IEEE 802.1 Working Group
May 18-22, 2020 Interim Session
Electronic Session Minutes

The Working Group (WG) Chair, Glenn Parsons, presided. The 802.1 Recording Secretary, Jessy Rouyer, wrote the minutes including minutes written by subgroup Chairs or their Secretaries.

Note that, throughout this document, minuted/recorded inputs from any attendee can not/shall not be assumed to represent a position of their employer or affiliated organization.

1 Attendance and affiliation

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

<table>
<thead>
<tr>
<th>Time-Sensitive Networking TG (Friday, 22-May-2020, 09:00 - 13:00)</th>
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<tbody>
<tr>
<td>Maintenance TG (Thursday, 21-May-2020, 14:00 - 16:00)</td>
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<tr>
<td>Time-Sensitive Networking TG (Thursday, 21-May-2020, 13:30 - 15:30)</td>
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<td>Time-Sensitive Networking TG (Thursday, 21-May-2020, 09:00 - 11:00)</td>
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<td>Nendica (Thursday, 21-May-2020, 09:00 - 11:00)</td>
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<td>Security TG (Wednesday, 20-May-2020, 13:30 - 15:30)</td>
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<td>TSN ad-hoc (Tuesday, 19-May-2020, 14:00 - 16:00)</td>
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</table>

The table reflects the attendance and affiliation of participants who registered their attendance in IMAT. The entries are marked with symbols indicating their presence at specific times.

- **A**: Attendee present at the specified time.
- **S**: Attendee present, but the specific time is not indicated.
- **N**: Attendee not present.

The symbols are used to indicate the presence or non-presence of attendees at specific times for each session. This allows for a clear representation of who was present and when, facilitating the understanding of the meeting's structure and the participation of attendees.
### Time-Sensitive Networking TG (Monday, 18-May-2020, 14:00 - 16:00)

<table>
<thead>
<tr>
<th>Last Name</th>
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<td>Enzinger</td>
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2 802.1 Officers and Management

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

3 Maintenance Task Group

Minutes of TG conference calls held between sessions are available at https://1.ieee802.org/maintenance/.

3.1 Thursday May 21, 2020

3.1.1 2:00 – 4:26 PM EDT

Paul Congdon, Maintenance TG Chair, presided and wrote the minutes.

Attendance as recorded in IMAT by individual participants is in section 1.

2:00 PM EDT call to order by the TG Chair

At the beginning of the meeting the Paul Congdon presented the IEEE-SA Copyright Policy https://standards.ieee.org/content/dam/ieee-standards/standards/web/documents/other/copyright-policy-WG-meetings.potx, and the IEEE-SA PatCom Patent Slides for Standards Development Meetings https://development.standards.ieee.org/myproject/Public/mytools/mob/slideset.pdf, the IEEE 802 Participation slide https://mentor.ieee.org/802-ec/dcn/17/ec-17-0093-05-0PNP-ieee-802-participation-slide-ppt.ppt, and made the Call for Potentially Essential Patents. There were no responses to the call prior to the end of the meeting.

The Maintenance Task Group Chair, Paul Congdon, presided and wrote the minutes.
The TG Chair introduced the agenda per Maintenance Task Group Meeting May 21, 2020 Agenda that was approved.

- A question regarding how and when the TG would review the response to 802.3 PAR comments made previously.

**Disposition:** Since 802.3 has not yet officially provided a response to 802.1 comments, the TG wasn’t in a position to discuss further at this meeting.

Karen Randall:

- Led the discussion of the 802.1 WG response to 802.1Q FDIS comments in.
  - **Disposition:** No additional changes were suggested to the response. Sending the reviewed response will be the subject of a future ePoll.
- Led the discussion of SC6 status in.
  - **Disposition:** It was pointed out that the TG is not tracking 802.1CS and since it is heading to SA ballot, it would be ready to be sent for information. The following standards are ready for a motion to be sent for adoption once published via a future ePoll: Qcr, AE-Cor, CMde, and Qcx.

The TG Chair:

- Led the discussion of existing maintenance items:
  - **0242**: IEEE Std 802.1Qcp-2018: Collected issues on data consistency and others – YANGsters Update
  - **0248**: Managed objects for ECP in 802.1Q-2018
  - **0254**: 802.1Q-2018 5.4 VLAN Bridge Component Requirements item p)
  - **0258**: 802.1CB-2017 7.4.3.3 SequenceRecoveryReset – TSN Update
- Led the discussion of new maintenance items with contributions provided by others:
  - **0263**: 802.1AS-2020: Number of TLVs in one Signaling message and TLV lengths shown in table 10-13
  - **0264**: Erroneous xpath statements
    - Don Fedyk led the discussion of this item using Maintenance Item 0264: Erroneous xpath statements.
  - **0265**: 802.1CB-2017 7.4.3.5 MatchRecoveryAlgorithm
    - Balázs Varga led the discussion of this item using “265” – FRERMatchRecoveryAlgorithm.
  - **0266**: 802.1Q-2018 12.29.1.2.1 GateControlEntry

**Disposition on maintenance item discussions:** Details for discussion on all items are logged in the IEEE 802.1 Maintenance database at where items progressed at the meeting can be reviewed by selecting 'Meetings'.

Future meetings/teleconferences

A future conference call will be proposed in approximately two weeks to address agenda items that were not covered during this session. Additional meetings should be expected where specific dates/times are to be announced subject to notice of at least 10 days to the 802.1 email exploder.
Any Other Business

No further business was discussed in this meeting.

4:26 PM EDT meeting adjournment


4  Security Task Group

Minutes of TG conference calls held between sessions are available at https://1.ieee802.org/security/security-task-group-minutes/.

4.1 Monday May 18, 2020

4.1.1 1:30 – 3:38 PM EDT

Mick Seaman, Security TG Chair, presided and wrote the minutes.

Attendance as recorded in IMAT by individual participants is in section 1. Attendance as recorded by the TG Chair follows:

- Amelia Andersdotter (Independent)
- Rich Dubrawski (Viasat Inc)
- Don Fedyk (LaBN Consulting)
- Randy Kelsey (Engineering Solutions, Inc.)
- Glenn Parsons (Ericsson)
- Karen Randall (Randall Consulting)

Mick Seaman (Independent, 802.1 Security Task Group Chair, minutes of this meeting) [Note that minuted contributions from any attendee can not/should not be assumed to represent a position of their employer or affiliated organization as shown. Participation in 802.1 is on individual basis as for all IEEE 802 meetings: https://mentor.ieee.org/802-ec/dcn/17/ec-17-0093-05-0PNP-ieee-802-participation-slide-ppt.ppt.]

0. The chair called the meeting to order at 1.30 Eastern Time and showed the SA PatCom Patent Slides for Standards Development Meetings https://development.standards.ieee.org/myproject/Public/mytools/mob/slideset.pdf, the IEEE 802 Participation slide https://mentor.ieee.org/802-ec/dcn/17/ec-17-0093-05-0PNP-ieee-802-participation-slide-ppt.ppt, the IEEE-SA Copyright Policy slides https://standards.ieee.org/content/dam/ieee-standards/standards/web/documents/other/copyright-policy-WG-meetings.potx. There were no responses to the call for patents.

1. Agenda

   P802.1AEdk MAC Security: MAC Privacy protection Draft development

2. P802.1AEdk MAC Security: MAC Privacy protection

   Don Fedyk (P802.1AEdk Editor) reviewed work done on Clause 20 and presented Simplified EDE Management adjusted for mapping http://www.ieee802.org/1/files/public/docs2020/dk-fedyk-dot1aedk-simple-management-0520-v00.pdf

   Disposition: terminology should align with existing .1AE figure 15-6.
Mick Seaman presented the first slide (Alternate PrY and SecY client relationships) of MAC Privacy protection in system

Disposition: proceed with alternative B, PrY/SecY combination offers single Private Port (secured) to user with frames not requiring any privacy protection identified by ISS connection_identifier subparameter (see 8092.1AC-2016 11.1 and 802.1CB-2017 6.2).

3. Meeting recessed 3.38 pm Eastern Time.

4.2 Tuesday May 19, 2020

4.2.1 11:00 AM – 11:52 AM EDT

Mick Seaman, Security TG Chair, presided and wrote the minutes.

Attendance as recorded in IMAT by individual participants is in section 1.
Attendance as recorded by the TG Chair follows:

- Amelia Andersdotter (Independent)
- Rich Dubrawski (Viasat Inc)
- Don Fedyk (LabN Consulting)
- Jodi Haasz (IEEE Staff)
- Jerome Henry (Cisco)
- Randy Kelsey (Engineering Solutions, Inc.)
- Glenn Parsons (Ericsson)
- Karen Randall (Randall Consulting)
- Max Riegel (Nokia)

Mick Seaman (Independent, 802.1 Security Task Group Chair, minutes of this meeting)
[Note that minuted contributions from any attendee can not/should not be assumed to represent a position of their employer or affiliated organization as shown. Participation in 802.1 is on individual basis as for all IEEE 802 meetings: https://mentor.ieee.org/802-ec/dcn/17/ec-17-0093-05-0PNP-ieee-802-participation-slide-ppt.ppt.]

0. The chair called the meeting to order at 11.00 Eastern Time and showed the SA PatCom Patent Slides for Standards Development Meetings
https://development.standards.ieee.org/myproject/Public/mytools/mob/slideset.pdf,
The IEEE 802 Participation slide https://mentor.ieee.org/802-ec/dcn/17/ec-17-0093-05-0PNP-ieee-802-participation-slide-ppt.ppt,

There were no responses to the call for patents.

1. Agenda

- P802E Recommended Practice for Privacy Considerations for IEEE 802 Technologies 1st SA Recirculation Ballot Comment Resolution
2. **P802E: 1st Recirculation Ballot Comment Resolution**

Jerome Henry (P802E Editor) presented the proposed disposition of comments: [http://www.ieee802.org/1/files/private/802-e-drafts/d2/802E-d2-0-sponsor-pdis0.pdf](http://www.ieee802.org/1/files/private/802-e-drafts/d2/802E-d2-0-sponsor-pdis0.pdf)

Following discussion it was agreed (none dissenting) that the draft would be recirculated (2nd SA recirculation) without further changes to the draft or the comment responses. [A file copy of the proposed disposition has been renamed as “...-dis” to reflect conclusion of this stage of the ballot. This copy also notes those comments received on the initial ballot that accompanied a Disapprove, were must Be Satisfied, and where the commenter has not agreed that they have been satisfactorily resolved. [http://www.ieee802.org/1/files/private/802-e-drafts/d2/802E-d2-0-sponsor-dis.pdf](http://www.ieee802.org/1/files/private/802-e-drafts/d2/802E-d2-0-sponsor-dis.pdf)]

3. Meeting recessed 11.52 am Eastern Time.

### 4.2.2 1:30 – 3:10 PM EDT

Mick Seaman, Security TG Chair, presided and wrote the minutes.

Attendance as recorded in IMAT by individual participants is in section 1.

Attendance as recorded by the TG Chair follows:

- Rich Dubrawski (Viasat Inc)
- Don Fedyk (LabN Consulting)
- Randy Kelsey (Engineering Solutions, Inc.)
- Glenn Parsons (Ericsson)
- Karen Randall (Randall Consulting)

Mick Seaman (Independent, 802.1 Security Task Group Chair, minutes of this meeting)

[Note that minuted contributions from any attendee can not/should not be assumed to represent a position of their employer or affiliated organization as shown. Participation in 802.1 is on individual basis as for all IEEE 802 meetings: [https://mentor.ieee.org/802-ec/dcn/17/ec-17-0093-05-0PNPieee-802-participation-slide-ppt.ppt](https://mentor.ieee.org/802-ec/dcn/17/ec-17-0093-05-0PNPieee-802-participation-slide-ppt.ppt).]


There were no responses to the call for patents.

1. Agenda
   - P802.1AEdk MAC Security: MAC Privacy protection Draft development

2. **P802.1AEdk MAC Security: MAC Privacy protection**

Don Fedyk (P802.1AEdk Editor) presented [Clause 20 pictures](http://www.ieee802.org/1/files/public/docs2020/dk-fedyk-dot1aedk-clause-20-0520-v00.pdf). These would be updated based on our May 19, 2020 teleconference. Discussion of bandwidth sharing between channels when both Standard and Express Channel map to the same access priority. No buffering (or at least minimal while an MPPDU is being filled) within the PrY. In a bridge it is the Forwarding Process that determines the order of frame transmission.

3. Meeting recessed 3.10 pm Eastern Time.
4.3 Wednesday May 20, 2020

4.3.1 1:30 – 3:28 PM EDT

Mick Seaman, Security TG Chair, presided and wrote the minutes.

Attendance as recorded in IMAT by individual participants is in section 1. Attendance as recorded by the TG Chair follows:

- Rich Dubrawski (Viasat Inc)
- Don Fedyk (LabN Consulting)
- Randy Kelsey (Engineering Solutions, Inc.)
- Scott Mansfield (Ericsson)
- Glenn Parsons (Ericsson)
- Karen Randall (Randall Consulting)
- Jessy Rouyer (Nokia)
- Mick Seaman (Independent, 802.1 Security Task Group Chair, minutes of this meeting)
- Marius Stanica (ABB)
- Max Turner (Ethernovia)
- William Zhao (Siemens)

[Note that minuted contributions from any attendee can not/should not be assumed to represent a position of their employer or affiliated organization as shown. Participation in 802.1 is on individual basis as for all IEEE 802 meetings: https://mentor.ieee.org/802-ec/dcn/17/ec-17-0093-05-0PNP IEEE-802-participation-slide-ppt.ppt.]

0. The chair called the meeting to order at 1.30 Eastern Time and showed the SA PatCom Patent Slides for Standards Development Meetings https://development.standards.ieee.org/myproject/Public/mytools/mob/slideset.pdf, the IEEE 802 Participation slide https://mentor.ieee.org/802-ec/dcn/17/ec-17-0093-05-0PNP IEEE-802-participation-slide-ppt.ppt, the IEEE-SA Copyright Policy slides https://standards.ieee.org/content/dam/ieee-standards/standards/web/documents/other/copyright-policy-WG-meetings.potx. There were no responses to the call for patents.

1. Agenda
   - P802.1AEdk MAC Security: MAC Privacy protection Draft development
   - A.O.B.
   - Future meetings/teleconferences

2. P802.1AEdk MAC Security: MAC Privacy protection
Mick Seaman presented an update on suggested text for Clause 17, following on from the discussion in the March teleconferences:
This had not been updated to reflect the May 18, 2020 discussion of selective privacy protection. Discussion of the recommendation (should, page 24 line 35) to use the PAE Group Address used by MACsec to address the peer PrY. This permits use of an individual address for the peer to accommodate PrY/SecY separation. An individual address should be used in this case to avoid accidental flooding of unintelligible frames. Use of an individual address not recommended in the general case, because that could dictate the network topology and the topology should not depend on the enabled/disabled state of privacy. Need to be sensitive to the need to deploy in stages, and to be able to check as deployment proceeds – which is why PrY operation is not tied to MACsec confidentiality.
Don Fedyk (P802.1AEdk Editor) reviewed YANG based Config for MAC Privacy 802.1AEdk Questions http://www.ieee802.org/1/files/public/docs2020/dk-fedyk-dot1aedk-document-open-questions-0520-v00.pdf. Discussion of “minimal configuration”. Expect experience to add to transmitter strategy over time, while receiver behavior is simpler and remain tolerant of a range of strategies. Needs basic management to be useful for a customer (equipment procurement) perspective, offering enough basic capability. Organization of the management data is management protocol dependent - the natural organization for SNMP (with weak table capabilities) can differ from that for YANG (with weak default capabilities). Balance between a complete self-contained YANG solution and the way that YANG is predominantly used with additional supporting tools. Need to ensure that having complete YANG is not the project length determining item. additional discussion of priority mapping tables, with some possibility of combination for simplification - more in line with a YANG augmentation approach than the separate approach of SNMP.

Next steps will be assembling current material into a rough draft to facilitate comments, although that draft will be made available as soon as possible so will not incorporate the results of this session’s teleconferences.

[Draft now available at http://www.ieee802.org/1/files/private/dk-drafts/d0/802-1AEdk-d0-1.pdf]

3. A.O.B.
There was no other business.

4. Future meetings/teleconferences
Will be scheduled as necessary, subject to the usual notice, when there is further input material to review.

5. Meeting adjourned 3.28 pm Eastern Time.

5 Time-Sensitive Networking Task Group

Minutes of TG conference calls held between sessions are available at https://1.ieee802.org/tsn-calls/.

5.1 Monday May 18, 2020

5.1.1 9:00 – 11:00 AM EDT

Electronic meeting: IEC/IEEE 60802 Joint Project
This electronic meeting was based on the announcement; see
IEC collaboration tool http://collaboration.iec.ch/ and
http://www.ieee802.org/1

Date: 2020-05-18

IEC WG9/PT 60802 Convenor and IEC/IEEE 60802 Joint Project chair:
Ludwig Winkel

Minutes by: Josef Dorr (60802 Secretary)

Attendance as recorded in IMAT by individual participants is in section 1.

Ludwig Winkel, IEC/IEEE 60802 Joint Project Chair (60802 Chair) called the meeting to order at 09:00 AM ET and presided with János Farkas, IEEE 802.1 TSN TG Chair. Josef Dorr wrote the minutes.
Agenda (as previously circulated at https://1.ieee802.org/2020-05-tns-agenda/):

0. János Farkas, TSN TG Chair, presented the IEEE SA copyright and patent policy slides:
   The 60802 Chair explained that the IEC/IEEE 60802 Joint Project follows the usual policies,
   including IEC patent (https://www.iec.ch/members_experts/tools/patents/patent_policy.htm)
   and copyright (https://www.iec.ch/standardsdev/resources/draftingpublications/overview/rules_requirements/
   copyright.htm) polices, as well as IEEE SA patent (https://standards.ieee.org/about/sasb/patcom/materials.html)
   and copyright (https://standards.ieee.org/ipr/index.html) policies. There was no response to the call for
   patents.

   The 60802 Chair repeated the information given last week that the IEC changed the organization
   by discarding PT60802 and established instead a new WG 18 within IEC SC65C hosting now
   IEC/IEEE 60802 and future other projects like the test-spec for 60802.

1. Jordon Woods provided the Editor's Report 60802 Draft 1.2

2. Geoffrey Garner presented and led the discussion on New simulation results for time error
   performance for transport over an IEC/IEEE 60802 network
   http://www.ieee802.org/1/files/public/docs2020/60802-garner-new-simulation-results-dte-
   60802-network-0520-v00.pdf.
   A total number of 30 simulation results was presented, which were based on various modified
   assumptions for simulations.
   **Disposition:** Further discussion is needed. The discussion of next steps was scheduled on

11:00 AM ET recess

**5.1.2 11:00 AM – 1:00 PM EDT**

János Farkas, TSN TG Chair, presided. Marina Gutiérrez wrote the minutes.

Attendance as recorded in IMAT by individual participants is in section 1.

11:00 AM call to order by the TG Chair

0. 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/docs2020/admin-
   farkas-tns-electronic-meeting-intro-0520-v01.pdf thereby providing the information on slides 2 and
   5 of this presentation, and made the Calls for Potentially Essential Patents: there were no
   responses to these Calls prior to the end of the week’s session.
1. Approval of agenda.
The TSN TG Chair presented the schedule and the agenda for the week: https://1.ieee802.org/2020-05-tns-agenda/.
**Disposition:** the agenda was reviewed, discussed and agreed (informally, none dissenting) as presented.

2. P802.1ASdm PAR and CSD comments.
Rodney Cummings presented the comments received and led their resolution:
**Disposition:** ePolls #42 and #43 on PAR and CSD, respectively:

**Disposition:** for information only.

**Disposition:** input is taken to the IEC/IEEE 60802 Joint Project. IEC access to be sorted out.

1:00 PM – 2:00 PM EDT: recess

**Disposition:** response to be written on Thursday: https://1.ieee802.org/2020-05-tns-agenda/#Thursday

**Disposition:** ad hoc on Tuesday, 2:00 PM – 4:00 PM to draft liaison response:
https://1.ieee802.org/2020-05-tns-agenda/#TSN_ad-hoc; response to be finalized on Thursday:
https://1.ieee802.org/2020-05-tns-agenda/#Thursday

**Disposition:** for information, no response needed

8. Rodney Cummings presented *Options for P802.1ASdn YANG*
**Disposition:** PAR and CSD to be written on Thursday: https://1.ieee802.org/2020-05-tns-agenda/#Thursday
No comment was resolved.
**Disposition:** comment resolution to be continued on Tuesday: [https://1.ieee802.org/2020-05-tns-agenda/#Generic_TSN-2](https://1.ieee802.org/2020-05-tns-agenda/#Generic_TSN-2).

No other business was discussed on this call.

4:00 PM recess

**5.2 Tuesday May 19, 2020**

**5.2.1 9:00 – 10:00 AM ET**

Craig Gunther, TSN TG Vice-Chair, presided. Marina Gutiérrez wrote the minutes.

Attendance as recorded in IMAT by individual participants is in section 1.

9:00 AM call to order by the TG Vice Chair

**Agenda and dispositions:**

0. Craig Gunther, TSN TG Vice-Chair, presented the copyright, patent, and participation slides [http://www.ieee802.org/1/files/public/docs2020/admin-cgunther-tns-dg-automotive-intro-slides-0520-v03.pdf](http://www.ieee802.org/1/files/public/docs2020/admin-cgunther-tns-dg-automotive-intro-slides-0520-v03.pdf) and made the Call for Potentially Essential Patents: there were no responses.


**Disposition:** Ballot comments 33, 96, 151 were discussed and resolved as documented in [http://www.ieee802.org/1/files/private/dg-drafts/d1/802-1DG-d1-2-pdis-v03.pdf](http://www.ieee802.org/1/files/private/dg-drafts/d1/802-1DG-d1-2-pdis-v03.pdf)

11:00 AM recess

**5.2.2 11:30 AM – 1:30 PM EDT**

János Farkas, TSN TG Chair, presided. Marina Gutiérrez wrote the minutes.

Attendance as recorded in IMAT by individual participants is in section 1.

11:30 AM call to order by the TG Chair

**Agenda (as previously circulated at [https://1.ieee802.org/2020-05-tns-agenda/](https://1.ieee802.org/2020-05-tns-agenda/)):**

1. Christophe Mangin, P802.1CBdb Editor, presented 802.1CBdb/D0.6 Intermediate draft status [http://www.ieee802.org/1/files/public/docs2020/db-mangin-d0-6-status-0520-v01.pdf]
   Disposition: http://www.ieee802.org/1/files/private/db-drafts/d0/802-1CBdb-d0-6.pdf is an intermediate draft. The next TG ballot would be on a new draft.

   Disposition: TG ballot on D0.2.

3. Marina Gutiérrez, P802.1Qcw Editor, led the resolution of comments received on [http://www.ieee802.org/1/files/private/cw-drafts/d1/802-1Qcw-d1-1.pdf].
   Disposition: Comments 87, 84, 81, 82, 83, 49, 48, 65, 66, 70, 71, 75, 78, 79, 85, 86, 88, 91, 92, 95, 54, 55, 56, 57, 58, 59, 60, 61, 76, 77 were resolved. Comment resolution to be continued on Thursday: [https://1.ieee802.org/2020-05-tns-agenda/#Thursday].

01:30 PM recess

5.2.3 2:00 – 4:00 PM EDT
János Farkas, TSN TG Chair, presided and wrote the minutes.

Attendance as recorded in IMAT by individual participants is in section 1.

2:00 PM EDT call to order by the TG Chair

Agenda (as previously announced at [https://1.ieee802.org/2020-05-tns-agenda/]):

0. János Farkas, TSN TG Chair, presented the IEEE SA copyright and patent policy slides: [http://www.ieee802.org/1/files/public/docs2020/admin-farkas-tns-electronic-meeting-intro-0420-v01.pdf]. There was no response to the call for patents.

   Disposition: discuss further in TSN TG on May 21, 2020: [https://1.ieee802.org/2020-05-tns-agenda/#Thursday]

04:00 PM recess

5.3 Wednesday May 20, 2020

5.3.1 9:00 – 11:00 AM EDT

Electronic meeting: IEC/IEEE 60802 Joint Project
   This electronic meeting was based on the announcement; see IEC collaboration tool [http://collaboration.iec.ch/] and [http://www.ieee802.org/1]

Date: 2020-05-20

65C/WG18 Convenor and IEC/IEEE 60802 Joint Project chair:
   Ludwig Winkel

Minutes by: Josef Dorr (60802 Secretary)

Attendance as recorded in IMAT by individual participants is in section 1.
Agenda (as previously circulated at https://1.ieee802.org/2020-05-tsn-agenda/):

Ludwig Winkel, IEC/IEEE 60802 Joint Project Chair (60802 Chair) called the meeting to order at 09:00 AM ET and presided with János Farkas, IEEE 802.1 TSN TG Chair. Josef Dorr wrote the minutes.


The 60802 Chair explained that the IEC/IEEE 60802 Joint Project follows the usual policies, including IEC patent (https://www.iec.ch/members_experts/tools/patents/patent_policy.htm) and copyright (https://www.iec.ch/standardsdev/resources/draftingpublications/overview/rules_requirements/copyright.htm) polices, as well as IEEE SA patent (https://standards.ieee.org/about/sasb/patcom/materials.html) and copyright (https://standards.ieee.org/ipr/index.html) policies.

There was no response to the call for patents.


   **Disposition:** Further discussion is needed. Günter Steindl and others will upload a contribution concerning industrial synchronization requirements. The discussion about next steps will be continued on the email reflector.


   **Disposition:** Further work and discussion on the contribution is needed.


   **Disposition:** Next step will be to integrate in a future 60802 draft to start broader discussion.


   **Disposition:** The presentation will be continued in the next IEC/IEEE 60802 electronic meeting on June 8, 2020.

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

11:00 AM ET recess
5.3.2 11:30 AM – 1:30 PM EDT
János Farkas, TSN TG Chair, presided. Marina Gutiérrez wrote the minutes.

Attendance as recorded in IMAT by individual participants is in section 1.

11:30 AM call to order by the TG Chair

Agenda (as previously circulated at https://1.ieee802.org/2020-05-tsn-agenda/):

0. János Farkas, TSN TG Chair, presented the IEEE SA copyright and patent policy slides: http://www.ieee802.org/1/files/public/docs2020/admin-farkas-tsn-electronic-meeting-intro-0520-v01.pdf. There was no response to the call for patents.

1. Stephan Kehrer, P802.1Qdj Editor, presented IEEE P802.1Qdj Update on draft d0.0 http://www.ieee802.org/1/files/public/docs2020/dj-kehrer-P8021Qdj-d0-0-update-0520-v01.pdf. Disposition: further discussion needed, contributions were encouraged.

2. Paul Congdon, P802.1Qcz Editor, led the resolution of comments received on http://www.ieee802.org/1/files/private/cz-drafts/d1/802-1Qcz-d1-0.pdf. Simulations available at https://github.com/PaulCongdon/tr-sim. Disposition: Comments 6, 11, 18, 20, 21 were resolved. Comment resolution to be continued on Thursday: https://1.ieee802.org/2020-05-tsn-agenda/#Thursday.

01:30 PM recess

5.4 Thursday May 21, 2020

5.4.1 9:00 AM – 1:30 PM EDT
János Farkas, TSN TG Chair, presided. Marina Gutiérrez wrote the minutes.

Attendance as recorded in IMAT by individual participants is in section 1.

09:00 AM call to order by the TG Chair

Agenda (as previously circulated at https://1.ieee802.org/2020-05-tsn-agenda/):

0. János Farkas, TSN TG Chair, presented the IEEE SA copyright and patent policy slides: http://www.ieee802.org/1/files/public/docs2020/admin-farkas-tsn-electronic-meeting-intro-0520-v01.pdf. There was no response to the call for patents.


4. Stephan Kehrer, P802.1CBcv Editor, led the resolution of comments received on http://www.ieee802.org/1/files/private/cv-drafts/d0/802-1CBcv-d0-3.pdf.

5. Paul Congdon, P802.1Qcz Editor, continued the resolution of comments received on http://www.ieee802.org/1/files/private/cz-drafts/d1/802-1Qcz-d1-0.pdf.

01:30 PM recess

5.5 Friday May 22, 2020

5.5.1 9:00 AM – 1:30 PM EDT

János Farkas, TSN TG Chair, presided. Marina Gutiérrez wrote the minutes.

Attendance as recorded in IMAT by individual participants is in section 1.

09:00 AM call to order by the TG Chair

Agenda (as previously circulated at https://1.ieee802.org/2020-05-tsn-agenda/):

0. János Farkas, TSN TG Chair, presented the IEEE SA copyright and patent policy slides: http://www.ieee802.org/1/files/public/docs2020/admin-farkas-tsn-electronic-meeting-intro-0520-v01.pdf. There was no response to the call for patents.

1. P802.1DG/D1.2 TG ballot comment resolution with Editor's report.
Craig Gunther, the Editor, continued the resolution of comments received on http://www.ieee802.org/1/files/private/dg-drafts/d1/802-1DG-d1-2.pdf.
Disposition: Comments 23, 31, 32, 34, 43, 55, 56, 58, 71 were resolved. As noted in http://www.ieee802.org/1/private/email2/msg30513.html, comments 21, 22, 28, 30, 36, 37, 63, 78, 93, 134, 135, 154, 160 were resolved without discussion. Partial disposition: http://www.ieee802.org/1/files/private/dg-drafts/d1/802-1DG-d1-2-pdis-v04.pdf. Comment resolution to be continued in P802.1DG calls.

11:00 – 11:30 AM recess


3. Marina Gutiérrez, P802.1Qcw Editor, continued the resolution of comments received on http://www.ieee802.org/1/files/private/cw-drafts/d1/802-1Qcw-d1-1.pdf.
Disposition: Comments 80, 105, 104, 106, 50, 51, 47, 102, 99, 101, 46, 53, 45, 44, 52, 93, 68, 69, 103, 72, 73 were resolved. Partial disposition: http://www.ieee802.org/1/files/private/cw-
6 Nendica

Minutes of Nendica conference calls held between sessions are available at https://1.ieee802.org/nendica-meeting-history/.

6.1 Wednesday May 20, 2020

6.1.1 9:00 – 9:55 AM EDT

The IEEE 802 Network Enhancements for the Next Decade Industry Connections Activity (Nendica) Chair, Roger Marks, presided and wrote the minutes.

Attendance as recorded in IMAT by individual participants is in section 1.

Attendance as recorded by the TG Chair follows:

<table>
<thead>
<tr>
<th>Name</th>
<th>Affiliation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Congdon, Paul</td>
<td>Tallac Networks; Huawei</td>
</tr>
<tr>
<td>Guo, liang</td>
<td>China Academy of Information and Communications Technology (China Academy of TeleCommunication Research, MIIT) CAICT (CATR)</td>
</tr>
<tr>
<td>Krieger, Ann</td>
<td>US Department of Defense</td>
</tr>
<tr>
<td>Marks, Roger</td>
<td>EthAirNet Associates</td>
</tr>
<tr>
<td>Maruhashi, Kenichi</td>
<td>NEC Corporation</td>
</tr>
<tr>
<td>McMillan, Larry</td>
<td>Western Digital Corporation</td>
</tr>
<tr>
<td>Nakano, Hiroki</td>
<td>Kyoto University</td>
</tr>
<tr>
<td>Parsons, Glenn</td>
<td>Ericsson AB</td>
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<tr>
<td>QIU, WEI</td>
<td>Huawei Technologies Co., Ltd</td>
</tr>
<tr>
<td>Sun, Liyang</td>
<td>HUAWEI</td>
</tr>
<tr>
<td>Zein, Nader</td>
<td>NEC Europe (NLE)</td>
</tr>
</tbody>
</table>

The secretary noted no other attendees.

20 May 2020 09:15 ET (call to order by the Nendica Chair)

The Nendica Chair called the meeting to order and apologized for the delay due to an inconsistency among the links to the teleconference. He offered to review the web pages and ensure that future meeting links are consistent.

Agenda Approval

The Nendica Chair presented the previously-available draft agenda in https://mentor.ieee.org/802.1/dcn/20/1-20-0035-01.docx.

Disposition: The agenda was reviewed and approved without change.

Update and Attendance

The Nendica Chair discussed how to record attendance for the meeting, using the link embedded in the agenda. The participant list above in section 1 is provided from the attendance logs.

Prior Minutes

The Nendica Chair reviewed the draft minutes of meeting of 2020-05-14 in https://mentor.ieee.org/802.1/dcn/20/1-20-0034-00-ICne-draft-minutes-of-the-nendica-meeting-of-2020-05-14.docx. Without objection, the minutes were approved.

Stream and Flow Interworking [SFI]

Roger Marks reported that “IEEE 802 Nendica Work Item Proposal: Network Stream and Flow Interworking” met on May 21, 2020 and would be the subject of tomorrow’s Nendica meeting as well. He indicated the expectation that a new SFI contribution would be available for discussion.

Data Center Networking [DCN]

Co-Editor Paul Congdon presented Pre-Draft DCN Report https://mentor.ieee.org/802.1/dcn/20/1-20-0030-02-ICne.pdf. The contribution included material that the editors had received from interested participants. The material was reviewed, and suggestions to the editors were discussed. Interested participants were encouraged to submit contributions toward the report to Mentor or to communicate with the editors.

Study Item: Managed LAN as a Service [MLaaS]

Wei Qiu reported that there was no new progress on this topic and the prior status report represents the current state of the Study Item. No discussion arose.

Future meetings

A regular Thursday meeting on 2020-05-21 (09:00 ET) will focus on the Streams and Flows Interworking [SFI] topic.

The next DCN-focused meeting is scheduled for Thursday 2020-05-28 (09:00 ET), unless cancelled to due lack of contributions.

A.O.B.

None.

Adjournment

The meeting was adjourned at 9:58 ET.
6.2 Thursday May 21, 2020

6.2.1 9:00 – 9:55 AM EDT

The IEEE 802 Network Enhancements for the Next Decade Industry Connections Activity (Nendica) Chair, Roger Marks, presided and wrote the minutes.

Attendance as recorded in IMAT by individual participants is in section 1.

21 May 2020 09:00 ET (call to order by the Nendica Chair)


Agenda Approval

The Nendica Chair presented the previously-available draft agenda in https://mentor.ieee.org/802.1/dcn/20/1-20-0036-01.docx. Disposition: The agenda was reviewed and approved without change.

Update and Attendance

The Nendica Chair discussed how to record attendance for the meeting, using the link embedded in the agenda.

Prior Minutes

The Nendica Chair reviewed the draft minutes of meeting of 2020-05-07 in https://mentor.ieee.org/802.1/dcn/20/1-20-0033-00-lCne-draft-minutes-of-the-nendica-meeting-of-2020-05-07.docx. Without objection, the minutes were approved.

Data Center Networking [DCN]

It was noted that, as yesterday’s meeting of May 20, 2020, pre-draft r02 was presented and discussed, and the following meeting is scheduled for May 28, 2020.

Stream and Flow Interworking [SFI]


Most of the discussion concerned the material in the new section “Stream and Flow Concepts in Standards,” which summarized flow and stream concepts in IEEE Std 802.1, 802.1CB, and 1722.
It was agreed that figures showing how StreamID is used in the AVTP frame of IEEE Std 1722 would be helpful, along with other figures from standards. The Editor requested review of the material, and additional material, with inputs to the Editor, the reflector, or Mentor. The Editor noted that line numbers should be added to the next version.

**Study Item: Managed LAN as a Service [MLaaS]**

No report was presented and no discussion arose.

**Future meetings**

A regular Thursday meeting on 2020-06-04 (09:00 ET) will focus on the Streams and Flows Interworking [SFI] topic.

The next DCN-focused meeting is scheduled for Thursday 2020-05-28 (09:00 ET), unless cancelled to due lack of contributions.

**A.O.B.**

None.

**Adjournment**

The meeting was adjourned at 09:55 ET.

**7 YANGsters**

**7.1 Tuesday May 19, 2020**

**7.1.1 10 – 11 AM EDT**

Scott Mansfield, YANGsters Chair presided. Stephan Kehrer, YANGsters Secretary, wrote the minutes.

Attendance as recorded in IMAT by individual participants is in section 1.

Attendance as recorded by the TG Chair follows:

- Stephan Kehrer (Hirschmann Automation and Control, Inc.)
- Scott Mansfield (Telefon AB LM Ericsson)
- Don Fedyk (LaBn Consulting, L.L.C.)
- Glenn Parsons (Ericsson AB)
- János Farkas (Ericsson)
- Jessy Rouyer (Nokia)
- Johannes Specht (University of Duisburg/Essen)
- Marc Holness (Ciena)
- Marina Gutiérrez (TTTech)
- Mark Ellison (Independent)
- Kenichi Maruhashi (NEC)
- Nader Zein (NEC Europe)
- Paul Congdon (Huawei Technologies Co., Ltd.)
- Ramesh Sivakolundu (Cisco Systems, Inc.)
- Razvan Petre (Spirent)
Call to order at 10:00 AM EDT by the YANGsters Chair

Topics:

- At the beginning of the meeting the YANGsters Chair presented:
  - The IEEE SA Copyright Policy slides,
  - The IEEE SA PatCom Patent Slides for Standards Development Meetings,
  - The IEEE 802 Participation slide,
  - The Decorum information contained in http://www.ieee802.org/1/files/public/docs2019/admin-farkas-TSN-meeting-intro-1119-v01.pdf, and made the Call for Potentially Essential Patents. There were no responses to the call prior to the end of the meeting.

- Agenda bash
  - Agenda was agreed as presented on the slides (http://www.ieee802.org/1/files/public/docs2020/yangsters-smansfield-meeting-agenda-w21-0519-v02.pdf)
    - No new items

- Update on Hot Issues
  - Active
    - Press Release Discussion
      - The YANGsters chair has received the press release on IEEE Std 802.1Qcp that was written but not published.
      - The release was updated and rewritten into a new draft for a press release on the YANG work of 802.1.
      - The draft was presented by the YANGsters chair and discussed by YANGsters and can be found in yangsters-smansfield-802-press-release-request-0520-v01.pdf.
      - In the next step the draft needs to be discussed and reviewed by IEEE staff to get it prepared for publication.
      - The publication is targeted at the release date of IEEE P802.1Qcx.
    - IEEE P802f Update
      - Information on this topic can be found in IEEE P802f Open Issues (v6) 802f-mansfield-open-issues-0420-v06.pdf
      - IEEE P802f needs to handle two problems:
        - EtherTypes creation, maintenance and modifications
        - EtherTypes YANG module creation
      - Validation of the EtherTypes registry needs to be separated from the creation of the YANG module(s) in order to proceed.
      - Suggested activities that need to be done by the RAC (needs to be discussed with the RAC)
        - Add new columns to the EtherTypes registry
        - Provide a mechanism to alert subscribers when the EtherTypes registry changes
- Validation and approval of the entries in the EtherTypes registry by the RAC is required.

- Activities within the P802f project:
  - Specify the process related to generating the EtherTypes YANG file whenever a notification is received that the EtherTypes registry has been updated.
  - Define the YANG structure and provide guidance for creating subsets of the information found in the EtherTypes registry.

- The next steps for going forward where discussed by the 802.1 chair and YANGsters. The next official step is to do a motion to allow the start of task group balloting.

- Continue Maintenance/Guidelines Discussion
  - See: YANG Pretty Printer Introduction
    - Issue #10:
      - Johannes Specht gave an overview over item #10 in the presentation.
      - Sub-item a) some leafs (e.g. static-entries, dynamic-entries, …) provide redundant information because the associated list-nodes already provide the number of entries. It needs to be determined on a case-by-case basis if this needs to be corrected or if the separate objects are required.
      - Sub-item b) IEEE Std 802.1Q-2018 states in the normative text, that there is a single FDB object per bridge. In the YANG file this is modeled differently in that there can be one FDB object per bridge component.
        - This results in a discrepancy between the normative text and the YANG model. It needs to be discussed and determined if the text of the standard needs to be updated or the YANG model needs to be corrected.
        - Next steps: discuss in maintenance to determine if the statements in 12.7.1 of IEEE Std 802.1Q-2018 needs to be corrected or if the YANG model needs to be aligned with the standards text.

  - Issue #11:
    - Sub-item a) decisions on what to do need to be made on a case-by-case basis.
    - Sub-item b) the permanent database object only contains a table for filtering entries but not for VLAN registration entries in the UML model in Figure 48-4 of IEEE Std 802.1Q-2018. This seems to be in conflict with a statement in 12.7.7.1.1.
    - The item needs to be looked at a bit more closely and a maintenance item needs to be introduced for it.

- The rest of the discussion (starting at item #11) was postponed to the next YANGsters call.
• Any Other Business
  o No other business.

11:00 AM EDT adjournment
# 8 ePolls

IEEE 802.1 had the following ePolls between the end of the January 2020 interim session and the end of the May 2020 interim session.

<table>
<thead>
<tr>
<th>Start (ET)</th>
<th>ePoll Name</th>
<th>Topic</th>
<th>End (ET)</th>
<th>Votes</th>
</tr>
</thead>
<tbody>
<tr>
<td>09-Mar-2020 00:00:00 ET</td>
<td>17 - Approve Nendica FFoT Report</td>
<td>Confirm the approval of 'Flexible Factory IoT: Use Cases and Communication Requirements for Wired and Wireless Bridged Networks' <a href="https://mentor.ieee.org/802.1/dcn/19/1-19-0026-06-1Cne.pdf">https://mentor.ieee.org/802.1/dcn/19/1-19-0026-06-1Cne.pdf</a> as a Nendica Report and process it for publication, subject to editorial revision. Moved by Nader Zein, seconded by Hajime Koto</td>
<td>19-Mar-2020 23:59:59 ET</td>
<td>34/3/15</td>
</tr>
<tr>
<td>09-Mar-2020 00:00:00 ET</td>
<td>18 - P802.1CMde to RevCom</td>
<td>Approve sending P802.1CMde to RevCom. Proposed: Janos Farkas Second: Craig Gunther Supporting information: P802.1CMde D2.1 had 100% approval at the end of the last Standards Association recirculation ballot, which closed on February 28, 2020 with no Disapprove votes and no Must Be Satisfied (MBS) comments. The ballot disposition is available at: <a href="http://www.ieee802.org/1/files/private/eddrafts/d2/802-1CMde-d2-1-dis-v01.pdf">http://www.ieee802.org/1/files/private/eddrafts/d2/802-1CMde-d2-1-dis-v01.pdf</a></td>
<td>19-Mar-2020 23:59:59 ET</td>
<td>56/0/1</td>
</tr>
<tr>
<td>09-Mar-2020 00:00:00 ET</td>
<td>19 - P802.1CMde CSD</td>
<td>Approve CSD documentation in <a href="https://mentor.ieee.org/802-ec/dcn/18/ec-18-0240-00-ACSD-p802-1cmde.pdf">https://mentor.ieee.org/802-ec/dcn/18/ec-18-0240-00-ACSD-p802-1cmde.pdf</a> Proposed: Janos Farkas Second: Craig Gunther Supporting information: P802.1CMde D2.1 had 100% approval at the end of the last Standards Association recirculation ballot, which closed on February 28, 2020 with no Disapprove votes and no Must Be Satisfied (MBS) comments. The ballot disposition is available at: <a href="http://www.ieee802.org/1/files/private/eddrafts/d2/802-1CMde-d2-1-dis-v01.pdf">http://www.ieee802.org/1/files/private/eddrafts/d2/802-1CMde-d2-1-dis-v01.pdf</a></td>
<td>19-Mar-2020 23:59:59 ET</td>
<td>56/0/1</td>
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<tr>
<td>09-Mar-2020 00:00:00 ET</td>
<td>20 - P802.1Qcx to RevCom</td>
<td>Approve sending P802.1Qcx to RevCom. Proposed: Marc Holness Second: Norman Finn Supporting information: P802.1Qcx D2.1 had 100% approval at the end of the last Standards Association recirculation ballot, which closed on February 28, 2020 with no Disapprove votes and no Must Be Satisfied (MBS) comments. The ballot disposition is available at:</td>
<td>19-Mar-2020 23:59:59 ET</td>
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<td>Date</td>
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<tr>
<td>09-Mar-2020</td>
<td>00:00:00 ET</td>
<td>21</td>
<td>Approve CSD documentation in <a href="https://mentor.ieee.org/802-ec/dcn/17/ec-17-0159-00-ACSD-802-1qcx.pdf">https://mentor.ieee.org/802-ec/dcn/17/ec-17-0159-00-ACSD-802-1qcx.pdf</a> Proposed: Marc Holness Second: Norman Finn Supporting information: P802.1Qcx D2.1 had 100% approval at the end of the last Standards Association recirculation ballot, which closed on February 28, 2020 with no Disapprove votes and no Must Be Satisfied (MBS) comments. The ballot disposition is available at: <a href="http://www.ieee802.org/1/files/private/cx-drafts/d2/802-1Qcx-d2-1-dis-v01.pdf">http://www.ieee802.org/1/files/private/cx-drafts/d2/802-1Qcx-d2-1-dis-v01.pdf</a>.</td>
<td>19-Mar-2020 23:59:59 ET</td>
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<tr>
<td>16-Mar-2020</td>
<td>00:00:00 ET</td>
<td>24</td>
<td>Approve sending P802.1CS D3.0 to Standards Association ballot Moved: Norman Finn Seconded: Don Pannell Supporting information: P802.1CS D2.6 had 100% approval at the end of the last WG ballot, which closed on March 9, 2020 with no Disapprove votes and no comments. The ballot disposition is available at: <a href="http://www.ieee802.org/1/files/private/cs-drafts/d2/802-1CS-d2-6-dis.pdf">http://www.ieee802.org/1/files/private/cs-drafts/d2/802-1CS-d2-6-dis.pdf</a></td>
<td>26-Mar-2020 23:59:59 ET</td>
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<td>16-Mar-2020</td>
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<td>25</td>
<td>Confirm the CSD for P802.1CS in <a href="https://mentor.ieee.org/802-ec/dcn/16/ec-16-0215-00-ACSD-802-1cs.pdf">https://mentor.ieee.org/802-ec/dcn/16/ec-16-0215-00-ACSD-802-1cs.pdf</a></td>
<td>26-Mar-2020 23:59:59 ET</td>
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<td>Moved: Norman Finn</td>
<td>Seconded: Don Pannell</td>
<td>9 ET</td>
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<td>Supporting information:</td>
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<td>P802.1CS D2.6 had 100% approval at the end of the last WG ballot,</td>
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<td>which closed on March 9, 2020 with no Disapprove votes and no comments.</td>
<td>The ballot disposition is available at:</td>
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<td>19-Mar-2020</td>
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<td>Approve forwarding P802.1Q-Rev PAR documentation in</td>
<td>29-Mar-2020</td>
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<td></td>
<td>Proposed: John Messenger</td>
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<td>48/0/0</td>
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<td></td>
<td>Second: Norman Finn</td>
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<td>Note: there is no CSD statement since this maintenance project</td>
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<td>is not intended to provide any new functionality</td>
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<td>Approve forwarding P802.1CQ PAR extension in</td>
<td>29-Mar-2020</td>
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<td>Proposed: Roger Marks</td>
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<td>46/0/1</td>
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<td>Second: Scott Mansfield</td>
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<td>19-Mar-2020</td>
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<td>Approve (unmodified) CSD documentation in</td>
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<td>Proposed: Roger Marks</td>
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<td>46/0/2</td>
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<td>Second: Scott Mansfield</td>
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<td>19-Mar-2020</td>
<td>00:00:00 ET</td>
<td>802.1 approves the November 2019 (Plenary) and</td>
<td>29-Mar-2020</td>
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<tr>
<td></td>
<td>29 - minutes</td>
<td>January 2020 (Interim) minutes:</td>
<td>23:59:59 ET</td>
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<td>Proposed: Jessy Rouyer</td>
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<td></td>
<td>Second: Stephan Kehrer</td>
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<tr>
<td>19-Mar-2020</td>
<td>00:00:00 ET</td>
<td>802.1 authorizes Paul Congdon, the Editor of</td>
<td>29-Mar-2020</td>
<td></td>
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<tr>
<td></td>
<td>30 - P802.1Qcz WG ballot</td>
<td>P802.1Qcz Bridges and Bridged Networks -- Amendment: Congestion Isolation to prepare</td>
<td>23:59:59 ET</td>
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<td>drafts for and conduct Working Group balloting.</td>
<td>46/0/1</td>
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<td>Proposed: Janos Farkas</td>
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<td>Date</td>
<td>Time</td>
<td>Event</td>
<td>Proposed by</td>
<td>Second by</td>
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<tr>
<td>19-Mar-2020 00:00:00 ET</td>
<td>31 - TSN pre-meeting</td>
<td>802.1 authorizes the TSN Task Group to hold pre-meeting on the Monday morning of the July 2020 Plenary session.</td>
<td>Janos Farkas</td>
<td>Craig Gunther</td>
</tr>
<tr>
<td>19-Mar-2020 00:00:00 ET</td>
<td>32 - TSN post-meeting</td>
<td>802.1 authorizes the TSN Task Group to hold an Interim meeting on July 17, 2020 (i.e., the Friday after the IEEE 802.1 Closing Plenary) together with IEC 65C/WG9 to progress the IEC/IEEE 60802 Joint Project.</td>
<td>Janos Farkas</td>
<td>Craig Gunther</td>
</tr>
<tr>
<td>19-Mar-2020 00:00:00 ET</td>
<td>34 - Nendica WI</td>
<td>Initiate an IEEE 802 Nendica Work Item on &quot;Network Stream and Flow Interworking&quot;, per 802.1-20-0004-04 (<a href="https://mentor.ieee.org/802.1/dcn/20/1-20-0004-04-1Cne.pdf">https://mentor.ieee.org/802.1/dcn/20/1-20-0004-04-1Cne.pdf</a>).</td>
<td>Roger Marks</td>
<td>Craig Gunther</td>
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<tr>
<td>19-Mar-2020 00:00:00 ET</td>
<td>35 - Nendica WI</td>
<td>Initiate an IEEE 802 Nendica Work Item to revise &quot;The Lossless Network for Data Centers&quot;, per 802.1-20-0002-02 (<a href="https://mentor.ieee.org/802.1/dcn/20/1-20-0002-02-1Cne.pptx">https://mentor.ieee.org/802.1/dcn/20/1-20-0002-02-1Cne.pptx</a>).</td>
<td>Roger Marks</td>
<td>Craig Gunther</td>
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<tr>
<td>19-Mar-2020 00:00:00 ET</td>
<td>36 - Maintenance calls</td>
<td>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 (<a href="https://www.802-1.org/">https://www.802-1.org/</a>). Dates/times to be announced subject to notice of at least 10 days to the 802.1 email exploder.</td>
<td>Paul Congdon</td>
<td>Jessy Rouyer</td>
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<tr>
<td>20-Mar-2020</td>
<td>37 - 60802 calls</td>
<td>802.1 authorizes the TSN Task Group to hold weekly teleconferences together with IEC 65C/MT9 to</td>
<td>Paul Congdon</td>
<td>Jessy Rouyer</td>
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<tr>
<td>Time</td>
<td>Agenda Item</td>
<td>Proposed by</td>
<td>Seconded by</td>
<td>Vote</td>
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<td>00:00:00 ET</td>
<td>progress the IEC/IEEE 60802 Joint Project on Mondays from 9AM (US-Eastern) to 11AM (US-Eastern). Access information is posted on the <a href="http://www.ieee802.org/1/tns">http://www.ieee802.org/1/tns</a> page and will be updated as necessary. Agenda will be announced on the 802.1 email reflector at least 5 days before the call. Proposed: Ludwig Winkel Second: Jordan Woods</td>
<td>23:59:59 ET</td>
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<tr>
<td>20-Apr-2020 00:00:00 ET</td>
<td>802.1 authorizes the TSN Task Group to hold weekly teleconferences to progress the P802.1DG project on Tuesdays from 9AM (US-Eastern) to 10AM (US-Eastern) starting with May 5, 2020. Agenda will be announced on the 802.1 email reflector at least 5 days before the call. Access information is posted on the <a href="http://www.ieee802.org/1/tns">http://www.ieee802.org/1/tns</a> page and will be updated as necessary. Proposed: Janos Farkas Second: Craig Gunther</td>
<td>30-Apr-2020 23:59:59 ET</td>
<td>44/0/0</td>
<td></td>
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<tr>
<td>20-Apr-2020 00:00:00 ET</td>
<td>802.1 authorizes the Time-Sensitive Networking TG to hold teleconferences to progress the projects of the Task Group. Dates/times to be announced subject to notice of at least 10 days to the 802.1 email exploder. Access information will be posted on the <a href="http://www.ieee802.org/1/tns">http://www.ieee802.org/1/tns</a> page. Proposed: Janos Farkas Second: Craig Gunther</td>
<td>30-Apr-2020 23:59:59 ET</td>
<td>43/1/0</td>
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<tr>
<td>20-Apr-2020 00:00:00 ET</td>
<td>802.1 authorizes TSN conference calls to generate PAR and CSD for pre-circulation to the EC for an amendment to IEEE 802.1AS to specify a YANG data model. Proposed: Rodney Cummings Seconded: Norm Finn</td>
<td>30-Apr-2020 23:59:59 ET</td>
<td>42/1/1</td>
<td></td>
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<tr>
<td>Date</td>
<td>Time</td>
<td>Item</td>
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<tr>
<td>22-May-2020 00:00:00 ET</td>
<td>45</td>
<td>LNI liaison</td>
<td>Approve <a href="http://www.ieee802.org/1/files/public/docs2020/liaison-response-LNI-4-0-document-exchange-0520-v01.pdf">http://www.ieee802.org/1/files/public/docs2020/liaison-response-LNI-4-0-document-exchange-0520-v01.pdf</a> as communication to LNI 4.0, granting the IEEE 802.1 WG chair (or his delegate) editorial license.</td>
<td>Janos Farkas</td>
</tr>
</tbody>
</table>

### 9 Next session

July 13-20, 2020, Electronic