









## 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: Marina Gutiérrez
  - IEC/IEEE 60802 Joint Project Chair: Ludwig Winkel
  - IEC/IEEE 60802 Joint Project Secretary: Josef Dorr
- Nendica Chair: Roger Marks
- YANGsters Chair: Scott Mansfield
  - YANGsters Vice-Chair and Secretary: Stephan Kehrer
- Maintenance of Email exploder: Hal Keen and Mark Hantel
- Maintenance of website: Paul Unbehagen

## 3 Opening Plenary Meeting

**Call to order** Nov 2, 2020 at 9:02 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 November 2020* slides finalized as <http://www.ieee802.org/1/files/public/minutes/2020-11-opening-plenary-slides.pdf>.

During this presentation, the Chair:

- Displayed the IEEE plaques that would have been presented to the IEEE 802 Chair for the 40<sup>th</sup> anniversary of IEEE 802 had the March 2020 plenary session been held in person (slide 2).
- Introduced the agendas on slide 3 that were approved.
- 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 11 (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 12 through 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 12);
  - Participants in the IEEE-SA "individual process" shall act independently of others, including employers (slide 13); and
  - IEEE-SA standards activities shall allow the fair & equitable consideration of all viewpoints (slide 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).
- Made subgroup announcements (slide 18) 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 19).
- Introduced 802.1 officers and leadership (slide 20).
- Reminded 802.1 voting members of their obligations regarding affiliation declaration (slide 21), voting membership (slide 22), and responding to WG ballots and E-Polls, as well as regarding the consequences of not responding to WG ballots and E-Polls (slide 23).
- Reviewed the list of 802.1 voters (slide 24), including information about individuals who may gain (slides 25 and 26), will lose (slide 27), may lose (slide 28) 802.1 voting membership.
- Reminded individual participants of 802.11 reciprocal credit, which was continued at this meeting (slide 29).
- Reviewed the schedule for future interim sessions (slide 30):
  - January 18-22, 2021
    - Changed to electronic due to COVID-19
  - May 3-7, 2021
    - Santa Fe, NM, USA hosted by Analog Devices
  - September 20-24, 2021
    - Stuttgart, DE

- Jan 10-14, 2022 (proposal)
  - Collocated with 802.3, followed by
    - Joint 802.1/802.3/ITU-T SG15 workshop Jan 15, 2020
    - ITU-T SG15 Jan 17-28, 2020
  - Geneva, CH
- 2022 proposals welcome
- Reviewed the schedule for future plenary sessions (slide 31):
  - March 14-19, 2021 in Denver, CO, USA
  - July 11-16, 2021 in Madrid, Spain
  - 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)
- Reviewed the list of dates by which the decision to hold a future session will have to be made (slide 32).
- Reported the following items out of the 802 Executive Committee (EC) plenary session #125 (electronic plenary session #1) (slide 33):
  - Standards Board Terminology ad hoc [re-scoped](#)
    - Identify a process for the review of terminology recommended or suggested for potential deprecation.
  - Industry Connections governance (ICcom)
    - Moved from SASB to BOG under the CAG / Industry SMDC
  - SA solutions ([EC-20-209](#))
    - myProject – Mentor/IMAT sync (which was broken) is now manual by staff request
    - Requirements study for document management and attendance – complete Q1-2021
    - DirectVoteLive license for all future meetings
  - Plenary optimization ([EC-20-174](#))
    - Add option for out-of-plenary tutorial
    - Non-controversial topics for EC closing can be deferred to monthly EC call
  - Rules (P&P, OM, CG & WG) meeting summary ([EC-20-220](#))
    - AudCom is reluctant to vary from P&P baseline. Changes may be required.
    - Rules changes “out of order” for opening EC
    - Attendance credit for electronic sessions. Desire to add this. Should we make each call an interim?
  - Treasurer ([EC-20-219](#))
    - Reserves \$700k.
    - Contractual penalties are mostly being waived
    - Dec 1 decision (may be pushed to Jan 16) - cancellation for March 2021 cost goes up Dec 31
    - Two hotels to allow space for COVID protocol - no early registration for March 2021 plenary
- Reviewed the list of 802 EC meetings to be held during this plenary session (slide 34).
- Provided information about public review (slide 35) and about the following email ballots (ePolls) since the last plenary session (slide 36):
  - [September WG motions](#)
    - ePoll 53
  - [October EC motions](#)
    - ePolls 47-52

- To progress work items outside an 802.1 plenary session, a series of 10-day electronic ballots using ePoll were conducted
  - <https://mentor.ieee.org/802.1/polls>
- Pointed out PARs, PAR modification and CSDs up for vote during this IEEE 802 plenary session (slide 37).
  - The Maintenance TG Chair presented “Comments on P802.11REVme, P802.11bh and P802.11bi PAR & CSD From 802.1”  
<https://www.ieee802.org/1/files/public/docs2020/admin-PAR-CSD-comments-802-11-1120-v01.pdf> and “Comments on P802.15.4aa PAR & CSD From 802.1”  
<https://www.ieee802.org/1/files/public/docs2020/admin-PAR-CSD-comments-802-15-1120-v01.pdf>.  
**Disposition:** Agreed (informally, none dissenting) for the 802.1 Chair to submit the presented comments on behalf of 802.1 by the Nov 3, 2020 deadline.
- Reviewed the list of liaisons incoming to 802.1 to be handled by the TSN TG and Maintenance TG (slide 38), indicating a new liaison tracking web page is at <https://1.ieee802.org/liaisons/liaisonstable/>.
- Discussed promotion of the work of the WG (slide 39), thanking Geoff Garner and Rodney Cummings for their work on the 802.1AS Beyond Standards blog post and requesting YANGsters provide text for a Beyond Standards blog post on 802.1Qcx and YANG in time for this session’s 802.1 closing plenary meeting.
  - The TSN TG Chair presented slide 40 summarizing the activities at TSN/A Conference 2020 and thanking the participants as well as IEEE SA in its role as lead exhibitor.
- 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).
- Reminded the Working Group of the logistics orientation to be held Nov 3, 2020 (slide 45).
- Requested that subgroup agendas be presented (slide 46):
  - The Maintenance TG Chair, Paul Congdon, presented the agenda on slide 47.
  - The Security TG Chair, Mick Seaman, presented the agenda on slide 48.
  - The TSN TG Chair, János Farkas, and the IEC/IEEE 60802 Joint Project Chair, Ludwig Winkel, presented the agenda on slide 49.
  - The Nendica Chair, Roger Marks, presented the agenda on slide 50.
  - The YANGsters Chair presented the YANGsters agenda on slide 51.
- Called for Any Other Business (slide 52).
  - No further business was discussed in this meeting.

11:05 AM adjournment



## 4 Maintenance Task Group

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

- Minutes of the Maintenance TG meeting held 2020-10-29 11:00 AM - 1:06 PM EDT - <https://listserv.ieee.org/cgi-bin/wa?A2=STDS-802-1-MINUTES;830b1583.20>

**Call to order** Nov 4, 2020 at 2:00 PM EST 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 Maintenance 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 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 and there were no responses to this Call prior to the end of the end of the session.
2. Approval of agenda. The Maintenance TG chair presented the agenda in <https://1.ieee802.org/november-2020-plenary-session-electronic-maintenance-agenda/>  
**Disposition:** The agenda was reviewed, discussed and agreed (informally, none dissenting) as presented. Maintenance item 0280 “time-aware should be PTP” <https://www.802-1.org/items/395> has been assigned to P802.1ASdn to resolve. However, that project does not have in its scope the standard statement to address maintenance items. The item needs to be resolved by P802.1ASdm instead. The Maintenance TG chair will update the maintenance item with this information.
3. SC6 Status. Karen Randall led the discussion of “JTC1 SC6 STATUS - Nov 2020” in “Maintenance Task Group Conference Call”  
<https://www.ieee802.org/1/files/public/docs2020/maint-congdon-concall-1120-v01.pdf>.  
**Disposition:** Noted for information.
4. SC6 Liaisons. The Maintenance TG chair led a discussion of “LS on OTNT Standardization Work Plan Issue 28”  
[https://www.ieee802.org/1/files/public/docs2020/liaison-SG15-LS268-OTNT\\_standardization\\_workplan-920.zip](https://www.ieee802.org/1/files/public/docs2020/liaison-SG15-LS268-OTNT_standardization_workplan-920.zip).  
**Disposition:** The incoming liaison can be responded to in March 2021. The Maintenance TG chair will review and update the document in the January 2021 timeframe.
5. High-priority New Maintenance item for potential 802.1AS-2020 Corrigendum. The Maintenance TG chair led a discussion of maintenance item 0295 “802.1AS-2020 maintenance request” <https://www.802-1.org/items/406>.  
**Disposition:** Agreed (informally, none dissenting) to raise a Corrigendum against 802.1AS-2020. The scope should be written to allow other maintenance items to be included if deemed necessary. The Maintenance TG chair and the 802.1AS editor will review the current list of maintenance items against 802.1AS-2020 and make a proposal. The

Corrigendum PAR is to be developed offline and reviewed at a future meeting.

6. QRev Comment Resolution. John Messenger, P802.1Q-Rev editor, presented “802.1Q-Rev Bridges and Bridged Networks Editor’s report”  
<https://www.ieee802.org/1/files/public/docs2020/q-rev-messenger-editor-report-1120-v01.pdf>, “802.1Q Revision plan2020” <https://www.ieee802.org/1/files/public/docs2020/q-messenger-revision-plan-1120-v1.pdf> and led the resolution of comments received on <https://www.ieee802.org/1/files/private/q-rev-drafts/d0/802-1Q-rev-d0-2.pdf> based on <https://www.ieee802.org/1/files/private/q-rev-drafts/d0/802-1q-rev-d0-2-pdis-v1.pdf>.  
**Disposition:** Comments 3, 20, 21, 22, 86 were resolved. Comment 23 requires further discussion. Partial disposition: <https://www.ieee802.org/1/files/private/q-rev-drafts/d0/802-1q-rev-d0-2-pdis-v2.pdf>. An ad hoc meeting to further discuss the EPD/LPD comments is scheduled for Friday, Nov 6, 2020 at 4:15 PM EST.
7. Any Other Business. No other business was discussed by the Maintenance TG in this meeting.
8. Future meetings. Agreed (informally, none dissenting) to hold an ad hoc meeting on Friday, Nov 6, 2020 at 4:15 PM EST and another meeting on Monday, Nov 9, 2020 at 9:00 AM EST. Future electronic meetings to be announced on the 802.1 email list with specific dates/times subject to notice of at least 10 days.

4:09 PM EST recess

**Call to order** Nov 6, 2020 at 4:15 PM EST 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:

9. Meeting introduction. The Maintenance 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 dominancecontained 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 end of the session.
10. Approval of agenda. The Maintenance TG chair presented the agenda in <https://1.ieee802.org/november-2020-plenary-session-electronic-maintenance-agenda/>  
**Disposition:** The agenda was reviewed, discussed and agreed (informally, none dissenting) as presented.
11. Q-Rev EPD/LPD Comment Resolution. John Messenger, P802.1Q-Rev editor, led the discussion of EPD/LPD comments received on <https://www.ieee802.org/1/files/private/q-rev-drafts/d0/802-1Q-rev-d0-2.pdf>. Roger Marks presented “Proposed changes to IEEE P802.1Q-Rev/D0.2 to resolve WG Ballot Comments #21, #22, and #23 related to EPD and LPD” <https://www.ieee802.org/1/files/public/docs2020/maint-marks-q-rev-EPD-LPD-v01.pdf>: was reviewed and revised.  
**Disposition:** Roger Mark’s comments were resolved as recorded in <https://www.ieee802.org/1/files/public/docs2020/maint-marks-q-rev-EPD-LPD-v02.pdf>.

Comments 1, 2, 5, 6, 7, 8, 9, 26, 27, 28, 67, 70, 73, 75, 76, 77, 78, 81, 90 and 98 were also discussed and resolved. Updated partial disposition:

<https://www.ieee802.org/1/files/private/q-rev-drafts/d0/802-1q-rev-d0-2-pdis-v3.pdf>. The remaining comments are to be reviewed during the Monday, Nov 9, 2020 meeting.

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

6:12 PM EST recess

**Call to order** Nov 9, 2020 at 9:01 AM EST 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:

13. Meeting introduction. The Maintenance 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

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 and there were no responses to this Call prior to the end of the end of the session.

14. Approval of agenda. The Maintenance TG chair presented the agenda in <https://1.ieee802.org/november-2020-plenary-session-electronic-maintenance-agenda/>.

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

15. Withdrawal of 802.1D. The Maintenance TG chair led a discussion about the status of withdrawing 802.1D. The following contributions were presented and discussed.

- PAR proposal – Roger Marks  
<https://www.ieee802.org/1/files/public/docs2020/maint-Marks-D-rev-draft-PAR-1120-v00.pdf>
- Associated maintenance items – Paul Congdon
  - 802 - <https://www.802-1.org/items/403>
  - 802.1AC - <https://www.802-1.org/items/417>
  - 802.1BA - <https://www.802-1.org/items/416>
  - 802.1BR - <https://www.802-1.org/items/415>
- Liaison draft(s) review - Paul Congdon
  - Template draft for other SDOs -  
<https://www.ieee802.org/1/files/public/docs2020/admin-draft-liaison-template-8021D-withdrawal-1120-v01.pdf>
  - Template draft for a generic liaison -  
<https://www.ieee802.org/1/files/public/docs2020/admin-draft-liaison-generic-template-8021D-withdrawal-1120-v01.pdf>

**Disposition:** It was determined there are three options related to 802.1D withdrawal; active withdrawal (current plan), administrative withdrawal (effectively do nothing and let it expire) and raise a revision PAR and modify the standard text to point to 802.1Q (the PAR

proposal). Agreed (informally, none dissenting) to continue with the plan to actively withdraw IEEE Std 802.1D-2004. The Maintenance TG chair will submit a maintenance item to instruct the changes needed within 802.1Q to remove 802.1D references. Maintenance items for 802.3 are to be reviewed offline before being submitted. Updated liaison text to other SDOs was developed and is to be uploaded to docs2020 for the motions at the 802.1 closing plenary meeting. Motions for initiating an SA ballot and sending liaisons are to be made at the 802.1 closing plenary meeting.

16. P802.1QRev/d0.2 Comment resolution. John Messenger, P802.1Q-Rev editor, continued the resolution of comments received on <https://www.ieee802.org/1/files/private/q-rev-drafts/d0/802-1Q-rev-d0-2.pdf> based on <https://www.ieee802.org/1/files/private/q-rev-drafts/d0/802-1q-rev-d0-2-pdis-v4.pdf>.

**Disposition:** Comments 16, 21-24, 62, 63, 72, 79, 82, 87, 88 were resolved. Final disposition: <https://www.ieee802.org/1/files/private/q-rev-drafts/d0/802-1q-rev-d0-2-dis-v1.pdf>. A motion to conditionally move to SA ballot is planned for the 802.1 closing plenary meeting.

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

11:16 AM EST adjournment

## 5 Security Task Group

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

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 Vice-Chair during the meetings:

Andersdotter, Amelia	Independent	Mon PM
Congdon, Paul	Tallac	Wed AM, Thu AM
Cummings, Rodney	NI	
Dubrawski, Rich	Viasat Inc	Mon PM, Wed AM, Thu AM, Fri PM
Fedyk, Don	LabN Consulting	Mon PM, Wed AM, Thu AM, Fri PM
Haddock, Stephen	Haddock LLC	Mon PM, Wed AM, Thu AM
Henry, Jerome	Cisco	Mon PM, Wed AM, Thu AM, Fri PM
Kelsey, Randy	Engineering Solns.	Mon PM, Wed AM, Thu AM, Fri PM
Kim, Yong	Axonne	Thu AM
Krieger, Ann	US DoD	Mon PM
McIntosh, James	Microchip	Mon PM, Wed AM, Thu AM, Fri PM
Palmer, Clark	?	Mon PM
Parsons, Glenn	Ericsson	Mon PM, Wed AM, Fri PM
Randall, Karen	Randall Consulting	Mon PM, Wed AM, Thu AM, Fri PM
Seaman, Mick	Independent	Mon PM, Wed AM, Thu AM, Fri PM

**Call to order** Nov 2, 2020 at 1:30 PM EST by Mick Seaman, IEEE 802.1 Security TG Chair, who presided and wrote the minutes assisted by Karen Randall, Security TG Vice-Chair.

Agenda items and dispositions:

1. Meeting introduction. The TG Chair reminded participants that information on the following topics was made available before the meeting, is referenced on the IEEE 802.1 and IEEE SA websites, and was presented during the 802.1 WG opening plenary meeting:
  - The IEEE SA Copyright Policy
  - The IEEE SA Policy
  - IEEE Codes of Ethics and Conduct
  - A reminder for participants to register their attendance in IMAT

The TG Chair showed the presentation

<http://www.ieee802.org/1/files/public/templates/admin-WG+TG-intro-0720-v01.pdf>

summarizing this material. The Call for Potentially Essential Patents was made at the beginning of this meeting and at the beginning of the TG meetings on Nov 4, 2020, Nov 5, 2020, and Nov 6, 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/november-2020-plenary-security-agenda/>  
**Disposition:** the agenda was reviewed, discussed and agreed (informally, none dissenting). Comments on the proposed 802.11 PARs discussed during prior meetings had been forwarded to 802.11, participants were invited to join the 802.11 electronic meeting on Tuesday Nov 3, 2020 at 1:30 PM EST.

3. P802.1AEdk MAC Privacy protection - Draft development

- 3.1. P802.1AEdk/D0.5 Task Group Ballot resolution

Don Fedyk, P802.1AEdk Editor, led the discussion and resolution of the comments received in the Task Group ballot on <https://www.ieee802.org/1/files/private/dk-drafts/d0/802-1AEdk-d0-5.pdf> as documented in the proposed disposition of comments: <https://www.ieee802.org/1/files/private/dk-drafts/d0/802-1AEdk-d0-5-pdis00.pdf>.

Proposed and final disposition of comments will be captured in updated disposition of comments. Points arising in discussion not directly related to specific comments:

- Membership lists (page 12 line 7 and page 13 below line 6) to be removed. Keep Chairs, Editor etc.
- Clause 18 has probably too much text. Compare with Clause 17 after proposed restructuring of Clause 17. Other material may be better placed in Clause 20, particularly when the discussion is of how the protocol is used (Privacy Frame, Privacy Channel). Also, should not overlap with encoding detail in Clause 19.
- EDE-M has not been considered. What (if anything) should be done for priority support in an EDE-M. Need to check TPMR functionality as a guide.

3:29 PM EST recess

**Call to order** Nov 4, 2020 at 11:05 AM EST by Karen Randall, Security TG Vice-Chair. Mick Seaman, IEEE 802.1 Security TG Chair, wrote the minutes assisted by the Vice-Chair.

Don Fedyk, P802.1AEdk Editor, continued the discussion and resolution of the comments received in the Task Group ballot on

<https://www.ieee802.org/1/files/private/dk-drafts/d0/802-1AEdk-d0-5.pdf>.

Points arising in discussion not directly related to, or going beyond specific comments and their disposition:

- Per priority per interface privacy selection (use or otherwise of encapsulation, padding, packing multiple user data frames and controlling timing) addresses variety of application needs.

- Some applications/uses do not require confidentiality (integrity is important), but MACsec does not support per frame choice of integrity only.
- Potential effects on TCP may need clearer/stronger statement.

Potential continual reduction in real traffic if padded traffic does not respond to loss. Important to remain within SLA. Fragmentation important to minimize bandwidth variation resulting from unpredictable packing of interacting streams.

- Always an option to do privacy selection at the stream level.

12:55 PM EST recess

**Call to order** Nov 5, 2020 at 11:02 AM EST by Mick Seaman, IEEE 802.1 Security TG Chair, who presided and wrote the minutes assisted by Karen Randall, Security TG Vice-Chair.

Don Fedyk, P802.1AEdk Editor, continued the discussion and resolution of the comments received in the Task Group ballot on

<https://www.ieee802.org/1/files/private/dk-drafts/d0/802-1AEdk-d0-5.pdf>.

Points arising in discussion not directly related to, or going beyond specific comments and their disposition:

- The MPPDU Destination Addresses will be scoped by VLAN, so will only reach those peers that can receive on that VLAN. That is important where the VLAN is being provided by a service provider. Use of the MKA Group Address means that the privacy protected frames will go to the same places that MACsec protected frames can reach.
- It is (almost) inevitable that an observer with access to the medium (whether service provider connectivity or otherwise) will be able to deduce that privacy protection is in use.

12:57 PM recess

**Call to order** Nov 6, 2020 at 1:30 PM EST by Mick Seaman, IEEE 802.1 Security TG Chair, who presided and wrote the minutes assisted by Karen Randall, Security TG Vice-Chair.

Don Fedyk, P802.1AEdk Editor, continued the discussion and resolution of the comments received in the Task Group ballot on

<https://www.ieee802.org/1/files/private/dk-drafts/d0/802-1AEdk-d0-5.pdf>.

Points arising in discussion not directly related to, or going beyond specific comments and their disposition:

- Update nextPN should not be a management capability, it reflects what can be required internal to a system. The general point here regarding UML is the need (in some cases) to distinguish capabilities by who or what can access them.
- The tables 13-5 through 13-8 and 22-1 that map from the MIB and YANG to the normative description of objects and operations and the UML are extensive, very hard to check, and unlikely to be reviewed. While they may be used by editors in generating the standard it may be better to replace by a set of guidelines for transforming names between the various conventions and a smaller list of exceptions. Moving the tables to a temporary annex might be a first step.
- Operations to read back keys need to be removed.

**Disposition:** Discussion to be continued in electronic meetings. Updated proposed disposition of comments for the Task Group ballot:

<https://www.ieee802.org/1/files/private/dk-drafts/d0/802-1AEdk-d0-5-pdis02.pdf>.

3.2. General draft development

Don Fedyk presented “YANG based Config for MAC Privacy 802.1AEdk Granularity of Privacy Configuration” <https://www.ieee802.org/1/files/public/docs2020/dk-fedyk-dot1aedk-privacy-config-1120-v00.pdf>.

**Disposition:** For information.

4. Any Other Business

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

5. Future meetings.

An electronic meeting to continue P802.1AEdk/D0.5 Task Group ballot resolution will be scheduled for Nov 24, 2020 1:00 PM EST, with further electronic meetings prior to the January 2021 electronic 802.1 interim session in the week of Jan 18, 2020.

3.05 PM EST 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 electronic meetings whose minutes are incorporated to these session minutes by reference as follows:

- Minutes of the IEEE 802.1 TSN TG meeting held Sep 28, 2020 11:00 AM - 1:00 PM EDT <https://listserv.ieee.org/cgi-bin/wa?A2=ind20&L=STDS-802-1-MINUTES&O=D&P=121827>.
- Minutes of the IEEE P802.1DG, meeting held 2020-09-29 9:00 AM - 10:33 AM EDT <https://listserv.ieee.org/cgi-bin/wa?A2=ind20&L=STDS-802-1-MINUTES&O=D&P=102369>.
- Minutes of the IEEE 802.1 TSN TG meeting held 2020-10-05 11:00 AM - 1:00 PM EDT <https://listserv.ieee.org/cgi-bin/wa?A2=ind20&L=STDS-802-1-MINUTES&O=D&P=122787>.
- Minutes of the IEEE P802.1DG, meeting held 2020-10-06 9:00 AM - 10:02 AM EDT (revised) <https://listserv.ieee.org/cgi-bin/wa?A2=ind20&L=STDS-802-1-MINUTES&O=D&P=111982>.
- Minutes of the IEEE 802.1 TSN TG meeting held 2020-10-12 11:00 AM - 1:15 PM EDT <https://listserv.ieee.org/cgi-bin/wa?A2=ind20&L=STDS-802-1-MINUTES&O=D&P=123791>.
- Minutes of the IEEE P802.1DG, meeting held 2020-10-13 9:00 AM - 9:59 AM EDT <https://listserv.ieee.org/cgi-bin/wa?A2=ind20&L=STDS-802-1-MINUTES&O=D&P=117495>.
- Minutes of the IEEE 802.1 TSN TG meeting held 2020-10-19 11:00 AM - 1:00 PM EDT <https://listserv.ieee.org/cgi-bin/wa?A2=STDS-802-1-MINUTES;e1a4bf1d.20>.
- Minutes of the IEEE P802.1DG, meeting held 2020-10-20 9:00 AM - 10:03 AM EDT <https://listserv.ieee.org/cgi-bin/wa?A2=ind20&L=STDS-802-1-MINUTES&O=D&P=128392>.
- Minutes of the IEEE 802.1 TSN TG meeting held 2020-10-26 11:00 AM - 1:02 PM EDT (revised) <https://listserv.ieee.org/cgi-bin/wa?A2=ind20&L=STDS-802-1-MINUTES&O=D&P=136256>.
- Minutes of the IEEE P802.1DG, meeting held 2020-10-27 9:00 AM - 10:00 AM EDT <https://listserv.ieee.org/cgi-bin/wa?A2=ind20&L=STDS-802-1-MINUTES&O=D&P=137819>.

**Call to order** Nov 02, 2020 at 2:00 PM by János Farkas, TSN TG Chair, who presided. Marina Gutiérrez, 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. The 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 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: there were no responses to this Call prior to the end of the end of the session.
2. Approval of agenda. The TSN TG Chair presented the agenda in <https://1.ieee802.org/2020-09-tsn-agenda/>.  
**Disposition:** The agenda was reviewed, discussed and agreed (informally, none dissenting) as presented.
3. Josef Dorr presented “LNI 4.0 feedback on P802.1Qdd”  
[https://www.ieee802.org/1/files/public/docs2020/liaison-LNI40-Qdd\\_feedback-1020.pdf](https://www.ieee802.org/1/files/public/docs2020/liaison-LNI40-Qdd_feedback-1020.pdf).  
**Disposition:** Liaison reviewed. Liaison response to be drafted during the session.
4. The TSN TG Chair presented “LS on Response to LS on TSN support in 3GPP Release-16 stage 2 completion” [https://www.ieee802.org/1/files/public/docs2020/liaison-3GPP-S2-2007821\\_Vertical\\_LAN-1120.pdf](https://www.ieee802.org/1/files/public/docs2020/liaison-3GPP-S2-2007821_Vertical_LAN-1120.pdf).  
**Disposition:** Liaison reviewed. Liaison response to be drafted in a TSN TG ad hoc meeting to be held during the session.
5. Jessy Rouyer presented “LS on revision of G.8012 and G.8021”  
<https://www.ieee802.org/1/files/public/docs2020/liaison-SG15-LS271-G8012-G8021-0920.pdf>.  
**Disposition:** Liaison reviewed. Liaison response to be drafted.
6. The TSN TG Chair led the drafting of <https://www.ieee802.org/1/files/public/docs2020/new-farkas-BA-Rev-draft-PAR-1120-v01.pdf>.  
**Disposition:** Draft PAR discussed. More discussion needed.
7. The TSN TG Chair presented draft motions for 802.1 closing plenary meeting approval.  
**Disposition:** Draft motions reviewed for 802.1 closing plenary meeting approval.
8. Norman Finn presented “Tying YANG QoS Modules to Interfaces, Not to Bridge Ports”  
<https://www.ieee802.org/1/files/public/docs2020/cw-finn-interfaces-not-ports-1120-v04.pdf>.  
**Disposition:** Supporting a ballot comment. Anticipated next: YANGsters discussion.
9. Marina Gutiérrez, P802.1Qcw editor, led the resolution on comments received on <https://www.ieee802.org/1/files/private/cw-drafts/d1/802-1Qcw-d1-2.pdf>.  
**Disposition:** Comments discussed. No comment was resolved.



4:09 PM recess

**Call to order** Nov 4, 2020 at 9:00 AM by Craig Gunther, TSN TG Vice Chair, who presided. Marina Gutiérrez, TSN TG Secretary, wrote the minutes.

10. Meeting introduction. The TSN TG Vice 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.
11. Craig Gunther, P802.1DG editor, presented “P802.1DG/D1.2 Editor’s Report for Ballot Comment Resolution (v21)” <https://www.ieee802.org/1/files/public/docs2020/dg-cgunther-editors-report-d1-2-1020-v21.pdf> and continued the resolution of comments received on <http://www.ieee802.org/1/files/private/dg-drafts/d1/802-1DG-d1-2.pdf>.  
**Disposition:** Ballot comments 9, 10, 11, 12, 91, 92, 125, 126, 127, 131, 133, 137, 147, 148 discussed and resolved as documented in <https://www.ieee802.org/1/files/private/dg-drafts/d1/802-1DG-d1-2-dis-v01.pdf>.

11:03 AM recess

**Call to order** Nov 4, 2020 at 11:30 AM by János Farkas, TSN TG Chair, who presided. Marina Gutiérrez, TSN TG Secretary, wrote the minutes.

12. Meeting introduction. 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.
13. Ganesh Venkatesan presented “802.1 TSN over 802.11 with updates from developments in 802.11be” <https://www.ieee802.org/1/files/public/docs2020/new-Cavalcanti-802-1TSN-over-802-11-1120-v02.pdf>.  
**Disposition:** Presentation discussed.
14. Christophe Mangin, P802.1CBdb editor, presented “802.1CBdb/D1.0 Editor’s report for the 1<sup>st</sup> WG ballot comments resolution” <https://www.ieee802.org/1/files/public/docs2020/db-mangin-d1-0-editors-report-1020-v01.pdf> and led the resolution of comments received on <https://www.ieee802.org/1/files/private/db-drafts/d1/802-1CBdb-d1-0.pdf>.  
**Disposition:** Comments discussed. Partial disposition recorded in <https://www.ieee802.org/1/files/private/db-drafts/d1/802-1CBdb-d1-0-pdis-v03.pdf>.

1:55 PM recess

**Call to order** Nov 5, 2020 at 11:30 AM by János Farkas, TSN TG Chair, who presided. Marina Gutiérrez, TSN TG Secretary wrote the minutes.

15. Meeting introduction. 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.
16. Feng Cheng, P802.1Qdd editor, presented “IEEE P802.1Qdd Resource Allocation Protocol (RAP) RAP Participant in Draft 0.3” <https://www.ieee802.org/1/files/public/docs2020/dd-chen-D0-3-rap-participant-1120-v01.pdf> and <https://www.ieee802.org/1/files/private/dd-drafts/d0/802-1Qdd-d0-3.pdf>.  
**Disposition:** Presentation and draft 0.3 discussed. Anticipated next: third TG ballot.
17. Stephan Kehrer, P802.1Qdj editor, presented <https://www.ieee802.org/1/files/private/dj-drafts/d0/802-1Qdj-d0-0.pdf>.  
**Disposition:** Draft discussed. Anticipated next: first TG ballot.

18. Geoffrey Garner, P802.1ASdm editor, presented “Initial Plans and Assumptions for 802.1ASdm” <https://www.ieee802.org/1/files/public/docs2020/dm-garner-plans-1120-v00.pdf>.

**Disposition:** Presentation discussed. Related to an ongoing project.

1:39 PM recess

**Call to order** Nov 5, 2020 at 2:00 PM by János Farkas, TSN TG Chair, who presided. Craig Gunther, TSN TG Vice-Chair, wrote the minutes.

19. Meeting introduction. 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.
20. Craig Gunther, P802.1DG editor, presented “P802.1DG/D1.2Editor’s Report forBallot Comment Resolution (v21)” <https://www.ieee802.org/1/files/public/docs2020/dg-cgunther-editors-report-d1-2-1020-v21.pdf> and continued the resolution of comments received on <http://www.ieee802.org/1/files/private/dg-drafts/d1/802-1DG-d1-2.pdf>.

**Disposition:** Ballot comments 2, 7, 8, 38, 77, 81, 94, 100, 105, 116, 117, 119, 120, 136, 157 discussed and resolved as documented in <https://www.ieee802.org/1/files/private/dg-drafts/d1/802-1DG-d1-2-dis-v01.pdf>.

4:06 PM recess

**Call to order** Nov 5, 2020 at 4:06 PM by János Farkas, TSN TG Chair, who presided. Jessy Rouyer, Recording Secretary, wrote the minutes.

21. Ad hoc meeting introduction. The TSN TG Chair announced that this ad hoc meeting is subject to the Copyright Policy, Patent policy and Participants Policy as read and displayed at the opening plenary meeting. He made the Call for Potentially Essential Patents: there were no responses to this Call prior to the end of the end of this ad hoc meeting. He also made a call for members of the press: there were no responses to this call prior to the end of this ad hoc meeting.
22. Approval of agenda. The TSN TG Chair presented the agenda in <https://1.ieee802.org/2020-09-tsn-agenda/>.
- Disposition:** The agenda was reviewed, discussed and agreed (informally, none dissenting) as presented.
23. The TSN TG Chair led the drafting of the response to “LS on Response to LS on TSN support in 3GPP Release-16 stage 2 completion” [https://www.ieee802.org/1/files/public/docs2020/liaison-3GPP-S2-2007821\\_Vertical\\_LAN-1120.pdf](https://www.ieee802.org/1/files/public/docs2020/liaison-3GPP-S2-2007821_Vertical_LAN-1120.pdf).

**Disposition:** Liaison response drafted.

6:51 PM ad hoc adjournment

**Call to order** Nov 6, 2020 at 11:30 AM by János Farkas, TSN TG Chair, who presided. Marina Gutiérrez, TSN TG Secretary wrote the minutes.

24. Meeting introduction. 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.

25. János Farkas led the resolution of comments received on <https://www.ieee802.org/1/files/public/docs2020/dp-PAR-1120-v01.pdf> and <https://www.ieee802.org/1/files/public/docs2020/dp-CSD-1120-v01.pdf>.  
**Disposition:** Comments discussed. Responses recorded in <https://www.ieee802.org/1/files/public/docs2020/dp-PAR-CSD-comments-1120-v01.pdf>.  
Anticipated next: motion for 802.1 closing plenary to send PAR and CSD to NesCom.
26. The TSN TG Chair led the drafting of <https://www.ieee802.org/1/files/public/docs2020/new-farkas-BA-Rev-draft-PAR-1120-v01.pdf>.  
**Disposition:** Draft PAR discussed. Anticipated next: motion for 802.1 closing plenary to send the PAR to NesCom.
27. János Farkas led the review of the response to “LS on Response to LS on TSN support in 3GPP Release-16 stage 2 completion”  
[https://www.ieee802.org/1/files/public/docs2020/liaison-3GPP-S2-2007821\\_Vertical\\_LAN-1120.pdf](https://www.ieee802.org/1/files/public/docs2020/liaison-3GPP-S2-2007821_Vertical_LAN-1120.pdf) drafted in the TSN TG ad hoc meeting held Nov 5, 2020.  
**Disposition:** Draft liaison response discussed. More discussion needed.
28. János Farkas led the drafting of the response to “LNI 4.0 feedback on IEEE802.1Qdd”  
[https://www.ieee802.org/1/files/public/docs2020/liaison-LNI40-Qdd\\_feedback-1020.pdf](https://www.ieee802.org/1/files/public/docs2020/liaison-LNI40-Qdd_feedback-1020.pdf).  
**Disposition:** Liaison response drafted. Anticipated next: motion for 802.1 closing plenary approval.

1:30 - 2:00 PM recess

29. Stephen Haddock, P802.1ABdh editor, led the resolution of comments received on <https://www.ieee802.org/1/files/private/dh-drafts/d0/802-1ABdh-d0-1.pdf>.  
**Disposition:** Comments discussed. Partial disposition recorded in <https://www.ieee802.org/1/files/private/dh-drafts/d0/802-1ABdh-d0-1-pdis-v02.pdf>.

4:07 PM recess.

**Call to order** Nov 9, 2020 at 11:30 AM by János Farkas, TSN TG Chair, who presided. Marina Gutiérrez, TSN TG Secretary wrote the minutes.

30. Meeting introduction. 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.
31. Hiroki Nakano presented “Proposal for New Annex “TrafficSpecification settings for bursty traffic with bounded latency”” <https://www.ieee802.org/1/files/public/docs2020/new-nakano-TSpec-for-bursty-traffic-1120-v03.pdf>.  
**Disposition:** Presentation discussed. Anticipated next: motion for 802.1 closing plenary to authorize drafting of PAR and CSD.
32. Roger Marks led the drafting of “Liaison regarding IEEE P802.1CQ draft sharing”  
<https://www.ieee802.org/1/files/public/docs2020/liaison-P802-1CQ-draft-sharing-with-IEEE-1722-1120-v01.pdf>.  
**Disposition:** Liaison drafted. Anticipated next: motion for 802.1 closing plenary approval.
33. Roger Marks, P802.1CQ editor, led the resolution of comments received on <https://www.ieee802.org/1/files/private/cq-drafts/d0/802-1CQ-d0-5.pdf>.  
**Disposition:** Comments discussed. Final disposition recorded in <https://www.ieee802.org/1/files/private/cq-drafts/d0/802-1CQ-d0-5-dis.pdf>.
34. Roger Marks presented “P802.1CQ Flowchart Update”  
<https://www.ieee802.org/1/files/public/docs2020/cq-marks-flowcharts-1120-v02.pdf>.  
**Disposition:** Presentation discussed. Related to an ongoing project.

35. Antonio de la Oliva presented “P802.1CQ PDU Format v2”  
<https://www.ieee802.org/1/files/public/docs2020/cq-oliva-PDU-1120-v01.pdf>.  
**Disposition:** Presentation discussed. Related to an ongoing project.
36. Antonio de la Oliva presented “IEEE 802.1CQ interaction with IEEE 802.11”  
<https://www.ieee802.org/1/files/public/docs2020/cq-oliva-CQin11-1120-v00.pdf>.  
**Disposition:** Presentation discussed. Related to an ongoing project.

1:38 - 2:00 PM recess.

37. The TSN TG Chair led the drafting of <https://www.ieee802.org/1/files/public/docs2020/AS-Cor1-PAR-1120-v01.pdf>.  
**Disposition:** PAR drafted. Anticipated next: motion for 802.1 closing plenary to send the PAR to NesCom.
38. The TSN TG Chair led further drafting of the response to “LS on Response to LS on TSN support in 3GPP Release-16 stage 2 completion”  
[https://www.ieee802.org/1/files/public/docs2020/liaison-3GPP-S2-2007821\\_Vertical\\_LAN-1120.pdf](https://www.ieee802.org/1/files/public/docs2020/liaison-3GPP-S2-2007821_Vertical_LAN-1120.pdf).  
**Disposition:** Liaison response drafted further. Anticipated next: motion for 802.1 closing plenary approval.
39. Jessy Rouyer led the drafting of outgoing liaison “Publication of IEEE Std 802.1Qcx™-2020” <https://www.ieee802.org/1/files/public/docs2020/liaison-Qcx-publication-1120-v01.pdf>.  
**Disposition:** Liaison discussed. Anticipated next: motion for 802.1 closing plenary approval.
40. Christophe Mangin, P802.1CBdb editor, presented “802.1CBdb/D1.0 Editor’s report for the 1<sup>st</sup> WG ballot comments resolution” <https://www.ieee802.org/1/files/public/docs2020/db-mangin-d1-0-editors-report-1020-v01.pdf> and led the resolution of comments received on <https://www.ieee802.org/1/files/private/db-drafts/d1/802-1CBdb-d1-0.pdf>.  
**Disposition:** Comments discussed. Partial disposition recorded in <https://www.ieee802.org/1/files/private/db-drafts/d1/802-1CBdb-d1-0-pdis-v03.pdf>.
41. Rodney Cummings presented “Update on IEEE 1588 Projects and IEEE P802.1ASdn”  
<https://www.ieee802.org/1/files/public/docs2020/dn-cummings-update-on-1588-and-802-1ASdn-1120-v01.pdf>.  
**Disposition:** Presentation discussed. Related to an ongoing project.
42. Marina Gutiérrez, P802.1Qcw editor, led the resolution on comments received on <https://www.ieee802.org/1/files/private/cw-drafts/d1/802-1Qcw-d1-2.pdf>.  
**Disposition:** Comments discussed. Intermediate disposition recorded in <https://www.ieee802.org/1/files/private/cw-drafts/d1/802-1Qcw-d1-2-pdis-v02.pdf>.

4:33 PM adjournment

## 6.1 IEC/IEEE 60802 Joint Project

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

- Minutes of the IEC/IEEE 60802 Joint Project meeting held 2020-09-28 9:00 AM - 11:00 AM EDT <https://listserv.ieee.org/cgi-bin/wa?A2=ind20&L=STDS-802-1-MINUTES&O=A&P=106911>
- Minutes of the IEC/IEEE 60802 Joint Project meeting held 2020-10-05 9:00 AM - 11:00 AM EDT <https://listserv.ieee.org/cgi-bin/wa?A2=ind20&L=STDS-802-1-MINUTES&O=A&P=106082>
- Minutes of the IEC/IEEE 60802 Joint Project meeting held 2020-10-12 9:00 AM - 11:00 AM EDT <https://listserv.ieee.org/cgi-bin/wa?A2=ind20&L=STDS-802-1-MINUTES&O=A&P=115981>
- Minutes of the IEC/IEEE 60802 Joint Project meeting held 2020-10-19 9:00 AM - 11:00 AM EDT <https://listserv.ieee.org/cgi-bin/wa?A2=ind20&L=STDS-802-1-MINUTES&O=A&P=139788>
- Minutes of the IEC/IEEE 60802 Joint Project meeting held 2020-10-26 9:00 AM - 11:00 AM EDT <https://listserv.ieee.org/cgi-bin/wa?A2=ind20&L=STDS-802-1-MINUTES&O=A&P=138970>

Between this session and the preceding session, the IEC/IEEE 60802 Joint Project System Specification ad hoc (System ad hoc) held the following electronic meetings:

- Minutes of the IEC/IEEE 60802 Joint Project System Specification ad hoc meeting held 2020-09-30 11:00 AM – 12:00 PM EDT <https://listserv.ieee.org/cgi-bin/wa?A1=ind20&L=STDS-802-1-MINUTES&O=A&H=0&D=1&T=1#6>
- Minutes of the IEC/IEEE 60802 Joint Project System Specification ad hoc meeting held 2020-10-14 11:00 AM – 12:00 PM EDT <https://listserv.ieee.org/cgi-bin/wa?A1=ind20&L=STDS-802-1-MINUTES&O=A&H=0&D=1&T=1#6>
- Minutes of the IEC/IEEE 60802 Joint Project System Specification ad hoc meeting held 2020-10-21 11:00 AM – 12:00 PM EDT <https://listserv.ieee.org/cgi-bin/wa?A1=ind20&L=STDS-802-1-MINUTES&O=A&H=0&D=1&T=1#6>
- Minutes of the IEC/IEEE 60802 Joint Project System Specification ad hoc meeting held 2020-10-28 11:00 AM – 12:00 PM EDT <https://listserv.ieee.org/cgi-bin/wa?A1=ind20&L=STDS-802-1-MINUTES&O=A&H=0&D=1&T=1#6>

**Call to order** Nov 2, 2020 at 11:30 AM ET by Ludwig Winkel, IEC 65C/WG18 Convenor and IEC/IEEE 60802 Joint Project Chair (60802 JP 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 and other administrative items. The 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 session. He also made a call for members of the press: 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](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](https://www.iec.ch/standardsdev/resources/draftingpublications/overview/rules_requirements/copyright.htm) policies.
- 2. Approval of agenda. The 60802 JP Chair presented the agenda in  
[https://1.ieee802.org/2020-11-plenary-tsn-agenda/#TSN\\_8211\\_IECIEEE\\_60802](https://1.ieee802.org/2020-11-plenary-tsn-agenda/#TSN_8211_IECIEEE_60802), which is also available in  
<https://collaborate.iec.ch/#/pages/workspaces/677749/documents/135216>.  
**Disposition:** The agenda was reviewed, discussed, and agreed (informally, none dissenting) as presented.
- 3. System specification – status update. The concept of User Stories was selected by the System ad hoc to describe 60802 System relevant topics. Mark Hantel, System ad hoc Chair, showed the last revision of the User Stories document  
<https://www.ieee802.org/1/files/public/docs2020/60802-Hantel-UserStories-1020-v09.pdf>. The System ad hoc plans to continue work on the User Stories document after this 802.1 plenary session. The User Stories document is intended to become the basis for the inclusion of System aspects into the 60802 specification subsequently.
- 4. TSN domain boundary considerations. Günter Steindl presented “TSN domain boundary considerations”  
<https://www.ieee802.org/1/files/public/docs2020/60802-Steindl-TSNDomainBoundaryPort-1120-v01.pdf>.  
**Disposition:** More discussion needed. The idea of tunneling pass-through traffic (Use Case 18 in  
<https://www.ieee802.org/1/files/public/docs2018/60802-industrial-use-cases-0918-v13.pdf>) via S-Tags can be further analyzed and discussed in a future contribution.
- 5. Overview of Traffic Classes. This agenda item was postponed by lack of time.
- 6. Review of minutes. Draft minutes were reviewed at the end of the electronic meeting under the lead of the 60802 Secretary.

1:30 PM recess

**Call to order** Nov 4, 2020 at 9:00 AM ET by Ludwig Winkel, 60802 JP Chair, who presided with János Farkas, TG Chair. Josef Dorr, 60802 Secretary, wrote the minutes.

- 7. Meeting introduction and other administrative items. 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. The 60802 JP Chair explained that the IEC/IEEE 60802 Joint Project also follows the usual IEC patent and copyright policies.
- 8. Approval of agenda. The 60802 JP Chair presented the agenda in  
[https://1.ieee802.org/2020-11-plenary-tsn-agenda/#TSN\\_8211\\_IECIEEE\\_60802-2](https://1.ieee802.org/2020-11-plenary-tsn-agenda/#TSN_8211_IECIEEE_60802-2), which is also available in  
<https://collaborate.iec.ch/#/pages/workspaces/677749/documents/135216>.  
**Disposition:** The agenda was reviewed, discussed, and agreed (informally, none dissenting) as presented.

9. Editor's report. Jordon Woods, IEC/IEEE 60802 Editor, presented "Editor's Report 60802 Draft 1.2" <https://www.ieee802.org/1/files/public/docs2020/60802-woods-D1-2-update-1120-v01.pdf>.

**Disposition:** For information.

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

**Disposition:** Ballot comments 920, 817, 827, 818, 828, 933, 414, 41, 584, 43, 906, 42, 922, 923, 924, 586, 734, 928, 931, 932, 654 were resolved as documented in <https://www.ieee802.org/1/files/private/60802-drafts/d1/60802-d1-2-pdis-v16.pdf>.

11. Review of minutes. Draft minutes were reviewed at the end of the electronic meeting under the lead of the 60802 Secretary.

11:00 AM ET recess

**Call to order** Nov 5, 2020 at 9:00 ET by Ludwig Winkel, 60802 JP Chair, who presided with János Farkas, TG Chair. Josef Dorr, 60802 Secretary, wrote the minutes.

12. Meeting introduction and other administrative items. 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. The 60802 JP Chair explained that the IEC/IEEE 60802 Joint Project also follows the usual IEC patent and copyright policies.

13. Approval of agenda. The 60802 JP Chair presented the agenda in [https://1.ieee802.org/2020-11-plenary-tsn-agenda/#TSN\\_8211\\_IECIEEE\\_60802-3](https://1.ieee802.org/2020-11-plenary-tsn-agenda/#TSN_8211_IECIEEE_60802-3), which is also available in <https://collaborate.iec.ch/#/pages/workspaces/677749/documents/135216>.

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

14. Overview of traffic classes. Günter Steindl presented "IEC/IEEE 60802 Generic traffic types vs. Traffic classes" <https://www.ieee802.org/1/files/public/docs2020/60802-Steindl-GenericTrafficTypes-1120-v1.pdf>.

**Disposition:** Agreed (informally, none dissenting) to follow up the two-step approach, which was presented in the contribution, with a future textual contribution to be integrated into a future 60802 draft.

15. Incorporating a Bridged End Station into the 60802 draft. Jordon Woods presented "Incorporating a Bridged End Station into the 60802 draft"

<https://www.ieee802.org/1/files/public/docs2020/60802-woods-BridgedEndsStation-1120-v02.pdf>.

**Disposition:** More discussion needed. Further contributions are expected to continue work on the proposal to define 60802 bridged end stations and their associated management model together with specific conformance definitions.

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

**Disposition:** Ballot comments 929, 588, 258, 589, 829, 655, 656, 735, 736, 657, 996, 45 were resolved as documented in <https://www.ieee802.org/1/files/private/60802-drafts/d1/60802-d1-2-pdis-v16.pdf>.

17. Review of minutes. Postponed to the next 60802 electronic meeting on Nov 6, 2020.

11:00 AM recess

**Call to order** Nov 6, 2020 at 09:00 AM ET by Ludwig Winkel, 60802 JP Chair, who presided with János Farkas, TG Chair. Josef Dorr, IEC/IEEE 60802 Joint Project Secretary, wrote the minutes.

18. Meeting introduction and other administrative items. 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. The 60802 JP Chair explained that the IEC/IEEE 60802 Joint Project also follows the usual IEC patent and copyright policies.
19. Approval of agenda. The 60802 JP Chair presented the agenda in [https://1.ieee802.org/2020-11-plenary-tsn-agenda/#TSN\\_8211\\_IECIEEE\\_60802-4](https://1.ieee802.org/2020-11-plenary-tsn-agenda/#TSN_8211_IECIEEE_60802-4), which is also available in <https://collaborate.iec.ch/#/pages/workspaces/677749/documents/135216>.  
**Disposition:** The agenda was reviewed, discussed, and agreed (informally, none dissenting) as presented.
20. Further Simulation Results for Time Synchronization Transport over an IEC/IEEE 60802 Network. Geoffrey Garner presented “Further Simulation Results for Dynamic Time Error Performance for Transport over an IEC/IEEE 60802 Network Based on Updated Assumptions” <https://www.ieee802.org/1/files/public/docs2020/60802-garner-further-simulation-results-time-sync-transport-1120-v00.pdf>. The effect of GM Time Error is not yet included in the simulation results but is the subject of an additional presentation, which is planned for the 60802 electronic meeting on Nov 9, 2020.  
**Disposition:** More discussion needed. Discussion of next steps is postponed after the presentation on Nov 9, 2020.
21. IEC/IEEE 60802 D1.2 TG ballot comment resolution. Jordon Woods, IEC/IEEE 60802 Editor, continued the resolution of comments received on <http://www.ieee802.org/1/files/private/60802-drafts/d1/60802-d1-2.pdf>.  
**Disposition:** Ballot comments 934, 972, 936 were resolved as documented in <https://www.ieee802.org/1/files/private/60802-drafts/d1/60802-d1-2-pdis-v16.pdf>.
22. Review of minutes. Draft minutes were reviewed at the end of the electronic meeting under the lead of the 60802 Secretary.

11:00 AM recess

**Call to order** Nov 9, 2020 at 09:00 AM ET by Ludwig Winkel, 60802 JP Chair, who presided with János Farkas, TG Chair. Josef Dorr, IEC/IEEE 60802 Joint Project Secretary, wrote the minutes.

23. Meeting introduction and other administrative items. 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. The 60802 JP Chair explained that the IEC/IEEE 60802 Joint Project also follows the usual IEC patent and copyright policies. The 60802 Chair gave an update on “Test specification for IEC/IEEE 60802” activities in IEC:
  - A preparation group, under the umbrella of IEC SC65C/WG9 with participation of IEC/IEEE CMC/WG35 and IEEE ICAP, created a whitepaper document “Business Proposal for the IEC/IEEE 60802 Conformity Assessment (CA) Process”.
  - IEC SC65C management moved the activity of 60802 Conformity Assessment (CA) to a new IEC SC65C/WG18 working group.



- An IEC New Working Item Proposal (NP - similar to a PAR in IEEE) for the “Test specification for IEC/IEEE 60802” was circulated. The NP was approved unanimously.
  - There are now two projects in 65C/WG18:
    - IEC/IEEE 60802, Time-sensitive networking profile for industrial automation.
    - IEC 61802, Test specification for IEC/IEEE 60802.
  - The kick-off meeting for the new IEC 61802 project is scheduled for Nov 17, 2020, 3:00 PM CET (Geneva time zone).
24. Approval of agenda. The 60802 JP Chair presented the agenda in [https://1.ieee802.org/2020-11-plenary-tsn-agenda/#TSN\\_8211\\_IECIEEE\\_60802-5](https://1.ieee802.org/2020-11-plenary-tsn-agenda/#TSN_8211_IECIEEE_60802-5), which is also available in <https://collaborate.iec.ch/#/pages/workspaces/677749/documents/135216>.  
**Disposition:** The agenda was reviewed, discussed, and agreed (informally, none dissenting) as presented.
25. Improved Analysis of Component of dTER for Synchronization Transport over an IEC/IEEE 60802 Network due to GM Time Error. Geoffrey Garner presented “Improved Analysis of Component of dTER for Synchronization Transport over an IEC/IEEE 60802 Network due to GM Time Error” <https://www.ieee802.org/1/files/public/docs2020/60802-garner-improved-analysis-component-dTER-due-to-GM-time-error-1120-v00.pdf>. The Grandmaster dTE assumptions which were used for the simulations were discussed.  
**Disposition:** More accurate analysis of component of dTER due to the GM dTE via simulation was not considered reasonable by the group right now. Further discussion is needed.
26. IEC/IEEE 60802 D1.2 TG ballot comment resolution. Jordon Woods, IEC/IEEE 60802 Editor, continued the resolution of comments received on <http://www.ieee802.org/1/files/private/60802-drafts/d1/60802-d1-2.pdf>.  
**Disposition:** Ballot comments: 590, 937, 939 were resolved as documented in <https://www.ieee802.org/1/files/private/60802-drafts/d1/60802-d1-2-pdis-v16.pdf>.
27. Review of minutes. Draft minutes were reviewed at the end of the electronic meeting under the lead of the 60802 JP Chair.

11:05 AM adjournment

## 7 Nendica

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

- None.

**Call to order** 9:00 AM ET on Nov 5, 2020 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.

The following list reflects the attendance of additional participants as recorded by the Nendica Chair, with affiliation as reported in a document contribution:

Zein, Nader      NEC Europe (NLE)

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 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.
2. Approval of agenda. The Nendica Chair presented the agenda in <https://1.ieee802.org/agenda-nendica-2020-11-05>.  
**Disposition:** The agenda was reviewed, discussed and agreed (informally, none dissenting) as presented. It is recorded as “Approved Agenda of the Nendica Meeting of 2020-11-05” <https://mentor.ieee.org/802.1/dcn/20/1-20-0056-00-ICne.pdf>.
3. Update. The Nendica Chair reviewed the Nendica web site and the new documents available at the Nendica mentor server.  
**Disposition:** No further discussion.
4. Minutes. The Nendica Chair presented “Minutes of the Nendica meeting held during the 2020-09-21 - 2020-09-25 session” <https://listserv.ieee.org/cgi-bin/wa?A2=ind20&L=STDS-802-1-MINUTES&O=D&P=88948>.  
**Disposition:** The document was reviewed and agreed (informally, none dissenting) as presented.
5. Stream and Flow Interworking [SFI] Work Item. Roger Marks, SFI Editor, provided an update. SFI has not been meeting due to lack of contributions and meetings will resume when contributions arise.  
**Disposition:** Further review of the material, and additional material, is welcome, with inputs directed to the Editor, to the reflector, or to Mentor.
6. Data Center Networks [DCN] Work Item.
  - 6a. 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/20/1-20-0030-09.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 reflector, or to Mentor. Discussion of a timeline for

review of the draft, including a call for comments schedule, is anticipated at the next meeting.

6b. Paul Congdon presented "Data-centric Computing Network Requirements"

<https://mentor.ieee.org/802.1/dcn/20/1-20-0055-00.pdf>.

**Disposition:** The material will be considered for potential use to enhance the DCN pre-draft report.

7. Study Item: Managed LAN as a Service [MLaaS]. The Nendica Chair noted that, at the July 2020 plenary session, it was decided to schedule a decision for the November 2020 plenary session regarding termination of the MLaaS Study Item.

**Motion:** To terminate the Managed LAN as a Service Study Item.

Made by Qui. Seconded by Congdon.

No objections were raised.

The motion carried.

8. Future Meetings: The Nendica Chair noted that Nendica has scheduled DCN meetings on alternate Thursdays, 09:00-11:00 AM ET. It was agreed (informally, none dissenting) that next week is too soon and that three weeks from now falls on a holiday. Therefore, it was decided to change the two-week schedule so that the next meeting would be held in two weeks (Nov 19, 2020) and succeeding meetings would be scheduled on a biweekly basis.

**Disposition:** The Nendica Chair will schedule an electronic meeting Nov 19, 2020 and biweekly thereafter.

9. New Business: No other business was discussed by Nendica in this session.

10:40 ET adjournment

## 8 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 2020-09-29 10:00 AM - 11:05 AM EDT”  
<https://listserv.ieee.org/cgi-bin/wa?A2=ind20&L=STDS-802-1-MINUTES&P=107740>
- “Minutes of the YANGsters meeting held 2020-10-06 10:01 AM - 10:58 AM EDT”  
<https://listserv.ieee.org/cgi-bin/wa?A2=ind20&L=STDS-802-1-MINUTES&P=115168>
- “Minutes of the YANGsters meeting held 2020-10-13 10:00 AM - 11:11 AM EDT”  
<https://listserv.ieee.org/cgi-bin/wa?A2=ind20&L=STDS-802-1-MINUTES&P=127579>
- “Minutes of the YANGsters meeting held 2020-10-20 10:00 AM – 11:00 AM EDT”  
<https://listserv.ieee.org/cgi-bin/wa?A2=ind20&L=STDS-802-1-MINUTES&P=131121>

**Call to order** Nov 5, 2020 at 2:00 PM EDT by Scott Mansfield, YANGsters Chair, who presided. Stephan Kehrer, YANGsters 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 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 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.  
 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.
2. Approval of agenda. The YANGsters Chair presented the agenda in <https://1.ieee802.org/november-2020-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 <https://1.ieee802.org/yangsters/> to provide an introduction to YANGsters.  
**Disposition:** Noted for information.
4. Blog post IEEE 802.1 YANG Data Model Standards Enhance Next-Generation Network Management. The 802.1 Chair led the drafting of <https://www.ieee802.org/1/files/public/docs2020/yangsters-smansfield-yang-blog-1120-v01.pdf>.
  - A blog post is currently being drafted to promote the YANG work taking place in 802.1.
  - The blog post was discussed and updated by YANGsters.**Disposition:** Agreed (informally, none dissenting) to forward the document for EC approval.

5. The YANGsters Chair led the continued discussion of “Tying YANG QoS Modules to Interfaces, Not to Bridge Ports” <https://www.ieee802.org/1/files/public/docs2020/cw-finn-interfaces-not-ports-1120-v04.pdf> following discussion in the TSN TG.
- It was suggested to update IEEE P802.1Qcw to use the same approach as IEEE Std 802.1Qcx for tying QoS modules to interfaces.
  - An example of how to do this is the following:
    - IEEE Std 802.1Qcx separates tying the interface to the bridge port separately from the CFM capability. The `ieee802-dot1q-cfm-bridge.yang` YANG module is implemented to link the CFM work to the bridge. To use the CFM material with “other” interfaces (for example for the ITU-T usage of CFM), a YANG module is created using `ieee802-dot1-cfm-bridge` as a model. The `cfm-bridge` module augments the bridge tables with the interface that is needed. In the `cfm-bridge` example, the interface is a bridge-port defined in `ieee802-dot1q-bridge.yang`. If something else needs to use CFM, the `cfm` model, the `maintenance-group`, and the `mep` need to be augmented with whatever interface needs to have the CFM capability.
    - A point was made that there might be side effects on the text of IEEE Std 802.1Q if the YANG modules tie some of the QoS modules to interfaces instead of bridge ports.

**Disposition:** Agreed (informally, none dissenting) that the topic needs further discussion.

6. Review of Guidelines since last plenary. The YANGsters Chair introduced the guidelines at <https://1.ieee802.org/yangsters/yangsters-guidelines/yangsters-faq/>.
- The current status of the pretty printer tool was discussed.
  - For the licensing of the tool there are some issues that are currently being resolved.
  - A set of common parameters for the pretty printer is required so IEEE 802.1 YANG modules all have the same look.
  - The .MIF files generated by the pretty printer can be included by reference in the standards to ease the integration of updates.

**Disposition:** Agreed (informally, none dissenting) to add the information on how to include the .MIF files generated by the pretty printer by reference in a FrameMaker file to the YANGsters FAQ.

7. GitHub Structure and common file handling. The YANGsters Chair provided an update on the topic.
- Published file validation now only relies on published modules (`ieee/published` or `ietf/RFC`).
  - Draft modules need to ensure the draft project maintains the common files that the draft project is modifying.
  - When a published project updates a common file, all current draft projects need to update the revision date on the common files they are modifying.

**Disposition:** Noted for information.

8. YANG status (what depends on what). The YANGsters Chair provided an update on the status of ongoing IEEE 802.1 projects that include YANG work.

- An update on the current status of IEEE P802f was provided by the editor.

**Disposition:** Noted for information.

9. “YANG discussions” was deferred by lack of time.

10. Update on Hot Issues. The YANGsters Chair presented the issues in the “YANGsters Issue List” <https://1.ieee802.org/yangsters/yangsters-issue-list/>.

- For the topic “MAC Address Format” discussions have been going on.
- The result of the discussion is that there is no good compromise on the topic.

**Disposition:** Noted for information.

11. Next Calls. The YANGsters Chair led the discussion on finding a time slot for the next series of YANGsters weekly electronic meetings.
- IEEE P802.1DG has a back-to-back time slot for regular electronic meetings right before YANGsters and would like to extend their electronic meetings to a two-hour slot.
  - If the IEEE P802.1DG electronic meetings were to be extended by one hour, the second hour would overlap with YANGsters in the current setup.
  - Options (1) to (3) in the agenda linked in agenda item 2 were discussed.
- Disposition:** Agreed (informally, none dissenting) to keep the same time slot for the weekly YANGsters call that has been used in the past (Tuesdays, 10:00 AM ET). A motion to request a new set of electronic meetings will be provided.
12. Any Other Business. No other business was discussed by YANGsters in this session.
13. Future meetings. YANGsters meet next during the Nov 17, 2020 weekly electronic meeting.

4:05 PM adjournment

## 9 Closing Plenary Meeting

**Call to order** Nov 10, 2020 at 9:01 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.
- 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 11 (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 the second slide numbered 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 (second slide numbered 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).
- Provided general information regarding meeting contributions, minutes, schedule for all Working Groups, website (slide 17).
- Introduced 802.1 officers and leadership (slide 18).
- Reminded 802.1 voting members of their obligations regarding affiliation declaration (slide 19), voting membership (slide 20), and responding to WG ballots and E-Polls, as well as regarding the consequences of not responding to WG ballots and E-Polls (slide 21).
- Requested changes in affiliation or employer information be reported to him and the Recording Secretary for manual update of the roster.
- Reviewed the list of 802.1 voters (slide 22), including information about individuals who gained (slide 23), may gain (slide 24), may lose (slide 25), or will lose (slide 26) 802.1 voting membership.
- Reminded individual participants of 802.11 reciprocal credit, which was continued at this meeting (slide 27).
- Reviewed the schedule for future interim (slide 28) and plenary (slide 29) sessions (which remained unchanged from the opening plenary meeting) and noted that
  - A decision would be made by the EC no later than January 15, 2020 regarding whether the March 2021 802 plenary session will be in-person or electronic.
  - The EC would not hold hybrid meetings.
  - Starting in March 2021, attending a plenary session may require a registration fee.
- Conducted the following straw poll (slide 30):
  - Would you support an ITU-hosted January 2022 802.1 interim session in Geneva co-located with 802.3, followed by a joint workshop with ITU-T SG15?
    - Y 50
    - N 6
    - A 8
- Reviewed the plan for making 802 Standards available (via DVD, USB or download) to 802 plenary attendees (slide 31).
- Discussed promotion of the work of the WG (slide 32) and presented the “IEEE 802.1 YANG Data Model Standards Enhance Next-Generation Network Management” blog post <https://www.ieee802.org/1/files/public/docs2020/yang-draft-blog-post-0720-v01.pdf>. In

particular, the Chair:

- Showed “802.1 Public Visibility Messaging” <https://1.ieee802.org/public-visibility/>, a web page under development by Roger Marks who introduced work related to this in the context of 802 work on public visibility.
- Called for 802.1 participants to step up in support of WSTS tutorials.
- Summarized available liaison resources (slide 33) indicating a new web page dedicated to the liaison process is at <https://1.ieee802.org/liaisons/>.
- Listed incoming liaisons (slide 34) and led the review of outgoing liaisons (slide 35) including liaisons to indicate to other SDOs referencing IEEE Std 802.1D that it would be withdrawn at the end of 2021 (slide 36).
  - The Chair instructed the Liaison Secretary to track discussed editorial changes needing to be made post-meeting to the reviewed outgoing liaisons.
  - The TSN TG Chair led the review of the draft response to “LS on Response to LS on TSN support in 3GPP Release-16 stage 2 completion” [https://www.ieee802.org/1/files/public/docs2020/liaison-3GPP-S2-2007821\\_Vertical\\_LAN-1120.pdf](https://www.ieee802.org/1/files/public/docs2020/liaison-3GPP-S2-2007821_Vertical_LAN-1120.pdf).
- Reviewed the WG’s current workload (slide 37).
- Requested that the subgroup Chairs provide reports on the activities of their subgroups (slide 38) (see individual subgroup minutes above for details):
  - The Maintenance TG Chair, Paul Congdon, presented the report on slides 39-41.
  - The Security TG Chair, Mick Seaman, presented the report on slide 42.
  - The IEC/IEEE 60802 Joint Project Chair, Ludwig Winkel, the TSN TG Vice-Chair, Craig Gunther, and the TSN TG Chair, János Farkas, presented the report on slide 43.
  - The Nendica Chair, Roger Marks, presented the report on slide 44.
  - The YANGsters Chair, Scott Mansfield, presented the YANGsters report on slide 45.
- Provided guidance on how to use DirectVoteLive to vote on motions (slide 46).
- Showed the *802.1 consent agenda items for LMSC Closing Plenary* (slides 47-50).
- Conducted votes on the following motions (slides 51-92) that all passed unless otherwise indicated. (Supporting information is available in *Closing Agenda* slides finalized as <https://www.ieee802.org/1/files/public/minutes/2020-11-closing-plenary-slides.pdf>.)

**Nov 10, 2020 Motions for 802 EC  
Consent Agenda  
Drafts to NesCom**

- Motion 1
  - Approve forwarding P802.1DP PAR documentation in <https://www.ieee802.org/1/files/public/docs2020/dp-PAR-1120-v01.pdf> to NesCom
  - In the WG, Proposed: János Farkas, Second: Don Pannell
    - PAR (y/n/a): 50, 1, 1
- Motion 2
  - Approve CSD documentation in <https://www.ieee802.org/1/files/public/docs2020/dp-CSD-1120-v01.pdf>
  - In the WG, Proposed: János Farkas, Second: Don Pannell
    - CSD (y/n/a): 48, 1, 2
- Motion 3
  - Approve forwarding P802.1BA-Rev PAR documentation in <https://www.ieee802.org/1/files/public/docs2020/BA-Rev-PAR-1120-v01.pdf> to NesCom
  - (revision PAR – no CSD required, 48 Hour Rule)
  - In the WG, Proposed: János Farkas, Second: Craig Gunther
    - PAR (y/n/a): 50, 0, 1



- Motion 4
  - Approve forwarding P802.1AS-2020/Cor1 PAR documentation in <https://www.ieee802.org/1/files/public/docs2020/AS-Cor1-PAR-1120-v01.pdf> to NesCom
  - (corrigendum PAR – no CSD required, 48 Hour Rule)
  - In the WG, Proposed: János Farkas, Second: Craig Gunther
    - PAR (y/n/a): 48, 4, 0

**Nov 10, 2020 Motions for 802 EC  
Consent Agenda  
Drafts to SA Ballot**

- Motion 5
  - Conditionally approve sending P802.1Q-Rev D1.0 to Standards Association Ballot
    - [Maintenance PAR, no CSD]
      - P802.1Q-Rev Bridges and Bridged Networks
      - Working Group Ballot closed 30 September 2020.
      - 97.14% Approval. 71% Response  
Approve: 34 Disapprove: 1 Abstain: 14 Voters: 49
      - Comment resolution <https://www.ieee802.org/1/files/private/q-rev-drafts/d0/802-1q-rev-d0-2-dis-v1.pdf>
  - In the WG, Proposed: Paul Congdon Second: János Farkas
    - Sending draft (y/n/a): 49, 0, 3

**Nov 10, 2020 Motions for 802 EC  
Consent Agenda  
Liaisons and external communications (II)**

- Motion 6
  - Approve <http://www.ieee802.org/1/files/public/docs2020/liaison-response-3GPP-SA2-TSN-support-1120-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): 49, 0, 3
    - Proposed: János Farkas, Second: Jessy Rouyer
- Motion 7
  - Approve <https://www.ieee802.org/1/files/public/docs2020/liaison-P802-1CQ-draft-sharing-with-IEEE-1722-1120-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): 50, 1, 3
    - Proposed: Roger Marks, Second: János Farkas
- Motion 8
  - Approve <http://www.ieee802.org/1/files/public/docs2020/liaison-response-LNI40-Qdd-feedback-1120-v01.pdf> as communication to LNI 4.0, granting the IEEE 802.1 WG chair (or his delegate) editorial license.
  - Proposed: Feng Chen
  - Second: Josef Dorr
  - In the WG (y/n/a): 45, 1, 6

**Nov 10, 2020 Motions for 802 EC  
Consent Agenda  
Liaisons and external communications (ME)**

- Motion 9
  - Approve the blog post on IEEE Std 802.1Qcx-2020 and IEEE Std 802.1X-2020 (YANG part) in <http://www.ieee802.org/1/files/public/docs2020/yang-draft-blog-post-0720-v01.pdf>, to be released with editorial changes as deemed necessary.
  - In the WG (y/n/a): 51, 1, 2
    - Proposed: Scott Mansfield,                      Second: János Farkas
- Motion 10
  - Approve <https://www.ieee802.org/1/files/public/docs2020/liaison-Qcx-publication-1120-v01.pdf> as communication to ITU-T SG15, Broadband Forum, and MEF granting the IEEE 802.1 WG chair (or his delegate) editorial license.
    - This approval is under LMSC OM “Procedure for public statements to government bodies”
  - In the WG (y/n/a): 49, 1, 3
  - Proposed: Jessy Rouyer,                      Second: János Farkas
- Motion 11. The Chair indicated he (or his delegate) is granted editorial license on the liaisons approved in this motion.
  - Approve sending liaison of IEEE Std 802.1D withdrawal to the following organizations:
    - This approval is under LMSC OM “Procedure for public statements to government bodies”
    - 3GPP RAN, AVNU, IEEE 1588, IEEE 1722, IEEE 1905, IEEE 1914 <https://www.ieee802.org/1/files/public/docs2020/liaison-8021D-withdrawal-1120-v01.pdf>
    - IETF <https://www.ieee802.org/1/files/public/docs2020/liaison-ietf-8021D-withdrawal-1120-v01.pdf>
    - 3GPP SA2 <https://www.ieee802.org/1/files/public/docs2020/liaison-3gpp-sa2-8021D-withdrawal-1120-v01.pdf>
    - CableLabs <https://www.ieee802.org/1/files/public/docs2020/liaison-cablelabs-8021D-withdrawal-1120-v01.pdf>
    - MEF <https://www.ieee802.org/1/files/public/docs2020/liaison-mef-8021D-withdrawal-1120-v01.pdf>
    - ISO SC31 <https://www.ieee802.org/1/files/public/docs2020/liaison-iso-sc31-8021D-withdrawal-1120-v01.pdf>
    - ISO TC204 <https://www.ieee802.org/1/files/public/docs2020/liaison-iso-tc204-8021D-withdrawal-1120-v01.pdf>
    - UPnP <https://www.ieee802.org/1/files/public/docs2020/liaison-upnp-8021D-withdrawal-1120-v01.pdf>
    - ECMA <https://www.ieee802.org/1/files/public/docs2020/liaison-ecma-8021D-withdrawal-1120-v01.pdf>
    - ITU-T SG2 <https://www.ieee802.org/1/files/public/docs2020/liaison-itu-t-sg2-8021D-withdrawal-1120-v01.pdf>
    - ITU-T SG9 <https://www.ieee802.org/1/files/public/docs2020/liaison-itu-t-sg9-8021D-withdrawal-1120-v01.pdf>
    - ITU-T SG11 <https://www.ieee802.org/1/files/public/docs2020/liaison-itu-t-sg11-8021D-withdrawal-1120-v01.pdf>
    - ITU-T SG12 <https://www.ieee802.org/1/files/public/docs2020/liaison-itu-t-sg12-8021D-withdrawal-1120-v01.pdf>
    - ITU-T SG13 <https://www.ieee802.org/1/files/public/docs2020/liaison-itu-t-sg13-8021D-withdrawal-1120-v01.pdf>

- ITU-T SG15 <https://www.ieee802.org/1/files/public/docs2020/liaison-itu-t-sg15-8021D-withdrawal-1120-v01.pdf>
- ITU-T SG16 <https://www.ieee802.org/1/files/public/docs2020/liaison-itu-t-sg16-8021D-withdrawal-1120-v01.pdf>
- In the WG, Proposed: Paul Congdon Second: Mick Seaman
  - Sending draft (y/n/a): 46, 0, 6
- Motion 12
  - Approve submission of the following draft(s) to ISO/IEC JTC1/SC6 for information under the PSDO agreement, once the SA Ballot starts
    - P802.1Q-Rev
  - In the WG, Proposed: Paul Congdon Second: János Farkas
    - Sending draft (y/n/a): 48, 0, 2
- Motion 13
  - Approve submission of the following draft(s) to ISO/IEC JTC1/SC6 for adoption under the PSDO agreement, once approved and published.
    - IEEE 802.1Qcz
    - IEEE 802.1CS
  - In the WG, Proposed: Paul Congdon Second: János Farkas
    - Sending draft (y/n/a): 47, 0, 4

#### **Administrative WG Motions**

- Motion 14
  - 802.1 approves the July 2020 (plenary) and September 2020 (interim) session minutes:
    - <http://www.ieee802.org/1/files/public/minutes/2020-07-minutes-v1.pdf>
    - <https://www.ieee802.org/1/files/public/minutes/2020-09-minutes-v2.pdf>
  - Proposed: Jessy Rouyer
  - Seconded: János Farkas
  - Approved by Acclamation
- Motion 15
  - 802.1 approves to hold an 802.1 interim session hosted by ITU in Geneva January 10-14, 2022
  - Proposed: Mick Seaman
  - Seconded: Janos Farkas
  - In the WG (y/n/a): 45, 2, 7

#### **Maintenance TG WG Motions**

- Motion 16
  - 802.1 authorizes the Maintenance TG to hold teleconferences to address task group matters and progress resolution of maintenance items documented in the maintenance database (<https://1.ieee802.org/maintenance/database/>).
    - Dates/times to be announced subject to notice of at least 10 days to the 802.1 email exploder.
  - Proposed: Paul Congdon
  - Second: Jessy Rouyer
  - Approved by Acclamation

### Security TG WG Motions

- Motion 17
  - Authorize the Security Task Group to hold teleconferences to progress P802.1AEdk and task group matters arising:
    - Dates/times to be announced subject to notice of at least 10 days to the 802.1 email exploder
  - Proposed: Mick Seaman
  - Second: Karen Randall
  - Approved by Acclamation

### TSN TG WG Motions

- Motion 18
  - 802.1 authorizes the January 2021 Interim to generate PAR and CSD for pre-circulation to the EC for an amendment to IEEE Std 802.1Q to specify an informative annex on TrafficSpecification settings for bursty traffic with bounded latency.
  - Proposed: Nader Zein
  - Second: Mick Seaman
  - In the WG (y/n/a): 41, 4, 7
- Motion 26
  - 802.1 authorizes Rodney Cummings, the Editor of P802.1ASdn Standard for Local and Metropolitan Area Networks: Timing and Synchronization for Time-Sensitive Applications — Amendment: YANG Data Model to prepare drafts for and conduct Task Group balloting.
  - Proposed: János Farkas
  - Second: Stephan Kehrer
  - In the WG (y/n/a): 49, 0, 1
- Motion 27
  - 802.1 authorizes Tongtong Wang, the Editor of P802.1DF – Time-Sensitive Networking Profile for Service Provider Networks to prepare drafts for and conduct Task Group balloting.
  - Proposed: János Farkas
  - Second: Norm Finn
  - In the WG (y/n/a): 40, 1, 11
- Motion 19
  - 802.1 authorizes the TSN Task Group to hold electronic meetings weekly on Mondays from 11AM (US-Eastern) to 1PM (US-Eastern) starting with November 16, 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 20
  - 802.1 authorizes the TSN Task Group 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 at the [802.1 Minutes email reflector](#).
  - 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 21
  - 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 9AM (US-Eastern) to 11AM (US-Eastern) starting with November 16, 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 22
  - 802.1 authorizes the TSN Task Group to hold ad hoc electronic meetings together with IEC 65C/WG18 to develop System specification to progress the work of the IEC/IEEE 60802 Joint Project on Wednesdays from 11AM (US-Eastern) to 12PM (US-Eastern) starting with November 11, 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 23
  - 802.1 authorizes the TSN Task Group to hold weekly electronic meetings to progress the P802.1DG project on Tuesdays from 9AM (US-Eastern) to 11AM (US-Eastern) starting with November 17, 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

### Nendica WG Motions

- Motion 24
  - 802.1 authorizes Nendica to hold weekly electronic meetings each Thursday 09:00-11:00 ET.
  - 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 25
  - 802.1 authorizes weekly electronic meetings for the YANGsters subgroup on Tuesdays from 10AM (US-Eastern) to 11AM (US-Eastern) starting with November 17, 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 <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 93) and was reminded to conduct the first of the following two straw polls:
  - (Slide 94) When do you expect the next in person 802.1 Session will be?

▪ A. March 2021	3	6%
▪ B. May 2021	7	13%
▪ C. July 2021	12	23%
▪ D. Sept 2021	11	21%
▪ E. Nov 2021	9	17%
▪ F. 2022 or later	7	13%
▪ No answer	3	6%
  - (Slide 95) When do you expect to next attend in person an 802.1 Session?

▪ A. March 2021	2	4%
▪ B. May 2021	8	15%
▪ C. July 2021	14	27%
▪ D. Sept 2021	9	17%
▪ E. Nov 2021	9	17%
▪ F. 2022 or later	7	13%
▪ No Answer	3	6%

No further business was discussed in this meeting.

12:29 PM adjournment

## 10 Next Session

Jan 18-22, 2021 electronic interim session.