
    - A draft blog post on YANG was presented and discussed, pending 802.1 approval during the 802.1 closing plenary meeting.
    - The blog post is intended to be published by IEEE SA to highlight ongoing work in the area of YANG.

17:34 ET adjournment

10 Closing Plenary Meeting

Call to order Jul 18, 2024 at 13:30 MT by the Chair who presided. The Recording Secretary wrote the minutes.

See section 1 for attendance and affiliation information.

The Chair presented "Closing Plenary July 2024" finalized as https://www.ieee802.org/1/files/public/minutes/2024-07-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.
    o 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).
- Reminded participants of their obligation to declare affiliation(s) which includes employer(s) (slide 10).
- Announced that this closing plenary meeting remains subject to the IEEE Patent Policy (slides 11 to 16), IEEE SA Copyright Policies (slides 17 to 19) and IEEE SA Participation policies (slides 20 to 22) made available beforehand (as announced in the opening plenary meeting – see section 3) and noted related subgroup announcements (slide 23).
- Reminded participants of the various plenary session registration fees applying and attendant registration details (slide 24).
- Provided general information regarding meeting contributions, minutes, schedule for all Working Groups, website (slide 25).
- Showed the list of 802.1 officers and leadership (slide 26), noting the appointment of Nader Zein as IEEE P802.1DP/SAE AS6675 joint project Secretary.
- Recognized the editors of current projects (slide 27), noting that the role of P802.1Qdw editor is still vacant.
- Recognized IEEE SA Staff supporting IEEE 802.1 (slide 28) now and going forward.
- Reminded 802.1 participants and voting members of obligations regarding 802.1 voting

membership and how voting membership may be requested and retained (slide 29).
- 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 30).
- Reviewed the list of 802.1 voting members (slide 31), including information about individuals who gained (slide 32), may gain (slide 33), could lose (slide 34), or will lose (slide 35) 802.1 voting membership.
- Reminded individual participants of 802.11 reciprocal credit, which was continued at this session (slide 36).
- Asked the 802.1 Executive Secretary to summarize information about upcoming sessions, starting with the May 2024 (slide 37), Sep 2024 (slide 38), Jan 2025 (slide 39) and May 2025 (slides 40) interim sessions, and continuing with the schedule for future interim (slide 41) and plenary (slide 42) sessions, which remained unchanged from the opening plenary meeting.
  - In Jan 2025, 802.1 is welcome to join 802.3 that is tentatively planning to meet in St Petersburg, FL, USA (exact dates to be confirmed).
  - In Sep 2025, 802.1 may be able to join 802.11.
- Conducted the following straw polls (slide 43):
  - 1. Would you like to come back to this venue?
    - Yes   21
    - No   1
    - Did not respond   5
  - 2. Did you go to the social?
    - Yes   26
    - No   2
    - Did not respond   0
  - 3. Did you like the social?
    - Yes   23
    - No   1
    - Did not respond   2

    It was noted some lines were long.
- Provided the anticipation of next actions with respect to projects in the WG's current workload (slide 44).
- Showed the schedule of 802.1 meetings at this plenary session (slide 45).
- Requested that the subgroup Chairs provide reports on the activities of their subgroups during this plenary session (slide 46) (see individual subgroup minutes above for details):
  - The Maintenance TG Chair presented the report on slides 47-48.
  - The Security TG Chair presented the report on slide 49.
  - The TSN TG Chair presented the report on slide 50 thanking Norman Finn and Johannes Specht for their efforts pushing P802.1DC and P802.1ASdn, respectively, up to RevCom approval. A round of applause ensued.
  - The Nendica Chair presented the report on slide 51.
  - The YANGsters Chair presented the report on slides 52-61.
    - The Chair noted that it is the WG's intention that YANGsters work on the general workflow for editors to incorporate YANG code into draft standards.
  - Roger Marks, IEEE Registration Authority Committee (RAC) Chair, presented "What's up with the RAC?" https://mentor.ieee.org/802-ec/dcn/24/ec-24-0174-00-00EC-what-s-up-with-the-rac.pdf.
    Disposition: For information.
- Summarized the various types of IEEE Awards encouraging nominations (slide 62).

- Recognized P802.1ASdr and P802.1Qdj contributors (slide 56). Rounds of applause ensued.
- Presented Certificates of Appreciation to Geoff Garner, Craig Gunther, and Don Pannell for their contributions to the work in the WG, and asked if anyone had any objection to pictures of the recipients being taken. No objections were raised. The Chair indicated Certificates of Appreciation would also be presented electronically to Norman Finn and Karl Weber.
    - o 14:54 -14:56 ET recess, during which photographs were taken of the recipients and the Chair.
- Had the Liaison Secretary summarize liaison resources (slide 63), review the WG's liaison relationship (slide 64), summarize the set of new and previously-received (slide 65) incoming liaisons, and lead the final review of draft outgoing liaison statements (slide 66).
    - o The Liaison Secretary showed draft outgoing liaisons per the sequence of slide 61. Some of these drafts were discussed: agreed (informally, none dissenting) to not modify them.
- Introduced the promotion work of the WG (slide 67) and had the TSN TG Chair summarize progress on the TSN flyers that are being updated or created for finalization by staff after the end of this session for general availability by the Oct 1-2, 2024 TSN/A conference for which registration is opened.
- Pointed out the 802.1 PARs (slide 68) and other 802 PARs and CSDs (and attendant 802.1 comments, slide 69) that are up for approval during this IEEE 802 plenary session.
- Requested that the Maintenance TG Chair review comments received from other WGs on 802.1 comments submitted earlier in the session to determine if any of these WGs disagreed with these 802.1 comments.
- Provided guidance on using DirectVoteLive to vote on motions (slide 70).
- Following 15:40 – 16:00 ET recess, showed the 802.1 consent agenda items for the LMSC closing plenary meeting (slides 71-73).
- Conducted votes on the following motions (slides 74-137) that all passed unless indicated otherwise. (Supporting information is available in "Closing Plenary March 2024" finalized as https://www.ieee802.org/1/files/public/minutes/2024-03-closing-plenary-slides.pdf.)

Motions for 802 EC
Consent Agenda
PARs to NesCom

- o Motion
    - ▪ Approve forwarding P802.1DD PAR documentation in https://www.ieee802.org/1/files/public/docs2024/dd-PAR-0724-v01.pdf to NesCom
    - ▪ Approve CSD documentation in https://www.ieee802.org/1/files/public/docs2024/dd-CSD-0724-v01.pdf
    - ▪ In the WG, Proposed: Don Pannell, Second: Craig Gunther
        - o PAR (y/n/a): 32, 2, 4
        - o CSD (y/n/a): 30, 2, 5

- o Motion
    - Approve forwarding P802.1ASed PAR documentation in https://www.ieee802.org/1/files/public/docs2024/ed-PAR-0724-v01.pdf to NesCom
    - Approve CSD documentation in https://www.ieee802.org/1/files/public/docs2024/ed-CSD-0724-v01.pdf
    - In the WG, Proposed: Silvana Rodrigues, Second: János Farkas
        - o PAR (y/n/a): 35, 0, 4
        - o CSD (y/n/a): 34, 0, 5
- o Motion
    - Approve forwarding P802.1DP PAR extension documentation in https://www.ieee802.org/1/files/public/docs2024/dp-PAR-extension-0724-v01.pdf to NesCom
    - Approve (unmodified) CSD documentation in https://mentor.ieee.org/802-ec/dcn/21/ec-21-0096-00-ACSD-p802-1dp.pdf
    - In the WG, Proposed: Abdul Jabbar, Second: János Farkas
        - o PAR (y/n/a): 39, 0, 2
        - o CSD (y/n/a): 38, 0, 3
- o Motion
    - Approve forwarding P802.1AB-2016-Rev PAR documentation in https://www.ieee802.org/1/files/public/docs2024/ab-draft-PAR-0524-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
        - o Sending draft (y/n/a): 35, 0, 5
- o Motion
    - Approve forwarding P802.1AC-2016-Rev PAR documentation in https://www.ieee802.org/1/files/public/docs2024/ac-draft-PAR-0524-v03.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
        - o Sending draft (y/n/a): 37, 0, 3
- o Motion
    - Approve forwarding P802.1Qdd PAR withdrawal request to NesCom
    - Reason for the withdrawal:
        - o Other
    - Explanation for withdrawal:
        - o The project is being replaced by a project (IEEE P802.1DD) for a stand-alone standard instead of an amendment to IEEE Std 802.1Q.
    - In the WG, Proposed: Don Pannell, Second: Craig Gunther
        - o PAR (y/n/a): 37, 1, 2

Motions for 802 EC
Consent Agenda
Drafts to SA Ballot

- o Motion
    - ▪ Approve sending IEC/IEEE 60802 D3.0 to Standards Association ballot
    - ▪ Confirm the CSD for IEC/IEEE 60802 in https://mentor.ieee.org/802-ec/dcn/18/ec-18-0088-01-ACSD-p60802.pdf
    - ▪ IEC/IEEE 60802 D2.4 had 100% approval at the end of the last WG ballot
    - ▪ In the WG, Proposed: János Farkas, Second: Stephan Kehrer
        - o Sending draft (y/n/a): 36, 0, 2
        - o CSD (y/n/a): 37, 0, 2
- o Motion
    - ▪ Approve sending P802.1DG D4.0 to Standards Association ballot
    - ▪ Confirm the CSD for P802.1DG in https://mentor.ieee.org/802-ec/dcn/18/ec-18-0242-00-ACSD-p802-1dg.pdf
    - ▪ P802.1DG D3.2 had 97% approval at the end of the last WG ballot
    - ▪ In the WG, Proposed: János Farkas, Second: Max Turner
        - o Sending draft (y/n/a): 36, 1, 3
        - o CSD (y/n/a): 35, 1, 3

Motions for 802 EC
Consent Agenda
Drafts to RevCom

- o Motion
    - ▪ Conditionally approve sending P802.1DC to RevCom
    - ▪ Approve CSD documentation in https://mentor.ieee.org/802-ec/dcn/18/ec-18-0091-00-ACSD-802-1dc.pdf
    - ▪ P802.1DC D3.3 had 98% approval at the end of the last SA ballot
    - ▪ In the WG, Proposed: János Farkas, Second: Jessy Rouyer
        - o Sending draft (y/n/a): 36, 1, 3
        - o CSD (y/n/a): 33, 1, 6
- o Motion
    - ▪ Conditionally approve sending P802.1ASdm to RevCom
    - ▪ Approve CSD documentation in https://mentor.ieee.org/802-ec/dcn/20/ec-20-0093-01-ACSD-p802-1asdm.pdf
    - ▪ P802.1ASdm D2.4 had 95% approval at the end of the last SA ballot
    - ▪ In the WG, Proposed: János Farkas, Second: Silvana Rodrigues
        - o Sending draft (y/n/a): 35, 3, 2
        - o CSD (y/n/a): 35, 2, 3
- o Motion
    - ▪ Approve sending P802.1ASdn to RevCom
    - ▪ Approve CSD documentation in https://mentor.ieee.org/802-ec/dcn/20/ec-20-0202-00-ACSD-p802-1asdn.pdf
    - ▪ P802.1ASdn D2.2 had 94% approval at the end of the last SA ballot
    - ▪ In the WG, Proposed: János Farkas, Second: Johannes Specht
        - o Sending draft (y/n/a): 37, 2, 1
        - o CSD (y/n/a): 34, 1, 3

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

- o Motion
    - ▪ Approve https://www.ieee802.org/1/files/public/docs2024/liaison-response-itu-t-SG13-LS156-DetermNetwrking-0724-v01.pdf as communication to ITU-T SG13 granting the IEEE 802.1 WG chair (or his delegate) editorial license.
        - o This approval is under LMSC OM "Procedure for public statements to government bodies"
    - ▪ In the WG (y/n/a): 34, 0, 3
        - o Proposed: János Farkas,   Second: Jessy Rouyer
- o Motion
    - ▪ Approve submission of the comment responses to SC6 for ballot comments received on IEEE Std 802.1Q-2022 and IEEE Std 802f-2023
        - o https://www.ieee802.org/1/files/public/docs2024/liaison-randall-SC6CommentResponse8021Q-0724.pdf
        - o https://www.ieee802.org/1/files/public/docs2024/liaison-randall-SC6CommentResponse802f-0724.pdf
    - ▪ In the WG, Proposed: Mark Hantel Second: Karen Randall
        - o Sending draft (y/n/a): 34, 0, 4
- o Motion
    - ▪ Approve submission of the following drafts when SA ballot starts to ISO/IEC JTC1/SC6 for information:
        - o IEEE P802.1Qdy, IEEE P802.1DG
    - ▪ In the WG, Proposed: Mark Hantel Second: Karen Randall
        - o Sending draft (y/n/a): 37, 0, 1
- o Motion
    - ▪ Approve submission of the following drafts when published to ISO/IEC JTC1/SC6 for adoption under the PSDO agreement:
        - o IEEE 802.1DC, IEEE 802.1ASdm, IEEE 802.1ASdn
    - ▪ In the WG, Proposed: Mark Hantel Second: Karen Randall
        - o Sending draft (y/n/a): 38, 0, 1
- o Motion
    - ▪ Approve the YANG blog post in http://www.ieee802.org/1/files/public/docs2024/new-blogpost-IEEESA-YANG-blog-0724.pdf, to be released with editorial changes as deemed necessary.
    - ▪ In the WG, Proposed: Stephan Kehrer, Second: Karen Randall
        - o (y/n/a): 32, 2, 6

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

- o Motion
    - ▪ Approve https://www.ieee802.org/1/files/public/docs2024/liaison-response-LNI40-access-to-drafts-0724-v01.pdf as communication to Lab Network Industrie 4.0 (LNI 4.0), granting the IEEE 802.1 WG chair (or his delegate) editorial license.
    - ▪ Proposed: János Farkas
    - ▪ Second: Marcel Kiessling

- o In the WG (y/n/a): 32, 0, 5
- o Motion
  - Approve https://www.ieee802.org/1/files/public/docs2024/liaison-response-RAP-MSRP-backwards-compatibility-AvnuAlliance-0724-v01.pdf as communication to Avnu Alliance, granting the IEEE 802.1 WG chair (or his delegate) editorial license.
  - Proposed: János Farkas
  - Second: Don Pannell
    - o In the WG (y/n/a): 36, 0, 3
- o Motion
  - Approve https://www.ieee802.org/1/files/public/docs2024/liaison-response-BroadbandForum-YANG-0724-v01.pdf as communication to Broadband Forum, granting the IEEE 802.1 WG chair (or his delegate) editorial license.
  - Proposed: Stephan Kehrer
  - Second: Jessy Rouyer
    - o In the WG (y/n/a): 36, 0, 3

Administrative
WG Motions

- o Motion
  - 802.1 approves:
    - o March 2024 (plenary) session minutes:
      - https://www.ieee802.org/1/files/public/minutes/2024-03-minutes.pdf
    - o May 2024 (interim) session minutes:
      - https://www.ieee802.org/1/files/public/minutes/2024-05-minutes.pdf
  - Proposed: Jessy Rouyer
  - Seconded: Johannes Specht
  - Approved by acclamation
- o 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
  - Logistics of the Sep 2024 interim session were discussed.
  - Passed by acclamation
- o Motion
  - 802.1 approves to hold an 802.1 interim session January 13-17, 2025, in Asheville, NC, USA, hosted by Randall Consulting as in-person session with provisions to support mixed mode.
  - Proposal in https://www.ieee802.org/1/files/public/docs2024/admin-randall-Jan25-interim-proposal-0724-v01.pdf
  - Proposed: Stephan Kehrer Seconded: Jessy Rouyer
  - Yes: 29 No: 4 Abstain: 5

IEEE 802.1 July 15-19, 2024 Plenary Session (Montreal, QC, Canada – Mixed Mode)

Future meetings table

Subgroup	Topic	Date	Time	Recurrence	Date annoucements (days prior)	Agenda	Agenda	Access Information
YANGsters	per agenda	Tue 2024-07-30	10:00 - 11:00 ET	every two weeks	motion	5 days	802.1 Minutes email list	https://1.ieee802.org/yangsters/yangsters-call-information/
YANGsters	per agenda	as announced			10 days	10 days	802.1 Minutes email list	https://1.ieee802.org/yangsters/yangsters-call-information/
Maintenance TG	address TG matters and progress resolution of maintenance items in https://1.ieee802.org/maintenance/database/	as announced			10 days	10 days	802.1 Minutes email list	https://1.ieee802.org/category/maintenance-tg-agenda/
Maintenance TG	progress P802-REVc	as announced			10 days	10 days	802.1 Minutes email list 802 Architecture list	https://1.ieee802.org/category/maintenance-tg-agenda/
Security TG	P802.1Qdt and TG matters arising	as announced			10 days	10 days	802.1 Minutes email list	https://1.ieee802.org/security/security-task-group-agenda/
TSN TG	per agenda	Mon 2024-11-11	8:00 - 10:00	none	motion	14 days	https://1.ieee802.org/category/tsn-tg-agenda/	https://1.ieee802.org/meetings/
TSN TG	per agenda	Fri 2024-11-15	8:00 - 18:00	none	motion	14 days	https://1.ieee802.org/category/tsn-tg-agenda/	https://1.ieee802.org/meetings/
TSN TG	per agenda	Mon 2024-07-22	11:00 - 13:00 ET	weekly	motion	5 days	802.1 Minutes email list	http://www.ieee802.org/1/tsn
TSN TG	progress TG projects and TG matters arising	as announced			10 days	10 days	802.1 Minutes email list	http://www.ieee802.org/1/tsn
TSN TG	progress IEC/IEEE 60802 Joint Project work with IEC 65C/WG18	Mon 2024-09-02	9:00 - 11:00 ET	weekly	motion	5 days	802.1 Minutes email list	http://www.ieee802.org/1/tsn
TSN TG	progress IEC/IEEE 60802 Joint Project work with IEC 65C/WG18	Fri 2024-09-06	9:00 - 11:00 ET	weekly	motion	5 days	802.1 Minutes email list	http://www.ieee802.org/1/tsn
TSN TG	progress P802.1DG	Tue 2024-09-03	9:00 - 11:00 ET	weekly	motion	5 days	802.1 Minutes email list	http://www.ieee802.org/1/tsn
TSN TG	progress P802.1DP / SAE AS6675 Joint Project work with SAE AS6675	Wed 2024-07-24	10:00 - 12:00 ET	weekly	motion	5 days	802.1 Minutes email list	http://www.ieee802.org/1/tsn
Nendica	per agenda	Thu 2024-07-25	9:00 - 11:00 ET	every two weeks	motion	5 days	802.1 Minutes email list	https://1.ieee802.org/802-nendica/
Nendica	per agenda	as announced			10 days	10 days	802.1 Minutes email list	https://1.ieee802.org/802-nendica/

**Nendica
WG Motions**

**YANGsters
WG Motions**

**Maintenance TG
WG Motions**

- o Motion
  - 802.1 authorizes the Maintenance TG to generate PAR at the September 2024 interim session for pre-circulation to the EC for a revision to IEEE 802.1CB-2017.
  - Proposed: Mark Hantel
  - Second: Stephan Kehrer
  - In the WG (y/n/a): 35, 0, 1

**Security TG
WG Motions**

**TSN TG
WG Motions**

- o Motion
  - 802.1 authorizes Silvana Rodrigues, the Editor of P802.1ASds Standard for Local and Metropolitan Area Networks: Timing and Synchronization for Time-Sensitive Applications — Amendment: Support for the IEEE Std 802.3 Clause 4 Media Access Control (MAC) operating in half-duplex to prepare drafts for and conduct Working Group balloting.
  - Proposed: Don Pannell
  - Second: David McCall
  - Motion discussed.
  - In the WG (y/n/a): 31, 4, 5

**Maintenance TG
WG Motions**

- o Motion
  - 802.1 authorizes Christophe Mangin, the Editor of P802.1CB-2017/Cor1, Standard for Local and Metropolitan Area Networks: Frame Replication and Elimination for Reliability, to prepare drafts for and conduct Task Group balloting.
  - Proposed: Mark Hantel
  - Second: Karen Randall
  - In the WG (y/n/a): 36, 1, 1
- o Motion
  - 802.1 authorizes Marco Hernandez, the Editor of P802.1ACea, Standard for Local and Metropolitan Area Networks: Media Access Control (MAC) Service Definition Amendment: Support for IEEE Std 802.15.6, to prepare drafts for and conduct Task Group balloting.
  - Proposed: Mark Hantel
  - Second: Karen Randall
  - In the WG (y/n/a): 33, 0, 5

TSN TG
WG Motions

- o Motion
  - ▪ 802.1 authorizes David McCall, the Editor of P802.1ASeb Standard for Local and Metropolitan Area Networks: Timing and Synchronization for Time-Sensitive Applications — Amendment: Optional Use of Announce to prepare drafts for and conduct Task Group balloting.
  - ▪ Proposed: János Farkas
  - ▪ Second: Max Turner
  - ▪ Motion was discussed. It was noted that the P1588f PAR is approved.
  - ▪ In the WG (y/n/a): 37, 1, 1
- o Motion
  - ▪ 802.1 conditionally 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 Task Group balloting after the SASB approval of the P802.1ASed PAR.
  - ▪ Proposed: János Farkas
  - ▪ Second: David McCall
  - ▪ In the WG (y/n/a): 36, 1, 2
- o Motion
  - ▪ 802.1 conditionally authorizes Feng Chen, the Editor of P802.1DD Standard for Local and Metropolitan Area Networks: Resource Allocation Protocol to prepare drafts for and conduct Task Group balloting after the SASB approval of the P802.1DD PAR.
  - ▪ Proposed: János Farkas
  - ▪ Second:
  - ▪ In the WG (y/n/a): 33, 1, 5
- o Motion
  - ▪ 802.1 authorizes the TSN TG to generate PAR and CSD at the September 2024 interim session for pre-circulation to the EC for an amendment to IEEE 802.1CB for an informative annex on Sequence Recovery Function parameter configuration.
  - ▪ Proposed: Johannes Specht
  - ▪ Second: Stephan Kehrer
  - ▪ Motion was discussed. The Chair thanked the Nendica subgroup for advancing the proposal on which this motion is based. The sequencing of this amendment with respect to draft revised P802.1CB-2017-Rev was discussed.
  - ▪ In the WG (y/n/a): 35, 0, 4
- • Called for Any Other Business (slide 146).
  - o Regarding the presence in the "upcoming" tab on DVL of the motion to approve minutes, it was noted that this motion was keyed in in case a request was made to vote on it.
  - o No other business was discussed in this meeting.

17:37 ET adjournment

11 Next Session

Sep 16-20, 2024 mixed mode interim session in Hamburg, Germany.