IEEE 802.1 Working Group
September 11-15, 2023 Interim Session
Niskayuna, NY, USA – Mixed Mode

Session Minutes

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

The Recording Secretary, Jessy Rouyer, wrote and/or edited the minutes in part based on input from subgroup Chairs and their Secretaries.

Note that, throughout this document, minuted/recorded inputs from any attendee can not/shall not be assumed to represent a position of their employer or affiliated organization. Discussion points captured do not necessarily reflect the views of the presenter, discussion leader or minute taker, and do not imply consensus unless that is explicitly minuted. The content of draft standards is determined by the ballot process; other formal decisions are the subject of Working Group motions.

1 Attendance and affiliation

The table in this section reflects the attendance (denoted by the ● symbol) and affiliation of attendees in all 802.1 WG and subgroup meetings held in this session. Also see section 3.
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(*) Last and first names and affiliation possibly incorrect as based on Webex access information or otherwise, and either outdated or not provided in IMAT.
2 802.1 Officers and Leadership

- Chair: Glenn Parsons
- Vice-Chair and Recording Secretary: Jessy Rouyer
- Executive Secretary: Stephan Kehrer
- Liaison Secretary: Karen Randall
- Maintenance TG Chair: Vacant
- Security TG Chair: Mick Seaman
  - Security TG Vice-Chair: Karen Randall
- TSN TG Chair: János Farkas
  - TSN TG Vice-Chair: Craig Gunther
  - TSN TG Secretary: Johannes Specht
  - IEC/IEEE 60802 Joint Project Chair: Ludwig Winkel
  - IEC/IEEE 60802 Joint Project Secretary: Josef Dorr
  - IEC/IEEE 60802 Joint Project System ad hoc Chair: Mark Hantel
  - IEC/IEEE 60802 Joint Project Time Sync ad hoc Chair: David McCall
  - IEEE P802.1DP/SAE AS6675 joint project co-Chairs: Abdul Jabbar & János Farkas
  - IEEE P802.1DP/SAE AS6675 joint project Secretary: Marina Gutiérrez
- Nendica Chair: Roger Marks
- YANGsters Chair: Scott Mansfield
  - YANGsters Vice-Chair and Secretary: Stephan Kehrer
- Maintenance of Email exploder: Mark Hantel and Hal Keen
- Maintenance of website: Mark Hantel, Roger Marks, John Messenger

3 802.1/802.15 Joint Meeting

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

- None

See section 1 for 802.1 attendance and affiliation information and 802.15 session minutes for 802.15 attendance and affiliation information.


4 Maintenance Task Group

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

- Minutes of the Maintenance TG meeting held 2023-07-26 10:05 – 10:56 ET https://listserv.ieee.org/cgi-bin/wa?A2=STDS-802-1-MINUTES;afe9193e.23&S=

See section 1 for attendance and affiliation information.

Call to order Sep 12, 2023 at 8:00 ET by Jessy Rouyer, acting IEEE 802.1 Maintenance TG Chair (acting Chair), who presided and wrote the minutes assisted by Karen Randall, IEEE 802.1 Liaison Secretary.
Agenda items and dispositions:

1. Meeting introduction. The acting Chair reminded encouraged anyone willing to step up in the Maintenance TG Chair role to inform the WG Chair or Vice-Chair. The IEEE SA slides on IEEE Patent Policy and IEEE SA Copyright and Participation Policies were provided beforehand as part of “MEETING INTRODUCTION” http://www.ieee802.org/1/files/public/templates/admin-TG-intro-0323-v01.pdf. The acting Chair announced that the meeting is subject to these Policies as read and displayed at the opening plenary meeting.

   The acting Chair made the Call for Potentially Essential Patents thereby providing an opportunity for participants to identify patent claim(s)/patent application claim(s) and/or the holder of patent claim(s)/patent application claim(s) of which the participant is personally aware and that may be essential for the use of that standard: there were no responses to this Call prior to the end of the meeting.

   The acting Chair asked participants to record their attendance in IMAT and, if they are unable to do so, to promptly provide their affiliation to the minute taker.


   Disposition: The agenda was reviewed, discussed (with indication that P802.1ASdr SA ballot comment resolution would not take place in this meeting since the ballot was extended), and agreed (informally, none dissenting) as presented.


   Disposition: For information.


   Disposition: For information.


   Disposition: A dedicated Maintenance TG meeting will be scheduled (see agenda item 14) to review open items and clean up the IEEE 802.1 maintenance database at https://www.802-1.org/home.


   Disposition:

7. Existing Maintenance Requests. The acting Chair led the discussion of the “Existing Maintenance Requests (requiring further discussion)” slide in “Maintenance Task Group Mixed Mode Meeting” https://www.ieee802.org/1/files/public/docs2023/maint-rouyer-hy-0923-v00.pdf:

- 0312: Stream ID as a Key for YANG lists – Don Fedyk
- 0314: network media and PHY – Johannes Specht
- 0324: Use of Tick in List Execute state machine (802.1Q) – Max Turner
- 0337: Inaccurate description of URN usage in published YANG clauses and ongoing project(s) – Mick Seaman
- 0340: Misleading details on ATS MaxResidenceTime – Max Turner
- 0342: StreamID, StreamID Group, StreamID TLV – Max Turner
- 0343: Handling of stream_handle in Active Stream – Max Turner
- 0360: syncReceiptTimeout and announceReceiptTimeout need range specified – Geoff Garner

Additionally to 0360, the following were also discussed:
- 0280: time-aware should be PTP – Geoff Garner
- 0283: Choose appropriate “domain number” or “domainNumber” – Geoff Garner

- 0361: Add a managed object to control the use of signal – Guenter Steindl
- 0362: IEEE 802.1AS REVISION REQUEST on Invoking the MDPDelay SMs w/o CMLDS – Max Turner

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

8. New maintenance requests. The acting Chair led the discussion of the following new maintenance requests:

- 0363 IEEE 802.1Q-2022 maximum SDU size – Christian Boiger
- 0364 Stream split table in IEEE 802.1CBcv-2021 FRER YANG – Josef Dorr

Disposition: Agreed (informally, none dissenting) to continue discussing 0364 in the Maintenance TG meeting to be held Sep 13, 2023. Details for discussion on all items are logged in the IEEE 802.1 maintenance database at https://www.802-1.org/home where items progressed at the meeting can be reviewed by selecting ‘Meetings’.

9. Any Other Business. No other business was discussed in this meeting.

10:11 ET recess

Call to order Sep 13, 2023 at 8:00 ET by Jessy Rouyer, acting IEEE 802.1 Maintenance TG Chair (acting Chair), who presided and wrote the minutes assisted by Karen Randall, IEEE 802.1 Liaison Secretary.

10. Meeting introduction. The acting Chair announced that the meeting remains subject to the Policies mentioned in agenda item 1.

The acting Chair made the Call for Potentially Essential Patents thereby providing an opportunity for participants to identify patent claim(s)/patent application claim(s) and/or the holder of patent claim(s)/patent application claim(s) of which the participant is personally
aware and that may be essential for the use of that standard: there were no responses to this Call prior to the end of the meeting.

The acting Chair asked participants to record their attendance in IMAT and, if they are unable to do so, to promptly provide their affiliation to the minute taker.

11. Approval of agenda. The acting Chair “Maintenance Task Group Meeting | September 13, 2023 – 8:00 ET | Agenda” slide in “Maintenance Task Group Mixed Mode Meeting”  

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

12. P802-REVc comment resolution. James Gilb, P802-REVc editor, presented “IEEE P802-REVc Working Group Ballot Recirculation #1 Comment Resolution”  
https://mentor.ieee.org/802.1/dcn/23/1-23-0024-00-Mntg-p802-revc-wg-rc1-comment-resolution.odp and led the resolution of comments received on  

Disposition: Comments 58, 71, 72, 73, 75, 76, 10, 28, 43, 44, 74, 16, 35, 45, 46, 47, 17, 48, 49, 50, 51, 52, 53, 54, 12, 2, 11, 29, 32, 14, 15, 26, 33, 3, 55, 56 discussed. Partial disposition: https://mentor.ieee.org/802.1/dcn/23/1-23-0022-02-Mntg-p802-revc-d1-1-comments-pdis.ods. Agreed (informally, none dissenting) to schedule the following intersession Maintenance TG meetings for further P802-REVc comment resolution:

- Oct 4, 2023, 11:00-13:00 ET
- Oct 25, 2023, 11:00-13:00 ET
- Nov 1, 2023, 11:00-13:00 ET

13. Unaddressed agenda items from Sep 12 (time permitting). The acting Chair led the continued discussion of the following new maintenance request:

- 0364 Stream split table in IEEE 802.1CBcv-2021 FRER YANG – Josef Dorr

Disposition: Details for discussion in IEEE 802.1CBcv-2021 FRER YANG – Josef Dorr

14. Any Other Business. Agreed (informally, none dissenting) to schedule the following inter-session Maintenance TG meetings:

- Oct 17, 2023, 11:00-13:00 ET to review open items and clean up the IEEE 802.1 maintenance database at https://www.802-1.org/home.
- Nov 7, 2023, 11:00-13:00 ET to review 802 PARs under consideration and liaisons ahead of the Nov 2023 plenary session.

No other business was discussed in this session.

10:16 ET adjournment

5 Security Task Group

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

- None

The Security TG did not meet at this session.
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 on generic TSN topics whose minutes are incorporated to these session minutes by reference as follows:

- Minutes of the TSN TG meeting held 2023-07-17, 11:00 – 13:00 ET
  [https://listserv.ieee.org/cgi-bin/wa?A2=STDS-802-1-MINUTES;3a97c76.23&S=]
- Minutes of the TSN TG meeting held 2023-07-24, 11:00 – 13:07 ET
  [https://listserv.ieee.org/cgi-bin/wa?A2=STDS-802-1-MINUTES;1dda9a63.23&S=]
- Minutes of the TSN TG meeting held 2023-07-28, 09:00 – 11:00 ET
  [https://listserv.ieee.org/cgi-bin/wa?A2=STDS-802-1-MINUTES;e75f35f8.23&S=]
- Minutes of the TSN TG meeting held 2023-08-14, 11:00 – 12:22 ET
  [https://listserv.ieee.org/cgi-bin/wa?A2=STDS-802-1-MINUTES;ad902b3b.23&S=]
- Minutes of the TSN TG meeting held 2023-08-11, 09:00 – 11:21 ET
  [https://listserv.ieee.org/cgi-bin/wa?A2=STDS-802-1-MINUTES;e5afeadb.23&S=]

Between this session and the preceding session, the IEEE 802.1 Time-Sensitive Networking (TSN) Task Group (TG) held electronic meetings on P802.1DG whose minutes are incorporated to these session minutes by reference as follows:

- Minutes of the IEEE P802.1DG meeting held 2023-07-25 9:00 - 11:10 ET
  [https://listserv.ieee.org/cgi-bin/wa?A2=STDS-802-1-MINUTES;1774cde.23&S=]
- Minutes of the IEEE P802.1DG meeting held 2023-08-01 9:00 - 10:52 ET
  [https://listserv.ieee.org/cgi-bin/wa?A2=STDS-802-1-MINUTES;63b2faa3.23&S=]
- Minutes of the IEEE P802.1DG meeting held 2023-09-01 9:00 - 10:52 ET (revised)
  [https://listserv.ieee.org/cgi-bin/wa?A2=STDS-802-1-MINUTES;db51ba81.23&S=]

See section 1 for attendance and affiliation information.

Minutes of the IEC/IEEE 60802 Joint Project electronic meetings are in section 6.1.

Minutes of the IEEE P802.1DP/SAE AS 6675 joint project electronic meeting are in section 6.2.

Call to order Sep 11, 2023 8:00 ET by János Farkas, IEEE 802.1 TSN TG Chair (Chair), who presided. Johannes Specht, IEEE 802.1 TSN TG Secretary (Secretary), wrote the minutes.

Agenda items and dispositions:

   The Chair showed this presentation advising that the following, provided beforehand, applies:
   - IEEE's Patent Policy is described in Clause 6 of the IEEE SA Standards Board Bylaws;
   - Early identification of patent claims which may be essential for the use of standards under development is strongly encouraged;
   - There may be Essential Patent Claims of which IEEE is not aware. Additionally, neither IEEE, the WG, nor the WG Chair can ensure the accuracy or completeness of any assurance or whether any such assurance is, in fact, of a Patent Claim that is essential for the use of the standard under development.
IEEE SA’s copyright policy is described in Clause 7 of the IEEE SA Standards Board Bylaws and Clause 6.1 of the IEEE SA Standards Board Operations Manual;

- Any material submitted during standards development, whether verbal, recorded, or in written form, is a Contribution and shall comply with the IEEE SA Copyright Policy.

The Chair made the Calls for Potentially Essential Patents at the beginning of each TG meeting during this session thereby providing an opportunity for participants to identify patent claim(s)/patent application claim(s) and/or the holder of patent claim(s)/patent application claim(s) of which the participant is personally aware and that may be essential for the use of that standard: there were no responses to these Calls prior to the end of the session.

The Chair asked participants to record their attendance in IMAT and, if they are unable to do so, to promptly provide their affiliation to the Secretary.


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

3. Stephan Kehrer, P802.1Qdj editor, led the resolution of comments received on https://www.ieee802.org/1/files/private/dj-drafts/d1/802-1Qdj-d1-2.pdf.


**Disposition:** Presentation discussed. Further discussion needed.

10:00 ET recess

**Call to order** Sep 11, 2023 16:00 ET by János Farkas, IEEE 802.1 TSN TG Chair (Chair), who presided. Johannes Specht, IEEE 802.1 TSN TG Secretary (Secretary), wrote the minutes.

5. The Chair announced that this meeting remains subject to the Policies mentioned in agenda item 1 and asked participants to record their attendance in IMAT and, if they are unable to do so, to promptly provide their affiliation to the Secretary.


**Disposition:** Comments 4, 5, 13, 23-25, 39, 46, 49-54, 70, 71, 79, 85, 87, 89 resolved. Disposition per agenda item 25.

18:00 ET recess

**Call to order** Sep 12, 2023 10:30 ET by Craig Gunther, IEEE 802.1 TSN TG Vice-Chair, who presided and wrote the minutes.


The IEEE 802.1 TSN TG Vice-Chair showed this presentation advising that the following, provided beforehand, applies:

- IEEE’s Patent Policy is described in Clause 6 of the IEEE SA Standards Board Bylaws;
Early identification of patent claims which may be essential for the use of standards under development is strongly encouraged;

There may be Essential Patent Claims of which IEEE is not aware. Additionally, neither IEEE, the WG, nor the WG Chair can ensure the accuracy or completeness of any assurance or whether any such assurance is, in fact, of a Patent Claim that is essential for the use of the standard under development.

IEEE SA’s copyright policy is described in Clause 7 of the IEEE SA Standards Board Bylaws and Clause 6.1 of the IEEE SA Standards Board Operations Manual;

Any material submitted during standards development, whether verbal, recorded, or in written form, is a Contribution and shall comply with the IEEE SA Copyright Policy.

The IEEE 802.1 TSN TG Vice-Chair made the Call for Potentially Essential Patents thereby providing an opportunity for participants to identify patent claim(s)/patent application claim(s) and/or the holder of patent claim(s)/patent application claim(s) of which the participant is personally aware and that may be essential for the use of that standard: there were no responses to this Call prior to the end of the meeting.

The IEEE 802.1 TSN TG Vice-Chair asked participants to record their attendance in IMAT and, if they are unable to do so, to promptly provide their affiliation to the minute taker.

8. Approval of agenda. The IEEE 802.1 TSN TG Vice-Chair presented the agenda in https://1.ieee802.org/2023-09-interim-tns-agenda/#TSN_8211_P8021DG.

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


12:30 ET recess

Call to order Sep 12, 2023 13:30 ET by János Farkas, IEEE 802.1 TSN TG Chair (Chair), who presided. Johannes Specht, IEEE 802.1 TSN TG Secretary (Secretary), wrote the minutes.

10. The Chair announced that this meeting remains subject to the Policies mentioned in agenda item 1 and asked participants to record their attendance in IMAT and, if they are unable to do so, to promptly provide their affiliation to the Secretary.

11. Hiroki Nakano, P802.1Qdq editor, presented “P802.1Qdq/D0.4 comment resolution” https://www.ieee802.org/1/files/public/docs2023/dq-cas-802-1qdq-d0-4-comment-resolution-0923-v01.pdf and led the resolution of comments received on https://www.ieee802.org/1/files/private/dq-drafts/d0/802-1Qdq-d0-4.pdf.


12. Norman Finn, P802.1Qdv editor, led the resolution of comments received on https://www.ieee802.org/1/files/private/dv-drafts/d0/802-1Qdv-d0-3-dis-v01.pdf.

15:30 ET recess

Call to order Sep 13, 2023 16:00 ET by János Farkas, IEEE 802.1 TSN TG Chair (Chair), who presided. Johannes Specht, IEEE 802.1 TSN TG Secretary (Secretary), wrote the minutes.

13. The Chair announced that this meeting remains subject to the Policies mentioned in agenda item 1 and asked participants to record their attendance in IMAT and, if they are unable to do so, to promptly provide their affiliation to the Secretary.

   Disposition: Presentation discussed. Further discussion needed.

18:00 ET recess

Call to order Sep 14, 2023 8:00 ET by Craig Gunther, IEEE 802.1 TSN TG Vice-Chair, who presided and wrote the minutes.

   The IEEE 802.1 TSN TG Vice-Chair showed this presentation advising that the following, provided beforehand, applies:
   • IEEE’s Patent Policy is described in Clause 6 of the IEEE SA Standards Board Bylaws;
   • Early identification of patent claims which may be essential for the use of standards under development is strongly encouraged;
   • There may be Essential Patent Claims of which IEEE is not aware. Additionally, neither IEEE, the WG, nor the WG Chair can ensure the accuracy or completeness of any assurance or whether any such assurance is, in fact, of a Patent Claim that is essential for the use of the standard under development.
   • IEEE SA’s copyright policy is described in Clause 7 of the IEEE SA Standards Board Bylaws and Clause 6.1 of the IEEE SA Standards Board Operations Manual;
   • Any material submitted during standards development, whether verbal, recorded, or in written form, is a Contribution and shall comply with the IEEE SA Copyright Policy.
   The IEEE 802.1 TSN TG Vice-Chair made the Call for Potentially Essential Patents thereby providing an opportunity for participants to identify patent claim(s)/patent application claim(s) and/or the holder of patent claim(s)/patent application claim(s) of which the participant is personally aware and that may be essential for the use of that standard: there were no responses to this Call prior to the end of the meeting.
   The IEEE 802.1 TSN TG Vice-Chair asked participants to record their attendance in IMAT and, if they are unable to do so, to promptly provide their affiliation to the minute taker.

   Disposition: The agenda was reviewed, discussed, and agreed (informally, none dissenting) as presented.
9. P802.1DG/D2.0 Task Group comment resolution. Max Turner, P802.1DG Editor, presented “P802.1DG-D2.1 Editor’s Report V2”

10:00 ET recess

**Call to order** September 14, 2023 10:30 ET by János Farkas, IEEE 802.1 TSN TG Chair (Chair), who presided. Johannes Specht, IEEE 802.1 TSN TG Secretary (Secretary), wrote the minutes.

15. The Chair announced that this meeting remains subject to the Policies mentioned in agenda item 1 and asked participants to record their attendance in IMAT and, if they are unable to do so, to promptly provide their affiliation to the Secretary.

16. Don Pannell presented “Supporting Our Customer’s Needs for gPTP”
   **Disposition:** Presentation discussed. Further discussion needed.

   **Disposition:** Comments 16, 20, 26, 27, 61, 65 resolved. Disposition per agenda item 25.

12:30 – 13:30 ET recess

18. Tongtong Wang presented “P802.1DF Status Update”
   **Disposition:** Presentation discussed. Agreed (informally, none dissenting) for the P802.1DF PAR to be administratively withdrawn.

14:00 ET recess

**Call to order** Sep 15, 2023 08:00 ET by János Farkas, IEEE 802.1 TSN TG Chair (Chair), who presided. Johannes Specht, IEEE 802.1 TSN TG Secretary (Secretary), wrote the minutes.

19. The Chair announced that this meeting remains subject to the Policies mentioned in agenda item 1 and asked participants to record their attendance in IMAT and, if they are unable to do so, to promptly provide their affiliation to the Secretary.

   **Disposition:** Presentations discussed. Draft PAR and CSD:

21. Johannes Specht presented an overview on “P802.1DU/D0.1 (editor’s second draft)”
   **Disposition:** Presentation discussed. Further discussion needed.

Disposition: Disposition per agenda item 25.

10:00 ET recess

Call to order Sep 15, 2023 08:00 ET by János Farkas, IEEE 802.1 TSN TG Chair (Chair), who presided until 14:45 ET. Craig Gunther, IEEE 802.1 TSN TG Vice-Chair presided after 14:45 ET. Johannes Specht, IEEE 802.1 TSN TG Secretary (Secretary), wrote the minutes.

23. The Chair announced that this meeting remains subject to the Policies mentioned in agenda item 1 and asked participants to record their attendance in IMAT and, if they are unable to do so, to promptly provide their affiliation to the Secretary.


Disposition: Comments 1-2, 55-59, 90 resolved. Disposition per agenda item 25.

12:30 – 13:30 ET recess


15:30 ET 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 2023-08-14 9:00 - 11:00 ET https://listserv.ieee.org/cgi-bin/wa?A2=STDS-802-1-MINUTES;2f574251.23&S=

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

- Minutes of the IEC/IEEE 60802 Joint Project Time Sync Ad Hoc meeting held 2023-08-18 9:00 - 11:00 ET https://listserv.ieee.org/cgi-bin/wa?A2=STDS-802-1-MINUTES;32590832.23&S=

- Minutes of the IEC/IEEE 60802 Joint Project Time Sync Ad Hoc meeting held 2023-09-08 9:00 - 11:00 ET https://listserv.ieee.org/cgi-bin/wa?A2=STDS-802-1-MINUTES;f775e2bf.23&S=

See section 1 for attendance and affiliation information.

Call to order Sep 11, 2023 at 10:30 ET by Ludwig Winkel, IEC 65C/WG18 Convenor and IEC/IEEE 60802 Joint Project Chair (60802 Chair), who presided. Dieter Proell, acting IEC/IEEE 60802 Joint Project Secretary (acting 60802 Secretary), wrote the minutes.
Agenda items and dispositions:

   The 60802 Chair announced that the meeting is subject to these Policies as read and displayed at the opening Time-Sensitive Networking Task Group meeting. The 60802 Chair made the Calls for Potentially Essential Patents at the beginning of the session thereby providing an opportunity for participants to identify patent claim(s)/patent application claim(s) and/or the holder of patent claim(s)/patent application claim(s) of which the participant is personally aware and that may be essential for the use of that standard: there were no responses to this Call prior to the end of the session.
   The 60802 Chair explained that the IEC/IEEE 60802 Joint Project also follows the usual IEC patent https://www.iec.ch/members_experts/tools/patents/patent_policy.htm and copyright https://www.iec.ch/standardsdev/resources/draftingpublications/overview/rules_requirements/copyright.htm policies.
   The 60802 Chair asked participants to record their attendance in IMAT and, if they are unable to do so, to promptly provide their affiliation to the minute taker.

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

   Disposition: For information.

   Disposition: Presentation discussed.

   Disposition: Presentation discussed.

12:30 ET recess

Call to order Sep 12, 2023 at 13:30 ET by Ludwig Winkel, IEC 65C/WG18 Convenor and IEC/IEEE 60802 Joint Project Chair (60802 Chair), who presided. Dieter Proell, acting IEC/IEEE 60802 Joint Project Secretary (acting 60802 Secretary), wrote the minutes.

6. Meeting introduction and other administrative items. The 60802 Chair announced that the meeting remains subject to the Policies mentioned in agenda item 1 and asked participants to record their attendance in IMAT and, if they are unable to do so, to promptly provide their affiliation to the minute taker.


15:30 ET recess

Call to order Sep 13, 2023 at 10:30 ET by Ludwig Winkel, IEC 65C/WG18 Convenor and IEC/IEEE 60802 Joint Project Chair (60802 Chair), who presided. Dieter Proell, acting IEC/IEEE 60802 Joint Project Secretary (acting 60802 Secretary), wrote the minutes.

8. Meeting introduction and other administrative items. The 60802 Chair announced that the meeting remains subject to the Policies mentioned in agenda item 1 and asked participants to record their attendance in IMAT and, if they are unable to do so, to promptly provide their affiliation to the minute taker.


Disposition: Presentation discussed. Consensus was that the simulations show positive results.


Disposition: More discussion is needed.

12:30 – 13:30 ET recess


Disposition: More discussion is needed.

15:30 ET recess

Call to order Sep 14, 2023 at 13:30 ET by Ludwig Winkel, IEC 65C/WG18 Convenor and IEC/IEEE 60802 Joint Project Chair (60802 Chair), who presided. Dieter Proell, acting IEC/IEEE 60802 Joint Project Secretary (acting 60802 Secretary), wrote the minutes.
13. Meeting introduction and other administrative items. The 60802 Chair announced that the meeting remains subject to the Policies mentioned in agenda item 1 and asked participants to record their attendance in IMAT and, if they are unable to do so, to promptly provide their affiliation to the minute taker.

14. YANG model update.
   Martin Mittelberger presented “6.4.10 YANG Data Model”
   Disposition: Presentation discussed. The presented subclause will be integrated into the next draft 2.1 of IEC/IEEE 60802.

15. D2.1 review / contributions – Annex A PCS proforma.
   Mark Hantel continued presenting “Annex A (normative) PCS proforma – Time-sensitive networking profile for industrial automation” of
   Disposition: Presentation discussed. Changes to the normative Annex are to be reflected based on session discussion in the next draft 2.1 of IEC/IEEE 60802.

   Disposition: Presentation discussed and updated as

17. 60802 Time Sync - Normative Requirements for d2.1. David McCall started presenting “60802 Time Sync Normative Requirements for d2.1”
   Disposition: More discussion is needed.

15:30 – 16:00 ET recess

18. 60802 Time Sync - Normative Requirements for d2.1. David McCall continued presenting “60802 Time Sync Normative Requirements for d2.1”
   Disposition: More discussion is needed.

18:00 ET recess

Call to order Sep 15, 2023 at 10:30 ET by Ludwig Winkel, IEC 65C/WG18 Convenor and IEC/IEEE 60802 Joint Project Chair (60802 Chair), who presided. Dieter Proell, acting IEC/IEEE 60802 Joint Project Secretary (acting 60802 Secretary), wrote the minutes.

19. Meeting introduction and other administrative items. The 60802 Chair announced that the meeting remains subject to the Policies mentioned in agenda item 1 and asked participants to record their attendance in IMAT and, if they are unable to do so, to promptly provide their affiliation to the minute taker.
20. 60802 Time Sync - Normative Requirements for d2.1. David McCall continued presenting “60802 Time Sync Normative Requirements for d2.1”

Disposition: Presentation discussed. Changes to the normative requirements are to be reflected based on session discussion in the next draft 2.1 of IEC/IEEE 60802.


Disposition: Agreed (informally, none dissenting) to cancel these electronic meetings.

22. Review of minutes. The draft minutes were reviewed under the lead of the acting 60802 Secretary.

12:10 ET adjournment

6.2 IEEE P802.1DP/SAE AS6675 joint project

Between this session and the preceding session, the IEEE 802.1 Time-Sensitive Networking (TSN) Task Group (TG) held electronic meetings on P802.1DP/SAE AS 6675 whose minutes are incorporated to these session minutes by reference as follows:

- Minutes of the IEEE P802.1DP/SAE AS6675 meeting held 2023-08-02 10:02 - 11:54 ET, https://listserv.ieee.org/cgi-bin/wa?A2=STDS-802-1-MINUTES;4a9ec16b.23&S=
- Minutes of the IEEE P802.1DP/SAE AS6675 meeting held 2023-08-30 10:00 - 11:58 ET, https://listserv.ieee.org/cgi-bin/wa?A2=STDS-802-1-MINUTES;be5611bf.23&S=

See section 1 for attendance and affiliation information.

Call to order Sep 13, 2023 at 8:02 ET by János Farkas, IEEE 802.1 TSN TG Chair. Abdul Jabbar and János Farkas, IEEE P802.1DP/SAE AS6675 joint project co-Chairs, presided. Marina Gutiérrez, IEEE P802.1DP/SAE AS6675 Secretary, wrote the minutes.

Agenda items and dispositions:


János Farkas, IEEE P802.1DP/SAE AS6675 co-Chair, announced that the meeting is subject to these Policies as read and displayed at the opening plenary meeting.

János Farkas, IEEE P802.1DP/SAE AS6675 co-Chair, asked participants to record their attendance in IMAT and, if they are unable to do so, to promptly provide their affiliation to the minute taker.

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


Disposition: The agenda was reviewed, discussed and updated as recorded by these minutes.
   **Disposition:** Presentation was discussed. More discussion is needed.

   **Disposition:** Presentation was discussed. More discussion is needed.

   **Disposition:** Presentation was discussed. More discussion is needed.

10:06 - 10:34 ET recess

   **Disposition:** Comments 137, 138, 139, 142, 144, 145, 146, 22, 23, 24, 85, 61, 29, 140, 86, 131, 72, 38, 34, 64, 135 were resolved. Partial

15:28 - 16:01 ET recess

   **Disposition:** Presentation was discussed. More discussion is needed.

8. Don Pannell presented “Proposed Solutions for P802.1ASds”
   **Disposition:** Presentation was discussed. Anticipated next: Initial draft for P802.1ASds.

18:07 ET recess

7 **Nendica**

Between this session and the preceding session, the IEEE 802 “Network Enhancements for the Next Decade” Industry Connections Activity (Nendica) held electronic meetings whose minutes are incorporated to these session minutes by reference as follows:
- Minutes of the Nendica meeting held 2023–08-24 09:00-11:00 ET
  https://listserv.ieee.org/cgi-bin/wa?A2=STDS-802-1-MINUTES;e0813ce4.23
- Minutes of the Nendica meeting held 2023–09-07 09:00-11:00 ET
  https://listserv.ieee.org/cgi-bin/wa?A2=STDS-802-1-MINUTES;d066af5.23

See section 1 for attendance and affiliation information.
Call to order Sep 14, 2023 08:04 ET by Jessy Rouyer, acting Chair (“Chair”), who presided. Johannes Specht, acting Secretary (“Secretary”), wrote the minutes.

Agenda items and dispositions:
1. Meeting introduction and other administrative items. The IEEE SA slides on IEEE Patent Policy and IEEE SA Copyright and Participation Policies were provided beforehand as part of “MEETING INTRODUCTION” https://www.ieee802.org/1/files/public/templates/admin-prepAR-intro-0323-v01.pdf. The Chair showed this presentation advising that the following applies:
   - IEEE SA’s copyright policy is described in Clause 7 of the IEEE SA Standards Board Bylaws and Clause 6.1 of the IEEE SA Standards Board Operations Manual;
   - Any material submitted during the Nendica meeting, whether verbal, recorded, or in written form, is a Contribution and shall comply with the IEEE SA Copyright Policy. The Chair asked participants to record their attendance in IMAT and, if they are unable to do so, to promptly provide their affiliation to the minute taker.
2. Approval of agenda. The Chair presented the agenda at https://1.ieee802.org/802-nendica-agenda-2023-09-14/ and noted the Mentor server document list.
   Disposition: The agenda was reviewed and agreed (informally, none dissenting) as presented.
3. Minutes. The Chair reviewed the draft “Minutes of the Nendica meeting held 2023–09-07 09:00-11:00 ET” https://listserv.ieee.org/cgi-bin/wa?A2=STDS-802-1-MINUTES;d066af6b5.23.
   Disposition: The agenda was reviewed and agreed (informally, none dissenting) to approve the minutes.
4. Update. The Chair reviewed the Nendica website https://1.ieee802.org/802-nendica/.
   Disposition: For information.
   Disposition: Presentation discussed.
6. CTF Study Item. Johannes Specht led the discussion on the co-existence of the Nendica CTF Study Item and IEEE P802.1DU.
   Disposition: Further discussion needed. Discussion proposed for the 802.1 leadership meeting to be held Sep 28, 2023.
7. Ella Study Item. No discussion.
10. Any Other Business. No other business was discussed by Nendica in this meeting.

9:00 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 2023-08-01 10:00 –10:45 ET https://listserv.ieee.org/cgi-bin/wa?A2=STDS-802-1-MINUTES;7f8e6ed2.23&S=
- Minutes of the YANGsters meeting held 2023-08-15 10:00 –10:45 ET https://listserv.ieee.org/cgi-bin/wa?A2=STDS-802-1-MINUTES;d37bd099.23&S=
Call to order Sep 12, 2023, at 16:01 ET by Scott Mansfield, YANGsters Chair, who presided. Stephan Kehrer, YANGsters Secretary, wrote the minutes.

Agenda items and dispositions:

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

The YANGsters Chair asked participants to record their attendance in IMAT and, if they are unable to do so, to promptly provide their affiliation to the minute taker.

2. Approval of agenda. The YANGsters Chair presented the agenda in https://1.ieee802.org/september-2023-interim-session-yangsters-agenda/.

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

3. Introduction to YANGsters. The YANGsters Chair presented the “Introduction” slide of “YANGsters” https://www.ieee802.org/1/files/public/docs2023/yangsters-smansfield-niskayuna-status-0923-v01.pdf to introduce the following:
   - https://1.ieee802.org/yangsters/,
   - https://1.ieee802.org/yangsters/yangsters-call-information/,
   - https://1.ieee802.org/category/yangsters-agenda/,

Disposition: For information.

4. Status of YANG Projects. The YANGsters Chair presented the “YANGsters Status” slides of the presentation in agenda item 3.
   - IEEE Std 802.1AEEdk and IEEE Std 802.1Qcz have recently been published.

Disposition: For information.

5. 802.1AXdz PAR/CSD Discussion Recap. The YANGsters Chair presented the “YANG for Link Aggregation” slide of the presentation in agenda item 3 and led the discussion.
   - Draft PAR and CSD had been prepared in the YANGsters electronic meeting held Friday Sep 8, 2023 for discussion in YANGsters and in support of generation in the TSN TG meeting to be held Sep 15, 2023, as part of the IEEE 802.1 Sep 2023 interim session.

Disposition: For information.

6. 802.3 Coordination. The YANGsters Chair presented the “802.3 YANG Discussions” slide of the presentation in agenda item 3 and led the discussion.
   - IEEE Std 802.3.1-2013-REV/IEEE Std 802.3.2-2019-REV Joint Task Force
     - The following topics were discussed on Monday, Sep 11 2023 in a meeting held as part of the IEEE 802.3 Sep 2023 interim session
       https://www.ieee802.org/3/minutes/sep23/index.html:
       - LLDP Progress
MAC Merge Progress

Disposition: For information.

7. Status of IEEE P802-REVc and OID and URN impact on YANGsters. The YANGsters Chair presented the “REVc” slide of the presentation in agenda item 3 and led the discussion.
   - The clauses of P802-REVc will need to be considered in YANGsters when the work on them is done.

Disposition: For information.

8. ETSI Plug[t]est comment on IEEE Bridge Model related to IETF Microwave Models. The YANGsters Chair presented the “ETSI Plugtest for Microwave” slide of the presentation in agenda item 3 and led the discussion.
   - An ETSI “plugtest” that included published IEEE 802.1 YANG modules was held in February 2023 https://www.etsi.org/events/past-events/2086-mwt-plugtests-4.
   - The results of the “plugtest” found some issues with the modules.
   - The YANG and the issues found are discussed at https://github.com/samans/draft-ybam-rfc8561bis/issues/19.

Disposition: For information.


Disposition: No topics were discussed.

10. Weekly Call Agenda Requests. The YANGsters Chair introduced the topic and led the discussion.

   Disposition:
   - The next YANGsters electronic meeting is planned to be held Sep 26, 2023.
   - Information on YANGsters electronic meetings can be found at https://1.ieee802.org/yangsters/yangsters-call-information/.

11. Any Other Business.

   - Maintenance item 0312 on “Stream ID as a Key for YANG lists” https://www.802-1.org/items/423 was briefly discussed.
     o The suggested way forward is to implement the suggested remedy in that comment, i.e., implement the new pattern as a new typedef and deprecate the old one.
   - Maintenance item 0242 on “IEEE Std 802.1Qcp-2018: Collected issues on data consistency and others” https://www.802-1.org/items/357 was briefly discussed.
     o The suggested way forward is to create an issue list out of the spreadsheet referenced in the maintenance item and then submit maintenance items in smaller items that can be better handled by the maintenance process.

No other YANGsters business was discussed in this meeting.

16:38 ET adjournment

9 Next Session

Nov 13-17, 2023 mixed mode plenary session in Honolulu, Hawaii, USA.