

2 802.1 Officers and Management

Glenn Parsons	Working Group Chair
John Messenger	Working Group Vice-Chair
Jessy Rouyer	Working Group Recording Secretary
Paul Congdon	Maintenance Task Group Chair
Mick Seaman	Security Task Group Chair
Karen Randall	Security Task Group Vice-Chair Working Group Liaison Secretary
János Farkas	Time-Sensitive Networking Task Group Chair
Craig Gunther	Time-Sensitive Networking Task Group Vice-Chair
Marina Gutiérrez	Time-Sensitive Networking Task Group Secretary
Ludwig Winkel	IEC/IEEE 60802 Joint Project Chair
Mark Hantel	IEC/IEEE 60802 Joint Project System Specification Ad Hoc Chair IEC/IEEE 60802 Joint Project Website Maintenance Working Group Email Maintenance
Josef Dorr	IEC/IEEE 60802 Joint Project Secretary
Roger Marks	IEEE 802 Nendica Chair
Scott Mansfield	IEEE 802 YANGsters Chair
Stephan Kehrer	IEEE 802 YANGsters Vice-Chair IEEE 802 YANGsters Secretary Working Group Executive Secretary
Paul Unbehagen	Working Group Website Maintenance
Hal Keen	Working Group Email Maintenance

3 Opening Plenary Meeting

Call to order July 13, 2020 at 9:00 AM EDT by the Chair who presided. The Recording Secretary wrote the minutes.

The table in section 1 reflects the attendance and affiliation of participants who registered their attendance in IMAT.

The Chair presented the *Opening Plenary July 2020* slides finalized as <http://www.ieee802.org/1/files/public/minutes/2020-07-opening-plenary-slides.pdf>.

During this presentation, the Chair:

- Introduced the agendas on slide 2 that were approved.
- Presented slide 3 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 4 and 5.

- Showed slides 6 through 10 (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 (and subgroup Chairs);
 - Participants have a duty to inform the IEEE;
 - Ways to inform IEEE;
 - Other guidelines for IEEE WG 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 11 through 13 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 (slide 11);
 - Participants in the IEEE-SA "individual process" shall act independently of others, including employers (slide 12); and
 - IEEE-SA standards activities shall allow the fair & equitable consideration of all viewpoints (slide 13).
- Reviewed meeting decorum, including the policies on public reporting, and on photography or recording (slide 14);
 - The Chair called for any members of the press (i.e., anyone reporting publicly on this meeting) to announce their presence.
 - There were no responses to the call.
- Asked participants to register attendance in IMAT (slide 15).
- Provided electronic meeting guidelines (slide 16).
- Made subgroup announcements (slide 17) thereby reminding subgroup Chairs of their obligation to remind participant that meeting introduction information (as announced in this opening plenary meeting) was made available before subgroup meetings and, in the case of a Task Group (TG), to make the "Call for Potentially Essential Patents".
- Provided general information regarding meeting contributions, minutes, schedule for all Working Groups, website (slide 18).
- Introduced 802.1 officers and leadership (slide 19) announcing the appointment of:
 - Stephan Kehrer as Executive Secretary; and
 - Karen Randall as Liaison Secretary.
- Reminded 802.1 voting members of their obligations regarding affiliation declaration (slide 20), voting membership (slide 21), and responding to WG ballots and E-Polls, as well as regarding the consequences of not responding to WG ballots and E-Polls (slide 22).

- Reviewed the list of 802.1 voters (slide 23), including information about individuals who may gain (slides 24 and 25), will lose (slide 26), may lose (slide 27) 802.1 voting membership.
- Reminded individual participants of 802.11 reciprocal credit, which was continued at this meeting (slide 28).
- Reviewed the schedule for future interim sessions (slide 29):
 - September 21-25, 2020
 - Changed to electronic due to COVID-19
 - January 2021
 - Changed to electronic due to COVID-19
 - May 3-7, 2021 in Santa Fe, NM, USA
 - Jordon Woods presented “IEEE 802.1 Interim Meeting Proposal”
<http://www.ieee802.org/1/files/public/docs2020/admin-woods-May2021-interim-proposal-0720-v01.pdf>.
 - September 20-24, 2021 in Stuttgart, Germany
 - Stephan Kehrer summarized the corresponding proposal.
 - 2022 proposals welcome
- Reviewed the schedule for future plenary sessions (slide 30):
 - November 8-13, 2020 in Bangkok, Thailand
 - Cancelled and changed to electronic due to COVID-19
 - March 14-19, 2021 in Denver, CO, USA
 - July 11-16, 2021 in Madrid, Spain (to be confirmed)
 - November 14-19, 2021 in Vancouver, BC, Canada
 - March 13-18, 2022 in Orlando, FL, USA
 - July 10-15, 2022 in Montreal, QC, Canada
 - November 13-18, 2022 in Bangkok, Thailand (to be confirmed)
- Provided information about LMSC elections at this plenary session (slide 31), LMSC election candidates (slide 32), and thanked John Messenger for his 2014-2020 service as 802.1 Vice-Chair (slide 33).
- Reported the following items out of the 802 Executive Committee (EC) plenary session #124 (electronic plenary session #1) (slide 34):
 - 802 Task Force - Aug 17 2-3pm
 - Agenda: Remote tools, Mentor & FrameMaker licenses
 - Rules (P&P, OM & WG) changes (EC-20-132)
 - COVID-19 variations, wireless coexistence
 - Infrastructure in CSD
 - Treasurer (EC-20-131)
 - Reserves \$1.2m as expected with planned \$300k loss in 2019.
 - Loss only \$100k for 2020 so far...
 - Per session late cancellation penalties for rest of 2020 and all 2021 would be \$1m
 - Venues
 - All 2020 venues cancelled, November logistics TBD
 - Future session planning adhoc created
 - 2021 venue cancellation to be decided in November
 - For 2021, do we cancel per session or all at once?
 - Do we charge for electronic sessions?
 - Post COVID-19, do we still need 3 plenary sessions and 3 interim sessions per year?
- Reviewed the list of 802 EC meetings to be held during this plenary session (slide 35).

- Provided information about public review (slide 36) and about the following email ballots (ePolls) since the last plenary session (slide 37):
 - [March WG motions](#)
 - ePolls 17, 29-37
 - [March EC motions](#)
 - ePolls 18-28
 - [April WG motions](#)
 - ePolls 39-41
 - [May EC motions](#)
 - ePolls 42-43
 - [June EC motions](#)
 - ePolls 44-46
 - Topprogress work items without an in-person 802.1 session, since the last plenary session (November 2019) a series of 10-day electronic ballots using ePoll were conducted
 - <https://mentor.ieee.org/802.1/polls>
- Pointed out PARs, PAR extensions, CSDs and endorsement letter & ICAID up for vote during this IEEE 802 plenary session (slide 38).
- Reviewed the list of liaisons incoming to 802.1 to be handled by the TSN TG and Maintenance TG (slide 39), indicating all outgoing liaisons with draft sharing have been sent and a new liaison tracking web page is in development.
- Discussed promotion of the work of the WG (slide 40).
- Presented WG Chair Awards offered to leadership, editors and significant contributors after publication (slide 41).
- Provided the anticipation of next actions with respect to projects in the WG's current workload (slide 42).
- Showed the 802.1 plenary schedule for this session, which was tacitly approved (slide 43).
- Listed 802.1 management meetings (slide 44).
- Requested that subgroup agendas be presented (slide 45):
 - The Maintenance TG Chair, Paul Congdon, presented the agenda on slide 46.
 - The Security TG Chair, Mick Seaman, presented the agenda on slide 47.
 - The TSN TG Chair, János Farkas, and the IEC/IEEE 60802 Joint Project Chair, Ludwig Winkel, presented the agenda on slide 48.
 - The Nendica Chair, Roger Marks, presented the agenda on slide 49.
 - The Chair presented the YANGsters agenda on slide 50.
- Called for Any Other Business (slide 51).
 - No further business was discussed in this meeting.

10:01 AM adjournment

4 Maintenance Task Group

Between this session and the preceding session, the Maintenance TG held the following electronic meetings:

- <http://www.ieee802.org/1/files/public/maint/2020-07-Maintenance-concall-minutes-v01.pdf>
- <http://www.ieee802.org/1/files/public/maint/2020-06-Maintenance-concall-bis-minutes-v01.pdf>
- <http://www.ieee802.org/1/files/public/maint/2020-06-Maintenance-concall-minutes-v01.pdf>

Call to order July 14, 2020 at 2:00 PM EDT by Paul Congdon, IEEE 802.1 Maintenance TG Chair, who presided and wrote the minutes.

The table in section 1 reflects the attendance and affiliation of participants who registered their attendance in IMAT.

Agenda items and dispositions:

1. Meeting introduction. The TG Chair reminded participants that the following information was made available before the meeting:
 - The IEEE SA Copyright Policy slides,
 - The IEEE SA PatCom Patent Slides for Standards Development Meetings,
 - The IEEE SA slides regarding IEEE Codes of Ethics and Conduct, participation in the “individual process”, and dominance,
 - The decorum information, and
 - The reminder for participants to register their attendance in IMATcontained in “MEETING INTRODUCTION”
<http://www.ieee802.org/1/files/public/templates/admin-WG+TG-intro-0720-v01.pdf> thereby providing the information on slides 2 and 5 of this presentation and made the Call for Potentially Essential Patents and there were no responses to this Call prior to the end of the session.
2. Approval of agenda. The TG Chair presented the agenda in <https://1.ieee802.org/maintenance-tg-conference-call-agenda-july-14th-2020/>.
Disposition: the agenda was reviewed, discussed, and agreed (informally, none dissenting) as presented.
3. P802.1Q-Rev status update. John Messenger presented <http://www.ieee802.org/1/files/private/q-rev-drafts/d0/802-1Q-rev-d0-2.pdf>.
Disposition: A motion will be entertained at the closing plenary meeting to commence WG ballots on the P802.1Q-Rev draft. The goal is to submit to RevCom by March 2021 to not block future 802.1Q amendments. This schedule would imply an SA ballot motion needs to pass in November 2020. Possible additional amendments that could be included in P802.1Q-Rev are P802.1Qcx and P802.1Qcr. The WG chair indicated he will request that IEEE staff begin pre-publication edits on P802.1Qcx and P802.1Qcr as soon as possible so they could be easily included in the revision. A project page is being set up to house future drafts and project status.
4. SC6 Status. Karen Randall presented the SC6 Status in <http://www.ieee802.org/1/files/public/docs2020/maint-congdon-concall-bis-0720-v01.pdf>.
Disposition: Agreed (informally, none dissenting) to always send amendments for information, but we may want to evaluate if we will send for adoption when a subsequent base standard revision is imminent. Action item on Karen and the TG Chair to email Jodi Haasz informing her of our preference to not send P802.1Qcx for adoption because it will roll into P802.1Q-Rev soon. The motion for P802.1Qcx should be pulled from the Maintenance TG motions for the closing plenary.
5. SC6 Liaisons. Karen Randall presented the proposed response to FDIS ballot comments on:
 - 802.1Xck-2018 <http://www.ieee802.org/1/files/public/docs2020/maint-randall-SC6CommentResponse1XckFDIS-0720-v01.pdf>
 - 802.1AE-2018 <http://www.ieee802.org/1/files/public/docs2020/maint-randall-SC6CommentResponse1AERevFDIS-0720-v02.pdf>**Disposition:** No changes to the responses were recommended. A motion to submit the responses will be made in the closing plenary.
6. Document vehicle status. The TG Chair presented the status of current documents in progress used as vehicles for resolving maintenance items shown in <http://www.ieee802.org/1/files/public/docs2020/maint-congdon-concall-bis-0720-v01.pdf>.

7. New Maintenance Items. The TG Chair led the discussion on new maintenance items:

- 0271 - Default configuration for bridges that support credit-based shaper
<https://www.802-1.org/items/386>

Disposition: Details for discussion on all items are logged in the IEEE 802.1 maintenance database at <https://www.802-1.org/home> where items progressed at the meeting can be reviewed by selecting 'Meetings'.

8. Any Other Business. No other business was discussed by the Maintenance TG in this session.

9. Future meetings. Agreed (informally, none dissenting) to hold future conference calls to be announced on the 802.1 email exploder with specific dates/times subject to notice of at least 10 days. Next meeting needs to occur prior to the completion of the P802.1Q-Rev WG ballot in order to submit maintenance items as comments.

The Maintenance TG meets next during the September 2020 IEEE 802.1 session.

4:33 PM adjournment

5 Security Task Group

Between this session and the preceding session, the IEC/IEEE 60802 Joint Project held the following electronic meetings:

- None

The table in section 1 reflects the attendance and affiliation of participants who registered their attendance in IMAT. The following list reflects the attendance and affiliation of participants as recorded by the TG Chair:

Andersdotter, Amelia	Independent	Tue AM, Wed AM
Cheng, Weiying	Infinera	Wed PM
Dubrawski, Rich	Viasat Inc	Mon PM, Tue AM, Wed AM, PM
Fedyk, Don	LabN Consulting)	Mon PM, Tue AM, Wed AM, PM
Goodwin, Michele	IEEE SA	Wed AM
Gray, Eric	Ericsson	Tue AM, Wed AM
Haasz, Jodi	IEEE SA	Tue AM
Henry, Jerome	Cisco	Mon PM, Tue AM, Wed AM, PM
Kelsey, Randy	Engineering Solutions, Inc.	Mon PM, Tue AM, Wed AM, PM
Mansfield, Scott	Ericsson	
McIntosh, James	Microchip	Mon PM, Tue AM, Wed AM, PM
McMillan, Larry	Western Digital Corporation	Wed PM
Parsons, Glenn	Ericsson	Mon PM, Wed AM
Randall, Karen	Randall Consulting	Mon PM, Tue AM, Wed AM, PM
Rouyer, Jessy	Nokia	Mon PM, Wed AM
Riegel, Max	Nokia	Tue AM
Seaman, Mick	Independent	Mon PM, Tue AM, Wed AM, PM
Yee, Peter	NSA-CSD	Mon PM

Call to order Jul 13, 2020 at 1:30 PM EDT by Mick Seaman, IEEE 802.1 Security TG Chair, who presided and wrote the minutes.

Agenda items and dispositions:

1. Meeting introduction. The TG Chair reminded participants that the following information was made available before the meeting and showed:
 - The IEEE SA Copyright Policy slides,
 - The IEEE SA PatCom Patent Slides for Standards Development Meetings,

- The IEEE SA slides regarding IEEE Codes of Ethics and Conduct, participation in the “individual process”, and dominance,
 - The decorum information, and
 - The reminder for participants to register their attendance in IMAT
- contained in “MEETING INTRODUCTION”
<http://www.ieee802.org/1/files/public/templates/admin-WG+TG-intro-0720-v01.pdf> thereby providing the information on slides 2 and 5 of this presentation, and made the Call for Potentially Essential Patents at the beginning of this meeting and at the beginning of the TG meetings on Jul 14, 2020 and Jul 15, 2020 in this session. There were no responses to these Calls prior to the end of the session.
2. Approval of agenda. The TG Chair presented the agenda in <https://1.ieee802.org/security-tg-electronic-meetings-july-13-15-2020/>
Disposition: the agenda was reviewed, discussed and agreed (informally, none dissenting) as presented.
3. P802.1AEdk MAC Privacy protection - Draft development
- 3.1. Don Fedyk, P802.1AEdk Editor, presented the updated draft P802.1AEdk/D0.2
<http://www.ieee802.org/1/files/private/dk-drafts/d0/802-1AEdk-d0-2.pdf>
- Clause 19, Encoding of MAC Privacy-protection Protocol Data Units, remained essentially complete and had not been changed. Some reconciliation of statistics/counter names is required. The names given in angle brackets, e.g. <outMPPDUFrames> as initial placeholders have not been updated. Different tools have different preferred name styles, e.g. camel case as currently shown is used in MIBS and in the existing MACsec management description (10.7 of 802.1AE-2018) as opposed to all lower case with hyphen separators in YANG.
 - Clause 17, MAC Privacy protection (overview), was largely unchanged but with some tweaks to the mapping of PrY user priority to PrY access priority to accommodate PrY and SecY in separate systems. Noted that PrY user priority could be a useful indication of not applying privacy, allowing (for example) TSN traffic assigned to priorities 1 or 2 to be forwarded without encapsulation in MPPDUs, not requiring use of the stream_handle to provide further granular selection of non-privacy protected traffic.
 - Noted, in the context of Clause 17 but not yet mentioned the potential effect of maintaining bandwidth utilization for privacy when packet loss was causing TCP to backoff, leading to continual reduction of useful throughput and its replacement with padding. Agreed (informally, none dissenting) that users should be aware of the need to remain within the SLA to avoid this effect (needs mentioning in Clause 17). No desire to introduce additional congestion avoidance/reaction protocol.
- 3.2. Mick Seaman presented suggested text for Clause 21, MAC Privacy protection in Systems, as incorporated in the updated (D0.2) draft.
- No attempt to cover all possible cases, but to provide an adequate description of cases which have led to questions in the past, e.g. position of link aggregation facilitates simple fragment reassembly where individual links are order preserving.
 - To improve privacy text allows multiple inner C-VIDs to map to a single outer C-VID, reducing visibility of inner C-VID use or improving utilization when defeating activity monitoring. Suggested to retrofit this flexibility to EDEs without privacy protection, relaxing existing constraint. Should also add to clause 17 text to introduce in overview.

Disposition: Discussion to be continued in this session.

3:30 PM EDT recess

Call to order Jul 14, 2020 at 11:04 AM EDT by Mick Seaman, IEEE 802.1 Security TG Chair, who presided and wrote the minutes.

4. P802E Recommended Practice Privacy Considerations for IEEE 802 Technologies - Submission to RevCom. The TG Chair led a brief review of the SA ballot status and the next steps. The second SA recirculation ballot closed without further comments or vote changes, with cumulative 95% Approval. The disposition of comments on the recirculation <http://www.ieee802.org/1/files/private/802-e-drafts/d2/802E-d2-0-sponsor-r2-dis.pdf> was thus purely administrative and had been prepared by the TG Chair. Agreed (informally, none dissenting) to propose a motion to forward to RevCom for final approval.

Disposition: Motion to forward to RevCom proposed and approved in the 802.1 WG closing plenary electronic meeting Jul 20, 2020, added to the LMSC EC consent agenda and subsequently approved by the EC. Anticipate approval recommendation (to the SASB) by RevCom in their Sep 20, 2020 meeting.

5. ISO/IEC JTC1 SC6 progression of IEEE 802.1 Standards. Karen Randall, Security TG Vice-Chair and 802.1 Liaison Secretary, presented proposed responses to comments received on the FDIS ballots of IEEE Std 802.1AE-2018 and IEEE Std 802.1Xck-2018. Minor editorial wording corrections were suggested.

Disposition: Text forwarded for consideration by the IEEE 802.1 Maintenance TG and subsequently by the IEEE 802 SC6 SC (Standing Committee). Responses approved without further change.

6. P802.1AEdk MAC Privacy protection - Draft development (continued)

- 6.1. Mick Seaman continued the presentation of suggested text for Clause 21, MAC Privacy protection in Systems, as incorporated in the updated (D0.2) draft.

Discussion:

- 21.8 discusses scenario with PrY (privacy-protection) and SecY (MACsec) in separate devices. Anticipated addition to existing EDE secure provider link. Adds a further C-Tag so does not interoperate directly with combined case, but that is not the deployment scenario/requirement. Devices should be adjacent to minimize need to address intervening devices that do not understand MPPDUs.

- 6.2. Don Fedyk, P802.1AEdk Editor, initiated a discussion on validating the YANG solution.

Discussion:

- IETF has YANG models in separate documents, similarly IEEE 802 projects has models in separate standards. To check the utility of the models in the context of some projects they need to be used in combination.
- No intent to specify test cases, but with 802.1AE MACsec and privacy protection need to clearly specify the combination and how it works. Compare with approach in 802.1Qcp Figure 48-2.
- Need to have something intelligible at a level that fits on a page, so the reader can get the picture.
- Simplified management, if desirable, could follow the approach currently taken in 802.1AE Clause 16 (using MIB Modules to manage EDEs).
- Need to decide what subsets of possible two-component behaviors could be specified.

Disposition: Discussion to be continued in this session.

12:57 PM EDT recess

Call to order Jul 15, 2020 at 11:04 AM EDT by Mick Seaman, IEEE 802.1 Security TG Chair, who presided and wrote the minutes.

7. P802.1AEdk MAC Privacy protection - Draft development (continued)

7.1. Don Fedyk, P802.1AEdk Editor, presented Clause 20, MAC Privacy-protecting Entity (PrY) operation of the updated draft P802.1AEdk/D0.2

- All transmit Controlled Port traffic needs to pass through the PrY (change to Figure 20-1, knock on changes to Figures 20-2,-3,-4) as it needs to be counted towards the SLA even if not privacy protected. There is no Controlled Port access separate from the Private Port.
- Using just the Private Port, rather than Private Port + Controlled Port, simplifies the view of the service provided from the point of view of the operation of network configuration/routing protocols. These are assumed to use the Private/Controlled Port.
- Uncontrolled Port use is assumed to be restricted to low bandwidth/low frequency protocols for (logical) nearest neighbor exchanges, e.g. 802.1X EAPOL and MKA, 802.1AB LLDP (when running prior to or underneath link security).
- Privacy/MPPDU encapsulation selectable for Private Port transmit frames based on PrY user priority or (for finer granularity, conformance option, detailed management not to be specified) on stream_handle (ISS connection_identifier sub-parameter) as specified by 802.1CB and used by 802.1Q PSFP and ATS.
- Bandwidth rate targets/parameters need to be in terms of what will be transmitted black-side, i.e. through the Provider Network Port, per PEP (equates to provider service instance, remote PEP in the common point-to-point case). This is to match the provider SLA and includes MPPDU overhead plus calculated allowance for MACsec and outer tag.
- Need to warn against changes in channel rate targets as these can leak information. While regular changes, e.g. "office hours" may not such changes are unlikely to be advantageous as they are probably not reflected in the SLA.
- Format checking in MPPDU frame, do not use "error" in cases where "unsupported in receiver's version" could be a possibility.

7.2. Don Fedyk, P802.1AEdk Editor, led a discussion on the alignment of the SNMP MIB and YANG.

- An Excel spreadsheet had been created to tabulate objects. To avoid the potential security risks of posted Excel spreadsheets this would be converted to CSV and uploaded for future discussion.
- While both SNMP and YANG are derived from the main text as XML (802.1AE-2018 Figure 10-5 for the SecY/MACsec) they have different capabilities (e.g. in the organization of tables, and particularly of defaults) so a strict mapping would be suboptimal. No reason to suppose that the MIB has deployed 'as is', so this should not be a concern.
- MIB has been created and is attached to D0.2.
- YANG augmentation makes a significant difference vs separate MIBs for interface shim components. Remains unclear what the basic ietf-interface statistics refer to when frames are multiplexed and frame sizes are change in an interface stack - top of stack or bottom of stack.

7.3. Don Fedyk, P802.1AEdk Editor, presented "YANG based Config for MAC Privacy 802.1AEdk Third Attempt" <http://www.ieee802.org/1/files/public/docs2020/dk-fedyk-dot1aedk-privacy-config-0720-v01.pdf>

Disposition: Discussion to be continued in this session.

1:02 PM EDT recess

Call to order Jul 15, 2020 at 1:35 PM EDT by Mick Seaman, IEEE 802.1 Security TG Chair, who presided and wrote the minutes.

8. P802.1AEdk MAC Privacy protection - Draft development (continued). Don Fedyk, P802.1AEdk Editor, led a continuation of the discussion of YANG configuration of EDEs
 - Focus on the “simple” VLAN bridge case, and the extent it is possible to index by incoming (red-side) VLAN TAG.

Disposition: further discussion required. Input to editor requested. SNMP/YANG table uploaded at <http://www.ieee802.org/1/files/public/docs2020/dk-fedyk-snmp-yang-xref-0720-v00.csv>

9. Any Other Business. The TG Chair led a discussion of trademarking “MACsec”.
Disposition: Agreed (informally, none dissenting) to pursue trademarking possibility with IEEE staff.

10. Future meetings. The TG Chair led a discussion of future meetings.
 - Scheduling electronic meetings in a “virtual plenary” or “virtual interim” block, as for this session and the May interim session has worked well.
 - Other electronic meetings to be scheduled as input or an updated draft becomes available, subject to the usual notice.

Disposition: Motion for electronic meetings with the usual notice proposed and approved at the 802.1 closing plenary meeting.

2:57 PM EDT adjournment.

6 Time-Sensitive Networking Task Group

Between this session and the preceding session, the IEEE 802.1 Time-Sensitive Networking (TSN) Task Group (TG) held the following electronic meetings:

- minutes of the P802.1DG TSN Profile for Automotive call, May 26, 2020
<http://www.ieee802.org/1/private/email2/msg30526.html>
- draft minutes of the P802.1DG TSN Profile for Automotive call, June 02, 2020
<http://www.ieee802.org/1/private/email2/msg30539.html>
- Revised minutes of the 802.1 TSN TG call, June 8, 2020
<http://www.ieee802.org/1/private/email2/msg30637.html>
- draft minutes of the P802.1DG TSN Profile for Automotive call, June 09, 2020
<http://www.ieee802.org/1/private/email2/msg30563.html>
- minutes of the 802.1 TSN TG call, June 15, 2020
<http://www.ieee802.org/1/private/email2/msg30620.html>
- draft minutes of the P802.1DG TSN Profile for Automotive call, June 16, 2020
<http://www.ieee802.org/1/private/email2/msg30589.html>
- Minutes of the IEEE 802.1 Time-Sensitive Networking Task Group call held June 22 from 11:00 AM – 1:00 PM EDT
<http://www.ieee802.org/1/private/email2/msg30638.html>
- draft minutes of the P802.1DG TSN Profile for Automotive call, June 23, 2020
<http://www.ieee802.org/1/private/email2/msg30631.html>
- Minutes of the IEEE 802.1 Time-Sensitive Networking Task Group meeting held Jun 29, 2020 11:00 AM - 1:05 PM EDT
<http://www.ieee802.org/1/private/email2/msg30698.html>
- Minutes of the IEEE 802.1 Time-Sensitive Networking Task Group meeting held Jul 06, 2020 11:00 AM - 1:18 PM EDT
<http://www.ieee802.org/1/private/email2/msg30715.html>
- Minutes of the IEEE P802.1DG, meeting held Jul 07, 2020 9:00 AM - 10:04 AM EDT
<http://www.ieee802.org/1/private/email2/msg30713.html>

Call to order Jul 13, 2020 at 11:00 AM by János Farkas, IEEE 802.1 TSN TG Chair, who presided. Marina Gutiérrez, IEEE 802.1 TSN TG Secretary wrote the minutes.

The table in section 1 reflects the attendance and affiliation of participants who registered their attendance in IMAT.

Agenda items and dispositions:

1. Meeting introduction. TSN TG Chair showed:

- The IEEE SA Copyright Policy slides,
- The IEEE SA PatCom Patent Slides for Standards Development Meetings,
- The IEEE SA slides regarding IEEE Codes of Ethics and Conduct, participation in the “individual process”, and dominance,
- The decorum information, and
- The reminder for participants to register their attendance in IMAT

contained in “MEETING INTRODUCTION”

<http://www.ieee802.org/1/files/public/templates/admin-WG+TG-intro-0720-v01.pdf> thereby providing the information on slides 2 and 5 of this presentation, and made the Call for Potentially Essential Patents: there were no responses to this Call prior to the end of the end of the session.

2. Approval of agenda. TSN TG Chair presented the agenda in <https://1.ieee802.org/2020-07-tsn-agenda/>.

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

3. János Farkas led the drafting of “3GPP SA WG2: need for survival time for IEEE TSN”

<http://www.ieee802.org/1/files/public/docs2020/liaison-response-3GPP-SA2-survival-time-0720-v01.pdf>.

Disposition: draft discussed. More discussion is needed.

4. The TG Chair presented draft motions for 802.1 closing plenary approval.

Disposition: draft motions reviewed for 802.1 closing plenary approval.

5. Geoff Garner presented “Blog post on IEEE Std 802.1AS-2020”

<http://www.ieee802.org/1/files/public/docs2020/as-draft-blog-post-0720-v01.pdf>.

Disposition: draft discussed. More discussion needed.

6. Stephan Kehrer, P802.1CBcv editor, presented “P802.1CBcv update”

<http://www.ieee802.org/1/files/public/docs2020/cv-kehrer-d0-4-update-0720-v01.pdf>.

Disposition: presentation discussed.

7. Stephen Haddock, presented “P802.1ABdh overview and questions”

<http://www.ieee802.org/1/files/public/docs2020/dh-haddock-overview-and-questions-0720-v0.pdf>.

Disposition: presentation discussed. Related to a new project.

1:14 PM - 2:00 PM recess

8. Norm Finn, P802.1CS editor, led the resolution of comments received on

<http://www.ieee802.org/1/files/private/cs-drafts/d3/802-1CS-d3-0.pdf>.

Disposition: continued later.

9. Paul Congdon, P802.1Qcz editor, completed the resolution of comments received on

<http://www.ieee802.org/1/files/private/cz-drafts/d1/802-1Qcz-d1-0.pdf> by addressing the following comments:

Lower priority YANG items - 1-5, 7-10, 20, 23

Accept in principal - 32, 33, 35

Accept - 25-27, 29-31

Disposition: Final disposition <http://www.ieee802.org/1/files/private/cz-drafts/d1/802-1Qcz-d1-1-dis-v01.pdf>. Anticipated next: 2nd WG recirculation ballot.

3:00 PM recess

Call to order Jul 14, 2020 at 9:00 AM by János Farkas, IEEE 802.1 TSN TG Chair, who presided. Marina Gutiérrez, IEEE 802.1 TSN TG Secretary wrote the minutes.

The TSN TG Chair announced that the meeting is subject to the Copyright Policy, Patent policy and Participants Policy as read and displayed at the opening plenary meeting.

10. Georg Junker presented “Time Sync in 10BASE-T1S networks”

<http://www.ieee802.org/1/files/public/docs2020/dg-janker-timesync-in-10BASE-T1S-networks-0720-v01.pdf>.

Disposition: presentation discussed. Regarding to an upcoming project. More discussion is needed.

11. Yoshihiro Ito presented “Update of TSN use cases”

<http://www.ieee802.org/1/files/public/docs2020/dg-Nomura-JASPAR-Use-Cases-0720-v03.pdf>.

Disposition: presentation discussed. Regarding to an on-going project.

12. Craig Gunther, P802.1DG editor, led the resolution of comments received on

<http://www.ieee802.org/1/files/private/dg-drafts/d1/802-1DG-d1-2.pdf>.

Disposition: comments discussed. Partial disposition:

<http://www.ieee802.org/1/files/private/dg-drafts/d1/802-1DG-d1-2-pdis-v11.pdf>.

11:14 AM - 11:30 AM recess

13. Christophe Mangin, P802.1CBdb editor, presented “802.1CBdb/D0.7 Editor’s report for 6th TG ballot comments resolution” <http://www.ieee802.org/1/files/public/docs2020/db-mangin-d0-7-editors-report-0720-v02.pdf> and led the resolution of comments received on <http://www.ieee802.org/1/files/private/db-drafts/d0/802-1CBdb-d0-7.pdf>.

Disposition: comments discussed. Final disposition:

<http://www.ieee802.org/1/files/private/db-drafts/d0/802-1CBdb-d0-7-dis-v01.pdf>.

14. Norm Finn, P802.1CS editor, continued the resolution of comments received on

<http://www.ieee802.org/1/files/private/cs-drafts/d3/802-1CS-d3-0.pdf>.

Disposition: comments discussed. Final disposition:

<http://www.ieee802.org/1/files/private/cs-drafts/d3/802-1CS-d3-0-dis.pdf>.

12:50 PM recess

Call to order Jul 15, 2020 at 11:30 AM by János Farkas, IEEE 802.1 TSN TG Chair, who presided. Marina Gutiérrez, IEEE 802.1 TSN TG Secretary wrote the minutes.

The TSN TG Chair announced that the meeting is subject to the Copyright Policy, Patent policy and Participants Policy as read and displayed at the opening plenary meeting.

15. Roger Marks, P802.1CQ editor, presented “Summary of P802.1CQ/D0.5 in Task Group Ballot, July 2020” <http://www.ieee802.org/1/files/public/docs2020/cq-Marks-update-2020-07-15-0720.pdf>.

Disposition: presentation discussed. Related to an on-going project.

16. Karthik Babu presented “IEEE 802.1Q – Ethernet-cfm (IEEE 802.1ag) CFM Enhancements” <http://www.ieee802.org/1/files/public/docs2020/new-karthik-cfm-enhancement-0620-v01.pdf>

Disposition: presentation discussed. More discussion is needed.

1:25 PM recess

Call to order Jul 16, 2020 at 11:30 AM by János Farkas, IEEE 802.1 TSN TG Chair, who presided. Marina Gutiérrez, IEEE 802.1 TSN TG Secretary wrote the minutes.

The TSN TG Chair announced that the meeting is subject to the Copyright Policy, Patent policy and Participants Policy as read and displayed at the opening plenary meeting.

17. Abdul Jabbar presented “Establishing a joint project between SAE AS-1A2 and IEEE 802 to develop TSN profile for aerospace”

<http://www.ieee802.org/1/files/public/docs2020/new-Jabbar-TSN-for-Aerospace-0720-v01.pdf>.

Disposition: presentation was discussed. Anticipated next: motion to authorize the TG to develop a PAR will be included in the motions for the closing plenary.

18. János Farkas led the drafting of “3GPP SA WG2: need for survival time for IEEE TSN”

<http://www.ieee802.org/1/files/public/docs2020/liaison-response-3GPP-SA2-survival-time-0720-v01.pdf>.

Disposition: draft discussed. Anticipated next: motion to be included for 802.1 closing plenary approval.

19. Don Pannell led the drafting of “Liaison regarding IEEE P802.1CQ draft 0.5”

<http://www.ieee802.org/1/files/public/docs2020/liaison-802-1CQ-D0-5-0720-v01.pdf>.

Disposition: draft discussed. Anticipated next: motion to be included for 802.1 closing plenary approval.

20. The TG Chair presented draft motions for 802.1 closing plenary approval.

Disposition: draft motions reviewed for 802.1 closing plenary approval.

21. Geoff Garner presented “Blog post on IEEE Std 802.1AS-2020”

<http://www.ieee802.org/1/files/public/docs2020/as-draft-blog-post-0720-v01.pdf>.

Disposition: draft discussed. Anticipated next: motion to be included for 802.1 closing plenary approval

22. Any other business

No other business was discussed by the TSN TG in this session.

2:58 PM adjournment

6.1 IEC/IEEE 60802 Joint Project

Between this session and the preceding session, the IEC/IEEE 60802 Joint Project held the following electronic meetings:

- IEC/IEEE 60802 Joint Project call, 2020-06-08 <https://listserv.ieee.org/cgi-bin/wa?A2=ind20&L=STDS-802-1-L&P=279721>
- IEC/IEEE 60802 Joint Project call, 2020-06-15 <https://listserv.ieee.org/cgi-bin/wa?A2=ind20&L=STDS-802-1-L&P=293148>

Call to order Jul 13, 2020 at 10:00 AM EDT by Ludwig Winkel, IEC 65C/WG18 Convenor and IEC/IEEE 60802 Joint Project Chair (60802 Chair), who presided with János Farkas, IEEE 802.1 TSN TG Chair (TG Chair). Josef Dorr, IEC/IEEE 60802 Joint Project Secretary (60802 Secretary), wrote the minutes.

The table in section 1 reflects the attendance and affiliation of participants who registered their attendance in IMAT.

Agenda items and dispositions:

1. Meeting introduction. The TG Chair reminded participants that the following information was made available before the meeting:
 - The IEEE SA Copyright Policy slides,
 - The IEEE SA PatCom Patent Slides for Standards Development Meetings,

- The IEEE SA slides regarding IEEE Codes of Ethics and Conduct, participation in the “individual process”, and dominance,
- The decorum information, and
- The reminder for participants to register their attendance in IMAT

contained in “MEETING INTRODUCTION”

<http://www.ieee802.org/1/files/public/templates/admin-WG+TG-intro-0720-v01.pdf> thereby providing the information on slides 2 and 5 of this presentation and made the Call for Potentially Essential Patents: there were no responses to this Call prior to the end of the session. The 60802 Chair explained that the IEC/IEEE 60802 Joint Project also follows the 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.

2. Approval of agenda. The 60802 Chair presented the agenda in <https://1.ieee802.org/2020-07-tsn-agenda/>, also available in <https://collaborate.iec.ch/#/pages/workspaces/677749/documents/138995/details/509906?onlyWithPreview=false&fileId=509906>.

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

3. System specification. The 60802 Chair led the discussion on a proposal to specify required system behavior for industrial automation systems in addition to the device-oriented IEC/IEEE 60802 Draft Standard (60802).

- During the discussion Günter Steindl presented “IEC/IEEE 60802 System specification Feature examples”

<http://www.ieee802.org/1/files/public/docs2020/60802-Steindl-SystemSpecification-0720-v1.pdf>.

Disposition: An IEC/IEEE 60802 Joint Project System Specification ad hoc (System ad hoc) was proposed to further work on the proposal and provide contributions to 60802. Mark Hantel volunteered to chair the System ad hoc: this was agreed (informally, none dissenting) as well as having a kick-off System ad hoc meeting on Jul 15, 2020 1:30 - 3:30 PM EDT https://1.ieee802.org/2020-07-tsn-agenda/#IECIEEE_60802_Joint_Project_Ad_Hoc_Group. More discussion needed.

4. Editor’s Report and D1.2 TG ballot comment resolution. Jordon Woods, 60802 Editor, presented “Editor’s Report 60802 Draft 1.2” <http://www.ieee802.org/1/files/public/docs2020/60802-woods-D1-2-update-0720-v01.pdf> and started the resolution of 924 comments received on <http://www.ieee802.org/1/files/private/60802-drafts/d1/60802-d1-2.pdf>.

- The comments from IEC are still outstanding.

Disposition: Partial disposition: <http://www.ieee802.org/1/files/private/60802-drafts/d1/60802-d1-2-pdis-v01.pdf>. Resolved comment: 34.

5. Review of minutes. Draft minutes were reviewed under the lead of the 60802 Secretary.

11:00 AM recess

Call to order Jul 15, 2020 at 9:00 AM EDT by Ludwig Winkel, 60802 Chair, who presided with János Farkas, TG Chair. Josef Dorr, 60802 Secretary, wrote the minutes.

6. Meeting introduction. The TG Chair announced that the meeting is subject to the Copyright Policy, Patent Policy and Participants Policy as read and displayed at the opening plenary meeting.

7. D1.2 TG ballot comment resolution. Jordon Woods, 60802 Editor, continued the resolution of comments received on <http://www.ieee802.org/1/files/private/60802-drafts/d1/60802-d1-2.pdf>.

- Resolution of comments 156 and 682 regarding the definition of Application Data Cycle and Figure 2, respectively, were postponed. The definition should be discussed in the System ad hoc.

Disposition: Partial disposition: <http://www.ieee802.org/1/files/private/60802-drafts/d1/60802-d1-2-pdis-v01.pdf>. Resolved comments: 155, 683, 573, 249, 992, 993, 123, 574, 35, and 225.

8. Review of minutes. Draft minutes were reviewed under the lead of the 60802 Secretary.

11:00 AM recess

Call to order Jul 15, 2020 at 1:30 PM EDT by Mark Hantel, IEC/IEEE 60802 Joint Project System Specification ad hoc Chair (System ad hoc Chair), who presided with Ludwig Winkel, 60802 Chair and with János Farkas, TG Chair. Josef Dorr, 60802 Secretary, wrote the minutes.

9. Meeting introduction. The TG Chair announced that the meeting is subject to the Copyright Policy, Patent Policy and Participants Policy as read and displayed at the opening plenary meeting. All information concerning the System ad hoc would also be made available at the IEC collaboration tool.

10. Approval of agenda. The 60802 Chair presented the agenda in https://1.ieee802.org/2020-07-tsn-agenda/#IECIEEE_60802_Joint_Project_Ad_Hoc_Group

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

11. Expected meeting output. The System ad hoc Chair proposed a contribution for 60802 D1.3.

Disposition: Agreed (informally, none dissenting).

12. When do we expect to be complete? The System ad hoc Chair proposed the November 2020 plenary session as completion goal.

Disposition: Completion goal agreed (informally, none dissenting). Agreed (informally, none dissenting) to continue the work if completion is not achieved by November 2020.

13. Meeting Length. The System ad hoc Chair proposed a one hour per week time slot.

Disposition: Agreed (informally, none dissenting).

14. Timeslot (EDT): The System ad hoc Chair proposed Wednesdays 9:00 – 10:00 AM ET, or Wednesdays 11:00 AM – 12:00 PM ET, or Wednesdays 12:00 – 1:00 PM ET, or Thursdays 9:00 – 10:00 AM ET, or Thursdays 10:00 – 11:00 AM ET, or Thursdays 12:00 – 1:00 PM ET.

Disposition: Agreed (informally, none dissenting) to have a motion at the closing plenary meeting for Wednesdays 11:00 AM – 12:00 PM ET starting Wednesday Jul 22, 2020.

15. Which system level specifications should be normative (Contributions to chapter 6)? Which should be informative (Contributions to chapter 4)? The System ad hoc Chair led the discussion.

Disposition: Agreed (informally, none dissenting) that contributions of system level specifications can be normative or informative as appropriate.

16. System specification. Günter Steindl presented “IEC/IEEE 60802 System specification Feature examples” <http://www.ieee802.org/1/files/public/docs2020/60802-Steindl-SystemSpecification-0720-v1.pdf>. The System ad hoc Chair led the discussion on the presentation.

- The presented list of system specification features can serve as a starting point for the work of the System ad hoc.
- Further system aspects (e.g. network access, network convergence) can be added during the work of the System ad hoc.

- Definition of terms (e.g. network convergence) and description of work flows related to the collected use cases
<http://www.ieee802.org/1/files/public/docs2018/60802-industrial-use-cases-0918-v13.pdf> are important initial work packages for the System ad hoc.

Disposition: More discussion needed.

17. Call for contributors. Meetings are open to all. Contributions are welcome from all.

Disposition: Eleven participants volunteered to contribute in the System ad hoc.

18. Next meetings. This agenda item was skipped because it was already covered in agenda item 12.

19. Review of minutes. Draft minutes were reviewed under the lead of the 60802 Secretary.

3:20 PM System ad hoc adjournment

Call to order Jul 16, 2020 at 9:00 AM EDT by Ludwig Winkel, 60802 Chair, who presided with János Farkas, TG Chair. Josef Dorr, 60802 Secretary, wrote the minutes.

20. Meeting introduction. The TG Chair announced that the meeting is subject to the Copyright Policy, Patent Policy and Participants Policy as read and displayed at the opening plenary meeting.

21. Further Simulation Results for Time Error Performance for Transport over an IEC/IEEE 60802 Network. Geoffrey Garner presented “Further Simulation Results for Time Error Performance for Transport over an IEC/IEEE 60802 Network - Revision 1”

<http://www.ieee802.org/1/files/public/docs2020/60802-garner-further-simulation-results-dte-60802-network-0720-v01.pdf>.

- The simulations showed that short residence times are essential to achieve the objective $\max|TE|$ of 1 μ s over 64 hops and over 100 hops if possible.
- rateRatio computation using successive Sync messages would presumably require an amendment to IEEE Std 802.1AS-2020.
- A re-inspection of the gain peaking effect analysis work of 2007, which is listed in the Reference section of the presentation, could be provided in a future meeting.

Disposition: More discussion needed. The discussion of next steps was postponed to take place under agenda item 26.

22. D1.2 TG ballot comment resolution. This agenda item was skipped due to running out of time.

23. Review of minutes. This agenda item was skipped by lack of time.

11:00 AM recess

Call to order Jul 17, 2020 at 9:00 AM EDT by Ludwig Winkel, 60802 Chair, who presided with János Farkas, TG Chair. Josef Dorr, 60802 Secretary, wrote the minutes.

24. Meeting introduction. The TG Chair announced that the meeting is subject to the Copyright Policy, Patent Policy and Participants Policy as read and displayed at the opening plenary meeting.

25. Device model constraints. Günter Steindl presented “IEC/IEEE 60802 End station model Requirements and assigned features”

<http://www.ieee802.org/1/files/public/docs2020/60802-Steindl-EndStationModel-0720-v1.pdf>.

Disposition: Presentation discussed. An expansion of the model to a bridged end-station model is possible.

26. Sync requirements. Günter Steindl presented “IEC/IEEE 60802 Synchronization requirements and solution examples”
<http://www.ieee802.org/1/files/public/docs2020/60802-Steindl-SynchronizationModels-0620-v1.pdf>

Disposition: More discussion needed. In continuation of the discussion of agenda item 21, it was agreed (informally, none dissenting) that next simulation steps would be discussed on the Main 802.1 Email list. Geoffrey Garner would send an initial email to start the discussion, and a later email with his proposal for next simulation runs. Re-inspection of the gain peaking effect analysis would also be discussed on the Main 802.1 Email list.
11:10 - 11:30 AM recess

27. D1.2 TG ballot comment resolution. Jordon Woods, 60802 Editor, continued the resolution of comments received on <http://www.ieee802.org/1/files/private/60802-drafts/d1/60802-d1-2.pdf>.

Disposition: Partial disposition: <http://www.ieee802.org/1/files/private/60802-drafts/d1/60802-d1-2-pdis-v01.pdf>. Resolved comments: 36, 863, 862, 50, 229, and 226.

28. Any Other Business. No other business was discussed by the IEC/IEEE 60802 Joint Project in this session.

29. Future Meetings. The TG Chair led a discussion on how to continue with IEC/IEEE 60802 Joint Project meetings after 2020.

Disposition: Agreed (informally, none dissenting) to continue as in the past.

Next meetings, if approved by WG motion at the Jul 20, 2020 closing plenary meeting, to be held weekly 11:00 – 12:00 AM EDT starting Jul 22, 2020 for the System ad hoc and 9:00 AM – 11:00 starting Jul 27, 2020 for the IEC/IEEE 60802 Joint Project.

30. Review of minutes. Draft minutes were reviewed under the lead of the 60802 Secretary.

1:45 PM adjournment

7 Nendica

Between this session and the preceding session, Nendica held the following electronic meetings:

- <https://1.ieee802.org/802-nendica/nendica-meetings/>

Call to order July 16, 2020 at 9:00 AM EDT by Roger Marks, Nendica Chair, who presided and wrote the minutes.

The table in section 1 reflects the attendance and affiliation of participants who registered their attendance in IMAT.

Agenda items and dispositions:

1. Meeting introduction. The Nendica Chair showed:

- The IEEE SA Copyright Policy slides,
- The Guidelines for IEEE SA Meetings slide,
- The IEEE SA slides regarding IEEE Codes of Ethics and Conduct, participation in the “individual process”, and dominance,
- The decorum information, and
- The reminder for participants to register their attendance in IMAT

contained in “MEETING INTRODUCTION”

<http://www.ieee802.org/1/files/public/templates/admin-prePAR-intro-0720-v01.pdf> thereby providing the information on slide 2 of this presentation.

2. Approval of agenda. The Nendica Chair presented the agenda in <https://1.ieee802.org/agenda-ieee-802-nendica-telecon/>.
Disposition: The agenda was reviewed, discussed and agreed (informally, none dissenting) as presented. It is recorded as “Approved Agenda of the Nendica Meeting of 2020-07-16” <https://mentor.ieee.org/802.1/dcn/20/1-20-0045-00-ICne.pdf>.
3. Update. The Nendica Chair reviewed the Nendica web site and the new documents available at the Nendica mentor server. The Nendica Chair presented “Nendica Overview, July 2020” <https://mentor.ieee.org/802.1/dcn/20/1-20-0043-00-ICne.pdf>.
Disposition: No further discussion.
4. Minutes. The Nendica Chair presented “Draft Minutes of the Nendica Meeting of 2020-07-02” <https://mentor.ieee.org/802.1/dcn/20/1-20-0041-00-ICne.docx>.
Disposition: The document was reviewed and agreed (informally, none dissenting) as presented.
5. Data Center Networks [DCN] Work Item.
 - 5.1. Paul Congdon, DCN Editor, presented a pre-draft version of “IEEE 802 Nendica Report: Intelligent Lossless Data Center Networks” <https://mentor.ieee.org/802.1/dcn/20/1-20-0038-02-ICne.pdf>, highlighting material added since the prior version and shown in markup.
Disposition: Further review of the material, and additional material, is welcome, with inputs directed to the Editor, to the Nendica Email list, or to Mentor.
 - 5.2. Paul Congdon presented “PFC Deadlock Contribution” <https://mentor.ieee.org/802.1/dcn/20/1-20-0044-00-ICne.pdf>.
Disposition: The presenter will consider comments in developing a version of the material to enhance the sections of the DCN draft related to PFC deadlock.
6. Stream and Flow Interworking [SFI] Work Item. Roger Marks, SFI Editor, reviewed “PRE-DRAFT IEEE 802 Nendica Report: Network Stream and Flow Interworking” <https://mentor.ieee.org/802.1/dcn/20/1-20-0032-03-ICne.pdf>.
Disposition: Further review of the material, and additional material, is welcome, with inputs directed to the Editor, to the Nendica Email list, or to Mentor.
7. Study Item: Managed LAN as a Service [MLaaS]. The Nendica Chair noted that no contributions had been made. He noted that the prior MLaaS contribution, of January 2020, suggested a timeline indicating approval of an MLaaS Work Item in July 2020.
Disposition: The Nendica Chair suggested that Nendica consider closing the Study Item in November 2020 in case no further progress is made by then. No objections were raised.
8. Future Meetings. The Nendica Chair noted that Nendica has scheduled meetings each Thursday 09:00 AM -11:00 AM ET.
Disposition: No suggestions were made to change the schedule.
9. Any Other Business. No other business was discussed by Nendica in this session.

10:53 AM EDT adjournment

8 YANGsters

Between this session and the preceding session, YANGsters held the following electronic meetings:

- http://www.ieee802.org/1/private/email_yang/msg00182.html
- http://www.ieee802.org/1/private/email_yang/msg00185.html
- http://www.ieee802.org/1/private/email_yang/msg00190.html
- http://www.ieee802.org/1/private/email_yang/msg00192.html
- http://www.ieee802.org/1/private/email_yang/msg00194.html
- http://www.ieee802.org/1/private/email_yang/msg00195.html
- http://www.ieee802.org/1/private/email_yang/msg00197.html

Call to order Jul 16, 2020 at 2:05 PM EDT by Scott Mansfield, the YANGsters Chair, who presided and Stephan Kehrer, the YANGsters Secretary, wrote the minutes.

The table in section 1 of the session minutes reflects the attendance and affiliation of participants who registered their attendance in IMAT.

Agenda items and dispositions:

1. Meeting introduction. The YANGsters Chair reminded participants that the following information was made available before the meeting
 - The IEEE SA Copyright Policy slides,
 - The Guidelines for IEEE SA Meetings slide,
 - The IEEE SA slides regarding IEEE Codes of Ethics and Conduct, participation in the “individual process”, and dominance,
 - The decorum information, and
 - The reminder for participants to register their attendance in IMATcontained in “MEETING INTRODUCTION”
<http://www.ieee802.org/1/files/public/templates/admin-prePAR-intro-0720-v01.pdf> thereby providing the information on slide 2 of this presentation.
The YANGsters Chair announced that the meeting is subject to the Copyright Policy, and Participants Policy as read and displayed at the opening plenary meeting.
The YANGsters Chair made the Call for Potentially Essential Patents: there were no responses to this Call prior to the end of the session.
2. Approval of agenda. The YANGsters Chair presented the agenda in <https://1.ieee802.org/2020-07-w29-plenary-session-electronic-yangsters-agenda/>.
Disposition: the agenda was reviewed, discussed and updated as recorded by these minutes.
3. Introduction to YANGsters. The YANGsters Chair presented “YANGster Meeting Week 29 2020” <http://www.ieee802.org/1/files/public/docs2020/yangsters-smansfield-meeting-agenda-w29-0720-v03.pdf>.
 - An introduction on YANGsters and what the group is doing was provided by the YANGsters Chair, as can be seen on slides 3-5 of that presentation.**Disposition:** Presentation discussed.
4. Handling of Errata in YANG. The YANGsters Chair led the discussion.
 - How are errata or small changes handled in YANG correctly?
 - Errata to YANG files typically are not allowed.
 - Reason: revision dates in a YANG module should uniquely identify the content.
 - To update or correct a YANG module, a new YANG module with a new revision date needs to be created.
 - Currently, changes need to be backwards compatible (e.g. if a leaf has a wrong name the old node needs to be deprecated and a new node with the correct name needs to be added).
 - The IETF NetMod Working Group is currently working on “YANG Semantic Versioning” <https://datatracker.ietf.org/doc/draft-ietf-netmod-yang-semver/> and on “YANG Module Versioning Requirements” <https://datatracker.ietf.org/doc/draft-ietf-netmod-yang-versioning-reqs/>. Comments on these two drafts are encouraged to netmod@ietf.org.
 - Also “YANG Versioning Solution Overview” <https://datatracker.ietf.org/doc/draft-ietf-netmod-yang-solutions/> covers the full set of five solution drafts and how they fit together.
 - Does the current process also include changes to text that has no real impact on the functionality of the module, e.g. descriptions? There was no clear answer to that question but the current way this is mostly understood is that any change to a

YANG module, even descriptions or white space changes, would count as a change to the YANG module, requiring a revision.

Disposition: Agreed (informally, none dissenting) to suggest for IEEE 802.1 to follow the strict procedure IETF uses for changes on YANG modules, i.e. any change to a YANG module requires a revision of this YANG module.

5. Issues in Focus: Pretty Printing Discussion. The YANGsters Chair led the discussion per slides 7-8 of the presentation in agenda item 3.
 - Currently there is some bad formatting in `ieee802-dot1x-types.yang`.
 - A pretty printing tool (called “YANG Pretty Printer” per Johannes Specht’s “YANG Pretty Printer Introduction” <http://www.ieee802.org/1/files/public/docs2020/new-specht-yang-pretty-printing-0620-v04.pdf>) to avoid bad formatting in YANG modules is expected in the future.
 - IEEE SA Editors need to be included in the discussion of the workflow, including the pretty printing.
 - It needs to be made clear to IEEE SA Editors that pretty printing is not just intended to make the YANG modules look uniform but rather to make them human readable.

Disposition: Agreed (informally, none dissenting) to include the use of the Pretty Printer in the workflow of creating YANG modules in IEEE 802.1 projects. IEEE SA Editors need to be included in the discussion of defining the specific process.

6. Issues in Focus: Transmission Selection Algorithm YANG design discussion. The YANGsters Chair led the discussion per slide 6 of the presentation in agenda item 3.
 - Currently there is no way to set a Transmission Selection Algorithm (TSA) for a specific traffic class in a YANG module.
 - There are two proposals: to use a uint8 or to use identities.
 - It was pointed out that it should not be uint8 but rather uint32.

Disposition: Agreed (informally, none dissenting) to use identities for this.

7. Issues in Focus: I2RS Review. The YANGsters Chair led the discussion per slides 11-12 of the presentation in agenda item 3.
 - “A YANG Data Model for Layer 2 Network Topologies” <https://tools.ietf.org/html/draft-ietf-i2rs-yang-l2-network-topology-14> references some IEEE 802.1 standards.
 - A request has been made by the IETF document shepherd and other interested parties to get a YANGsters review of the document and the YANG modules, before the document becomes an RFC.
 - The request was on short notice so it has not yet been satisfied.
 - The YANGsters Chair has started a discussion on the 802 YANG Email list that is ongoing.
 - Feedback is expected to be provided to IETF following further discussion.
 - The YANGsters Chair is expected to provide a list with topics to be reviewed for that purpose.
 - The topics are planned to be discussed in the Jul 28, 2020 YANGsters meeting.

Disposition: Agreed (informally, none dissenting) to provide a response to IETF following YANGsters discussion.

8. Issues in Focus: IANA YANG update. The YANGsters Chair led the discussion per slides 9-10 of the presentation in agenda item 3.
- The iana-if-type YANG module in the YANG Catalog's GitHub repository is out of date.
 - The YANG module should be automatically generated whenever the Interface Types table is updated in the IANA registry <https://www.iana.org/assignments/smi-numbers/smi-numbers.xhtml>.
 - This is a known issue that is expected to be fixed in the near future.

Disposition: Noted for information.

9. Update on Hot Issues. The YANGsters Chair presented the issues in the "YANGsters Issue List" <https://1.ieee802.org/yangsters/yangsters-issue-list/>.
- A press release for IEEE Std 802.1Qcx was discussed.
 - Text for this press release needs to be created before it can be discussed and wordsmithed in the subgroup.
 - The next opportunity to do this is during the September 2020 interim session.
 - The press release would be discussed in the Aug 4, 2020 YANGsters meeting.
 - P802f was discussed.
 - An initial editor's draft is being created. The draft is expected to include material describing possible new fields to be included in the registry, e.g. "friendly" names.
 - The proposed changes to the registry would be discussed with the Registration Authority Committee (RAC).

Disposition: Agreed (informally, none dissenting) that the RAC needs to be involved if additional fields to the registry are proposed.

10. Continue Maintenance/Guidelines Discussion. The discussion of open maintenance items in <http://www.ieee802.org/1/files/public/docs2019/maint-specht-yang-comments-0919-v01.pdf> was deferred by lack of time to a future YANGsters meeting.

Disposition: Agreed (informally, none dissenting) to schedule discussion of this agenda item in the Aug 11, 2020 YANGsters meeting.

11. Motions for further YANGsters meetings. The YANGsters Chair presented a draft for a motion slide to allow YANGsters to hold further weekly electronic meetings every Tuesday 10:00 – 11:00 AM ET, starting Jul 28, 2020.

Disposition: Agreed (informally, none dissenting) to have the presented motion in the closing plenary meeting.

12. Any Other Business. No other business was discussed by YANGsters in this session.

13. Future meetings. YANGsters meet next during the September 2020 IEEE 802.1 session.

3:57 PM adjournment

9 Closing Plenary Meeting

Call to order July 20, 2020 at 9:00 AM EDT by the Chair who presided. The Recording Secretary wrote the minutes.

The table in section 1 reflects the attendance and affiliation of participants who registered their attendance in IMAT.

The Chair presented the *Closing Agenda* slides finalized as <http://www.ieee802.org/1/files/public/minutes/2020-07-closing-plenary-slides.pdf>.

During this presentation, the Chair:

- Introduced the agenda on slide 2 that was approved, and the schedule (slide 3).
- Presented slide 4 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 5 and 6.
- Showed slides 7 through 12 (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 (and subgroup Chairs);
 - Participants have a duty to inform the IEEE;
 - Ways to inform IEEE;
 - Other guidelines for IEEE WG 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 13 through the second slide numbered 14 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 (slide 13);
 - Participants in the IEEE-SA "individual process" shall act independently of others, including employers (slide 14); and
 - IEEE-SA standards activities shall allow the fair & equitable consideration of all viewpoints (second slide numbered 14).

- Reviewed meeting decorum, including the policies on public reporting, and on photography or recording (slide 15);
 - The Chair called for any members of the press (i.e., anyone reporting publicly on this meeting) to announce their presence.
 - There were no responses to the call.
- Asked participants to register attendance in IMAT (slide 16).
- Provided electronic meeting guidelines (slide 17).
- Provided general information regarding meeting contributions, minutes, schedule for all Working Groups, website (slide 18).
- Introduced 802.1 officers and leadership (slide 19).
- Reminded 802.1 voting members of their obligations regarding affiliation declaration (slide 20), voting membership (slide 21), and responding to WG ballots and E-Polls, as well as regarding the consequences of not responding to WG ballots and E-Polls (slide 22).
- Reviewed the list of 802.1 voters (slide 23), including information about individuals who gained (slide 24), lost (slide 25), may gain (slide 26), or will lose (slide 28) 802.1 voting membership.
- Reminded individual participants of 802.11 reciprocal credit, which was continued at this meeting (slide 29).
- Provided information about LMSC elections at this plenary session (slide 30), LMSC election candidates (slide 31), and DirectVoteLive (slide 32) before proceeding with chair confirmation, and vice-chair secret ballot election and confirmation.
 - The result of the secret ballot vice-chair election was:
 - Paul Congdon – 22
 - Jessy Rouyer – 34
- Conducted votes on the following motions (slides 33-34) that all passed.
 - Motion
 - 802.1 approves Glenn Parsons as the chair of the 802.1 working group
 - Proposed: John Messenger
 - Seconded: Stephan Kehrer
 - Y:56 N:0 A:0
 - Motion
 - 802.1 approves Jessy Rouyer as the vice-chair of the 802.1 working group
 - Proposed: Stephan Kehrer
 - Seconded: Ludwig Winkel
 - Y:53 N:0 A:2
- Reviewed the schedule for future interim sessions (slide 35), which remained unchanged from the opening plenary meeting except for the addition of the following dates:
 - January 18-21, 2021
 - The actual dates are January 18-22, 2021.
- Reviewed the schedule for future plenary sessions (slide 30):
 - November 8-13, 2020 in Bangkok, Thailand
 - Cancelled and changed to electronic due to COVID-19
 - March 14-19, 2021 in Denver, CO, USA
 - July 11-16, 2021 in Madrid, Spain (to be confirmed)
 - November 14-19, 2021 in Vancouver, BC, Canada
 - March 13-18, 2022 in Orlando, FL, USA
 - July 10-15, 2022 in Montreal, QC, Canada
 - November 13-18, 2022 in Bangkok, Thailand (to be confirmed)
- Provided guidance on how to use DirectVoteLive to continue voting on subsequent motions (slide 37).

- Conducted the following straw polls:

- Meeting planning - straw poll 1 (slide 38)

Given that IEEE 802 incurs significant expenses cancelling (plenary) face- to-face meetings, it has been suggested that a meeting fee be charged for attendance at electronic meetings substituting for those face-to-face plenaries. What would you consider the highest reasonable and fair registration fee range to be: (select one)

	WG members	All participants
– \$800-\$500	0	1
– \$500-\$300	5	6
– \$150-\$300	31	26
– Less than \$150	-	17
– My employer/sponsor is unwilling to pay meeting fees for electronic meetings	13	9
– Abstain	-	6

- Meeting planning - straw poll 2 (slide 39)

IEEE 802 typically holds 6 in-person sessions per year. Once government and company restrictions have been lifted, what do you perceive as the reasonable number of face to face meetings (plenaries and interims) per year? (the division between plenaries and interims is TBD)

	WG members	All participants
– 6	21	29
– 5	1	1
– 4	14	23
– 3	7	9
– 2	4	5
– 1	0	0
– 0	0	0
– Abstain	2	2

- Meeting planning - straw poll 3 (slide 40)

At in-person plenary sessions, typically over 90% of voting members attend. In the straw poll for November 2020, only 30% indicated they could attend. What should be the target threshold for an effective in-person session?

	WG members	All participants
– 30%	1	1
– 40%	0	0
– 50%	5	7
– 60%	6	10
– 70%	26	27
– 80%	9	12
– 90%	3	6
– Abstain	1	2

- Reviewed the WG's current workload (slide 41).
- Discussed promotion of the work of the WG (slide 42).

- Requested that the subgroup Chairs provide reports on the activities of their subgroups (slide 43) (see individual subgroup minutes above for details):
 - The Maintenance TG Chair, Paul Congdon, presented the report on slides 44-46.
 - The Security TG Chair, Mick Seaman, presented the report on slide 47.
 - The TSN TG Chair, János Farkas, the IEC/IEEE 60802 Joint Project Chair, Ludwig Winkel, and the TSN TG Vice-Chair, Craig Gunther, presented the report on slide 48.
 - The Nendica Chair, Roger Marks, presented the report on slide 49.
 - The YANGsters Chair, Scott Mansfield, presented the YANGsters report on slide 50.
- Led a brief review of incoming liaisons, draft outgoing liaisons as well as a draft blog post for 802.1AS to be finalized with IEEE marketing staff (slide 51).
- Showed the *802.1 consent agenda items for LMSC Closing Plenary* (slides 52-55).
- Conducted votes on the following motions (slides 56-104) that all passed unless otherwise indicated. (Supporting information is available in *Closing Agenda* slides finalized as <http://www.ieee802.org/1/files/public/minutes/2020-07-closing-plenary-slides.pdf>.)

**July 24, 2020 Motions for 802 EC
Consent Agenda
Drafts to RevCom**

- Motion
 - Approve sending P802.1Qcr to RevCom
 - Approve CSD documentation in <https://mentor.ieee.org/802-ec/dcn/16/ec-16-0056-00-ACSD-802-1qcr.pdf>
 - P802.1Qcr D2.3 had 98% approval at the end of the third Standards Association recirculation ballot
 - In the WG, Proposed: Johannes Specht, Second: János Farkas
 - Sending draft (y/n/a): 44, 2, 5
 - CSD (y/n/a): 43, 0, 2
- Motion
 - Approve sending P802E/D2.0 to RevCom
 - Approve CSD documentation in <http://www.ieee802.org/1/files/public/docs2015/802e-csd-1715-v00.pdf>
 - P802E/D2.0 had 95% approval, 91% return rate at the end of the second SA recirculation ballot
 - No further comments or vote changes received on that recirculation
 - 4 Disapprove votes, 11 unresolved Must Be Satisfied Comments
 - In the WG, Proposed: Mick Seaman, Second: Karen Randall
 - Sending draft (y/n/a): 45, 0, 7
 - CSD (y/n/a): 41, 0, 5

**July 24, 2020 Motions for 802 EC
Consent Agenda
Liaisons and external communications (II)**

- Motion
 - Approve <http://www.ieee802.org/1/files/public/docs2020/liaison-response-3GPP-SA2-survival-time-0720-v01.pdf> as communication to 3GPP SA WG2, granting the IEEE 802.1 WG chair (or his delegate) editorial license.
 - In the WG (y/n/a): 51, 0, 1
 - Proposed: János Farkas, Second: Jessy Rouyer

- Motion
 - Approve <http://www.ieee802.org/1/files/public/docs2020/liaison-802-1CQ-D0-5-0720-v01.pdf> as communication to IEEE 1722, granting the IEEE 802.1 WG chair (or his delegate) editorial license.
 - In the WG (y/n/a): 49, 0, 2
 - Proposed: Craig Gunther, Second: Geoffrey Garner
- Motion
 - Approve sharing the latest revision of the P802.1Qdd draft with LNI4.0
 - Proposed: Josef Dorr
 - Second: János Farkas
 - In the WG (y/n/a): 51, 0, 1

**July 24, 2020 Motions for 802 EC
Consent Agenda
Liaisons and external communications (ME)**

- Motion
 - Approve the blog post on IEEE Std 802.1AS-2020 in <http://www.ieee802.org/1/files/public/docs2020/as-draft-blog-post-0720-v01.pdf>, to be released with editorial changes as deemed necessary.
 - In the WG (y/n/a): 52, 0, 0
 - Proposed: János Farkas, Second: Norman Finn
- Motion
 - Approve submission of the following draft(s) to ISO/IEC JTC1/SC6 for information under the PSDO agreement
 - IEEE 802.1X-2020*
 - P802.1Qcr
 - P802.1CS
 - P802.1Qcz
 - P802.1AE-2018/Cor-1*
 - In the WG, Proposed: Paul Congdon Second: János Farkas
 - Sending draft (y/n/a): 52, 0, 1
 - NOTE: * sending published standard because SA ballot has completed.
- Motion
 - Approve submission of the following draft(s) to ISO/IEC JTC1/SC6 for adoption under the PSDO agreement, once approved and published.
 - P802.1CMde
 - IEEE 802.1X-2020
 - IEEE 802.1AE-2018/Cor-1
 - In the WG, Proposed: Paul Congdon Second: János Farkas
 - Sending draft (y/n/a): 51, 0, 1
 - NOTE: * sending under corrigendum process.
- Motion
 - Approve liaison of the following comment responses to ISO/IEC JTC1/SC6 under the PSDO agreement:
 - IEEE 802.1AE-2018
 - <http://www.ieee802.org/1/files/public/docs2020/maint-randall-SC6CommentResponse1AERevFDIS-0720-v02.pdf>
 - IEEE 802.1Xck-2018
 - <http://www.ieee802.org/1/files/public/docs2020/maint-randall-SC6CommentResponse1XckFDIS-0720-v01.pdf>
 - In the WG, Proposed: Paul Congdon Second: Mick Seaman

- Sending draft (y/n/a): 48, 0, 2

**August 4, 2020 Motions for 802 EC
Consent Agenda
NesCom**

- Motion
 - Approve forwarding P802.1ASdn PAR documentation in <http://www.ieee802.org/1/files/public/docs2020/dn-PAR-0520-v01.pdf> to NesCom
 - Approve CSD documentation in <http://www.ieee802.org/1/files/public/docs2020/dn-CSD-0520-v01.pdf>
 - In the WG, Proposed: Rodney Cummings, Second: János Farkas
 - PAR (y/n/a): 48, 0, 0
 - CSD (y/n/a): 47, 0, 1

**Administrative
WG Motions**

- Motion
 - 802.1 approves the May 2020 interim session minutes:
 - <http://www.ieee802.org/1/files/public/minutes/2020-05-minutes-v3.pdf>
 - Proposed: Jessy Rouyer
 - Seconded: János Farkas
 - Approved by Acclamation
- Motion
 - 802.1 approves to hold an 802.1 electronic interim session January 18-22, 2021
 - Proposed: János Farkas
 - Seconded: John Messenger
 - Approved by Acclamation
- Motion
 - 802.1 approves to hold an 802.1 interim session September 20-24, 2021 in Stuttgart, Germany hosted by Hirschmann Automation and Control GmbH
 - Proposal in:
 - <http://www.ieee802.org/1/files/public/docs2020/admin-kehrer-sep2021-interim-proposal-0720-v01.pdf>
 - Proposed: Stephan Kehrer
 - Seconded: János Farkas
 - Approved by Acclamation

**Maintenance TG
WG Motions**

- Motion
 - 802.1 authorizes the Maintenance TG to hold electronic meetings to address task group matters and progress resolution of maintenance items documented in the maintenance database (<https://1.ieee802.org/maintenance/database>).
 - Dates/times/agenda to be announced subject to notice of at least 10 days to the [802.1 Minutes email list](#).
 - Proposed: Paul Congdon
 - Second: Jessy Rouyer
 - Approved by Acclamation

- Motion
 - 802.1 authorizes John Messenger, the Editor of P802.1Q- Rev - Standard for Local and Metropolitan Area Networks-- Bridges and Bridged Networks to prepare drafts for and conduct Working Group balloting.
 - Proposed: Paul Congdon
 - Second: János Farkas
 - In the WG (y/n/a): 48, 0, 1

**Security TG
WG Motions**

- Motion
 - Authorize the Security Task Group to hold electronic meetings to progress P802.1AEdk and task group matters arising:
 - Dates/times/agenda to be announced subject to notice of at least 10 days to the [802.1 Minutes email list](#)
 - Proposed: Mick Seaman
 - Second: Karen Randall
 - Approved by Acclamation

**TSN TG
WG Motions**

- Motion
 - 802.1 authorizes the TSN Task Group to hold electronic meetings weekly on Mondays from 11:00 AM (US-Eastern) to 1:00 PM (US-Eastern) starting with July 27, 2020.
 - Agenda will be announced on the [802.1 Minutes email list](#) at least 5 calendar days before the electronic meeting.
 - Access information is posted on the <http://www.ieee802.org/1/tsn> page and will be updated as necessary.
 - Proposed: János Farkas
 - Second: Craig Gunther
 - Approved by Acclamation
- Motion
 - 802.1 authorizes the TSN TG to hold additional electronic meetings as needed to progress the projects of the Task Group.
 - Dates, times, and agenda to be announced subject to notice of at least 10 calendar days on the [802.1 Minutes email list](#).
 - Access information is posted on the <http://www.ieee802.org/1/tsn> page and will be updated as necessary.
 - Proposed: János Farkas
 - Second: Craig Gunther
 - Approved by Acclamation
- Motion
 - 802.1 authorizes the TSN Task Group to hold weekly electronic meetings together with IEC 65C/WG18 to progress the work of the IEC/IEEE 60802 Joint Project on Mondays from 9:00 AM (US-Eastern) to 11:00 AM (US-Eastern) starting July 27, 2020.
 - Agenda will be announced on the [802.1 Minutes email list](#) at least 5 calendar days before the electronic meeting.
 - Access information is posted on the <http://www.ieee802.org/1/tsn> page and will be updated as necessary.

- Proposed: János Farkas
- Second: Ludwig Winkel
- Approved by Acclamation
- Motion
 - 802.1 authorizes the TSN Task Group to hold weekly electronic meetings to progress the P802.1DG project on Tuesdays from 9:00 AM (US-Eastern) to 10:00 AM (US- Eastern) starting July 21, 2020.
 - Agenda will be announced on the [802.1 Minutes email list](#) at least 5 calendar days before the electronic meeting.
 - Access information is posted on the <http://www.ieee802.org/1/tsn> page and will be updated as necessary.
 - Proposed: Craig Gunther
 - Second: János Farkas
 - Approved by Acclamation
- Motion
 - 802.1 authorizes the TSN Task Group to hold ad hoc electronic meetings together with IEC 65C/WG18 to develop a system specification to progress the work of the IEC/IEEE 60802 Joint Project on Wednesdays from 11:00 AM (US-Eastern) to 12:00 PM (US-Eastern) starting July 22, 2020.
 - Agenda will be announced on the [802.1 Minutes email reflector](#) at least 5 calendar days before the electronic meeting.
 - Access information is posted on the <http://www.ieee802.org/1/tsn> page and will be updated as necessary.
 - Proposed: János Farkas
 - Second: Ludwig Winkel
 - Approved by Acclamation
- Motion
 - 802.1 authorizes Marc Holness, the Editor of P802f Overview and Architecture — Amendment: YANG Data Model for EtherTypes to prepare drafts for and conduct Task Group balloting.
 - Proposed: János Farkas
 - Second: Norm Finn
 - In the WG (y/n/a): 44, 1, 2
- Motion
 - 802.1 authorizes Stephen Haddock, the Editor of P802.1ABdh Station and Media Access Control Connectivity Discovery — Amendment: Support for Multiframe Protocol Data Units to prepare drafts for and conduct Task Group balloting.
 - Proposed: János Farkas
 - Second: Norm Finn
 - In the WG (y/n/a): 46, 1, 2
- Motion
 - 802.1 authorizes Geoffrey Garner, the Editor of P802.1ASdm Standard for Local and Metropolitan Area Networks: Timing and Synchronization for Time- Sensitive Applications — Amendment: Hot Standby to prepare drafts for and conduct Task Group balloting.
 - Proposed: János Farkas
 - Second: Günter Steindl
 - In the WG (y/n/a): 48, 0, 1
- Motion
 - 802.1 authorizes Christophe Mangin, the Editor of P802.1CBdb Frame Replication and Elimination for Reliability — Amendment: Extended Stream Identification Functions to prepare drafts for and conduct Working Group balloting.
 - Proposed: János Farkas

- Second: Ludwig Winkel
- In the WG (y/n/a): 47, 1, 1
- Motion
 - 802.1 authorizes TSN Task Group electronic meetings to generate PAR and CSD for pre-circulation to the EC for a standard to specify a TSN Profile for Aerospace.
 - Proposed: János Farkas
 - Second: Johannes Specht
 - In the WG (y/n/a): 45, 1, 4

Nendica WG Motions

- Motion
 - 802.1 authorizes Nendica to hold weekly electronic meetings each Thursday 09:00 AM - 11:00 AM ET.
 - Agenda will be announced on the [802.1 Minutes email list](#) at least 5 calendar days before the electronic meeting.
 - Access and agenda information are provided on the calendar at <https://1.ieee802.org/802-nendica/>. Proposed: Paul Congdon
 - Second: Roger Marks
 - Approved by Acclamation

YANGsters WG Motions

- Motion
 - 802.1 authorizes weekly electronic meetings for the YANGsters subgroup on Tuesdays from 10:00 AM (US- Eastern) to 11:00 AM (US-Eastern) starting July 28, 2020.
 - Agenda will be announced on the [802.1 Minutes email list](#) at least 5 calendar days before the electronic meeting.
 - Access information is posted on the <https://1.ieee802.org/yangsters/yangsters-call-information/> page and will be updated as necessary.
 - Proposed: Scott Mansfield
 - Second: János Farkas
 - Approved by Acclamation
- Called for Any Other Business (slide 105) and was reminded to ask the following two questions:
 - How was Direct Vote?
 - There was a license issue that prevented us from starting voting for ~60 minutes
 - Easy to use and the system did the count
 - Two meetings (elections & motions) was confusing
 - Motions should be in order
 - ~20% voters logged in but did not vote
 - Do you prefer the focused week of meetings in the session?
 - Several indicated support
 - Blocking the week off in one's schedule (especially when it is not your time zone) is preferable
 - Opportunity for better cross-participation
 - Suggestion to schedule hallway discussions, or have "office hours"

No further business was discussed in this meeting.

11:47 AM adjournment

10Next Session

Sep 21-25, 2020 electronic interim session.