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.

Last name	First name	Affiliation	TSN, Mon Sep 11, 2023, 8:00-10:00 ET	TSN - IEC/IEEE 60802, Mon Sep 11, 2023, 10:30-12:30 ET	802.1/802.15 Joint, Mon Sep 11, 2023, 13:30-14:50 ET	TSN, Mon Sep 11, 2023, 14:50-18:00 ET	Maintenance, Tue Sep 12, 2023, 8:00-10:00 ET	TSN - P802.1DG, Tue Sep 12, 2023, 10:30-12:30 ET	TSN, Tue Sep 12, 2023, 13:30-15:30 ET	TSN - IEC/IEEE 60802, Tue Sep 12, 2023, 13:30-15:30 ET	YANGsters, Tue Sep 12, 2023, 16:00-18:00 ET	P802-REVc, Wed Sep 13, 2023, 8:00-10:00 ET	TSN - P802.1DP/AS6675, Wed Sep 13, 2023, 8:00-10:00 ET	TSN - IEC/IEEE 60802, Wed Sep 13, 2023, 10:30-12:30 ET	TSN - P802.1DP/AS6675, Wed Sep 13, 2023, 10:30-12:30 ET	TSN - IEC/IEEE 60802, Wed Sep 13, 2023, 13:30-15:30 ET	TSN - P802.1DP/AS6675, Wed Sep 13, 2023, 13:30-15:30 ET	TSN, Wed Sep 13, 2023, 16:00-18:00 ET	TSN - P802.1DP/AS6675, Wed Sep 13, 2023, 16:00-18:00 ET	Nendica, Thu Sep 14, 2023, 8:00-10:00 ET	TSN - P802.1DG, Thu Sep 14, 2023, 8:00-10:00 ET	TSN, Thu Sep 14, 2023, 10:30-12:30 ET	TSN, Thu Sep 14, 2023, 13:30-15:30 ET	TSN - IEC/IEEE 60802, Thu Sep 14, 2023, 13:30-15:30 ET	TSN - IEC/IEEE 60802, Thu Sep 14, 2023, 16:00-18:00 ET	TSN, Fri Sep 15, 2023, 8:00-10:00 ET	TSN - IEC/IEEE 60802, Fri Sep 15, 2023, 10:30-12:30 ET	TSN, Fri Sep 15, 2023, 13:30-15:30 ET
Abassi	Oussama	Safran Electronics and Defense	●	●						●	●																	
Ada	Prabul	gov.in*								●																		

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Adams	Michael	BAE Systems*				●				●		●			●	●	●											
Alayedi	Mohanad	Istanbul Medipol University, Vestel							●																			
Alexandris	Konstantinos	Huawei Technologies Duesseldorf GmbH	●	●		●			●	●			●		●		●			●		●	●	●	●	●	●	
Alwishah	Abbas	Molex Incorporated				●																						
Arrington	Arthur	Air Network Solutions								●																		
Arunarthi	Venkat	Broadcom Corporation	●	●		●	●	●	●		●			●		●	●			●	●	●	●	●		●		
Assmann	Ralf	Marvell Semiconductor, Inc.	●	●	●	●	●	●	●		●		●		●	●	●			●	●	●	●	●	●		●	●
Bao	Huajie	Huawei Technologies Co., Ltd	●	●				●	●				●	●								●					●	
Barsky	Greg	Broadcom Corporation				●																						
Beecher	Philip	Wi-SUN Alliance				●																						
Belliardi	Rudy	Schneider Electric	●	●	●	●	●	●	●	●	●		●	●	●	●		●	●	●		●		●	●	●	●	●
Bhullar	Puneet	Ericsson								●																		
Bian	Mingzhang	Daimler Truck AG	●	●		●		●	●												●	●	●	●	●	●	●	
Bierschenk	Jens	Robert Bosch GmbH	●			●							●		●					●	●				●			
Boiger	Christian	Infineon Technologies	●	●		●	●	●	●		●		●		●	●	●	●		●	●	●	●	●	●	●	●	●
Bottorff	Paul	Hewlett-Packard Development Company, L.P.		●	●	●	●	●	●				●	●	●	●	●	●	●	●		●			●		●	●
Canchi	Radhakrishna	Kyocera International Inc	●	●	●	●	●	●		●	●		●	●		●		●		●	●		●	●	●	●	●	
Carlstedt	Markus	Wind River											●		●													
Chaplin	Clint	Self*, Samsung Research America*				●																						
Chen	Feng	Siemens AG	●	●	●	●	●	●	●		●		●	●	●	●		●		●	●			●	●			
Choudhury	Abhijit	Broadcom Corporation	●	●	●	●	●	●	●				●			●	●	●		●	●	●	●					
Coles	James	BAE Systems						●	●				●			●	●	●										
Davis	Andy	Ultra Electronics	●	●	●	●	●				●	●		●		●		●			●	●						
Dorr	Josef	Siemens AG	●	●		●																						●
Farkas	Janos	Ericsson AB	●	●		●				●			●			●				●	●	●	●	●	●	●	●	●
Fedyk	Donald	LabN Consulting, L.L.C.				●				●																●	●	
Finn	Norman	Huawei Technologies Co., Ltd	●	●	●	●	●			●			●	●		●		●			●	●	●		●	●	●	●
Finnegan	Daniel	TTTech North America											●		●	●	●											
Garner	Geoffrey	Analog Devices	●	●	●	●	●	●	●	●			●	●	●	●		●			●	●		●	●	●	●	●
Gelish	Joseph	ANSI, SAE, NIST, DOE, ITS America											●		●		●	●	●									

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Gilb	James	General Atomics Aeronautical Systems, Inc.								•																		
Granhaug	Kristian	Novelda*		•																								
Gravel	Mark	Hewlett Packard Enterprise	•	•	•	•	•	•	•		•		•		•		•	•	•	•	•			•	•	•	•	•
Grigorjew	Alexej	University of Würzburg		•				•				•	•	•	•	•	•											
Grubman	Harrison	The Boeing Company							•		•		•	•	•													
Gunther	Craig	LabN Consulting, L.L.C.	•	•	•	•	•	•	•		•		•		•		•	•	•	•	•	•	•	•	•	•	•	•
Gustainis	Joseph	BAE Systems*							•		•		•	•	•													
Gutierrez	Marina	L-Acoustics;RealTime-at-Work (RTaW)	•	•	•	•			•	•	•		•		•		•	•	•			•	•	•		•	•	•
Haasz	Jodi	IEEE Standards Association (IEEE-SA)	•	•	•	•	•	•	•				•		•	•	•	•	•	•	•	•	•	•	•	•	•	•
Haddock	Stephen	Stephen Haddock Consulting, LLC																							•			
Hall	Brendan	NASA JSC											•	•	•													
Hamilton	Mark	Ruckus Wireless								•																		
Hantel	Mark	Rockwell Automation	•	•	•	•	•	•		•		•	•		•		•		•	•		•		•		•	•	•
Harada	Hiroshi	Kyoto University; National Institute of Info and Comms Tech (NICT)			•																							
Hegarty	Michael	Data Device Corporation							•		•		•	•	•													
Hernandez	Marco	National Institute of Information and Communications Technology (NICT)			•																•							
Hozeska	Charles	Cernitin Solutions																								•		
Hu	Mark	Aptiv		•															•	•						•	•	
Huh	Woojung	Microchip Technology, Inc.	•	•	•			•		•		•		•		•	•	•			•	•	•					
Ito	Yoshihiro	Nagoya Institute of Technology	•	•	•	•	•	•	•		•		•		•	•	•		•	•	•	•			•	•	•	•
Jabbar	Abdul	General Electric Company (GE)	•	•	•	•	•	•	•	•	•		•		•	•	•		•	•				•		•	•	•
Kalsow	Steffen	Airbus Group							•		•		•	•	•													
Karl	Michael	Marvell Semiconductor, Inc.	•	•	•	•			•	•	•		•		•	•		•	•	•			•	•	•	•	•	•
Kehrer	Stephan	Hirschmann Automation and Control, Inc.	•	•	•	•	•	•	•	•	•		•	•		•		•		•	•	•		•	•	•	•	•

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Kerry	Stuart	OK-Brit		•																								
Khericha	samir	Broadcom Corporation		•																								
Kiessling	Marcel	Beckhoff Automation	•	•	•	•	•	•	•	•	•	•		•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Kitazawa	Shoichi	Muroran IT		•	•																							
Kohno	Ryuji	YNU/YRP-IAI		•	•																							
Krieger	Ann	US Department of Defense		•																								
Lai	Gavin	Moxa Networking Co., Ltd.	•	•	•	•	•	•	•		•	•		•	•		•					•		•	•	•	•	•
Lalitte	Vanessa	IEEE SA (Staff)								•		•		•		•								•	•			
Landsman	David	Western Digital Corporation																							•			
Le	Chinh	LEWIZ COMMUNICATIONS, INC.				•		•	•		•		•		•		•	•	•			•						
Levy	Joseph	InterDigital, Inc.								•																		
Lewis	Jon	Dell EMC								•																		
Li	Yizhou	Huawei Technologies Co., Ltd	•	•	•	•	•	•	•		•		•	•							•	•					•	•
Lim	Sang-Kyu	ETRI*			•																							
Little	Terrance	Foxconn Electronics Inc.	•	•	•																							
Lyalikov	Vlad	Microchip Technology, Inc.						•	•			•		•		•	•	•		•	•							
Lyon	Chris	Amphenol Corporation																							•			
Lyu	Yunping(Lily)	Huawei Technologies Co., Ltd;Huawei Technologies Co., Ltd						•																				
Mangin	Christophe	Mitsubishi Electric Corporation	•	•	•	•	•	•	•	•	•		•		•			•	•	•		•	•	•				
Mansfield	Scott	Telefon AB LM Ericsson	•	•	•	•	•	•	•		•	•		•					•			•	•	•	•			
Marks	Roger	EthAirNet Associates								•																		
McCall	David	Intel	•	•	•	•		•		•			•	•	•		•	•			•		•	•	•	•		
Mittelberger	Martin	Siemens AG	•	•	•	•		•		•	•			•		•		•		•		•		•	•	•	•	•
Molling	Harry	GE*												•		•	•	•										
Murray	Carl	Qorvo			•																							
Nakano	Hiroki	CAHI Corporation;Kyoto University; National Institute of Information and Communications Technology (NICT)	•	•	•	•	•	•		•		•		•		•	•		•	•	•	•	•	•	•	•	•	•

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Noseworthy	Bob	University of New Hampshire InterOperability Laboratory (UNH-IOL)	●	●	●	●	●	●	●		●		●		●		●	●	●		●	●				●		
Obradovic	Dragan	Siemens AG	●	●			●		●			●						●	●							●	●	
Ostertag	Martin	Zurich University of Applied Sciences								●		●			●							●	●					
Pannell	Donald	NXP Semiconductors	●	●	●	●		●	●		●		●		●		●	●	●		●	●	●					
Parsons	Glenn	Ericsson AB	●	●	●	●	●	●	●		●	●		●		●			●		●	●	●			●	●	
Powell	Clinton	HID Global;PWC, LLC			●																							
Proell	Dieter	Siemens AG	●	●	●	●	●	●	●	●	●		●		●		●		●		●		●	●	●	●	●	●
Ramey	Sean	The Boeing Company								●		●		●	●	●												
Randall	Karen	Randall Consulting				●				●																		
Rang	John	GE Aviation								●		●																
Razavi	Alireza	Marvell			●																							
Rihn	Curtis	Lockheed Martin Corporation										●		●	●	●												
Rodrigues	Silvana	Huawei Technologies Co., Ltd	●	●	●	●	●	●	●			●	●		●		●	●		●	●		●	●	●	●	●	●
Rodriguez	Allan	GE; General Electric				●	●	●		●		●		●		●	●		●	●		●	●					
Rolfe	Benjamin	Blind Creek Associates							●																			
Rouyer	Jessy	Nokia			●	●	●	●	●		●	●			●	●	●	●	●	●	●		●	●	●	●	
Sand	Stephan	IEEE*			●																							
Schmidt	Reinhold	Infineon Technologies*			●																							
Schroeder	Christian	GE										●																
Seewald	Maik	Cisco Systems, Inc.	●	●	●	●	●	●	●		●	●	●	●		●		●	●		●	●	●	●	●	●	●	
Serafinko	Robert	Agile Communications, Inc.								●		●		●														
Sever	Fatih	ASELSAN								●		●																
Shah	Kunalp	Apple*			●																							
Sivakolundu	Ramesh	Cisco Systems, Inc.	●	●	●	●	●	●	●		●		●	●	●	●		●	●		●							
Soerensen	Kim	Comcores*		●							●							●										
Specht	Johannes	Self				●	●	●		●		●		●		●	●	●	●	●		●	●		●	●	●	●
Stamenic	Nemanja	Siemens AG	●	●	●	●	●		●	●		●		●			●		●	●				●			●	
Stanica	Marius	ABB AB	●	●					●			●		●		●	●								●	●	●	
Steindl	Guenter	Siemens AG	●	●			●		●			●							●				●	●	●	●	●	
Stuebing	Gary	Cisco Systems, Inc.			●																							
Sugathan	Nived	Daimler Truck AG	●	●	●			●												●	●					●		

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Suzuki	Takafumi	National Institute of Information and Communications Technology (NICT)			●	●																						
Tanaka	Yuhei	Nitto				●																						
Thompson	Geoffrey	GraCaSI S.A.									●																	
traore	karim	Microchip/Microsemi Corporation	●	●	●	●		●	●		●		●		●		●	●	●		●	●	●	●	●			
Tse	Richard	Microchip Technology, Inc.	●	●	●	●		●	●	●	●		●	●	●		●	●	●		●	●	●	●	●			
Turner	Max	Ethernovia	●	●	●	●	●	●	●	●		●	●	●	●	●	●	●	●		●	●		●	●	●	●	●
Varga	Balazs	Ericsson AB	●	●	●	●	●	●	●			●		●		●					●	●	●	●	●	●	●	
Venkatesan	Ganesh	Intel	●	●	●	●						●	●	●			●	●			●			●			●	●
Verso	Billy	Qorvo				●																						
Waineo	Nels	Collins Aerospace										●		●		●	●	●										
Wang	Tongtong	Huawei Technologies Co., Ltd		●																						●		
Wei	Te	Huawei Technologies Co., Ltd				●																						
Winkel	Ludwig	PNO e.V.	●	●		●	●	●		●	●		●	●		●					●	●		●	●	●	●	●
Wood	Tim	General Electric Company (GE)				●	●	●				●		●							●	●						
Woods	Jordon	Analog Devices Inc.	●	●	●	●	●	●		●		●	●	●	●		●	●			●	●		●	●	●	●	●
Wu	Xuming	Huawei Technologies Co., Ltd				●																						
Yang	Shang-Te	Apple, Inc.			●																							
Zaehring	Jamie	Rockwell Collins, Inc.										●		●		●							●					
Zakaib	Larry	SPARK Microsystems			●																							
Zein	Nader	NEC Europe (NLE)	●	●	●	●	●	●	●		●		●		●		●	●	●	●								
Zeisberg	Sven	Hochschule fuer Technik und Wirtschaft Dresden; ZIGPOS GmbH			●	●																						
Zheng	Haomian	Huawei Technologies Co., Ltd	●	●		●	●				●		●		●				●		●	●			●	●		
Zischka	Wolfram	TTTech										●		●		●												

(*) 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
  - o Security TG Vice-Chair: Karen Randall
- TSN TG Chair: János Farkas
  - o TSN TG Vice-Chair: Craig Gunther
  - o TSN TG Secretary: Johannes Specht
  - o IEC/IEEE 60802 Joint Project Chair: Ludwig Winkel
  - o IEC/IEEE 60802 Joint Project Secretary: Josef Dorr
  - o IEC/IEEE 60802 Joint Project System ad hoc Chair: Mark Hantel
  - o IEC/IEEE 60802 Joint Project Time Sync ad hoc Chair: David McCall
  - o IEEE P802.1DP/SAE AS6675 joint project co-Chairs: Abdul Jabbar & János Farkas
  - o IEEE P802.1DP/SAE AS6675 joint project Secretary: Marina Gutiérrez
- Nendica Chair: Roger Marks
- YANGsters Chair: Scott Mansfield
  - o 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.

The minutes of the 802.1/802.15 joint meeting held Sep 11, 2023 are on page 5 of "802.15 WG & CAC Minutes September 2023 Wireless Interim" https://mentor.ieee.org/802.15/dcn/23/15-23-0473-02-0000-802-15-wg-cac-min-sept-2023-wireless-interim.docx.

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.

2. Approval of agenda. The acting Chair presented the "Maintenance Task Group Meeting | September 12, 2023 – 8:00 ET | Agenda" slide in "Maintenance Task Group Mixed Mode Meeting" https://www.ieee802.org/1/files/public/docs2023/maint-rouyer-hy-0923-v00.pdf.
   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.

3. Maintenance TG project status. The acting Chair presented the "Maintenance TG Project Status" slide in "Maintenance Task Group Mixed Mode Meeting" https://www.ieee802.org/1/files/public/docs2023/maint-rouyer-hy-0923-v00.pdf.
   Disposition: For information.

4. SC6 status update. Karen Randall, 802.1 Liaison Secretary, presented "ISO/IEC JTC1 SC6 STATUS September 2023" slides in "Maintenance Task Group Mixed Mode Meeting" https://www.ieee802.org/1/files/public/docs2023/maint-rouyer-hy-0923-v00.pdf.
   Disposition: For information.

5. Vehicle status update. The acting Chair presented "Vehicle Status Update" in "Maintenance Task Group Mixed Mode Meeting" https://www.ieee802.org/1/files/public/docs2023/maint-rouyer-hy-0923-v00.pdf. The incorporation of older open items (among 77 open items) should be confirmed so they can be closed.
   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.

6. P802.1ACea PAR/CSD generation. The acting Chair presented the "P802.1ACea PAR/CSD generation" slide in "Maintenance Task Group Mixed Mode Meeting" https://www.ieee802.org/1/files/public/docs2023/maint-rouyer-hy-0923-v00.pdf and led the review of https://www.ieee802.org/1/files/public/docs2023/ea-rouyer-draft-PAR-0923-v00.pdf and https://www.ieee802.org/1/files/public/docs2023/ea-rouyer-draft-CSD-0923-v00.pdf.
   Disposition:
   - Updated PAR: https://www.ieee802.org/1/files/public/docs2023/ea-PAR-0923-v01.pdf, updated post-session (to add inadvertently-omitted "developers, bridge and network interface controller vendors, and users" to 5.6) for pre-circulation as https://www.ieee802.org/1/files/public/docs2023/ea-PAR-0923-v02.pdf.

- CSD for pre-circulation: https://www.ieee802.org/1/files/public/docs2023/ea-CSD-0923-v01.pdf.

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:

- 0242: IEEE Std 802.1Qcp-2018: Collected YANG issues – Johannes Specht
- 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" https://www.ieee802.org/1/files/public/docs2023/maint-rouyer-hy-0923-v01.pdf.
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 Recirculaton #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 https://www.ieee802.org/1/files/private/802-REVc-drafts/d1/P802-REVc-d1-1.pdf.
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 inter-session 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 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'.

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:
1. Meeting introduction. The IEEE SA slides on IEEE Patent Policy and IEEE SA Copyright and Participation Policies were provided beforehand as part of "MEETING INTRODUCTION" http://www.ieee802.org/1/files/public/templates/admin-TG-intro-0721-v01.pdf.
   The Chair showed this presentation advising that the following, provided beforehand, applies:
   - IEEE's Patent Policy is described in Clause 6 of the IEEE SA Standards Board Bylaws;
   - Early identification of patent claims which may be essential for the use of standards under development is strongly encouraged;
   - There may be Essential Patent Claims of which IEEE is not aware. Additionally, neither IEEE, the WG, nor the WG Chair can ensure the accuracy or completeness of any assurance or whether any such assurance is, in fact, of a Patent Claim that is essential for the use of the standard under development.

- IEEE SA's copyright policy is described in Clause 7 of the IEEE SA Standards Board Bylaws and Clause 6.1 of the IEEE SA Standards Board Operations Manual;
- Any material submitted during standards development, whether verbal, recorded, or in written form, is a Contribution and shall comply with the IEEE SA Copyright Policy.

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

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

2. Approval of agenda. The Chair presented the agenda in https://1.ieee802.org/2023-09-interim-tsn-agenda/.
   Disposition: The agenda was reviewed, and updated as recorded by these minutes.

3. Stephan Kehrer, P802.1Qdj editor, led the resolution of comments received on https://www.ieee802.org/1/files/private/dj-drafts/d1/802-1Qdj-d1-2.pdf.
   Disposition: Comments 1-15 resolved. Final disposition: https://www.ieee802.org/1/files/private/dj-drafts/d1/802-1Qdj-d1-2-dis-v01.pdf.

4. Norman Finn presented "UNI: An idea taken to far" https://www.ieee802.org/1/files/public/docs2023/dj-finn-kill-the-UNI-0822-v01.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.

6. Geoffrey Garner, P802.1ASdm editor, led the resolution of comments received on https://www.ieee802.org/1/files/private/asdm-drafts/d1/802-1ASdm-d1-2.pdf.
   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.

7. 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" for IEEE 802.1 TSN TG http://www.ieee802.org/1/files/public/templates/admin-TG-intro-0721-v01.pdf.
   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<s> 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-tsn-agenda/#TSN_8211_P8021DG.
   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" https://www.ieee802.org/1/files/public/docs2023/dg-turner-editorsreport-0923-v2.pdf and led the resolution of comments received on https://www.ieee802.org/1/files/private/dg-drafts/d2/802-1DG-d2-1.pdf.
   Disposition: Comments 2, 80, 106 resolved. Partial disposition: https://www.ieee802.org/1/files/private/dg-drafts/d2/802-1DG-d2-1-pdis-v2.pdf.

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/dg-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.
    Disposition: Presentation discussed. Final disposition: https://www.ieee802.org/1/files/private/dq-drafts/d0/802-1Qdq-d0-4-dis-v01.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.pdf.
    Disposition: Partial disposition: https://www.ieee802.org/1/files/private/dv-drafts/d0/802-1Qdv-d0-3-pdis-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.
14. Alexej Grigorjew presented "Some Necessary Managed Objects in 802.1Qdd" https://www.ieee802.org/1/files/public/docs2023/dd-grigorjew-managed-objects-0923-v01.pdf.
    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.

7. 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" for IEEE 802.1 TSN TG http://www.ieee802.org/1/files/public/templates/admin-TG-intro-0721-v01.pdf.
   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<s> 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-tsn-agenda/#TSN_8211_P8021DG-2.
   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" https://www.ieee802.org/1/files/public/docs2023/dg-turner-editorsreport-0923-v2.pdf and led the resolution of comments received on https://www.ieee802.org/1/files/private/dg-drafts/d2/802-1DG-d2-1.pdf.
Disposition: Comments 70, 9, 10, 97, 81 , 98, 11, 99, 3, 13, 14 resolved. Partial disposition: https://www.ieee802.org/1/files/private/dg-drafts/d2/802-1DG-d2-1-pdis-v3.pdf.

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" https://www.ieee802.org/1/files/public/docs2023/as-pannell-Supporting-Our-Customers-0923-v02.pdf.
Disposition: Presentation discussed. Further discussion needed.
17. Geoffrey Garner, P802.1ASdm editor, continued the resolution of comments received on https://www.ieee802.org/1/files/private/asdm-drafts/d1/802-1ASdm-d1-2.pdf.
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" https://www.ieee802.org/1/files/public/docs2023/df-wangtt-status-update-0914-v01.pdf.
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.
20. Steve Haddock presented PAR https://www.ieee802.org/1/files/public/docs2023/dz-haddock-draft-PAR-0923-v01.pdf and CSD https://www.ieee802.org/1/files/public/docs2023/dz-haddock-draft-CSD-0923-v01.pdf drafts for YANG for Link Aggregation, and led the development of PAR and CSD for YANG for Link Aggregation.
Disposition: Presentations discussed. Draft PAR and CSD:
   - https://www.ieee802.org/1/files/public/docs2023/dz-draft-PAR-0923-v01.pdf
   - https://www.ieee802.org/1/files/public/docs2023/dz-draft-CSD-0923-v01.pdf
21. Johannes Specht presented an overview on "P802.1DU/D0.1 (editor's second draft)" https://www.ieee802.org/1/files/private/du-drafts/d0/802-1-DU-d0-1.pdf.
Disposition: Presentation discussed. Further discussion needed.

22. Geoffrey Garner, P802.1ASdm editor, continued the resolution of comments received on https://www.ieee802.org/1/files/private/asdm-drafts/d1/802-1ASdm-d1-2.pdf.
    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.

24. Geoffrey Garner, P802.1ASdm editor, continued the resolution of comments received on https://www.ieee802.org/1/files/private/asdm-drafts/d1/802-1ASdm-d1-2.pdf.
    Disposition: Comments 1-2, 55-59, 90 resolved. Disposition per agenda item 25.

12:30 – 13:30 ET recess

25. Geoffrey Garner, P802.1ASdm editor, continued the resolution of comments received on https://www.ieee802.org/1/files/private/asdm-drafts/d1/802-1ASdm-d1-2.pdf.
    Disposition: Comments 6-12, 14, 15, 17-19, 22, 28, 30, 33, 37, 38, 40, 42-44, 91-94 resolved. Partial disposition: https://www.ieee802.org/1/files/private/asdm-drafts/d1/802-1ASdm-d1-2-pdis-v01.pdf.

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:

1. Meeting introduction. The IEEE SA slides on IEEE Patent Policy and IEEE SA Copyright and Participation Policies were provided beforehand as part of "MEETING INTRODUCTION" https://www.ieee802.org/1/files/public/templates/admin-TG-intro-0323-v01.pdf.
    The 60802 Chair announced that the meeting is subject to these Policies as read and displayed at the opening 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.

2. Approval of agenda. The 60802 Chair presented the agenda in https://1.ieee802.org/2023-09-interim-tsn-agenda/#TSN_8211_IECIEEE_60802.
    Disposition: The agenda was reviewed, discussed, and updated as recorded by these minutes.

3. Editor's report. Jordon Woods, IEC/IEEE 60802 Joint Project Editor (60802 Editor), presented "Editor's Report 60802 Draft 2.1" https://www.ieee802.org/1/files/public/docs2023/60802-woods-D2-0-update-0923-v01.pdf.
    Disposition: For information.

4. Further 60802 time series simulation results based on RR and NRR drift compensation algorithms. Geoff Garner presented "New 60802 Time Domain Simulation Results for Cases with Drift Tracking Algorithms and PLL Noise Generation" https://www.ieee802.org/1/files/public/docs2023/60802-garner-new-time-domain-simul-results-with-drift-tracking-algorithms-and-PLL-noise-generation.pdf.
    Disposition: Presentation discussed.

5. 60802 Time Sync – Monte Carlo Simulations to Match Recent Time Series Simulations. David McCall presented "60802 Time Sync - Monte Carlo Simulations to Match Recent Time Series Simulations" https://www.ieee802.org/1/files/public/docs2023/60802-McCall-Monte-Carlo-Simulations-Match-Time-Series-0923-v01.pdf.
    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.

7. Time Sync Informative Annex. David McCall presented "IEC/IEEE 60802 Contribution – Time Sync Informative Annex" https://www.ieee802.org/1/files/public/docs2023/60802-McCall-Time-Sync-Informative-Annex-0923-v05.pdf.
   Disposition: Presentation discussed and updated as https://www.ieee802.org/1/files/public/docs2023/60802-McCall-Time-Sync-Informative-Annex-0923-v06.pdf based on discussion. More discussion is needed.

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.
9. Time Sync Informative Annex. David McCall presented "IEC/IEEE 60802 Contribution – Time Sync Informative Annex" https://www.ieee802.org/1/files/public/docs2023/60802-McCall-Time-Sync-Informative-Annex-0923-v06.pdf.
   Disposition: Presentation discussed and updated as https://www.ieee802.org/1/files/public/docs2023/60802-McCall-Time-Sync-Informative-Annex-0923-v07.pdf based on discussion. More discussion is needed.
10. Should 60802 Apply Correction So TSGE Averages to Zero? David McCall presented "60802 Time Sync - Should 60802 Apply Correction So TSGE Averages to Zero?" https://www.ieee802.org/1/files/public/docs2023/60802-McCall-TSGE-Average-Zero-0823-v02.pdf.
    Disposition: Presentation discussed. Consensus was that the simulations show positive results.
11. D2.1 review / contributions – Annex A PCS proforma. Jordon Woods and Mark Hantel started presenting "Annex A (normative) PCS proforma – Time-sensitive networking profile for industrial automation" of https://www.ieee802.org/1/files/private/60802-drafts/d2/60802-d2-dot-02.pdf.
    Disposition: More discussion is needed.

12:30 – 13:30 ET recess

12. 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 https://www.ieee802.org/1/files/private/60802-drafts/d2/60802-d2-dot-02.pdf.
    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"
    https://www.ieee802.org/1/files/private/60802-drafts/d2/60802-Mittelberger-YANG-model-update-0923-v01.pdf.
    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
    https://www.ieee802.org/1/files/private/60802-drafts/d2/60802-d2-dot-02.pdf.
    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.

16. Time Sync Informative Annex. David McCall presented "IEC/IEEE 60802 Contribution – Time Sync Informative Annex" https://www.ieee802.org/1/files/public/docs2023/60802-McCall-Time-Sync-Informative-Annex-0923-v07.pdf.
    Disposition: Presentation discussed and updated as
    https://www.ieee802.org/1/files/public/docs2023/60802-McCall-Time-Sync-Informative-Annex-0923-v08.pdf based on discussion. Changes to the informative Annex are to be reflected based on session discussion in the next draft 2.1 of IEC/IEEE 60802.

17. 60802 Time Sync - Normative Requirements for d2.1. David McCall started presenting "60802 Time Sync Normative Requirements for d2.1"
    https://www.ieee802.org/1/files/public/docs2023/60802-McCall-Time-Sync-Normative-Requirements-d2dot1-0923-v01.pdf.
    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"
    https://www.ieee802.org/1/files/public/docs2023/60802-McCall-Time-Sync-Normative-Requirements-d2dot1-0923-v01.pdf.
    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" https://www.ieee802.org/1/files/public/docs2023/60802-McCall-Time-Sync-Normative-Requirements-d2dot1-0923-v01.pdf.
    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.

21. Future meetings. The 60802 Chair proposed canceling the IEC/IEEE 60802 Joint Project electronic meetings initially scheduled on Sep 18 and 25, 2023, and the IEC/IEEE 60802 Joint Project Time Sync ad hoc meetings on Sep 22 and 29, 2023.
    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:

1. Meeting introduction. The IEEE SA slides on IEEE Patent Policy and IEEE SA Copyright and Participation Policies were provided beforehand as part of "MEETING INTRODUCTION" http://www.ieee802.org/1/files/public/templates/admin-TG-intro-0721-v01.pdf.
   János Farkas, IEEE P802.1DP/SAE AS6675 co-Chair, announced that the meeting is subject to these Policies as read and displayed at the opening plenary meeting.
   János Farkas, IEEE P802.1DP/SAE AS6675 co-Chair, asked participants to record their attendance in IMAT and, if they are unable to do so, to promptly provide their affiliation to the minute taker.
   János Farkas, IEEE P802.1DP/SAE AS6675 co-Chair, explained that the IEEE P802.1DP/SAE AS6675 Joint Project also follows the usual SAE IP and copyright https://www.sae.org/about/legal-policies/intellectual-property policies.

2. Approval of agenda. János Farkas, IEEE P802.1DP/SAE AS6675 co-Chair, presented the agenda in https://1.ieee802.org/2023-09-interim-tsn-agenda/#TSN_8211_P8021DPAS6675.
   Disposition: The agenda was reviewed, discussed and updated as recorded by these minutes.

3. Abdul Jabbar, IEEE P802.1DP/SAE AS6675 editor, presented "TSN Profile for Aerospace - Status Update" https://www.ieee802.org/1/files/public/docs2023/dp-jabbar-status-update-0923-v01.pdf.
   Disposition: Presentation was discussed. More discussion is needed.
4. Prabhulla Chandran presented "TSN End Station Redundancy with Daisy Chain link without Software involvement" https://www.ieee802.org/1/files/public/docs2023/dp-Chandran-ADA-Usecase-0923-v01.pdf.
   Disposition: Presentation was discussed. More discussion is needed.
5. Brendan Hall presented "Default Algorithm(s) for the Fault Tolerant Module" https://www.ieee802.org/1/files/public/docs2023/dp-hall-tse-ftm-default-algorithm-0923-v01.pdf.
   Disposition: Presentation was discussed. More discussion is needed.

10:06 - 10:34 ET recess

6. Abdul Jabbar, IEEE P802.1DP/SAE AS6675 editor, presented "IEEE P802.1DP/ SAE AS6675 Editor's Report" https://www.ieee802.org/1/files/public/docs2023/dp-jabbar-d1-0-tg-ballot-editors-report-0923-v01.pdf and led the resolution of comments received on https://www.ieee802.org/1/files/private/dp-drafts/d1/802-1DP-d1-0.pdf.
   - 12:35 - 13:33 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 disposition: https://www.ieee802.org/1/files/private/dp-drafts/d1/802-1DP-d1-0-pdis-v02.pdf.

15:28 - 16:01 ET recess

7. Brendan Hall continued leading the discussion on "Default Algorithm(s) for the Fault Tolerant Module" https://www.ieee802.org/1/files/public/docs2023/dp-hall-tse-ftm-default-algorithm-0923-v01.pdf.
   Disposition: Presentation was discussed. More discussion is needed.
8. Don Pannell presented "Proposed Solutions for P802.1ASds" https://www.ieee802.org/1/files/public/docs2023/ds-pannell-proposed-solutions-for-ASds-0923-v02.pdf.
   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;d066afb5.23

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;d066afb5.23.
   Disposition: 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.
5. Nendica organization. The Chair led the discussion of "IEEE 802 "Network Enhancements for the Next Decade" Industry Connections Activity (Nendica): 2023 ICAID Renewal Summary" https://mentor.ieee.org/802.1/dcn/23/1-23-0023-00-ICne-2023-icaid-renewal-summary.pdf.
   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.
8. Vetting and New Topics. No discussion.
9. Future Meetings. The biweekly Nendica electronic meetings resume on Sep 21, 2023.
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=

- Minutes of the YANGsters meeting held 2023-08-29 10:02 –10:32 ET
  https://listserv.ieee.org/cgi-bin/wa?A2=STDS-802-1-MINUTES;c9d750c7.23&S=
- Minutes of the YANGsters meeting held 2023-09-08 10:00 –10:45 ET
  https://listserv.ieee.org/cgi-bin/wa?A2=STDS-802-1-MINUTES;5c7cc4af.23&S=

See section 1 for attendance and affiliation information.

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:
1. Meeting introduction. The IEEE SA slides on IEEE Patent Policy and IEEE SA Copyright and Participation Policies were provided beforehand as part of "MEETING INTRODUCTION" https://www.ieee802.org/1/files/private/templates/admin-prePAR-intro-0323-v01.pptx.
   The YANGsters 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/, and
   - https://1.ieee802.org/yangsters/yangsters-guidelines/yangsters-faq/.
   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 802.1AEdk 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.
   - It needs to be ensured that https://standards.ieee.org/wp-content/uploads/import/documents/tutorials/ieeeurn.pdf is updated appropriately.

   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.

9. Open Discussion.
   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.
      - ○ 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.
      - ○ The suggested way forward is to create in YANGsters 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.