

IEEE 802.1 Working Group

March 13-17, 2023 Plenary Session

Atlanta, GA, USA – Mixed Mode

Session Minutes

The Working Group (WG) Chair, Glenn Parsons, presided and had requested that subgroup Chairs in remote attendance had on-site individuals acting on their behalf as needed to help conduct proceedings with both 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.

			TSN - IEC/IEEE 60802, Fri Mar 17, 2023, 13:30-18:00 ET																											
			TSN - IEC/IEEE 60802, Fri Mar 17, 2023, 10:30-12:30 ET																											
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			TSN, Mon Mar 13, 2023, 8:00-10:00 ET																											
Last name	First name	Affiliation																												
Akizuki	katsuyuki	NEC Communication Systems, Ltd.	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	
Alexandris	Konstantinos	Huawei Technologies Duesseldorf GmbH	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	
Amezawa	Yasuharu	Mobile Techno Corp.																			●									
Andersdotter	Amelia	Sky UK Group																			●									

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Hernandez	Marco	National Institute of Information and Communications Technology (NICT)																													
Hiertz	Guido	Ericsson GmbH																													
Holness	Marc	Ciena Corporation																													
Hopf	Daniel	Continental Automotive GmbH	•	•																											
Hosako	Iwao	NICT																													
Hoshino	Masayuki	Continental Automotive	•																												
Hotchkiss	Ron	IEEE STAFF																													
Hu	Mark Zhuomin	Aptiv	•																												
Itaya	Satoko	National Institute of Information and Communications Technology (NICT)	•	•																											
Ito	Yoshihiro	Nagoya Institute of Technology	•	•																											
Jabbar	Abdul	General Electric Company (GE)																													
Kalsow	Steffen	Airbus Group																													
Kehrer	Stephan	Hirschmann Automation and Control, Inc.	•	•																											
Klingensmith	William	U.S. Federal Government																													
Kobayashi	Takumi	Yokohama National University																													
Krieger	Ann	US Department of Defense																													
Kürner	Thomas	Technische Universität Braunschweig*																													
Lai	Gavin	Moxa Inc.	•	•																											
Levy	Joseph	InterDigital, Inc.																													
Li	Yizhou	Huawei Technologies Co., Ltd	•	•																											
Liu	Peng	Huawei Technologies Co., Ltd	•	•																											
Lv	Lily	Huawei Technologies Co., Ltd	•	•																											
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.	•	•																											
Mittelberger	Martin	Siemens AG	•	•																											
Nakano	Hiroki	CAHI Corporation;Kyoto University;National Institute of Information and Communications Technology (NICT)	•	•																											
Nomura	Takumi	Honda R&D	•	•																											

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Noseworthy	Bob	University of New Hampshire InterOperability Laboratory (UNH-IOL)																											
Obradovic	Dragan	Siemens AG																											
Orlando	Christian	IEEE STAFF																											
Osuga	Toru	National Institute of Information and Communications Technology (NICT)																											
Pannell	Donald	NXP Semiconductors																											
Parkholm	Ulf	Ericsson AB																											
Parsons	Glenn	Ericsson AB																											
Pearn	Richie	NXP Semiconductors																											
Proell	Dieter	Siemens AG																											
Randall	Karen	INDEPENDENT; Tallac Networks, Inc																											
Riegel	Maximilian	Nokia																											
Rodine	Craig	Sandia National Laboratories																											
Rodrigues	Silvana	Huawei Technologies Co., Ltd																											
Rouyer	Jessy	Nokia																											
Ryoo	Jeong	Electronics and Telecommunications Research Institute (ETRI)																											
Salazar	Ruben	skgwaves*																											
Sand	Stephan	German Aerospace Center (DLR)																											
Sato	Atsushi	Yokogawa Electric Corporation																											
Sayrafian	Kamran	National Institute of Standards and Technology																											
Schewe	Frank	Phoenix Contact																											
Seaman	Mick	Individual																											
Seewald	Maik	Cisco Systems, Inc.																											
Seguine	Ryan	Infineon Technologies (CYSC LP P)*																											
Sekine	Norihiko	NICT*																											
Sivakolundu	Ramesh	Cisco Systems, Inc.																											
Specht	Johannes	Analog Devices, Inc.; Mitsubishi Electric Corporation; Phoenix Contact GmbH & Co. KG; PROFIBUS Nutzerorganisation e.V.; Self; Self Employed; Siemens AG; Texas Instruments, Inc.																											
Stamencic	Nemanja	Siemens AG																											
Stanica	Marius	ABB AB																											

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Steindl	Guenter	Siemens AG	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Sturek	Don	Itron Inc.																																				
Suzuki	Takafumi	National Institute of Information and Communications Technology (NICT)																																				
Takita	Daisuke	Mitsubishi Electric Corporation																																				
Thompson	Geoffrey	Self																																				
Traore	Karim	Microchip/Microsemi Corporation	•	•	•																																	
Tse	Richard	Microchip Technology, Inc.																																				
Turner	Max	Ethernova	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Venkatesan	Ganesh	Intel	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Wang	Jing	*	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Wang	Tongtong	Huawei Technologies Co., Ltd	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Wessels	Leon	Uman Technologies ZA	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Winkel	Ludwig	PNO e.V.	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Woods	Jordon	Analog Devices Inc.	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Wu	Hao	XGIMI	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Yamaura	Takahiro	TOSHIBA Corporation	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Yang	Ling	Qualcomm	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Zein	Nader	NEC Europe (NLE)	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Zhenzhen	Ye	Redpoint Positioning Corp.*																																				
Zhuang	Yan	Huawei Technologies Co., Ltd																																				

(*) Last name, first name and affiliation possibly incorrect as derived from Webex access information or otherwise, and 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: Paul Congdon
- Security TG Chair: Mick Seaman
 - Security TG Vice-Chair: Karen Randall
- TSN TG Chair: János Farkas
 - TSN TG Vice-Chair: Craig Gunther
 - TSN TG Secretary: Johannes Specht
 - IEC/IEEE 60802 Joint Project Chair: Ludwig Winkel
 - IEC/IEEE 60802 Joint Project Secretary: Josef Dorr
 - IEEE P802.1DP/SAE AS6675 joint project co-Chairs: Abdul Jabbar & János Farkas
 - IEEE P802.1DP/SAE AS6675 joint project Secretary: Marina Gutiérrez
- Nendica Chair: Roger Marks
- 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 Mar 13, 2023 at 10:30 ET by the Chair who presided. The Recording Secretary wrote the minutes.

The Chair presented “Opening Plenary March 2023” finalized as <http://www.ieee802.org/1/files/public/minutes/2023-03-opening-plenary-slides.pdf>.

During this presentation, the Chair:

- Welcomed participants noting higher in-person participations than in recent sessions.
- 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).
- 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).
- Presented slide 10 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 11 and 12.

- Showed slides 13 through 17 (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.
- Presented slides 18 through 20 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 21) 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.
- Paid homage to the memory of Donna Ferguson and her contribution to IEEE 802 (slides 22 and 23).
- Reminded participants of the various plenary session registration fees applying and attendant registration details (slide 24), noting fee waivers may be granted in advance, exceptionally.

- Shared information about the 40th Anniversary Polo Shirts (slide 25) and about food and social logistics (slide 26).
- Provided general information regarding meeting contributions, minutes, schedule for all Working Groups, website, including a new requirement for meeting contributions to be uploaded 24 hours before presentation (slide 27).
- Introduced 802.1 officers and leadership (slide 28).
- 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), will lose (slide 38), may lose (slide 39) 802.1 voting membership.
- Reminded individual participants of 802.11 reciprocal credit, which was continued at this session (slide 40).
- Introduced information about the May 15-19, 2023 interim session (slide 41).
 - The Executive Summary introduced, and Marius Stanica presented a summary of the ABB offer to host <https://www.ieee802.org/1/files/public/docs2022/admin-stanica-May-2023-interim-proposal-0322-v01.pdf>.
- Introduced information about option 1 for the Sep 2023 interim session (slide 42).
 - The Executive Summary provided a summary of the General Electric offer to host and presented <https://www.ieee802.org/1/files/public/docs2023/admin-jabbar-sep-2023-interim-proposal-0323-v01.pdf>.
- Introduced information about option 2 for the Sep 2023 interim session (slide 43).
 - The Executive Summary provided a summary of the IEEE 802 wireless group offer to host.
- Had the Executive Secretary review the schedule for future interim sessions (slide 44):
 - May 15-19, 2023
 - Helsinki, Finland hosted by ABB (with provisions to support mixed mode)
 - September 11-15, 2023
 - Offer from GE in Niskayuna, NY, USA as in-person session with provisions to support mixed mode
 - Option to co-locate with the 802 wireless group in Atlanta (Buckhead), GA, USA
 - January 2024
 - Currently no firm offer. One possible option is currently being investigated
 - May 2024
 - Possible option to co-locate with the 802 wireless group is currently being discussed
 - Date: May 12-17, 2024
 - Location: Warsaw, Poland
 - September 2024
 - Possible option to co-locate with the 802 wireless group is currently being discussed
 - Date: September 8-13, 2024
 - Waikoloa, HI, USA

- Had the Executive Secretary review the schedule for future plenary sessions (slide 45):
 - March 12-17, 2023 – Atlanta, GA, USA
 - Hilton Atlanta
 - July 9-14, 2023 – Berlin, Germany
 - Estrel Berlin
 - November 12-17, 2023 – Honolulu, HI, USA
 - Hawaiian Village
 - March 10-15, 2024 – Denver, CO, USA
 - Hyatt Regency Denver at Colorado Convention Center
 - July 14-19, 2024 – Montreal, QC, Canada
 - Sheraton Le Centre Montreal
 - November 10-15, 2024 – Vancouver, BC, Canada
 - Hyatt Regency
 - March 9-14, 2025 – Atlanta, GA, USA
 - Hilton Atlanta
- Conducted the following straw polls regarding future interim sessions (slide 46):
 - 1. If the 2023 September Interim Session is held at the GE Research Facility in Niskayuna, NY, USA as a mixed-mode session, will you attend:
 - Attend In-person - 27
 - Attend Virtually (remotely) - 23
 - Will not attend interim - 5
 - No response - 17
 - 2. If the 2023 September Interim Session is held at the Grand Hyatt, Atlanta (Buckhead), Atlanta, GA, USA as a mixed-mode session, will you attend:
 - Attend In-person - 17
 - Attend Virtually (remotely) - 31
 - Will not attend interim - 7
 - No response - 17
- Conducted the following straw polls (slide 47):
 - 1. If you will attend one of the three meetings on Friday, Mar 17 2023 (802 EC Closing Plenary, the 802.11 Closing Plenary or the 802.1 " IEC/IEEE 60802" meeting) will you participate (eat/drink) :
 - With breakfast? - 30
 - With the AM Break? - 29
 - With lunch? - 29
 - With the PM Break? - 21
 - 2. If the 2023 July Plenary Session is held at the Estrel Berlin in Berlin, Germany as an in-person only session, will you attend?
 - Yes - 44 No - 13 Did not respond - 17
 - 3. If the 2023 July Plenary Session is held at the Estrel Berlin in Berlin, Germany as a mixed-mode session, will you attend:
 - Attend In-person - 38
 - Attend Virtually (remotely)- 20
 - Will not attend plenary - 1
 - Did not respond - 15
- Previewed the straw poll 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 #132 (slide 50):
 - March 2024 – Paul Nikolich will not run for IEEE 802 chair
 - The 802 chair also appoints several EC positions
 - Anyone can be nominated. Interested? Contact Paul.
 - IEEE 802 Milestone ([EC-23-050](#))
 - Silicon Valley at Computer History Museum later in 2023
 - Venues ([EC-23-049](#))
 - March 2023 – 390 in-person, 530 remote attendees
 - Future meeting format discussion ongoing this w
 - Future in person venues contracted into 2027, contracting to resume in 2023
 - Berlin student outreach plan
 - Treasurer ([EC-23-044](#))
 - 2022 surplus at \$500k to restore reserves to over \$1.5M due to increase in attendance
 - 802 Rules update ([EC-23-043](#))
 - 48 hour rule update (delineate Maint PARs), access to other standards, 8 EC calls
 - Standards Media distribution – March 2023 ([EC-23-019](#))
 - Email will be sent with link to attendees
- Noted training required or recommended for WG officers, and governance participants (slide 51).
- Pointed out information regarding 802.18 European Consultation (slide 52) soliciting reviews and comments.
- Introduced IEEE SA staff supporting IEEE 802 (slide 53):
 - Jodi Haasz
 - IEEE 802 lead, supports dot03 and dot18 groups title:
 - Operational Program Management Senior Manager
 - Ron Hotchkiss
 - supports dot01 group
 - Operational Program Management Program Manager (arriving Wednesday)
 - Christy Bahn
 - supports dot11, dot15, dot19 and, dot24 groups
 - Operational Program Management Senior Program Manager
 - Catherine Berger
 - 802 editorial support
 - Senior Program & Special Project Manager
 - Ian Barbour
 - 802 editorial support
 - Content Editor
 - Christian Orlando (remote)
 - assisting Jodi, Ron, and Christy
 - Operational Program Management Program Manager
- Provided IEEE 802 program status pointers (slide 54).
- Mentioned the following notable items (slide 55):
 - 802.1 3rd in standards downloads with 17k
 - 802.1Q-2022 published Dec 20th

- Expiring standard - 802.1BR-2012
 - 261 downloads in last year
 - There was no revision PAR initiated.
 - Status will change to “inactive reserved” at SASB on March 30, 2023
- Expiring PARs – Dec 2023
 - P802.1Qcj, P802.1Qcw, P802.1DF, P802.1DG, P802.1Qdj
- Provided information about public review (slide 56).
- Pointed out 802.1 PARs, PAR modifications and CSDs (slide 57) as well as 802.15.4 PAR and CSD (slide 58) that are up for vote or finalization during this IEEE 802 plenary session.
- Introduced the two tutorials to be held at this plenary session (slide 59).
- Had the Liaison Secretary present liaison resources (slide 60), the set of newly and previously-received incoming liaisons to be handled by specific subgroups as listed on 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) and about meetings to be held with other 802 WGs (802.15 and 802.3) during this plenary session (slide 65).
- Discussed promotion of the work of the WG highlighting the TSN feature topic in the Dec 2022 issue of IEEE Communications Standards Magazine (slide 66) and 802.1 public visibility messaging (slide 67).
- Reminded nominations are welcome for the various types of IEEE awards (slide 68).
- Recognized WG Chair Awards recipients following the publication of IEEE Std 802.1Q-2022 (slide 69).
- Provided the anticipation of next actions with respect to projects in the WG’s current workload (slide 70).
- Reviewed the timeline for 802.1Q (slide 71) and 802.1AS (slide 72) revisions and amendments.
- Showed the 802.1 plenary session electronic meeting schedule for this session, which was tacitly approved (slide 73).
- Listed 802.1 leadership and editors’ meetings (slide 74).
- 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 75).
- Requested that subgroup agendas be presented (slide 76):
 - The Security TG Chair presented the agenda on slide 78.
 - The Maintenance TG Chair presented the agenda on slide 77.
 - The TSN TG Chair presented the agenda on slide 79
 - The Nendica Chair presented the agenda on slide 80.
 - The YANGsters Chair presented the agenda on slides 81 and 82.
- Called for Any Other Business (slide 83).
 - No other business was discussed in this meeting.

12:40 ET adjournment

4 802.1/802.15 Joint Meeting

Between this session and the preceding session, the following 802.1/802.15 joint meetings were held whose minutes are incorporated to these session minutes by reference as follows:

- None

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 Mar 14, 2023 are on page 6 of “802.15 WG & CAC Minutes March 2023 Hybrid Meetings” <https://mentor.ieee.org/802.15/dcn/23/15-23-0139-00-0000-802-15-wg-cac-min-mar-2023-hybrid-plenary.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 2023-02-21 11:00 – 12:58 ET <https://listserv.ieee.org/cgi-bin/wa?A2=STDS-802-1-MINUTES;6457b818.23>

See section 1 for attendance and affiliation information.

Call to order Mar 14, 2022 at 8:00 ET by Paul Congdon, IEEE 802.1 Maintenance TG Chair who presided and 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” <https://www.ieee802.org/1/files/public/templates/admin-TG-intro-0323-v01.pdf>.

The Maintenance TG 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 Maintenance TG 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 Maintenance 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 TG chair presented the agenda in <https://1.ieee802.org/march-2023-plenary-session-maintenance-tg-agenda/>.

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

3. Maintenance TG Project Status. The Maintenance TG chair presented “Maintenance TG Project Status” in <https://www.ieee802.org/1/files/public/docs2023/maint-congdon-hy-0323-1-v01.pdf>.

Disposition: For information.

4. Review Motions. The Maintenance TG chair presented, “Motion Summary” in <https://www.ieee802.org/1/files/public/docs2023/maint-congdon-hy-0323-1-v01.pdf>.

Disposition: For information.

5. 802 PARs Under Consideration. The Maintenance TG chair led the discussion and drafting of comments on the P802.15.4 PAR and CSD. The initial set of 802.1 comments was previously drafted in “Comments on P802.15 PAR & CSD From 802.1”

<https://www.ieee802.org/1/files/public/docs2023/admin-draft-PAR-CSD-comments-802-15-0323-v01.pdf>.

Disposition: Drafting of the review comments was postponed to a Maintenance TG ad-hoc meeting scheduled for Mar 14, 2023 10:30 ET.

6. P802.1Q Revision PAR proposal. The Maintenance TG chair led the review of the P802.1Q-2022 Revision PAR <https://www.ieee802.org/1/files/public/docs2023/q-rev-seaman-draft-PAR-0223-v00.pdf>.

Disposition:

- Updated PAR: <https://www.ieee802.org/1/files/public/docs2023/q-rev-draft-PAR-0323-v01.pdf>.

7. P802.1AS Revision PAR proposal. The Maintenance TG chair led the review of the P802.1AS-2020 Revision PAR <https://www.ieee802.org/1/files/public/docs2023/as-rev-congdon-draft-PAR-0323-v01.pdf>.

Disposition:

- Updated PAR: <https://www.ieee802.org/1/files/public/docs2023/as2020-rev-PAR-0323-v02.pdf>.

8. Liaisons. The TG chair led the review, discussion and drafting of incoming and outgoing liaisons.

- Incoming: LS on Invitation to update the information in the IMT2020 roadmap (21 Nov 22 liaison) <https://www.ieee802.org/1/files/public/docs2022/liaison-ITU-T-JCA-IMT2020r>

• Outgoing:

- Liaison on IETF draft-eastlake-rfc7042bis-09 <https://www.ieee802.org/1/files/public/docs2023/maint-comments-draft-ietf-intarea-rfc7042bis-01-0223-v01.pdf> with proposed cover letter <https://www.ieee802.org/1/files/private/liaison-drafting/draft-liaison-IETF-RFC7042bis-0323.pdf>.

- Liaison to ITU-T SG 15 on OTNT Standardization Work Plan <https://www.ieee802.org/1/files/private/liaison-drafting/liaison-draft-response-itu-t-sg15-LS15-OTNT-SWP-Issue-31-0323-v01.docx> with proposed cover letter <https://www.ieee802.org/1/files/private/liaison-drafting/liaison-response-cover-itu-t-sg15-otnt-swp-0323.pdf>.

Disposition: The incoming liaison was previously reviewed and no response was created. Drafted outgoing liaisons finalized as:

- Liaison on IETF draft-eastlake-rfc7042bis-09
<https://www.ieee802.org/1/files/public/docs2023/liaison-IETF-RFC7024bis-0323.pdf>
- Liaison to ITU-T SG 15 on OTNT Standardization Work Plan
<https://www.ieee802.org/1/files/public/docs2023/liaison-response-itu-t-sg15-otnt-swp-0323.pdf>

9. P802.1CS-2020/Cor1 Comment Resolution. Norman Finn, P802.1CS-2020/Cor1 editor, led the resolution of comments received on <https://www.ieee802.org/1/files/private/cs-2020-cor-1-drafts/d1/802-1CS-2020-Cor1-d1-1.pdf>. Proposed disposition: <https://www.ieee802.org/1/files/private/cs-2020-cor-1-drafts/d1/802-1CS-2020-Cor1-d1-1-pdis-v01.pdf>.

Disposition: Final disposition: <https://www.ieee802.org/1/files/private/cs-2020-cor-1-drafts/d1/802-1CS-2020-Cor1-d1-1-dis.pdf>.

10:12 ET recess

Call to order Mar 14, 2023 at 10:30 ET by Paul Congdon, IEEE 802.1 Maintenance TG Chair who presided and wrote the minutes.

10. The Maintenance TG Chair announced that this ad hoc 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.
11. P802.15.4 PAR and CSD review comments. The Maintenance TG chair led the drafting of PAR and CSD review comments.

Disposition: Response drafted: “Comments on P802.15 PAR & CSD From 802.1”
<https://www.ieee802.org/1/files/public/docs2023/admin-draft-PAR-CSD-comments-802-15-0323-v02.pdf>.

11:55 ET recess

Call to order Mar 15, 2023 at 8:04 ET by Paul Congdon, IEEE 802.1 Maintenance TG Chair who presided and wrote the minutes.

12. The Maintenance TG 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 minute taker.
13. P802-REVC comment resolution. James Gilb, P802-REVC editor, led the resolution of comments received on <https://www.ieee802.org/1/files/private/802-REVC-drafts/d1/P802-REVC-d1-0.pdf>.
Disposition: Comments 5, 6, 11, 34, 35, 66, 69, 70, 74, 80, 83-87, 90, 94, 96, 98 were discussed. Partial disposition: <https://www.ieee802.org/1/files/private/802-REVC-drafts/d1/802-REVC-d1-0-comments-04.xlsx>.
14. Any Other Business. No other business was discussed in this session.
15. Future meetings. Agreed (informally, none dissenting) to hold electronic meetings starting in Apr 2023 for P802.1ASdr, P802-REVC and unaddressed agenda items. Electronic meetings would be announced on the 802.1 minutes email list. P802-REVC comment resolution during the May 2023 interim session would be coordinated across 802.3, 802.11 and 802.1 that are all holding mixed mode interim sessions during the same week.

10:05 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 2023-02-14 11:00 - 13:00 ET
<https://listserv.ieee.org/cgi-bin/wa?A2=STDS-802-1-MINUTES;a5e6793f.23&S=>

See section 1 for attendance and affiliation information.

Call to order Mar 13, 2023 at 13:38 ET by Mick Seaman, IEEE 802.1 Security TG Chair, who presided and 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” <https://www.ieee802.org/1/files/public/templates/admin-TG-intro-0323-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/march-2023-plenary-session-security-tg-agenda>.
Disposition: The agenda was reviewed, discussed and updated as recorded by these minutes.
3. P802.1Qdt Priority-based Flow Control Enhancements. Lily Lv, P802.1Qdt Editor, presented “Headroom Measurement Protocol Design” <https://www.ieee802.org/1/files/public/docs2023/dt-lv-design-topics-0323-v1.pdf>.

Discussion:

- Measurement message will reflect the interval between the time at which the sending PFC entity timestamps the measurement message query/request with its local time (or records the local time at which that message is transmitted) and the local time at which that entity records the arrival of the corresponding measurement message reply/response. Absent specialized timestamping support within the MAC Control or MAC functions, this will be above the MAC Control/MAC and not aligned with last bit transmission/reception across those interfaces.
- Need model/figure with labelled time points [t1, t2, t3, t4] for PFC Entity decision to send PFC, PFC reception, peer stopping transmission, last data reception and t prime values [t1', t2', t3', t4'] for PFC Entity timestamping transmitted measurement message, measurement message reception/recognition, measurement message reply generation, measurement message reply recognition and timestamping. Calculated headroom (upper bound on t1 - t4) is then t1' - t4' with adjustment values that account for t, t' differences.

Disposition: Discussion to be continued.

15:25 ET recess

Call to order Mar 13, 2023 at 16:00 ET by Mick Seaman, IEEE 802.1 Security TG Chair.

4. Review potential Security TG Motions/Liaisons for Closing Plenary

4.1 802.1AR Signature Suites for 60802/Industrial Networks. Mick Seaman, Security TG Chair, led a brief discussion of the potential work in this area.

Discussion:

- Need clarification/follow up from the Jan 2023 802.1 interim session's IEC/IEEE 60802 Joint Project meeting in Baltimore, MD, USA on the desired signature suites. See "Secure Device Identity Profile for TSN-IA: DevID Signature Suites" <https://www.ieee802.org/1/files/public/docs2023/60802-Pfaff-et-al-Secure-Device-Identity-Profile-0123-v06.pdf>, taking into account the discussion at that meeting, particularly with regard to minimizing the number of signature suites that need to be supported by any given low-cost device with strict code qualification requirements.
- IEEE 802.1AR-2018 already includes ECDSA P-256/SHA-256 (9.2 of 802.1AR-2018) which is one of the support requirements for TLS 1.3 (ecdsa_secp256r1_sha256 called out in 9.1 "Mandatory-to-Implement Cipher Suites" of IETF RFC 8446bis "The Transport Layer Security (TLS) Protocol Version 1.3" draft-ietf-tls-rfc8446bis-06, referenced by 4.3 of IETF RFC 9325 "Recommendations for Secure Use of Transport Layer Security (TLS) and Datagram Transport Layer Security (DTLS)").
- Discussion in Baltimore appeared to show a preference for EdDSAEd448 to address requirements for 256-bit security. This does introduce a new hash algorithm family (SHAKE) so there could be some delay before widespread acceptance of this option.
- See also FIPS 186-5 "Digital Signature Standard" (published Feb 3, 2023 and supersedes FIPS 186-4) and SP 800-186.

Disposition: Next steps depend/wait on further IEC/IEEE 60802 Joint Project discussion.

4.2 Pre-shared Key (PSK) distribution for 802.1X MKA/MACsec. Mick Seaman, Security TG Chair, led a brief discussion of the potential work in this area.

Discussion:

- PSK use via console (or similar) entry directly into communicating devices is well established.
- Prior discussion of Quantum Key Distribution (QKD) as an alternative to physically transporting key storage (e.g. codebook in locked, accompanied, briefcase).
- Potential commonality of approach across PSK distribution alternatives. Use of MKA CKN to identify PSK CAK previously discussed (see prior minutes).
- Distribution using NetConf-TLS/YANG (following 802.1AR-based identification of parties as described in IEC/IEEE 60802 Joint Project discussions). Need to choose suitable key wrap for YANG transport (prior discussions steered clear of using YANG to distribute keys that would be "in the clear" and only protected by TLS). Mutual authentication of MACsec peers would be through transitive trust of the same TLS Client (or of mutually trusted TLS Clients) with initial discovery of a potential peer based on receipt of a frame with a scope limiting MAC SA (e.g.

Nearest Bridge, Nearest non-TPMR Bridge) which could be sent by LLDP, EAPOL Announcement, or MKA.

- Other PSK distribution possibilities for low-cost devices in dedicated networks that do not follow the personal device potentially attaching to many provider networks (one at a time) paradigm.
- Further progress on QKD dependent on having a critical mass representing a range of interests (balance). ITU has started a QKD coordination/tracking activity.

Disposition: For further discussion. No further action expected at this meeting.

4.3 BBF Liaison (YANG/802.1X Response). Karen Randall, Security TG Vice-Chair and 802.1 Liaison Secretary, led a discussion of a draft response (see also prior minutes for previous discussion of this liaison).

Disposition: Updated response prepared for further review by YANGsters. Final response “...on Use of the IEEE 802.1X YANG model in BBF-specified Access Nodes”

<https://www.ieee802.org/1/files/public/docs2023/liaison-response-BBF-1XandYANG-0323.pdf> approved by the 802.1 closing plenary meeting at this session.

17:05 ET recess

Call to order Mar 15, 2023 at 10:30 ET by Mick Seaman, IEEE 802.1 Security TG Chair.

5. P802.1Qdt Priority-based Flow Control Enhancements (continued). Mick Seaman presented “PFC round trip timing protocol”

<https://www.ieee802.org/1/files/public/docs2023/dt-seaman-round-trip-timing-0323-v0.pdf>.

Discussion:

- Wouldn't it be simpler to keep Query and Response messages separate? Aim is to minimize number of messages to be sent at startup time, when there are often too many protocols wanting to signal as soon as possible. While encoding a Query in the same message as a solicited Response does save some bandwidth with a total of 3 rather than 4 messages to update both peers with PFC delay estimates (minimum sized Ethernet messages more than big enough to carry such encoding), a more important time saving results from handling the case when peers detect link up at slightly different times and one could drop a first message from the other. If each peer only transmits after it is ready to receive, then the first message sent by last peer up can initiate a successful three frame exchange – as opposed to the first peer to see link up having to wait on a retry timer to send a response prompting query.
- General design follows the ‘send state don't send commands’ paradigm, even though it can be thought of as a request/response exchange. No need to send “I need to hear from you” state from “I see you need to hear from me” state in separate frames.

Disposition: Discussion to be continued.

12:25 ET recess

Call to order Mar 15, 2023 at 16:00 ET by Mick Seaman, IEEE 802.1 Security TG Chair.

6. Summary of Security TG motion for the 802.1 Closing Plenary. Mick Seaman, Security TG Chair, led a brief discussion of actions for the 802.1 closing plenary meeting.

Disposition: See 802.1 closing plenary meeting minutes in section 10.

7. Any Other Business. No other business was discussed in this session.

8. Future meetings. The Security TG will meet during the May 2023 802.1 interim session in Helsinki, Finland. An electronic meeting will be scheduled in late April 2023 to prepare for that session and progress current work and Security TG matters arising.

16:27 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 2023-01-23, 11:00 – 13:00 ET
<https://listserv.ieee.org/cgi-bin/wa?A2=STDS-802-1-MINUTES;664ef277.23&S=>
- Minutes of the TSN TG meeting held 2023-01-30, 11:00 – 13:00 ET
<https://listserv.ieee.org/cgi-bin/wa?A2=STDS-802-1-MINUTES;417f7904.23&S=>
- Minutes of the TSN TG meeting held 2023-02-13, 11:00 – 13:10 ET
<https://listserv.ieee.org/cgi-bin/wa?A2=STDS-802-1-MINUTES;d0658e3e.23&S=>
- Minutes of the TSN TG meeting held 2023-02-13, 11:00 – 13:00 ET
<https://listserv.ieee.org/cgi-bin/wa?A2=STDS-802-1-MINUTES;3436caa3.23&S=>
- Minutes of the TSN TG meeting held 2023-02-27, 11:00 – 13:12 ET
<https://listserv.ieee.org/cgi-bin/wa?A2=STDS-802-1-MINUTES;44af2c89.23&S=>
- Minutes of the TSN TG meeting held 2023-02-27, 11:00 – 13:15 ET
<https://listserv.ieee.org/cgi-bin/wa?A2=STDS-802-1-MINUTES;d4231093.23&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 2023-02-21, 9:00 – 10:53 ET
<https://listserv.ieee.org/cgi-bin/wa?A2=STDS-802-1-MINUTES;27e469c8.23&S=>

See section 1 for attendance and affiliation information.

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

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

Call to order Mar 13, 2023 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 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/2023-03-plenary-tsn-agenda/>.

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

3. Stephan Kehrer, P802.1Qdj editor, led the resolution of comments received on <https://www.ieee802.org/1/files/private/dj-drafts/d1/802-1Qdj-d1-0.pdf>.

Disposition: Comments 9, 13, 33, 34, 44, 45, 46, 49, 56, 59, 60, 61, 62, 64, 78, 84, 86, 88, 89, 82 resolved. Partial disposition per agenda item 8.

9:56 ET recess

Call to order Mar 13, 2023 13:32 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.

4. 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.
5. Incoming liaisons and communication:
 - “IEEE 802.11 WLAN Working Group Liaison Communication – Liaison communication to the IEEE 802.1 Working Group”
https://www.ieee802.org/1/files/public/docs2022/liaison-80211-TSNsupport_1222.pdf.
 - “LS on Invitation to update the information in the IMT-2020 and beyond roadmap [to ITU study groups and external IMT-2020 liaison partners]”
<https://www.ieee802.org/1/files/public/docs2022/liaison-itu-t-JCA-RoadmapIMT2020-dec22.pdf>.
 - “LS on work items related to deterministic networking in SG13”
<https://www.ieee802.org/1/files/public/docs2023/liaison-itu-t-SG13-DeterminCommunicSvcSandNetworking-jan23.pdf>.
 - “New LNI 4.0 whitepaper – IEEE SA Logo request”
https://www.ieee802.org/1/files/public/docs2023/liaison-LNI4_0-WhitepaperandIEEEAlogorequest-0323.pdf in connection with “LNI 4.0 Testbed TSN – Whitepaper OPC UA over TSN”

https://www.ieee802.org/1/files/public/docs2023/liaison-LNI4_0-WhitepaperOPCUAoverTSNv14-0323.pdf.

Disposition: For information.

6. The Chair presented draft TSN TG motions.

Disposition: Draft TSN TG motions discussed.

7. Feng Chen, P802.1Qdd editor, presented <https://www.ieee802.org/1/files/private/dd-drafts/d0/802-1Qdd-d0-7.pdf>, summarizing the changes compared to the previous draft.

Disposition: Document presented, TG ballot initiated prior to this meeting.

8. Stephan Kehrer, P802.1Qdj editor, continued the resolution of comments received on <https://www.ieee802.org/1/files/private/dj-drafts/d1/802-1Qdj-d1-0.pdf>.

Disposition: Comments 30, 66, 67, 73 resolved. Partial disposition: <https://www.ieee802.org/1/files/private/dj-drafts/d1/802-1Qdj-d1-0-pdis-v06.pdf>.

15:30 – 16:00 ET recess

9. Geoffrey Garner, P802.1ASdm editor, presented “P802.1ASdm/D1.0 Editor’s Report Proposed Comment Resolution for WG Ballot Version 2”

<https://www.ieee802.org/1/files/public/docs2023/dm-garner-d1-0-wg-ballot-editors-report-0323-v01.pdf> then led the resolution of comments received on

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

Disposition: Comments 6, 9, 45, 46, 72, 73, 75, 89, 101, 103, 121, 141 resolved. Partial disposition per agenda item 33.

18:00 ET recess

Call to order Mar 14, 2023 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.

10. 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.

11. Geoffrey Garner, P802.1ASdm editor, continued the resolution of comments received on <https://www.ieee802.org/1/files/private/asdm-drafts/d1/802-1ASdm-d1-0.pdf>.

Disposition: Comments 1, 11, 41, 50, 52, 71, 77, 78, 79, 92, 108, 112, 143 resolved. Partial disposition per agenda item 33.

15:35 ET recess

Call to order Mar 15, 2023 8:02 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. The Chair presented “P802.1Qdx YANG Data Models for the Credit-Based Shaper | Resolution of Comments on Project Authorization Request (PAR) and Criteria for Standards Development (CSD) modification and extension”

<https://www.ieee802.org/1/files/public/docs2023/dx-PAR-CSD-comments-response-0323-v01.pdf> and led discussion.

Disposition:

- Updated draft PAR: <https://www.ieee802.org/1/files/public/docs2023/dx-PAR-0323-v01.pdf> (updated as <https://www.ieee802.org/1/files/public/docs2023/dx-PAR-0323-v02.pdf> post-meeting)
 - Updated draft CSD: <https://www.ieee802.org/1/files/public/docs2023/dx-CSD-0323-v01.pdf>
14. David McCall presented “802.1ASdm – PAR & CSD Comments & Responses” <https://www.ieee802.org/1/files/public/docs2023/dm-PAR-CSD-comments-responses-0323-v01.pdf> and led discussion.

Disposition:

- Updated draft PAR: <https://www.ieee802.org/1/files/public/docs2023/dm-PAR-modification-0323-v01.pdf>
 - Updated draft CSD: <https://www.ieee802.org/1/files/public/docs2023/dm-CSD-modification-0323-v01.pdf>
15. No comments were received on <https://www.ieee802.org/1/files/public/docs2023/dt-PAR-modification-0323-v01.pdf> and <https://www.ieee802.org/1/files/public/docs2023/dt-CSD-modification-0323-v01.pdf> for Lily Lv, P802.1Qdt editor, to discuss.

Disposition: For information.

16. Marc Holness, P802f editor, led the resolution of comments received on <https://www.ieee802.org/1/files/private/802-f-drafts/d2/802f-d2-0.pdf>.

Disposition: Resolved comments and disposition included in agenda item 24.

10:00 – 10:30 ET recess

17. Johannes Specht presented “P802.1DU Standard for Local and Metropolitan Area Networks – Cut-Through Forwarding Bridges and Bridged Networks | Resolution of Comments on Project Authorization Request (PAR) and Criteria for Standards Development (CSD)” <https://www.ieee802.org/1/files/public/docs2023/du-PAR-CSD-comments-responses-0323-v01.pdf> and led discussion.

Disposition:

- Updated draft PAR: <https://www.ieee802.org/1/files/public/docs2023/du-PAR-0323-v01.pdf> (updated as <https://www.ieee802.org/1/files/public/docs2023/du-PAR-0323-v02.pdf> and <https://www.ieee802.org/1/files/public/docs2023/du-PAR-0323-v03.pdf> post-meeting)
 - Updated draft CSD: <https://www.ieee802.org/1/files/public/docs2023/du-CSD-0323-v01.pdf>
18. Outgoing liaisons and communication.

Disposition: Outgoing draft responses finalized as:

- <https://www.ieee802.org/1/files/public/docs2023/liaison-response-itu-t-SG13-DeterminCommunicSvcsandNetworking-0323.pdf>, in response to “LS on work items related to deterministic networking in SG13”
<https://www.ieee802.org/1/files/public/docs2023/liaison-itu-t-SG13-DeterminCommunicSvcsandNetworking-jan23.pdf>
- <https://www.ieee802.org/1/files/public/docs2023/liaison-response-80211-TSNsupport-0323.pdf>, in response to “IEEE 802.11 WLAN Working Group Liaison Communication – Liaison communication to the IEEE 802.1 Working Group”
https://www.ieee802.org/1/files/public/docs2022/liaison-80211-TSNsupport_1222.pdf

- <https://www.ieee802.org/1/files/public/docs2023/liaison-response-LNI40-WhitepaperandIEEEAlogorequest-0323.pdf>, in response to “New LNI 4.0 whitepaper – IEEE SA Logo request”
https://www.ieee802.org/1/files/public/docs2023/liaison-LNI4_0-WhitepaperandIEEEAlogorequest-0323.pdf

12:15 ET recess

Call to order Mar 15, 2023 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.

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. Don Pannell presented “P802.1ASDs – Solution Implications”

<https://www.ieee802.org/1/files/public/docs2023/ds-pannell-Avnu-Automotive-Solution-Implications-0323-v01.pdf>.

Disposition: Presentation discussed. Further discussion needed.

21. Paul Congdon, P802.1Qcz editor, presented the disposition for the ballot held on

<https://www.ieee802.org/1/files/private/cz-drafts/d2/802-1Qcz-d2-7.pdf>.

Disposition: Final disposition (no comments received):

<https://www.ieee802.org/1/files/private/cz-drafts/d2/802-1Qcz-d2-7-dis-v01.pdf>.

22. Norman Finn, P802.1DC editor, led the resolution of comments received on

<https://www.ieee802.org/1/files/private/dc-drafts/d2/802-1DC-d2-0.pdf>.

Disposition: Resolved comments and disposition included in agenda item 23.

15:40 – 16:00 ET recess

23. Norman Finn, P802.1DC editor, continued the resolution of comments received on

<https://www.ieee802.org/1/files/private/dc-drafts/d2/802-1DC-d2-0.pdf>.

Disposition: Comments 1-59, 63-70, 72-87, 89-100 resolved. Partial disposition:

<https://www.ieee802.org/1/files/private/dc-drafts/d2/802-1DC-d2-0-pdis-v02.pdf>.

24. Marc Holness, P802f editor, continued the resolution of comments received on

<https://www.ieee802.org/1/files/private/802-f-drafts/d2/802f-d2-0.pdf>.

Disposition: Comments 1, 2, 3, 5, 16-28, 33, 42-47, 60 resolved. Disposition per agenda item 30.

18:00 ET recess

Call to order Mar 16, 2023 09:00 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.

25. 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.

26. Mick Seaman, P802.1Q-2022-Rev editor, provided an update on the integration of P802.1Qcw into P802.1Q-2002-Rev.

Disposition: For information.

27. Marina Gutiérrez, P802.1Qcw editor, continued the resolution of comments received on <https://www.ieee802.org/1/files/private/cw-drafts/d2/802-1Qcw-d2-0.pdf>.
Disposition: Final disposition: <https://www.ieee802.org/1/files/private/cw-drafts/d2/802-1Qcw-d2-0-dis-v00.pdf>.
28. Toru Osuga presented “Text Contribution for P802.1Qdq”
<https://www.ieee802.org/1/files/public/docs2023/dq-osuga-text-contribution-for-p802-1qdq-0323-v01.pdf>.
Disposition: Presentation discussed. Further discussion needed.
29. Lily Lv presented “Issue to be Considered in SFC”
<https://www.ieee802.org/1/files/public/docs2023/dw-lv-SFC-P-issue-to-be-considerd-0323-v02.pdf>.
Disposition: Presentation discussed. Further discussion needed.
30. Marc Holness, P802f editor, continued the resolution of comments received on <https://www.ieee802.org/1/files/private/802-f-drafts/d2/802f-d2-0.pdf>.
Disposition: Comments 4, 6-8, 10-13, 40, 48 resolved. Partial disposition (uploaded post-session): <https://www.ieee802.org/1/files/private/802-f-drafts/d2/802f-d2-0-pdis-v03.pdf>.

12:30 ET recess

Call to order Mar 17, 2023 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.

31. 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.
32. David McCall presented “802.1ASdm Contribution-New Drift Tracking TLV”
<https://www.ieee802.org/1/files/public/docs2023/dm-McCall-new-TLV-contribution-0323-v01.pdf>.
Disposition: Presentation discussed. Further discussion needed.

10:00 - 10:30 ET recess

33. Geoffrey Garner, P802.1ASdm editor, continued the resolution of comments received on <https://www.ieee802.org/1/files/private/asdm-drafts/d1/802-1ASdm-d1-0.pdf>.
Disposition: Comments 22, 42, 43, 51, 53, 55, 57, 61, 63, 96, 97, 131-135 resolved. Partial disposition: <https://www.ieee802.org/1/files/private/asdm-drafts/d1/802-1ASdm-d1-0-pdis-v02.pdf>.

12:30 ET recess

Call to order Mar 17, 2023 15:40 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.

34. 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.
35. Stephan Kehrer, P802.1Qdj editor, continued the resolution of comments received on <https://www.ieee802.org/1/files/private/dj-drafts/d1/802-1Qdj-d1-0.pdf>.
Disposition: Comments 30, 66, 67, 73 resolved. Final disposition (uploaded post-session): <https://www.ieee802.org/1/files/private/dj-drafts/d1/802-1Qdj-d1-0-dis-v01.pdf>

16:20 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:

- None

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

- Minutes of the IEC/IEEE 60802 Joint Project Time Sync Ad Hoc meeting held 2023-01-27 9:00 - 11:00 ET <https://listserv.ieee.org/cgi-bin/wa?A2=STDS-802-1-MINUTES;a6822f87.23&S=>
- Minutes of the IEC/IEEE 60802 Joint Project Time Sync Ad Hoc meeting held 2022-02-10 9:00 - 11:00 ET <https://listserv.ieee.org/cgi-bin/wa?A2=STDS-802-1-MINUTES;543f4978.23&S=>
- Minutes of the IEC/IEEE 60802 Joint Project Time Sync Ad Hoc meeting held 2022-02-13 9:00 - 11:00 ET <https://listserv.ieee.org/cgi-bin/wa?A2=STDS-802-1-MINUTES;a59c417.23&S=>
- Minutes of the IEC/IEEE 60802 Joint Project Time Sync Ad Hoc meeting held 2022-02-17 9:00 - 11:00 ET <https://listserv.ieee.org/cgi-bin/wa?A2=STDS-802-1-MINUTES;445776b4.23&S=>

See section 1 for attendance and affiliation information.

Call to order Mar 15, 2023 at 16:00 ET by Ludwig Winkel, IEC 65C/WG18 Convenor and IEC/IEEE 60802 Joint Project Chair (60802 Chair), who presided. Josef Dorr, IEC/IEEE 60802 Joint Project Secretary (60802 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”

<https://www.ieee802.org/1/files/public/templates/admin-TG-intro-0323-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 these Calls prior to the end of the session.

The 60802 Chair explained that the IEC/IEEE 60802 Joint Project also follows the usual IEC patent https://www.iec.ch/members_experts/tools/patents/patent_policy.htm and copyright

https://www.iec.ch/standardsdev/resources/draftingpublications/overview/rules_requirements/copyright.htm policies.

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/2023-03-plenary-tsn-agenda/#TSN 8211 IECIEEE 60802](https://1.ieee802.org/2023-03-plenary-tsn-agenda/#TSN_8211_IECIEEE_60802).

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

3. Editor's report. Jordon Woods, IEC/IEEE 60802 Joint Project Editor (60802 Editor), presented "Editor's Report 60802 Draft 2.0"
<https://www.ieee802.org/1/files/public/docs2023/60802-woods-D2-0-update-0123-v02.pdf>.
The next IEC/IEEE 60802 draft <https://www.ieee802.org/1/files/private/60802-drafts/d2/60802-d2-0.pdf> is expected to be the subject of a Working Group ballot after the plenary session. The draft is also to be reviewed by IEC as IEC CD5 (Committee Draft 5) with a review period of 8 weeks. All received comments are to be processed using the common IEEE 802 comment database.

Disposition: For information.

4. Update on Testspec IEC 61802. David McCall reported. Work in the TSN Industrial Automation Conformance Collaboration (TIACC) is progressing. Participation in TIACC is possible via the participating organizations (<https://www.tiacc.net/>).

Disposition: For information.

5. Discrete Event Time Synchronization Simulation. Dragan Obradovic presented and led the discussion on "Discrete-Event Time-Sync Simulation"
<https://www.ieee802.org/1/files/public/docs2023/60802-obradovic-Discrete-Event-Time-Sync-Simulation-v1.pdf>.

The presented simulation can be used to additionally confirm the approach worked out by the Time Sync ad hoc to achieve the 60802 goals for synchronization.

Disposition: For information. Discussion can be continued within the Time Sync ad hoc.

17:45 ET recess

Call to order Mar 16, 2023 at 10:30 ET by Ludwig Winkel, IEC 65C/WG18 Convenor and IEC/IEEE 60802 Joint Project Chair (60802 Chair. Josef Dorr, IEC/IEEE 60802 Joint Project Secretary (60802 Secretary), wrote the minutes.

Agenda items and dispositions:

6. Meeting introduction and other administrative items. The 60802 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.
7. Motions. The 60802 Editor led a discussion on two proposed motions for the plenary session:
 - Approve the Call for Participation in the IEC/IEEE 60802 project,
 - Authorize PAR amendment with YANG specific to 60802 management requirements.

The motions were adapted based on the discussions

<https://www.ieee802.org/1/files/public/minutes/2023-03-closing-plenary-slides.pdf> (slides 98 and 111).

Disposition: For information.

8. Timeline. The 60802 Chair presented an updated timeline for the IEC/IEEE 60802 Joint Project: "IEC/IEEE 60802 timeline update rev 9, 2023-03-15"
<https://www.ieee802.org/1/files/public/docs2023/60802-Winkel-timeline-0323-v9.pdf>.

Disposition: For information.

11:30 ET recess

Call to order Mar 17, 2023 at 14:00 ET 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). Josef Dorr, IEC/IEEE 60802 Joint Project Secretary (60802 Secretary), wrote the minutes.

9. Meeting introduction and other administrative items. The 60802 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.

The 60802 Chair announced that the 60802 electronic meetings on Apr 7, 2023 and Apr 10, 2023 will be cancelled due to Easter holidays in some areas of the world.

10. CNC-CUC Interaction for IEC/IEEE 60802. Nemanja Stamenic presented “CNC-CUC Interaction for IEC/IEEE 60802” <https://www.ieee802.org/1/files/public/docs2023/60802-Stamenic-et-al-CNC-CUC-Interaction-0323-v04.pdf>.

Disposition: More discussion is needed.

11. Applicability of IEEE P802.1DC to IEC/IEEE 60802. Norman Finn presented “Applicability of IEEE P802.1DC to IEC/IEEE 60802”

<https://www.ieee802.org/1/files/public/docs2023/60802-finn-802-1DC-applicability-0323-v01.pdf>.

Disposition: For information. The discussion can be continued during the IEC/IEEE 60802 electronic meeting on Mar 27, 2023.

12. Review of minutes. The minutes were reviewed under the lead of the 60802 Chair.

13. Geoffrey Garner, P802.1ASdm editor, continued the resolution of comments received on <https://www.ieee802.org/1/files/private/asdm-drafts/d1/802-1ASdm-d1-0.pdf>.

Disposition: Partial disposition: <https://www.ieee802.org/1/files/private/asdm-drafts/d1/802-1ASdm-d1-0-pdis-v02.pdf>.

15:40 ET 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 2023-02-01 10:00 - 12:02 ET, <https://listserv.ieee.org/cgi-bin/wa?A2=STDS-802-1-MINUTES;220925b1.23&S=>
- Minutes of the IEEE P802.1DP/SAE AS6675 meeting held 2022-02-15 10:00 - 12:00 ET, <https://listserv.ieee.org/cgi-bin/wa?A2=STDS-802-1-MINUTES;49e5e06.23&S=>

See section 1 for attendance and affiliation information.

Call to order March 16, 2023 at 8:01 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. Marina Gutiérrez, IEEE P802.1DP/SAE AS6675 Secretary, wrote the minutes.

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>.

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, 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.

János Farkas, IEEE P802.1DP/SAE AS6675 co-Chair, explained that the IEEE P802.1DP/SAE AS6675 Joint Project also follows the usual SAE IP and copyright <https://www.sae.org/about/legal-policies/intellectual-property> policies.

2. Approval of agenda. János Farkas, IEEE P802.1DP/SAE AS6675 co-Chair, presented the agenda in <https://1.ieee802.org/2023-03-plenary-tsn-agenda/#TSN-5>.

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

3. Abdul Jabbar, IEEE 802.1DP/SAE AS6675 editor, presented Editor's Draft <https://www.ieee802.org/1/files/private/dp-drafts/d0/802-1DP-d0-1.pdf>.

Disposition: Presentation was discussed. Anticipated next: TG ballot.

4. Abdul Jabbar, IEEE 802.1DP/SAE AS6675 editor, presented "End Station YANG" <https://www.ieee802.org/1/files/public/docs2023/dp-jabbar-end-station-YANG-modules-0323-v01.pdf>.

- During the discussion the following presentation was showed: <https://www.ieee802.org/1/files/public/docs2020/cw-gutierrez-comment14remedy-1120-v01.pdf>

Disposition: Presentation was discussed. More discussion is needed.

5. Abdul Jabbar, IEEE 802.1DP/SAE AS6675 editor, presented "Time Sync for Aerospace - Continued..." <https://www.ieee802.org/1/files/public/docs2023/dp-jabbar-time-sync-continued-0323-v01.pdf>.

Disposition: Presentation was discussed. More discussion is needed.

9:07 ET recess

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 2023-02-02 11:00-13:00 ET
<https://listserv.ieee.org/cgi-bin/wa?A2=STDS-802-1-MINUTES;3188a547.23>
- Minutes of the Nendica meeting held 2023-02-16 11:00-13:00 ET
<https://listserv.ieee.org/cgi-bin/wa?A2=STDS-802-1-MINUTES;711f621f.23>
- Minutes of the Nendica meeting held 2023-03-02 11:00-13:00 ET
<https://listserv.ieee.org/cgi-bin/wa?A2=STDS-802-1-MINUTES;e3e4d3ca.23>
- Minutes of the Nendica meeting held 2023-03-09 11:00-13:00 ET
<https://listserv.ieee.org/cgi-bin/wa?A2=STDS-802-1-MINUTES;ed0f0488.23>

See section 1 for attendance and affiliation information.

Call to order March 14, 2022 19:30 ET by Roger Marks, who presided and wrote the minutes. 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-prePAR-intro-0721-v01.pdf>. The Nendica Chair showed this presentation advising that the following applies:
 - 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 Nendica 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 Nendica Chair reviewed the new content of the Nendica Mentor Server and reviewed the draft agenda.
Disposition: The meeting agenda was agreed (informally, none dissenting) as <https://1.ieee802.org/802-nendica-agenda-2023-03-14/>.
3. CTF Study Item. Johannes Specht presented “CTF comments from other WGs” (Rev. 0) https://mentor.ieee.org/802.1/documents?is_group=ICne&is_year=2023&is_dcn=0002 proposing responses to comments received (from the 802.3 and 802.11 Working Groups) on the P802.1DU PAR and CSD.
Disposition: Revisions to the proposed responses were developed as an aid to the TSN Task Group. A revised document would be posted and brought to the TSN TG for finalization the following day.
4. Future Meetings. The Chair noted that the draft agenda of the Nendica meeting of March 16, 2023 08:00-10:00 ET <https://1.ieee802.org/802-nendica-agenda-2023-03-16> is available.
5. Any Other Business. No other business was discussed by Nendica in this meeting.

21:12 ET recess

Call to order March 16, 2023 08:00 ET by Roger Marks, Nendica Chair, who presided and wrote the minutes.

Agenda items and dispositions:

6. 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-prePAR-intro-0721-v01.pdf>. The Nendica Chair showed this presentation advising that the following applies:
 - 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 Nendica 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.
7. Approval of agenda. The Nendica Chair presented the draft agenda.
Disposition: The agenda was reviewed and agreed (informally, none dissenting) as <https://1.ieee802.org/802-nendica-agenda-2023-03-16/>.
8. Minutes. The Nendica Chair reviewed the draft “Minutes of the Nendica meeting held 2023-03-09 09:00-11:00 ET” <https://listserv.ieee.org/cgi-bin/wa?A2=STDS-802-1-MINUTES;ed0f0488.23>.
Disposition: It was agreed (informally, none dissenting) to approve the minutes.
9. Update. No discussion.
10. Nendica renewal. The Nendica Chair noted that Nendica’s authorizing ICAID expires in September 2023. He proposed a schedule toward renewal, based on the IEEE 802.1 Working Group, on Mar 17, 2023, authorizing Nendica to develop a renewal ICAID for submission to the LMSC by Jun 9, 2023 for consideration at the July 2023 LMSC Plenary Session. No objections were raised.
11. CTF Study Item. It was noted that the TSN Task Group had finalized the P802.1DU PAR and CSD responses and that the 802.1 Working Group Chair had distributed those for LMSC review and a Friday vote.
12. CPF12 Study Item. It was noted that there are no relevant contributions at this session and that the Study Item Leader may propose to terminate the Study Item during a future Nendica meeting.
13. ELLA Study Item. No discussion.
14. Vetting and New Topics. Konstantinos Alexandris presented “Extensions on the TSN UNI traffic specification” (Rev. 3) https://mentor.ieee.org/802.1/documents?is_group=ICne&is_year=2023&is_dcn=0001. This was discussed at length.
Disposition: It was suggested that the contributors provide a list of subclauses and tables that they consider require update. An updated contribution is anticipated at the March 30 Nendica meeting.
15. Nendica organization. Nendica discussed a proposed motion on Nendica ICAID renewal. Based on discussion, the draft motion was revised and agreed.
Disposition: It was agreed (informally, none dissenting) to bring a motion to the 802.1 Working Group on Nendica ICAID renewal. “802.1 authorizes Nendica to prepare, during its scheduled meetings, a draft ICAID renewal for presubmission to the July IEEE 802 Plenary”.

Nendica discussed a meeting plan, with a proposal for Nendica to meet biweekly beginning on Mar 30, 2023, with additional ad hoc meetings as necessary.

Disposition: It was agreed (informally, none dissenting) to inform the 802.1 WG of the meeting plan, for approval at the 802.1 closing plenary meeting.

The Nendica Chair presented a draft “Nendica Status Report, November 2022” (Rev. 0 https://mentor.ieee.org/802.1/documents?is_group=ICne&is_year=2023&is_dcn=0003).

Disposition: It was agreed (informally, none dissenting) to approve the draft report recorded in Rev. 1.

16. Future Meetings. The Nendica Chair noted that the draft agenda of the (tentative) next Nendica meeting of Mar 30, 2023 9:00-11:00 ET would be posted at least six days before the scheduled meeting. Those intending a contribution were encouraged to notify the Chair before then.
17. Any Other Business. No other business was discussed by Nendica in this meeting.

09:17 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 2023-01-31 10:00 –10:40 ET <https://listserv.ieee.org/cgi-bin/wa?A2=STDS-802-1-MINUTES;976691b.23&S=>
- Minutes of the YANGsters meeting held 2023-02-14 10:00 –11:00 ET <https://listserv.ieee.org/cgi-bin/wa?A2=STDS-802-1-MINUTES;b21a74e0.23&S=>
- Minutes of the YANGsters meeting held 2023-02-28 10:00 –10:52 ET <https://listserv.ieee.org/cgi-bin/wa?A2=STDS-802-1-MINUTES;cb6403a6.23&S=>

See section 1 for attendance and affiliation information.

Call to order Mar 14, 2022, at 16:02 ET 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 and IEEE SA Copyright and Participation Policies were provided beforehand as part of “MEETING INTRODUCTION” <https://www.ieee802.org/1/files/private/templates/admin-prePAR-intro-0323-v01.pptx>.

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

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/march-2023-plenary-session-atlanta-georgia-usa-yangsters-agenda/>.

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

3. Introduction to YANGsters. The YANGsters Chair introduced YANGsters by presenting

- <https://1.ieee802.org/yangsters/>, and
- <https://1.ieee802.org/yangsters/yangsters-guidelines/yangsters-faq/>.

Disposition: For information.

4. Status. The YANGsters Chair introduced the topic by showing <https://www.ieee802.org/1/files/public/docs2023/yangsters-smansfield-overview-status-0323-v02.pdf>.
- P802.1Qcw update: an update of the YANG modules at <https://github.com/YangModels/yang/tree/main/standard/ieee/draft/802.1/Qcw> is needed
 - P802.1Qcj update: the YANG modules at <https://github.com/YangModels/yang/tree/main/standard/ieee/draft/802.1/Qcj> are up to date
 - P802.1Qdj update: the YANG modules at <https://github.com/YangModels/yang/tree/main/standard/ieee/draft/802.1/Qdj> are up to date
 - P802.1AEdk update: an update of the YANG modules at <https://github.com/YangModels/yang/tree/main/standard/ieee/draft/802.1/AEdk> is needed
 - Review of the YANG status spreadsheet: the spreadsheet information provides an overview of all currently running projects that have YANG content, and the state of the YANG modules they contain.

Disposition: For information.

5. 60802 Question related to port specific features supported by a server. Martin Mittelberger presented "YANG Data Model for IEC/IEEE 60802" <https://www.ieee802.org/1/files/private/60802-drafts/d2/60802-Mittelberger-YANG-Module-0323-v02.pdf> and led the discussion.
- IEC/IEEE 60802 is looking for guidance on use of YANG feature, presence container, and/or mandatory statements.
 - The structure of the YANG Clause in the contribution follows the structure in 802.1AS-2020.
 - There was consensus that the structure looks good.
 - It was pointed out that some elements in the current overview could be better located in the base document they relate to, e.g., maximum number of hot-standby systems in a device "maxHotStandbySystems" could be included in P802.1ASdm.

Disposition: Agreed (informally, none dissenting) that the structure looks good and that a good way forward is to include the contribution in a future IEC/IEEE 60802 draft for review.

6. P802REVc comments. James Gilb, P802REVc editor, presented the topic by showing <https://www.ieee802.org/1/files/private/802-REVc-drafts/d1/802-REVc-d1-0-comments-02.pdf> and led the discussion.
- YANGsters quickly reviewed YANG-related comments on P802REVc.
 - The question was raised if the use of 'model' in the document is correct in several places. It was commented that 'module' would be more appropriate.
 - YANGsters reviewed some of the occurrences and provided feedback on the correct wording.
 - A decision on the wording is expected to be made in P802REVc comment resolution.

Disposition: For information.

7. Update on derived-from-or-self() usage. The YANGsters Chair presented “YANG derived-from-of-self example (updated)”
<https://www.ieee802.org/1/files/public/docs2023/yangsters-smansfield-yang-derived-example-0323-v02.pdf> and led the discussion.
 - An updated example for ‘derived-from-or-self()’ was provided and discussed.**Disposition:** For information
8. Information on the git lifecycle. The YANGsters Chair presented the topic and led the discussion.
 - Information on the lifecycle is provided in “git repo for IEEE 802.1”
<https://www.ieee802.org/1/files/public/docs2023/yangsters-smansfield-git-repo-0123-v01.pdf>
 - The distinction between the terms ‘YANG module’ and ‘YANG model’ was discussed.**Disposition:** For information
9. Information on YANG revision importing. The YANGsters Chair presented the topic and led the discussion.
 - Status of IETF work on revision handling
 - Review of suggested YANG packages for IEEE 802.1 and IEEE 1588**Disposition:** For information
10. Request for next calls. The YANGsters Chair introduced the topic and led the discussion.
 - A poll was conducted prior to the meeting to see if the regular YANGsters electronic meeting should be moved to a time different from the one that was used up to now.
 - It was decided to stay with the current slot, Tuesday 10:00-11:00 ET, every other week.
 - A motion is planned for the 802.1 closing plenary meeting to request the continuation of the YANGsters electronic meetings every two weeks. In addition, the motion is planned to allow for additional electronic meetings, as needed.
 - If the motion passes, YANGsters’ next electronic meeting will be Apr 11, 2023.
 - Information on YANGsters electronic meetings can be found at
<https://1.ieee802.org/yangsters/yangsters-call-information/>.
11. Any Other Business. No other business was discussed.

17:39 ET recess

Call to order Mar 15, 2022, at 13:30 ET 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:

12. Meeting introduction. The YANGsters Vice-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.
13. Approval of agenda. The YANGsters Chair presented the agenda in
<https://1.ieee802.org/march-2023-plenary-session-atlanta-georgia-usa-yangsters-session-2-802-1-802-3-agenda/>.
Disposition: The agenda was reviewed, discussed, agreed (informally, none dissenting) as presented

14. Introduction to YANGsters. The YANGsters Chair introduced YANGsters by presenting
- <https://1.ieee802.org/yangsters/>, and
 - <https://1.ieee802.org/yangsters/yangsters-guidelines/yangsters-faq/>.

Disposition: For information.

15. Introduction and discussion of the YANG related 802.3 PARs. David Law, IEEE 802.3 Chair, introduced the topic by presenting “IEEE 802.3 Clause 30 management, MIB, definitions for Ethernet, registers and function” <https://www.ieee802.org/1/files/public/docs2023/new-yangsters-law-IEEE-802d3-management-0323-v02.pdf> and led the discussion.

- IEEE 802.3 has a protocol-independent management clause: clause 30.
- In addition, there are protocol-specific management modules, e.g., MIBs, that reference the protocol-independent management clause.
- Typically, managed objects in IEEE 802.3 are related to hardware support.
- GDMO is available but is now deprecated.
- SNMP MIBs are maintained in IEEE 802.3.1.
- YANG modules are maintained in IEEE 802.3.2.

Disposition: For information.

16. IEEE 60802 priority list related to missing 802.3 YANG. Martin Mittelberger and Ludwig Winkel introduced the topic by presenting “Missing YANG Objects in 802.3 for LLDP Extension” <https://www.ieee802.org/1/files/public/docs2023/yangsters-mittelberger-dot3-missing-objects-0323-v01.pdf> and led the discussion.

- IEC/IEEE 60802 was introduced.
- In IEC/IEEE 60802, missing YANG modules have been identified that are required for a common management approach in industrial automation.
 - The managed objects themselves are available, but no YANG modules exist to access them in a uniform way.
- It was stated that if YANG modules are missing and 802.1 participants knowledgeable in YANG are willing to provide them, IEEE 802.3 is happy to provide the necessary project to specify them.
- For managed objects that have already been identified as missing, it was suggested that the preferred way to specify them would be to submit contributions for the IEEE 802.3.2 revision that is currently open.

Disposition: Agreed (informally, none dissenting) that this topic should be discussed in an upcoming YANGsters electronic meeting to try to gauge the amount of work that imposes. It was also suggested that the same YANGsters electronic meeting should be used for IEEE 802.3 and IEEE 802.1 participants who are interested in doing the work to synchronize.

17. MAC Address maintenance items in IEEE 802.1 and IEEE 802.3. The YANGsters Chair presented “MAC Address Format Summary and Suggestion Updated Presentation” <https://www.ieee802.org/1/files/public/docs2023/yangsters-smansfield-mac-address-0323-v01.pdf> and led the discussion.

- The topic of the different MAC address formats was described.
- It was pointed out that the issue is not different MAC address formats but actually different formats for the representation of MAC addresses.
- The preferred approach to the issue would be to try and get YANG enhanced in a way that it allows the comparison of the underlying binary value. This would solve the problem of the different representations not being able to be compared in a way that allows for different representations of the same underlying values to be evaluated to be equal.

Disposition: Agreed (informally, none dissenting) that more discussion on the topic is needed.

18. Request for next calls. The YANGsters Chair introduced the topic and led the discussion.
 - If the motion for future electronic meetings during the IEEE 802.1 closing plenary meeting passes, YANGsters' next electronic meeting will be Apr 11, 2023.
 - Information on YANGsters electronic meetings can be found at <https://1.ieee802.org/yangsters/yangsters-call-information/>.
19. Any Other Business. No other business was discussed.

14:52 ET adjournment

10 Closing Plenary Meeting

See section 1 for attendance and affiliation information.

Call to order Mar 16, 2022 at 13:32 ET by the Chair who presided. The Recording Secretary wrote the minutes.

The Chair presented “Closing Plenary March 2023” finalized as <https://www.ieee802.org/1/files/public/minutes/2023-03-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 (slide 4), audio guidelines for in-person attendees (slide 5), electronic meeting guidelines supporting mixed mode (slide 6), meeting decorum, including the policies on public reporting, and on photography or recording (slide 7), 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 8).
- Reminded participants of their obligation to declare affiliation(s) which includes employer(s) (slide 9).
- Announced that this closing plenary meeting remains subject to the IEEE SA Copyright Policies (slides 10 to 12), IEEE Patent Policy (slides 13 to 17) and IEEE SA Participation policies (slides 18 to 20) made available beforehand (as announced in the opening plenary meeting – see section 3) and 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.
- Reminded participants of the various plenary session registration fees applying and attendant registration details (slide 21).
- Provided general information regarding meeting contributions, minutes, schedule for all Working Groups, website (slide 22).
- Showed 802.1 officers and leadership (slide 23) and recognized the editors of current projects (slide 24).
- Reminded participants and 802.1 voting members of obligations regarding 802.1 voting membership and how voting membership may be requested and retained (slide 25).

- 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 26).
- Reviewed the list of 802.1 voting members (slide 27), including information about individuals who gained (slide 28), may gain (slide 29), will lose (slide 30), or could lose (slide 31) 802.1 voting membership.
- Reminded individual participants of 802.11 reciprocal credit, which was continued at this session (slide 32).
- Asked Stephan Kehrer, the 802.1 Executive Secretary, to summarize information about upcoming sessions, starting with the May (slide 33) and Sep (slide 34) 2023 interim sessions, and continuing with the schedule for future interim (slide 35) and plenary (slide 36) sessions, which remained unchanged from the opening plenary meeting, except for the following:
 - Delisting of the Sep 2023 option to meet in Atlanta, GA, USA although the Chair noted the 802 wireless group maintains their invitation for 802.1 to join their interim sessions, space permitting.
 - January 2024
 - Tentative offer by NEC Labs Europe GmbH to host in Heidelberg, Germany. Details are currently being investigated and will be provided, once available.
 - September 2024
 - Discussions to join IEEE 802.3 are ongoing, but no information available, yet.
- Conducted the following straw polls regarding future interim sessions (slide 37):
 - 1. Would you like to come back to this venue?
 - Yes 26
 - No 21
 - Did not respond 19
 - 2. Did you go to the social?
 - Yes 32
 - No 20
 - Did not respond 15
 - 3. Did you like the social?
 - Yes 33
 - No 0
 - Did not respond 34
- Provided the anticipation of next actions with respect to projects in the WG's current workload (slide 38).
- Showed the schedule of 802.1 meetings at this plenary session (slide 39) and the list of upcoming 802.1 leadership meetings (slide 40).
- Requested that the subgroup Chairs provide reports on the activities of their subgroups during this plenary session (slide 41) (see individual subgroup minutes above for details):
 - The Maintenance TG Chair presented the report on slides 42-43.
 - The Security TG Chair presented the report on slide 44.
 - The TSN TG Chair, the IEC/IEEE 60802 Joint Project Chair, and the TSN TG Vice-Chair presented the report on slide 45.
 - The Nendica Chair presented the report on slides 46-48.
 - The YANGsters Vice-Chairs presented for the YANGsters Chair the YANGsters report on slides 49-50.
- Summarized the various types of IEEE Awards encouraging nominations (slide 51).

- Discussed promotion of the work of the WG (slide 52) and in so doing:
 - Recognized Mark Hantel, Norman Finn and János Farkas for their contributions to the TSN feature topic in the Dec 2022 issue of IEEE Communications Standards Magazine.
 - Noted a draft Call For Participation (CFP) had been prepared for the IEC/IEEE 60802 Joint Project, and had it introduced by the TSN TG Chair.
- Had Karen Randall, Liaison Secretary, summarize liaison resources (slide 53) and the set of new and previously-received (slide 54) incoming liaisons, and had (slide 55):
 - The TSN TG Chair lead the final review of draft liaison responses prepared and reviewed in the TSN TG during this plenary session.
 - The Liaison Secretary lead the final review of draft liaison responses prepared and reviewed in the Maintenance TG (including jointly with the RAC Chair), and in the Security TG.
- Following 15:20 – 15:50 ET recess, pointed out the 802 PARs, CSDs, PAR modifications (slide 56) that are up for vote or finalization during this IEEE 802 plenary session.
 - Rebuttals from other WGs on P802.1Qdx and P802.1DU were discussed. Agreed (informally, none dissenting) that the requests in these rebuttals were editorial in nature and did not warrant further updates of the corresponding PARs.
- Noted other 802 PARs this session (slide 57) and that 802.1 responses to the 802.15.4 PAR and CSD were accepted.
- Provided guidance on using DirectVoteLive to vote on motions (slide 58).
- Showed the 802.1 consent agenda items for the LMSC closing plenary meeting (slides 59-61) noting that sending P802.1ASdr to Standards Association ballot could be handled at the next opportunity.
- Conducted votes on the following motions (slides 62-111) that all passed unless indicated otherwise. (Supporting information is available in “Closing Plenary March 2023” finalized as <https://www.ieee802.org/1/files/public/minutes/2023-03-closing-plenary-slides.pdf>.)

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

- Motion
 - Approve forwarding P802.1ASdm PAR modification documentation in <https://www.ieee802.org/1/files/public/docs2023/dm-PAR-modification-0323-v01.pdf> to NesCom
 - Approve CSD modification documentation in <https://www.ieee802.org/1/files/public/docs2023/dm-CSD-modification-0323-v01.pdf>
 - In the WG, Proposed: David McCall, Second: Ludwig Winkel
 - PAR (y/n/a): 44, 0, 2
 - CSD (y/n/a): 42, 0, 3

- Motion
 - Approve forwarding P802.1Qdt PAR modification documentation in <https://www.ieee802.org/1/files/public/docs2023/dt-PAR-modification-0323-v01.pdf> to NesCom
 - Approve CSD modification documentation in <https://www.ieee802.org/1/files/public/docs2023/dt-CSD-modification-0323-v01.pdf>
 - In the WG, Proposed: Paul Congdon, Second: János Farkas
 - PAR (y/n/a): 40, 2, 7
 - CSD (y/n/a): 40, 2, 7
- Motion
 - Approve forwarding P802.1Qdx PAR documentation in <https://www.ieee802.org/1/files/public/docs2023/dx-PAR-0323-v01.pdf> to NesCom
 - Approve CSD documentation in <https://www.ieee802.org/1/files/public/docs2023/dx-CSD-0323-v01.pdf>
 - In the WG, Proposed: Jordon Woods, Second: János Farkas
 - PAR (y/n/a): 42, 1, 7
 - CSD (y/n/a): 41, 1, 7
- Motion
 - Approve forwarding P802.1DU PAR documentation in <https://www.ieee802.org/1/files/public/docs2023/du-PAR-0323-v01.pdf> to NesCom
 - Approve CSD documentation in <https://www.ieee802.org/1/files/public/docs2023/du-CSD-0323-v01.pdf>
 - In the WG, Proposed: Johannes Specht, Second: Paul Congdon
 - PAR (y/n/a): 38, 6, 6
 - CSD (y/n/a): 37, 4, 8
- Motion
 - Approve forwarding P802.1CS-2020/Cor1 PAR modification documentation in <https://www.ieee802.org/1/files/public/docs2023/cs-2020-cor1-PAR-modification-0323-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: Paul Congdon, Second: Stephan Kehrer
 - PAR (y/n/a): 42, 0, 7
- Motion
 - Approve forwarding P802.1Q-2022-Rev PAR documentation in <https://www.ieee802.org/1/files/public/docs2023/q-rev-draft-PAR-0323-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: Mick Seaman Second: Paul Congdon
 - Sending draft (y/n/a): 45, 0, 4
- Motion
 - Approve forwarding P802.1AS-2020-Rev PAR documentation in <https://www.ieee802.org/1/files/public/docs2023/as2020-rev-PAR-0323-v02.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: Geoff Garner Second: Paul Congdon
 - Sending draft (y/n/a): 48, 0, 1

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

- Motion
 - Conditionally approve sending P802.1CS-2020/Cor1 D2.0 to Standards Association ballot
 - Note: there is no CSD statement since this maintenance project is not intended to provide any new functionality
 - P802.1CS-2020/Cor1 had 97% approval at the end of the last Working Group Recirculation ballot
 - In the WG, Proposed: Paul Congdon Second: János Farkas (y/n/a): 44, 0, 5
- The Chair noted that starting SA ballot for P802.1CS-2020/Cor1 depends on NesCom first approving the P802.1CS-2020/Cor1 PAR modification.

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

- Motion
 - Approve sending P802.1Qcz to RevCom
 - Approve CSD documentation in <https://mentor.ieee.org/802-ec/dcn/18/ec-18-0160-00-ACSD-802-1qcz.pdf>
 - P802.1Qcz D2.7 had 100% approval at the end of the last SA ballot
 - In the WG, Proposed: Paul Congdon Second: János Farkas
 - Sending draft (y/n/a): 40, 1, 7
 - CSD (y/n/a): 38, 0, 9
- Motion
 - Approve sending P802.1AEdk to RevCom
 - Approve CSD documentation in <https://mentor.ieee.org/802-ec/dcn/19/ec-19-0218-00-ACSD-p802-1aedk.pdf>
 - P802.1AEdk/D2.2 had 97% approval at the end of the last Standards Association recirculation ballot
 - In the WG, Proposed: Mick Seaman, Second: Don Fedyk
 - Sending draft (y/n/a): 42, 0, 8
 - CSD (y/n/a): 42, 0, 8

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

- Motion
 - Approve submission of the following draft(s) to ISO/IEC JTC1/SC6 for information under the PSDO agreement, once SA balloting begins.
 - IEEE P802.1CS-2020/Cor1
 - In the WG, Proposed: Paul Congdon Second: Karen Randall
 - Sending draft (y/n/a): 40, 1, 6

- Motion
 - Approve submission of the following draft(s) to ISO/IEC JTC1/SC6 for adoption under the PSDO agreement, once approved and published.
 - IEEE P802.1AEdk
 - In the WG, Proposed: Paul Congdon Second: Karen Randall
 - Sending draft (y/n/a): 41, 1, 8

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

- Motion
 - Approve <https://www.ieee802.org/1/files/public/docs2023/liaison-response-itu-t-sg15-otnt-swp-0323.pdf> as communication to ITU-T SG15 on LS15: OTNT Standardization Work Plan Issue 31, granting the IEEE 802.1 WG chair (or his delegate) editorial license.
 - This approval is under LMSC OM “IEEE 802 LMSC subgroup public statements to government bodies”
 - In the WG, Proposed: Paul Congdon Second: Karen Randall
 - Sending draft (y/n/a): 40, 1, 5
- Motion
 - Approve <https://www.ieee802.org/1/files/public/docs2023/liaison-response-itu-t-SG13-DeterminCommunicSvcsandNetworking-0323.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 “IEEE 802 LMSC subgroup public statements to government bodies”
 - In the WG (y/n/a): 42, 1, 5
 - Proposed: János Farkas, Second: Karen Randall
- Motion
 - Approve <https://www.ieee802.org/1/files/public/docs2023/liaison-IETF-RFC7042bis-0323.pdf> as communication to IETF regarding review of <https://datatracker.ietf.org/doc/draft-eastlake-rfc7042bis/09/>, granting the IEEE 802.1 WG chair (or his delegate) editorial license and incorporation of additional RAC approved comments.
 - This approval is under LMSC OM “IEEE 802 LMSC subgroup public statements to government bodies”
 - In the WG, Proposed: Paul Congdon Second: Karen Randall
 - Sending draft (y/n/a): 40, 1, 5
- Motion
 - Approve <https://www.ieee802.org/1/files/public/docs2023/liaison-response-LNI40-WhitepaperandIEEESAlogorequest-0323.pdf> as communication to LNI 4.0, granting the IEEE 802.1 WG chair (or his delegate) editorial license.
 - This approval is under LMSC OM “IEEE 802 LMSC subgroup public statements to government bodies”
 - In the WG, Proposed: János Farkas Second: Karen Randall
 - (y/n/a): 40, 2, 5
- Motion
 - Approve <https://www.ieee802.org/1/files/public/docs2023/liaison-response-80211-TSNsupport-0323.pdf> as communication to the IEEE 802.11 WG, granting the IEEE 802.1 WG chair (or his delegate) editorial license.
 - This approval is under LMSC OM “IEEE 802 LMSC subgroup public statements to government bodies”
 - Proposed: János Farkas
 - Second: Karen Randall
 - In the WG (y/n/a): 43, 2, 3

- Motion
 - Approve <https://www.ieee802.org/1/files/public/docs2023/liaison-response-BBF-1XandYANG-0323.pdf> as communication to BBF, granting the IEEE 802.1 WG chair (or his delegate) editorial license.
 - Proposed: Mick Seaman
 - Second: Karen Randall
 - In the WG (y/n/a): 41, 1, 7

**802.1 Motions for LMSC agenda
Liaisons and external communications (ME)**

- Motion
 - Approve the Call for Participation in the IEC/IEEE 60802 project in <https://www.ieee802.org/1/files/public/docs2023/60802-draft-cfp-0323-v01.pdf> for release by IEEE SA, granting the IEEE 802.1 WG chair (or his delegate) editorial license.
 - In the WG (y/n/a): 42, 2, 6
 - Proposed: Jordon Woods, Second: Ludwig Winkel

**Administrative
WG Motions**

- Motion
 - 802.1 approves the November 2022 (plenary) and January 2023 (interim) session minutes:
 - <https://www.ieee802.org/1/files/public/minutes/2022-11-minutes.pdf>
 - <https://www.ieee802.org/1/files/public/minutes/2023-01-minutes.pdf>
 - Proposed: Jessy Rouyer
 - Seconded: János Farkas
 - Approved by acclamation
- Motion
 - 802.1 approves to hold an 802.1 interim session Sep 11-15, 2023 in Niskayuna (Albany), NY, USA, hosted by General Electric as in-person meeting with provisions to support mixed mode.
 - Proposal in <https://www.ieee802.org/1/files/public/docs2023/admin-jabbar-sep-2023-interim-proposal-0323-v01.pdf>
 - Proposed: Stephan Kehrer Seconded: Ludwig Winkel
 - Yes: 40 No: 5 Abstain: 5
- 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
 - In the WG (y/n/a): 45, 2, 0

Future meetings table

Subgroup	Topic	Date	Time	Recurrence	Date announcements	Agenda (days prior)	Agenda	Access Information
YANGsters	per agenda	Tue 2023/04/11	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 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	P802REvc	as announced			10 days	10 days	802.1 Minutes email list 802 Architecture list	https://1.ieee802.org/category/maintenance-tg-agenda/
Security TG	progress P802.1AEdk, 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 2023/07/10	8:00 - 10:00 ET	none	motion	14 days	https://1.ieee802.org/category/tsn-tg-agenda/	https://1.ieee802.org/meetings/
TSN TG	progress IEC/IEEE 60802 Joint Project and other TSN TG work	Fri 2023/07/14	8:00 - 17:00 ET	none	motion	14 days	https://1.ieee802.org/category/tsn-tg-agenda/	https://1.ieee802.org/meetings/
TSN TG	per agenda	Mon 2023/03/20	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 2023/03/20	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 2023/03/24	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 2023/04/04	9:00 - 11:00 ET	every two weeks	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 2023/03/29	10:00 - 12:00 ET	every two weeks	motion	5 days	802.1 Minutes email list	http://www.ieee802.org/1/tsn
TSN TG	discuss common TSN for converged networks	Tue 2023/05/09	9:00 - 11:00 ET	none	motion	10 days	802.1 Minutes email list	http://www.ieee802.org/1/tsn
Nendica	per agenda	Thu 2023/03/30	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**

- Motion
 - 802.1 authorizes Nendica to prepare, during its scheduled meetings, a draft ICAID renewal for pre-submission to the July IEEE 802 Plenary.
 - Proposed: Johannes Specht
 - Second: Nader Zein
 - In the WG (y/n/a): 36, 4, 6

**YANGsters
WG Motions**

**Maintenance TG
WG Motions**

**Security TG
WG Motions**

TSN TG WG Motions

- Motion
 - 802.1 authorizes the TSN TG to generate PAR and CSD at the May 2023 interim session for pre-circulation to the EC for an amendment to IEEE 802.1Q on YANG for the Multiple Spanning Tree Protocol
 - Proposed: Josef Dorr
 - Second: János Farkas
 - In the WG (y/n/a): 40, 1, 5
- Motion
 - 802.1 authorizes the TSN TG to modify the PAR of the IEC/IEEE 60802 Time-Sensitive Networking Profile for Industrial Automation Joint Project with YANG specific to the 60802 management requirements at the May 2023 interim session for pre-circulation to the EC.
 - Proposed: Ludwig Winkel
 - Second: Jordon Woods
 - In the WG (y/n/a): 35, 2, 15
- Called for Any Other Business (slide 112).
 - 802.1 feedback has been provided to 802.11 regarding future meetings.
 - The Chair had the Executive Secretary provide background information about Warsaw, Poland as a potential venue for the May 2024 interim session.
 - Motion
 - 802.1 approves to hold an 802.1 interim session May 13-17, 2024 in Warsaw, Poland hosted by 802 Wireless as in-person session.
 - Proposed: Norman Finn Seconded: Stephan Kehrer
 - Yes: 34 No: 6 Abstain: 6
 - The Chair thanked participants who attended in person for it greatly facilitated the resolution of difficult issues. He also thanked remote participants for attending at potentially inconvenient hours.
 - No other business was discussed in this meeting.

16:45 ET adjournment

11 Next Session

May 15-19, 2023 mixed mode interim session in Helsinki, Finland.