IEEE 802.1

Opening Plenary
July 2023

Glenn Parsons – IEEE 802.1 WG Chair

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802.1 plenary agenda

Monday, July 10ᵗʰ opening

- Copyright Policy
- Call for Patents
- Participant behavior
- Administrative
- Membership status
- Future Sessions
- 802 EC report
- Incoming Liaisons
- Promotion
- Sanity check – current projects
- TG agendas
- Any other business

Thursday, July 13ᵗʰ closing

- Copyright Policy
- Call for Patents
- Participant behavior
- Membership status
- Future Sessions
- Sanity check – current projects
- TG reports
- Outgoing Liaisons
- Motions for EC
- Motions for 802.1
- Any other business

REGISTRATION FEE

Access to this session* requires a registration fee.

Please check the session announcement for details before attending.

* IEEE 802.1 holds 3 plenary sessions and 3 interim sessions a year.
No registration fee is required for IEEE 802.1 electronic meetings held between these sessions.

IEEE SA STANDARDS ASSOCIATION

◆IEEE

JULY 2023 MIXED MODE SESSION

Meeting is to be run as an in-person meeting.

- Local time zone schedule for meetings
- Local participants attend as an in-person meeting
- Remote access is provided to remote participants to view/present/interact similarly to on-line meetings (best effort)

Please wear your badge when in the meeting areas of the hotel

- This will help the staff to improve the general security of the meeting rooms
- PCs HAVE BEEN STOLEN at previous meetings – DO NOT assume that meeting areas are secure

MIXED MODE GUIDELINES

All meetings are supported by an in-person mixed mode facilitator

- Project in the meeting room

- Appear in WebEx as "Meeting Room"

- Broadcast meeting room audio

- Mute or remove noisy lines

- Monitor the WebEx queue

**The chair runs the meeting**

- Responsible for recognizing people in two queues
  - In person at the mic
  - On WebEx (assisted by facilitator)

- May not follow the WebEx chat

All presenters present via WebEx
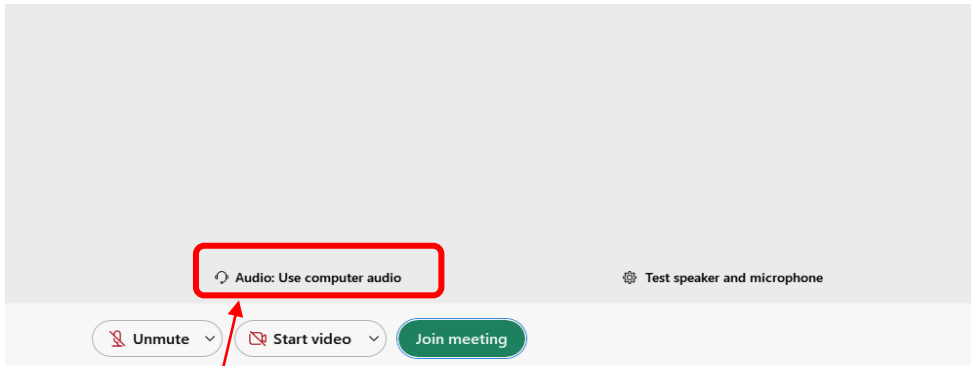
If you are in-person, you may join WebEx to

- Present

- See the screen

- Chat (***not*** *part of the meeting*)

If you are in-person and join WebEx
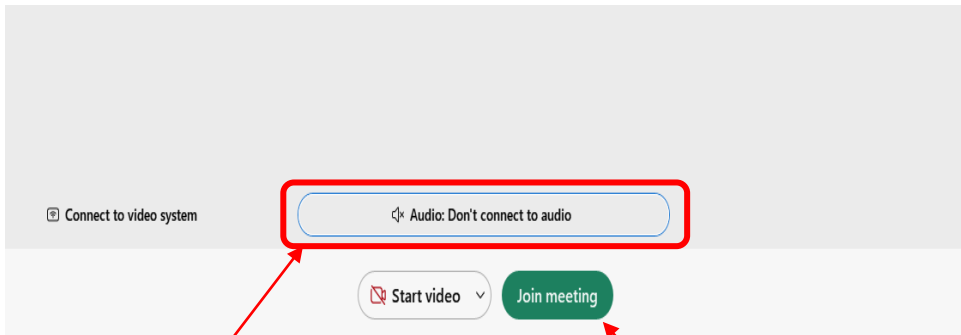
- **DO NOT connect to the audio**

- After you **accept** the IEEE SA terms

- Before you **click join meeting**

- Change your audio:

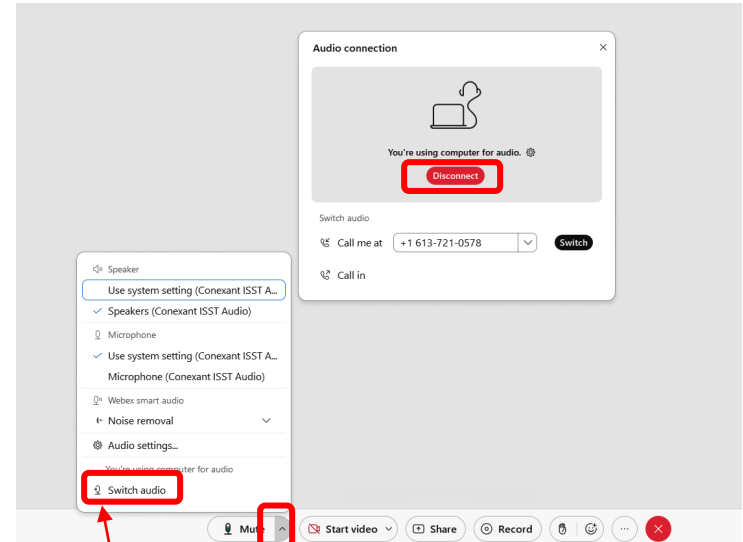◁× Audio: Don't connect to audio

YET TO JOIN

ALREADY JOINED

Select: "**Audio Use Computer Audio**"

From the selection choose:
"**Don't Connect to Audio**"

Once completed:
join meeting

Click on: ^
Select: "**Switch audio**"
Select "**Disconnect**"

ELECTRONIC MEETING GUIDELINES

Please mute yourself when you are not speaking

Please put yourself into the queue "at the mic" via the Chat, e.g.: "+q" / "-q"

Please provide your information

- First and last names
- Affiliation, after your last name, e.g., in square brackets
- (may provide them in the Chat window)

Changing your data in Webex

Step 1

- Go to the "Display hidden icons" arrow in the Windows task bar
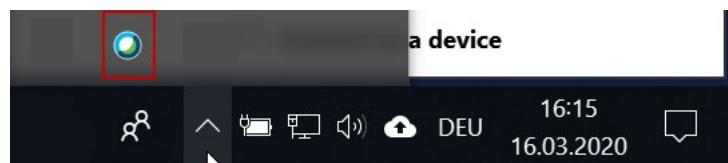
- Right-click on the Webex icon and select "Open Cisco Webex Meetings"

Step 2

- In the Webex Windows that opens, Click on the pencil icon* next to your display information

(*) May need to Exit Webex via the cog wheel and restart the desktop Webex app to see the pencil icon. May also need to log in as guest.
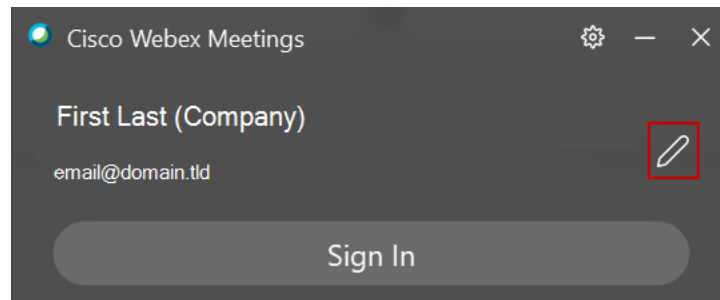
DECORUM
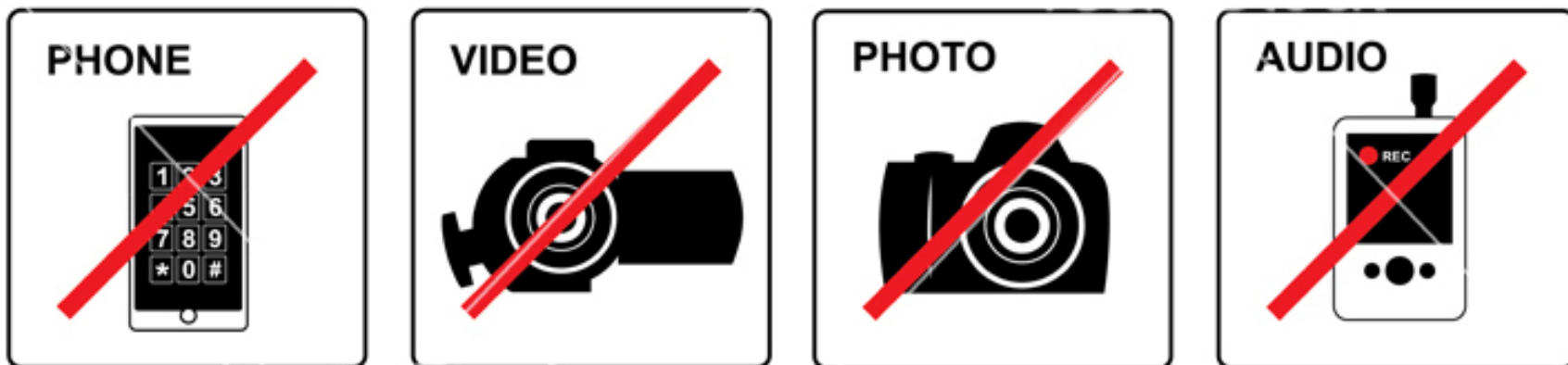
- **Press (i.e., anyone reporting publicly on this meeting) are to announce their presence** *(5.3.3.3 of SASB Operations Manual)*

- **Video/Audio recording by participants is prohibited** *(5.3.3.2 of SASB Operations Manual)*

- **Photography by permission only** *(5.3.3.2 of SASB Ops Manual)*

- **Cell phone ringers off please**

ATTENDANCE

Please record your attendance in IMAT at https://imat.ieee.org

- **This requires a free IEEE Account.**

- **Please create one only if you do not yet have an IEEE Account.**

Schedule	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00
TSN TG																	

Please record your attendance for an active meeting (denoted by a yellow bar) by clicking on the yellow bar. Once your attendance has been recorded, the yellow bar changes to a green bar.

The data from IMAT is used as the meeting participant list.

- **Please promptly provide your affiliation to the minute taker if you are unable to record your attendance in IMAT.**

INSTRUCTIONS FOR CHAIRS OF STANDARDS DEVELOPMENT ACTIVITIES

At the beginning of each standards development meeting the chair or a designee is to:

- Show the following slides (or provide them beforehand)
- Advise the standards development group participants that:
- 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;
- Instruct the Secretary to record in the minutes of the relevant meeting:
- That the foregoing information was provided and that the copyright slides were shown (or provided beforehand).
- Ask participants to register attendance in IMAT: https://imat.ieee.org

IEEE SA COPYRIGHT POLICY

By participating in this activity, you agree to comply with the IEEE Code of Ethics, all applicable laws, and all IEEE policies and procedures including, but not limited to, the IEEE SA Copyright Policy.

- Previously Published material (copyright assertion indicated) shall not be presented/submitted to the Working Group nor incorporated into a Working Group draft unless permission is granted.

- Prior to presentation or submission, you shall notify the Working Group Chair of previously Published material and should assist the Chair in obtaining copyright permission acceptable to IEEE SA.

- For material that is not previously Published, IEEE is automatically granted a license to use any material that is presented or submitted.

IEEE SA COPYRIGHT POLICY

- The IEEE SA Copyright Policy is described in the IEEE SA Standards Board Bylaws and IEEE SA Standards Board Operations Manual

    - IEEE SA Copyright Policy, see
        Clause 7 of the IEEE SA Standards Board Bylaws
        https://standards.ieee.org/about/policies/bylaws/sect6-7.html#7
        Clause 6.1 of the IEEE SA Standards Board Operations Manual
        https://standards.ieee.org/about/policies/opman/sect6.html

- IEEE SA Copyright Permission
    - https://standards.ieee.org/content/dam/ieee-standards/standards/web/documents/other/permissionltrs.zip

- IEEE SA Copyright FAQs
    - http://standards.ieee.org/faqs/copyrights.html/
- IEEE SA Best Practices for IEEE Standards Development
    - http://standards.ieee.org/develop/policies/best_practices_for_ieee_standards_development_051215.pdf

- Distribution of Draft Standards (see 6.1.3 of the SASB Operations Manual)
    - https://standards.ieee.org/about/policies/opman/sect6.html

INSTRUCTIONS FOR THE WG CHAIR

The IEEE SA strongly recommends that at each WG meeting the chair or a designee:

- **Show slides 1 through 4 of this presentation**
- **Advise the WG attendees that:**
  - IEEE's patent policy is described in Clause 6 of the *IEEE SA Standards Board Bylaws*;
  - Early identification of patent claims which may be essential for the use of standards under development is strongly encouraged;
  - There may be Essential Patent Claims of which IEEE is not aware. Additionally, neither IEEE, the WG, nor the WG Chair can ensure the accuracy or completeness of any assurance or whether any such assurance is, in fact, of a Patent Claim that is essential for the use of the standard under development.
- **Instruct the WG Secretary to record in the minutes of the relevant WG meeting:**
  - That the foregoing information was provided and that slides 1 through 4 (and this slide 0, if applicable) were shown;
  - That the chair or designee provided an opportunity for participants to identify patent claim(s)/patent application claim(s) and/or the holder of patent claim(s)/patent application claim(s) of which the participant is personally aware and that may be essential for the use of that standard
  - Any responses that were given, specifically the patent claim(s)/patent application claim(s) and/or the holder of the patent claim(s)/patent application claim(s) that were identified (if any) and by whom.
- The WG Chair shall ensure that a request is made to any identified holders of potential essential patent claim(s) to complete and submit a Letter of Assurance.
- It is recommended that the WG Chair review the guidance in *IEEE SA Standards Board Operations Manual* 6.3.5 and in FAQs 14 and 15 on inclusion of potential Essential Patent Claims by incorporation or by reference.

Note: **WG** includes Working Groups, Task Groups, and other standards-developing committees with a PAR approved by the IEEE SA Standards Board.

PARTICIPANTS HAVE A DUTY TO INFORM THE IEEE

- Participants <u>shall</u> inform the IEEE (or cause the IEEE to be informed) of the identity of each holder of any potential Essential Patent Claims of which they are personally aware if the claims are owned or controlled by the participant or the entity the participant is from, employed by, or otherwise represents

- Participants <u>should</u> inform the IEEE (or cause the IEEE to be informed) of the identity of any other holders of potential Essential Patent Claims

Early identification of holders of potential Essential Patent Claims is encouraged

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WAYS TO INFORM IEEE

- **Cause an LOA to be submitted to the IEEE SA (patcom@ieee.org); or**

- **Provide the chair of this group with the identity of the holder(s) of any and all such claims as soon as possible; or**

- **Speak up now and respond to this Call for Potentially Essential Patents**

If anyone in this meeting is personally aware of the holder of any patent claims that are potentially essential to implementation of the proposed standard(s) under consideration by this group and that are not already the subject of an Accepted Letter of Assurance, please respond at this time by providing relevant information to the WG Chair

OTHER GUIDELINES FOR IEEE WORKING GROUP MEETINGS

- **All IEEE SA standards meetings shall be conducted in compliance with all applicable laws, including antitrust and competition laws.**
  - **Don't discuss the interpretation, validity, or essentiality of patents/patent claims.**
  - **Don't discuss specific license rates, terms, or conditions.**
    - Relative costs of different technical approaches that include relative costs of patent licensing terms may be discussed in standards development meetings.
      - **Technical considerations remain the primary focus.**
  - **Don't discuss or engage in the fixing of product prices, allocation of customers, or division of sales markets.**
  - **Don't discuss the status or substance of ongoing or threatened litigation.**
  - **Don't be silent if inappropriate topics are discussed. Formally object to the discussion immediately.**

For more details, see *IEEE SA Standards Board Operations Manual*, clause 5.3.10 and *Antitrust and Competition Policy: What You Need to Know* at http://standards.ieee.org/develop/policies/antitrust.pdf

PATENT-RELATED INFORMATION

The patent policy and the procedures used to execute that policy are documented in the:

- *IEEE SA Standards Board Bylaws*
  (http://standards.ieee.org/develop/policies/bylaws/sect6-7.html#6)

- *IEEE SA Standards Board Operations Manual*
  (http://standards.ieee.org/develop/policies/opman/sect6.html#6.3)

Material about the patent policy is available at
http://standards.ieee.org/about/sasb/patcom/materials.html

If you have questions, contact the IEEE SA Standards Board Patent Committee Administrator at patcom@ieee.org

Participant behavior in IEEE-SA activities is guided by the IEEE Codes of Ethics & Conduct

- All participants in IEEE-SA activities are expected to adhere to the core principles underlying the:
  - IEEE Code of Ethics
  - IEEE Code of Conduct

- The core principles of the IEEE Codes of Ethics & Conduct are to:
  - *Uphold the highest standards of integrity, responsible behavior, and ethical and professional conduct*
  - *Treat people fairly and with respect, to not engage in harassment, discrimination, or retaliation, and to protect people's privacy.*
  - *Avoid injuring others, their property, reputation, or employment by false or malicious action*

- The most recent versions of these Codes are available at http://www.ieee.org/about/corporate/governance

Participants in the IEEE-SA "*individual process*" shall act independently of others, including employers

- The IEEE-SA Standards Board Bylaws require that "*participants in the IEEE standards development individual process shall act based on their qualifications and experience*"

- This means participants:
  - **Shall act & vote** based on their personal & independent opinions derived from their expertise, knowledge, and qualifications
  - **Shall not act or vote** based on any obligation to or any direction from any other person or organization, including an employer or client, regardless of any external commitments, agreements, contracts, or orders
  - **Shall not direct** the actions or votes of other participants or retaliate against other participants for fulfilling their responsibility to act & vote based on their personal & independently developed opinions

- By participating in standards activities using the "*individual process*", you are deemed to accept these requirements; if you are unable to satisfy these requirements then you shall immediately cease any participation

Approved by SASB in June 2019

IEEE-SA standards activities shall allow the fair & equitable consideration of all viewpoints

- The [IEEE-SA Standards Board Bylaws](#) (clause 5.2.1.3) specifies that "*the standards development process shall not be dominated by any single interest category, individual, or organization*"
    - This means no participant may exercise "*authority, leadership, or influence by reason of superior leverage, strength, or representation to the exclusion of fair and equitable consideration of other viewpoints*" or "*to hinder the progress of the standards development activity*"

- This rule applies equally to those participating in a standards development project and to that project's leadership group

- Any person who reasonably suspects that dominance is occurring in a standards development project is encouraged to bring the issue to the attention of the Standards Committee or the project's IEEE-SA Program Manager

Subgroup announcements

- Subgroup Chairs (or designees) please note during this plenary session:
  - At the start of the first TG meeting, announce that the meeting is subject to the policies in "MEETING INTRODUCTION" http://www.ieee802.org/1/files/public/templates/admin-TG-intro-0721-v01.pdf made available beforehand (as announced in the opening plenary meeting); and
    - Make the Call for Potentially Essential Patents and minute any responses to it.
  - At the start of the first pre-PAR subgroup meeting, announce that the meeting is subject to the policies in "MEETING INTRODUCTION" http://www.ieee802.org/1/files/public/templates/admin-prePAR-intro-0721-v01.pdf made available beforehand (as announced in the opening plenary meeting).
  - After any recess, announce that the meeting remains subject to the policies as read and displayed in the opening plenary meeting.
  - At meeting start & after any recess, ask participants to record attendance in IMAT and, if unable to do so, to promptly provide their affiliation to the minute taker.
  - Direct participants to the IEEE SA website for additional details on the
    - IEEE Patent Policy (https://standards.ieee.org/content/ieee-standards/en/about/sasb/patcom/index.html); and
    - IEEE SA Copyright Policy (https://standards.ieee.org/ipr/index.html)

Plenary Registration Fee

- Attendance at any meeting held during or as part of the July 2023 Plenary Session requires registering and paying the appropriate fee
  - Early $US 700.00 until May 26, 2023
  - Standard $US 1000.00 After May 26, 2023 until June 30, 2023
  - Late/Onsite $US 1300.00 after June 30, 2023

- Registration details http://802world.org/plenary/

- Fee waivers may be granted in advance, exceptionally
  - By WG chair for remote participation
  - By EC for in-person participation

- WiFi: SSID – IEEE802 Password - ieeeieee

Food Logistics

- Daily breaks available in the Auditorium level 1 & 2 foyers.
  - AM 9:50 AM - 10:35 AM
  - PM 3:15 PM - 4:00 PM
- Lunch is included
  - show name badge at Convention Hall 2
  - 12:00 PM - 1:30 PM

- Summer Social
  - Registration fee required
    - Guests badges available
  - Oktoberfest on the Waterfront
  - Wednesday
    July 12th
    6:30 PM - 8:30 PM
    - Estrel Summer Garden (across the street from the hotel)
    - Food, drinks & games

General Information

- Meeting contributions
  - http://ieee802.org/1/filenaming.html
  - Please upload 24 hours BEFORE presentation
- Minutes
  - https://1.ieee802.org/category/wg-minutes/
  - https://listserv.ieee.org/cgi-bin/wa?A1=ind21&L=STDS-802-1-MINUTES&O=A&H=0&D=0&T=1 (sorted by chair/secretary)
- Schedule for all WGs
  - All 802.1 - https://1.ieee802.org/wg-calendar/
  - All 802 - http://www.ieee802.org/802tele_calendar.html

- Website
  - http://ieee802.org/1/

Officers and Leadership

- Chair: Glenn Parsons
- Vice-Chair & Recording Secretary: Jessy Rouyer
  - Executive Secretary: Stephan Kehrer
  - Liaison Secretary: Karen Randall
- Maintenance TG Chair: <mark>vacant</mark>
- 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

802.1 WG Process

- [IEEE 802 Working Group Policies and Procedures](#)

- [Guidelines](#) available on
  - WG voting membership
  - WG ballots

- "New work" process
  - Previously scheduled in TGs towards the end of session
    - There is limited time for such proposals
    - Does not allow for consensus building
  - Migration towards vetting all new work in Nendica
    - Strong proposals can be directed to the TG/WG to initiate a PAR
    - Proposals needing more consensus can be further developed

Joint Development Procedures

- IEEE/IEC 60802 joint project
  - [Guide to IEC/IEEE cooperation](#)
  - [IEC/IEEE cooperation on TSN – rev 10](#)

- IEEE P802.1DP/SAE AS6675 joint project
  - [IEEE/SAE joint development agreement](#)
  - [IEEE/SAE cooperation on TSN – rev 3](#)

Affiliation

- You must declare your affiliation(s) which includes employer(s)
  - Per SASB Bylaws 5.2.1.5 & SASB OpsMan 5.1.2.3
    - Also see https://standards.ieee.org/faqs/affiliation.html
  - In meetings
    - In-person (and current plenary session) meeting registration system
    - myProject system for IMAT attendance, ePoll & myBallot
    - Electronic meeting participant list
    - First time you speak in a session
  - When balloting
    - 802.1 ballot email responses for TG & WG ballots
    - myProject system for SA ballot

- Please keep your affiliation* and employer** information up-to-date

(*) After signing in in myProject > Manage Profile & Interests > Personal & Professional Info > Employer field
(**) After signing in at https://ieee.org > Your Name > Professional and Education Information > "Your employment information" Edit > Employer

Electronic ballots (ePolls)

- **May ePoll**
  - ePoll 73

- To progress work items outside an 802.1 plenary session, a series of 10-day electronic ballots using ePoll were conducted
  - https://mentor.ieee.org/802.1/polls

Voting Membership

- Voting membership in 802.1 is a privilege that holds a responsibility to review drafts and vote on WG ballots (including ePolls)

- You must actively request to become a voting member and take on this responsibility
  - Email WG Chair and Recording Secretary

- Ongoing retention of 802.1 voting rights is predicated on active participation

  - Attendance and Working Group ballots (including ePolls)

Responding to WG ballots

- To retain your voting membership, you must return 2 out of the last 3 <u>WG ballot series</u> (including ePolls).

- When you return your vote on a TG/WG ballot:
  - Do use the correct email list (STDS-802-1-ballot@listserv.ieee.org) and subject line, as specified in the email instructions (viewable on the [main 802.1 Email archive](#)).
    - If you do not, the automatic tools will not count your vote.
  - Do not simply "Reply" to the ballot announcement.

- When you lose your voting membership this way, you lose <u>all</u> your qualifying attendance credit.
  - If you want to become a voting member again, you have to notify the WG Chair and Recording Secretary that you wish to become a voting member again.

The following are 802.1 voting members (73):

Akizuki, Katsuyuki
Alexandris, Konstantinos
Arunarthi, Venkat
Assmann, Ralf
Bao, Huajie
Belliardi, Rudy
Blendin, Jeremias
Boiger, Christian
Bottorff, Paul
Canchi, Radhakrishna
Chen, Feng
Choudhury, Abhijit
Congdon, Paul
Cummings, Rodney
Dorr, Josef
Elbakoury, Hesham
Engelmann, Anna
Enzinger, Thomas

Farkas, Janos
Fedyk, Donald
Finn, Norman
Garner, Geoffrey
Gunther, Craig
Gutierrez, Marina
Haddock, Stephen
Hantel, Mark
Holness, Marc
Hopf, Daniel
Huh, Woojung
Itaya, Satoko
Ito, Yoshihiro
Karl, Michael
Kehrer, Stephan
Kiessling, Marcel
Lai, Gavin
Li, Yizhou
Lopes, Joao

Lv, Lily
Mangin, Christophe
Mansfield, Scott
Mater, Olaf
McCall, David
McMillan, Larry
Mittelberger, Martin
Nakano, Hiroki
Nomura, Takumi
Pannell, Donald R
Parsons, Glenn
Proell, Dieter
Randall, Karen
Riegel, Maximilian
Rodrigues, Silvana
Rouyer, Jessy V
Sato, Atsushi
Schewe, Frank
Seaman, Michael

Seewald, Maik
Sivakolundu, Ramesh
Specht, Johannes
Stamenic, Nemanja
Stanica, Marius
Steindl, Guenter
Traore, Karim
Turner, Max
Varga, Balazs
Venkatesan, Ganesh
Wang, Tongtong
Weber, Karl
Wessels, Leon
Winkel, Ludwig
Woods, Jordon
Yamaura, Takahiro
Zein, Nader

The following will <u>become</u> voting members when/if they attend this session:

None

The following could <u>become</u> voting members if they email me and the Recording Secretary indicating their intention to do so and if they attend this session:

Bierschenk, Jens
Coelho, Rodrigo
Gelish, Joseph
Gravel, Mark
Han, Ruibo
Jenkins, Michael
Klamser, Oliver

McIntosh, James
Obradovic, Dragan
Rodine, Craig
Wang, Jing

The following will <u>lose</u> voting member status for lack of qualifying attendance, unless they attend this session:

The following could <u>lose</u> their voting membership at the end of this plenary session through lack of qualifying WG letter ballot voting :

Akizuki, Katsuyuki

Bao, Huajie
Blendin, Jeremias

Enzinger, Thomas
Li, Yizhou
McMillan, Larry

Nomura, Takumi
Wang, Tongtong

802.11 Reciprocal credit

- 802.1 voting members may get credit for attending any 802.11

- 802.1 voting members who are also 802.11 voting members may get a popup in IMAT each time they register attendance to ask which group they are accumulating credit for this plenary session.

- 802.1 attendance credit will not be granted for a voting member who attended only 802.11 meetings.

September 2023 interim

- General Electric (GE) is the host
  - Approved by the WG in March 2023
- [Registration](#) is open
- Registration fee
  - $250 USD for all attendees (in-person and remote)
- In-Person with provisions to support mixed mode
  - GE Research center, Albany, NY, USA
- Date
  - Sep 11-15, 2023

January 2024 interim

- NEC Laboratories Europe offer to host ([proposal](#))
- Registration fee
  - Estimated to be for all attendees
    - 700 EUR (early rate)
    - 900 EUR (normal rate)
    - 1100 EUR (late/on site rate)
- In-Person with provisions to support mixed mode
  - Marriott Heidelberg, Heidelberg, Germany
- Date
  - January 22-26, 2024

May 2024 interim

- Offer to co-locate with the 802 wireless group
  - Approved by the WG in March 2023
  - Waiting on final confirmation by 802 wireless group
- Registration fee
  - Estimated to be in the usual range
- In-Person with provisions to support mixed mode (tbc)
  - Warsaw Marriott Hotel, Warsaw, Poland
- Date
  - May 12-17, 2024

Interim sessions

- September 11-15, 2023
  - Hosted by GE in Niskayuna, NY, USA as in-person session with provisions to support mixed mode

- January 22-26, 2024
  - Offer from NEC Laboratories Europe in Heidelberg, Germany as in-person session with provisions to support mixed mode

- May 12-17, 2024
  - Hosted by 802 wireless group as in-person session with provisions to support mixed mode (tbc)
    - Location: Warsaw, Poland

- September 2024
  - Possible option to co-locate with the 802 wireless group is currently being discussed
    - Date: September 8-13, 2024
    - Waikoloa, HI, USA

Plenary sessions

- July 9-14, 2023 – Berlin, Germany
  - Estrel Berlin
- November 12-17, 2023 – Honolulu, HI, USA
  - Hawaiian Village
- March 10-15, 2024 – Denver, CO, USA
  - Hyatt Regency Denver at Colorado Convention Center
- July 14-19, 2024 – Montreal, QC, Canada
  - Sheraton Le Centre Montreal
- November 10-15, 2024 – Vancouver, BC, Canada
  - Hyatt Regency
- March 9-14, 2025 – Atlanta, GA, USA
  - Hilton Atlanta

Straw polls - plenary

1. If you will attend one of the three meetings on Friday, July 14 2023 (802 EC Closing Plenary, the 802.11 Closing Plenary or the 802.1 " IEC/IEEE 60802" meeting) will you participate (eat/drink) :

- With breakfast?   -   50
- with the AM Break?   -   44
- With lunch?   -   43
- with the PM Break?   -   34

2. If the 2023 November 802 Plenary Session were held at the Hilton Hawaiian Hotel in Honolulu, HI, USA as an in-person only session, would you attend?

- Yes –   30   No - 26 Abstain - 8   Did not respond - 11

3. If the 2023 November 802 Plenary Session were held at the Hilton Hawaiian Hotel in Honolulu, HI, USA as mixed-mode session, will you attend:

- Attend In-person   - 28
- Attend Virtually (remotely)- 27
- Will not attend plenary   - 6
- Did not respond   - 15

Straw poll for closing

1. Would you like to come back to this venue?

- Yes –   No -   Did not respond -

2. Did you go to the social?

- Yes –   No -   Did not respond -

3. Did you like the social?

- Yes –   No -   Did not respond -

LMSC schedule
EC/WG/TAG meetings for the plenary

http://schedule.802world.com/

IEEE 802 Plenary Session, Berlin Germany
July 9-15, 2023

IEEE 802.1 Working Group ▼

Sunday 2023-07-09

Monday 2023-07-10

08:00-10:00	1 - Trk 1: TSN Paris
10:30-12:30	1 - Opening Plenary Paris
13:30-15:30	1 - Trk 1: TSN Paris
16:00-18:00	1 - Trk 1: TSN Paris

Meeting logistics available on 802 calendar
https://www.ieee802.org/802tele_calendar.html

802 EC report – Plenary Session #133

- IEEE 802 chair election - March 2024
  - Paul Nikolich will not run for IEEE 802 chair, James Gilb has declared his candidacy
  - The 802 chair also appoints several EC positions.   Anyone can be nominated.

- IEEE SA 25th Anniversary
  - Celebration event Nov 6-8, Shenzhen, China

- IEEE 802 Milestone (EC-23-129)
  - Silicon Valley at Computer History Museum – current process delay
  - Nearly 30,000 pages in IEEE 802 standards

- 802 rules update (EC-23-123)
  - FrameMaker license distribution policy

- Venues (EC-23-130)
  - July 2023 – 544 in-person, 384 remote attendees – including ~30 students
  - Future in person venues contracted into 2027, RFP will be sent out shortly for remaining slots
  - Proposal to reinstate extra fee for not staying at meeting hotel

- Treasurer (EC-23-119)
  - Current cash balance over $1.8M due to increase in attendance, reserve target $1.5M on track
  - 2023 budget is for break even and is on track – July may be a surplus

IEEE SA Staff supporting IEEE 802

- Jodi Haasz
  - IEEE 802 lead, supports dot03 and dot18 groups title:
  - Operational Program Management Senior Manager
- Ron Hotchkiss
  - supports dot01 group
  - Operational Program Management Program Manager
- Christy Bahn
  - supports dot11, dot15, dot19 and, dot24 groups
  - Operational Program Management Senior Program Manager
- Catherine Berger
  - 802 editorial support
  - Senior Program & Special Project Manager
- Lisa Perry
  - 802 editorial support
  - Content Production management
- Christian Orlando (remote)
  - assisting Jodi, Ron, and Christy
  - Operational Program Management Program Manager

IEEE elections

- August 15 – October 2
- IEEE and IEEE SA members - [Vote!]()

- IEEE President
- IEEE SA President
  - virtual candidate forum
- IEEE SA Board of Governors members

IEEE 802 program status

- IEEE 802 Publication Report - https://mentor.ieee.org/802-ec/dcn/23/ec-23-0112-00-00SA-ieee-802-publication-report-july-2023.pdf

- IEEE 802 EC Solutions Report - https://mentor.ieee.org/802-ec/dcn/23/ec-23-0113-00-00SA-ieee-802-ec-solutions-report-july-2023.pdf

- IEEE 802 Active Standards Report – https://mentor.ieee.org/802-ec/dcn/23/ec-23-0115-01-00SA-ieee-802-active-standards-report-29-june-2023.pdf

- IEEE 802 Active PAR Report - https://mentor.ieee.org/802-ec/dcn/23/ec-23-0114-01-00SA-ieee-802-active-par-report-29-june-2023.pdf

Notable

- 802.1 3rd in standards downloads with 17k

- 802.1Qcz-2023 & 802.1AEdk-2023 publication scheduled for August 2023

- myProject and DVL udpates

- 802.1BR expired

- Expiring PARs – Dec 2023
  - P802.1Qcj, P802.1Qcw, P802.1DF, P802.1DG, P802.1Qdj

Public Review

- Since July 2015, all eligible projects where a SA ballot is initiated also have a Public Review period initiated simultaneously.
  - https://publicreview.standards.ieee.org
  - For process questions see **FAQ**
- Status
  - No comments yet
  - No current public review

802.1 PARs this session

- 60802 - Standard - Time-Sensitive Networking Profile for Industrial Automation, PAR modification and CSD
- 802.1Qdy - Amendment: YANG for the Multiple Spanning Tree Protocol, PAR and CSD
- 802.1DG - Standard: Time-Sensitive Networking Profile for Automotive In-Vehicle Ethernet Communications, PAR Extension and CSD
- 802.1Qdj - Amendment: Configuration Enhancements for Time-Sensitive Networking PAR extension and CSD
- 802.1 - Industry Connections: Nendica - ICAID

Normal session process
- Pre-circulation of PARs
  - June 14
- *Maintenance TG prepares 802.1 comments*
  - July 11 at 6pm ET
- 802.1 response to other WG comments
  - July 12 at 6pm ET
- EC approval
  - July 14

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Other 802 PARs this session

- 802.11bn - Amendment: Enhancements for Ultra High Reliability, PAR and CSD
  - 802.1 comments

Tutorials

- Tutorial #1 (6:15–7:35 pm CEST)
  - RAW - Reliable and Available Wireless at the IETF
    - Sponsored by: Dorothy Stanley, IEEE 802.11 WG Chair
  - [Presentation](#)
    - Carlos J. Bernardos, Universidad Carlos III of Madrid
    - Janos Farkas, Ericsson

Liaison Resources

- IEEE 802.1 Liaison Page
  - https://1.ieee802.org/liaisons/
  - Liaison Table: https://1.ieee802.org/liaisons/liaisontable/
  - Liaison templates: https://1.ieee802.org/templates/
- IEEE 802 SA Liaison List for IEEE 802.1
  - https://ieee-sa.imeetcentral.com/802liaisondb/FrontPage
- IEEE Draft Sharing page is maintained by IEEE SA
  - Must confirm organizations outside IEEE SA are on the list before sharing any draft standard.

Incoming Liaisons

- Liaison from **BBF**: [LS](#) re: new project for addressing ONU management at scale [YANGsters]

- Liaison from **ITU-T SG15**: [LS](#) on OTNT Standardization Work Plan Issue 32 [Maintenance]

- Liaison from **ITU-T JCA**: [LS](#) on Invitation to update the information in the IMT2020 roadmap [Maintenance]

- Liaison from **ITU-T SG13**: [LS](#) on ongoing work items on deterministic communication services and networking in SG13 of ITU-T [TSN]

- Liaison from **LNI 4.0**: [LS](#) with LNI 4.0 whitepaper *OPC UA over TSN* and request for IEEE 802 draft standards [TSN]

Status of Outgoing Liaisons

- Liaisons sent since March Plenary:
  - Sent liaison response to ITU-T SG13 on work items related to deterministic communication services & networking
  - Sent liaison to IETF on IANA considerations (re: rfc7042bis-09)
  - Sent liaison response to ITU-T SG15 on OTNT Standardization Work Plan Issue 31
  - Sent liaison response to LNI 4.0 on whitepaper and IEEE SA Logo request
  - Sent liaison response to IEEE 802.11 re: enabling TSN features in 802.11 systems
  - Sent response to BBF on use of the IEEE 802.1X YANG model in BBF-specified Access Nodes
- Approved liaisons – still to be completed:
  - Send IEEE 802.1Qcz to SC6 for adoption, when published (November 2020 motion)
  - Send IEEE 802.1AEdk to SC6 for adoption, when published (March 2023 motion)
  - Send IEEE P802.1CS-2020/Cor1 to SC6 for information, after the SA ballot starts (March 2023 motion)

IETF coordination

- ## LMSC IETF SC – no meeting this plenary

- ## IAB/IESG/IEEE 802 coordination – June 28
  - Item 5. Enabling use of Local Addresses for virtualization and IoT
    - RFC 7042 update in INT Area WG finished WG last call. Awaiting IESG review.
  - Item 25. Layer 2/Layer 3 Interaction for Time-Sensitive Traffic
    - TSN and DetNet well coordinated with joint participation
    - Open working meetings on scaling requirements and new queuing solutions
  - Item 27. Development of YANG models in the IEEE 802
    - 802.1 following process towards YANG catalog
    - New IETF WG for Network Inventory YANG (IVY)
  - Item 33. Capability Discovery
    - IETF drafts have not progressed pending LSVR recharter
  - Item 34. Reliable and Available Wireless
    - RAW will merge into DetNet WG
    - Tutorial on RAW during July 802 plenary meeting.
  - Item 35. MAC Address Device Identification for Network and Application Services
    - No updates

JTC1/SC6 coordination

- JTC1 SC status ([EC-23-118](#))
  - IPR issues preventing ballots on 802.3 and 802.11
- JTC1/SC6 resolutions about PSDO revision
- 802.11 & 802.3 no longer being submitted

Meetings with other 802 WGs

- [802.1 & 802.15](#) (Tues 18:30 – 19:30)
  - Review of 802.15.6 progress on architecture
  - Potential for 802.1AC amendment
- 802.3 YANG during Maintenance (Wed 14-18)
  - Review of BBF liaison
  - MAC merge
  - LLDP TLV YANG

P3400 - Inclusive language

- The IEEE SA Board of Governors Society/Strategic and Emerging Standards Committee invites you to participate in the Individual **Standards Association Ballot** for: P3400

- Title: Standard for Use of Inclusive Language in Technical Terminology and Communications

- Scope: This standard provides requirements for technical terminology and communications using the English language that are inclusive and inoffensive. These requirements apply to technical information in standards, policies, plans, procedures, reports, specifications; machine-readable languages, and text presented electronically.

Promotion

- IEEE SA marketing collateral
  - TSN automotive, TSN industrial
  - TSN logo
- Press releases, blog posts, articles
  - YANG blog post – Done TSN, EtherType & New CBS, MSTP & LAG
- Tutorial
  - TSN eLearning course – under development
    - Lead - Norman Shaw – using webinar content as input
  - TSN webinars
    - 802.1 – Sept 16 , TSN toolset – Dec 2, 802.1AS – Feb 24, AVB – Jun 9, Fronthaul - Sept 8, 60802 – Apr 6, 2023
    - Next: Automotive – Oct 26, Aerospace
  - Computer Society webinars
    - Data Center – August 2023
- Industry Events
  - TSN/A – Sept 27-28, 2023 – Ludwigsburg / Stuttgart
  - Ethernet/IP day – Sept 19

802.1 Public Visibility Messaging

- **Coordinating with IEEE 802 Public Visibility Standing Committee**
  - Chair: Tuncer Baykas
  - 802.1 coordinator: Roger Marks
  - LinkedIn promotion – 4k followers
- **Maintaining web page**
  - https://1.ieee802.org/visibility/
  - tracking topics and status
  - Technical webinars with Computer Society
  - new topics welcome

IEEE Awards

- Emerging Technology Award - for the initiation, advancement or progression of a new technology through the IEEE SA open consensus process
- International Award - for extraordinary contribution to establishing the IEEE SA as a world-class leader in standardization
- Lifetime Achievement Award - for significant technical contributions to a standards committee for their IEEE field of interest
- Standards Committee Award - for outstanding contributions to Corporate Standards Development
- Standards Medallion - for major contribution to the development of standards
- Corporate Award - for the provision of outstanding leadership and contribution to the IEEE SA.
  - IEEE SA nomination deadline 31 July

- Computer Society Hans Karlsson Standards Award - In recognition of outstanding skills and dedication to diplomacy, team facilitation and joint achievement, in the development or promotion of standards in the computer industry
  - Nomination deadline 1 October
- IEEE Charles Proteus Steinmetz award - For exceptional contributions to the development and/or advancement of standards
  - Nomination deadline 15 January
- IEEE Alexander Graham Bell Award - For exceptional contributions to communications and network sciences and engineering.
  - Nomination deadline 15 January

WG Chair Awards

Offered to leadership, editors and significant contributors after publication

- Next
    - IEEE Std 802.1Qcz-2023
    - IEEE Std 802.1AEdk-2023

With the successful and ongoing use of the myProject system, please note that as of 24 March 2023, all Working Group Award requests will be processed through the myProject system only.
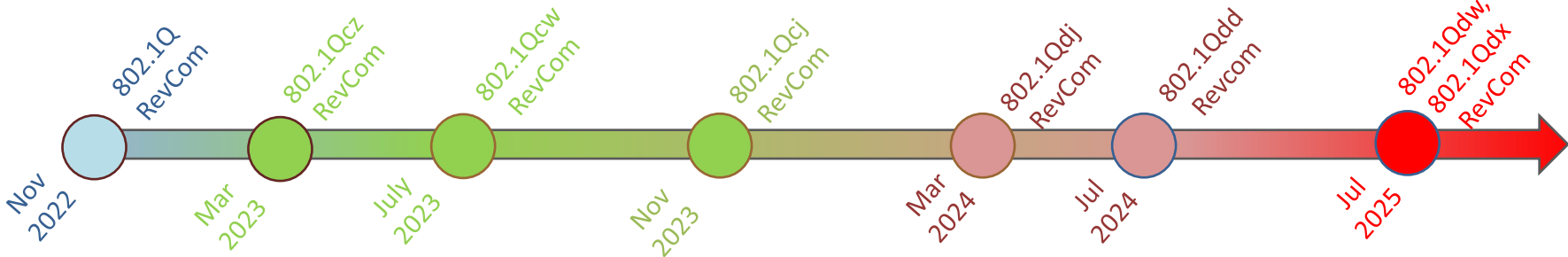
Sanity check – current workload

Project	Short Title	Last Motion	Current Stage	Draft#	Next action	PAR ends
802.1Qcj	Auto Attach to PBB	SA Ballot	SA Ballot	D2.5	RevCom	Dec '23
802.1CQ	Multicast and Local Address Protocol	PAR extension	TG Ballot	D0.8	TG Ballot	Dec '24
802.1Qcw	TSN (Qbu, Qbv, Qci) YANG	SA Ballot	SA Ballot	D2.2	RevCom	Dec '23
802.1Qcz	Congestion Isolation	RevCom	Approved - June 4	D2.7	Publication	Dec '24
60802 (DA)	TSN Profile for Industrial Automation	PAR extension & modify	WG Ballot	D2.0	NesCom - PAR Modification	Dec '25
802.1DC	QOS provision by network systems	WG Ballot	WG Ballot	D2.2	SA Ballot conditional	Dec '24
802.1Qdd	Resource Allocation Protocol	PAR extension	TG Ballot	D0.7	TG Ballot	Dec '25
802.1DF	TSN Profile for Service Provider Networks	TG ballot	TG ballot	D0.1	TG ballot	Dec '23
802.1DG	TSN Profile for Automotive Networks	TG Ballot	TG Ballot	D2.0	NesCom - PAR Extension	Dec '23
802.1Qdj	TSN Configuration Enhancements	WG Ballot	WG Ballot	D1.1	NesCom - PAR Extension & SA ballot conditional	Dec '23
802.1AEdk	MAC Privacy protection	RevCom	Approved - June 4	D2.2	Publication	Dec '23
802f	EtherType YANG	SA Ballot	SA Ballot	D2.1	RevCom	Dec '23
802.1ASdm	Hot standby	PAR modification	WG Ballot	D1.1	WG Ballot	Dec '24
802.1ASdn	Time Synch YANG	WG Ballot	WG Ballot	D1.1	WG Ballot & SA Ballot conditional	Dec '24
802.1DP	TSN Profile for Aerospace	TG Ballot	Editor's draft	D1.0	TG Ballot	Dec '24
802.1Qdq	Tspec	TG Ballot	PAR approved	D0.4	TG Ballot	Dec '25
802.1ASdr	Inclusive Language	SA Ballot	WG Ballot	D1.2	SA Ballot	Dec '25
802.1ASds	Half-duplex support	TG Ballot	PAR approved		Editor's draft	Dec '26
802.1Qdt	PFC MACsec	PAR modification	TG Ballot	D0.2	TG Ballot	Dec '26
802.1DU	Cut-through forwarding	NesCom	PAR approved		TG Ballot	Dec '27
802.1Qdv	Cyclic Queueing and Forwarding	Nescom	PAR approved		TG Ballot	Dec '26
802-rev	O&A	WG Ballot	WG Ballot	D1.0	WG Ballot	Dec '26
802.1Qdw	Source Flow Control	Nescom	PAR approved		Editor's draft	Dec '26
802.1CS/cor1	LRP corrigendum	PAR modification	WG Ballot	D1.3	SA Ballot	Dec '26
802.1Qdx	YANG for CBS	Nescom	PAR approved		WG Ballot	Dec '27
802.1Q-2022 rev	Bridges and Bridged Networks	Nescom	PAR approved		Editor's draft	Dec '27
802.1AS-2020 rev	Timing and Synchronization	Nescom	PAR approved		Editor's draft	Dec '27
802.1Qdy	YANG for MSTP	PAR Development	PAR Development		NesCom - PAR	
8022.1AXdz	YANG for LAG				PAR Development	

802.1Q revisions and amendments

802.1Q-2022
incorporating
- IEEE Std 802.1Qcc-2018
- IEEE Std 802.1Qcp-2018
- IEEE Std 802.1Qcy-2019
- IEEE Std 802.1Qcx-2020
- IEEE Std 802.1Qcr-2020

P802.1Qcz
P802.1Qcw
P802.1Qcj
- RevCom

P802.1Qdj
- SA ballot

P802.1Qdd
- TG ballot

P802.1Qdw
- draft

P802.1Qdq
- TG ballot

P802.1Qdx
- draft

P802.1Qdv
- TG ballot

802.1Q-2022 rev
incorporating
- ???

Content locked on Sept 21, 2025
Amendments blocked until approval

802.1Q
RevCom
Nov
2022

802.1Qcz
RevCom
Mar
2023

802.1Qcw
RevCom
July
2023

802.1Qcj
RevCom
Nov
2023

802.1Qdj
RevCom
Mar
2024

802.1Qdd
Revcom
Jul
2024

802.1Qdw,
802.1Qdx
RevCom
Jul
2025

802.1AS revision and amendments

- 802.1AS-2020
  - P802.1ASdr – SA ballot
  - P802.1ASdn – WG ballot
  - P802.1ASdm – WG ballot

- 802.1AS-2020 rev

Content locked after approval of 3rd amendment
Further amendments blocked until revision approval

  - P802.1ASds – TG ballot

802.1 plenary meeting schedule

CEST Start	CEST End	Monday Jul 10	Tuesday Jul 11		Wednesday Jul 12			Thursday Jul 13		Friday Jul 14	ET Start	PT Start	JST start
08:00	08:30	TSN	Maintenance		TSN	P802-REVc		TSN P802.1DG	Nendica	TSN	02:00	23:00	15:00
08:30	09:00	TSN	Maintenance		TSN	P802-REVc		TSN P802.1DG	Nendica	TSN	02:30	23:30	15:30
09:00	09:30	TSN	Maintenance		TSN	P802-REVc		TSN P802.1DG	Nendica	TSN	03:00	00:00	16:00
09:30	10:00										03:30	00:30	16:30
10:00	10:30										04:00	01:00	17:00
10:30	11:00	Opening Plenary	TSN P802.1DG		TSN	TSN 60802	Security	TSN	TSN 60802	TSN 60802	04:30	01:30	17:30
11:00	11:30	Opening Plenary	TSN P802.1DG		TSN	TSN 60802	Security	TSN	TSN 60802	TSN 60802	05:00	02:00	18:00
11:30	12:00	Opening Plenary	TSN P802.1DG		TSN	TSN 60802	Security	TSN	TSN 60802	TSN 60802	05:30	02:30	18:30
12:00	12:30										06:00	03:00	19:00
12:30	13:00										06:30	03:30	19:30
13:00	13:30										07:00	04:00	20:00
13:30	14:00	TSN	TSN P802.1DP	TSN 60802	TSN	TSN 60802	Security	Closing Plenary		TSN 60802	07:30	04:30	20:30
14:00	14:30	TSN	TSN P802.1DP	TSN 60802	TSN	TSN 60802	Security	Closing Plenary		TSN 60802	08:00	05:00	21:00
14:30	15:00	TSN	TSN P802.1DP	TSN 60802	TSN	TSN 60802	Security	Closing Plenary		TSN 60802	08:30	05:30	21:30
15:00	15:30	TSN	TSN P802.1DP	TSN 60802	TSN	TSN 60802	Security	Closing Plenary		TSN 60802	09:00	06:00	22:00
15:30	16:00										09:30	06:30	22:30
16:00	16:30	TSN	TSN P802.1DP	YANGsters	TSN	TSN 60802	Security	Closing Plenary		TSN 60802	10:00	07:00	23:00
16:30	17:00	TSN	TSN P802.1DP	YANGsters	TSN	TSN 60802	Security	Closing Plenary		TSN 60802	10:30	07:30	23:30
17:00	17:30	TSN	TSN P802.1DP	YANGsters	TSN	TSN 60802	Security	Closing Plenary		TSN 60802	11:00	08:00	00:00
17:30	18:00	TSN	TSN P802.1DP	YANGsters	TSN	TSN 60802	Security	Closing Plenary		TSN 60802	11:30	08:30	00:30
18:00	18:30	802 Tutorial	802.1/802.15 Joint								12:00	09:00	01:00
18:30	19:00	802 Tutorial	802.1/802.15 Joint		Social Event						12:30	09:30	01:30
19:00	19:30		Nendica		Social Event						13:00	10:00	02:00
19:30	20:00		Nendica		Social Event						13:30	10:30	02:30
20:00	20:30		Nendica		Social Event						14:00	11:00	03:00
20:30	21:00		Nendica		Social Event						14:30	11:30	03:30
21:00	21:30		Nendica		Social Event						15:00	12:00	04:00

802.1 Leadership meetings

- Every Thursday – 11:00 ET
  - Since February 2020 to discuss management of work and plan future sessions
- Additional leadership – July 11th (Lyon) 12:30 CEST
  - Prepare PAR responses, EC consent agenda for July 14th EC meeting
- Editors' meetings
  - 19:45 CEST - Monday - Cannes
  - Sharing of best practices by editors

Logistics Orientation

- For new attendees:
  - https://1.ieee802.org/orientation/

- DVL
  - Training
  - Practice the web-based voting tool
    - Access via the "Cast your vote" link on the 802.1 July 2023 plenary session page
    - Based on your IEEE logon email

SBS DirectVoteLive™

Practice Voting

Subgroup agendas

- Maintenance TG
  - Including P802REVc
- Security TG
- TSN TG
- Nendica – Network Enhancements for the Next Decade Industry Connections Activity
- YANGsters

Maintenance TG

Agenda

- https://1.ieee802.org/july-2023-plenary-session-maintenance-tg-agenda/

Tuesday 11 July 2023, 8:00 – 10:00 CEST

- Project status
- Review of maintenance motions
- 802 PARs under consideration: 802.11bn (Enhancements for Ultra High Reliability)
- Incoming and outgoing liaisons: ITU-T SG15 (OTNT SWP), ITU-T JCA (IMT2020 roadmap), SC6
- P802.1CS-2020/Cor1 comment resolution
- SC6 status: responses to comments in FDIS ballots (802.1ACct, 802.1BA) and CIB (802.1Q)
- Document vehicle status
- New maintenance requests: 0362 on 802.1AS
- Existing maintenance requests requiring discussion: 0242, 0248, 0312, 0314, 0343, 0360, 0361
- Any Other Business

Wednesday 12 July 2023, 8:00 – 10:00 CEST

- P802-REVc comment resolution
- Unaddressed agenda items from 11 July 2023
- Any Other Business

Agenda – Security

1. Meeting introduction

2. Approval of agenda

3. P802.1Qdt Priority-based Flow Control Enhancements
   - Draft development
   - ➤ **Wednesday 12 July 10:30-12:30, 13.30-15.30 CEST (Central European Summer Time)**

4. Review potential Security TG items for closing plenary
   - ➤ **Wednesday 12 July 16:00-18:00 CEST**

5. Any Other Business (A.O.B)

   Items previously noted, no time yet requested at this meeting, include:
   - 802.1AR Signature Suites for 60802
   - Pre-shared Key Distribution for MACsec
   - ➤ **Wednesday 12 July 16:00-18:00 CEST (Central European Summer Time)**

6. Future meetings/teleconferences

IEEE 802.1 TSN TG Agenda
IEEE 802 Plenary, July 10-14, 2023

CEST Start	CEST End	Monday Jul 10	Tuesday Jul 11	Wednesday Jul 12	Thursday Jul 13	Friday Jul 14	PT Start	ET Start	JST Start
8:00	8:30	TSN P802.1ASdm	Maintenance TG	TSN P802f, P802.1Qdj, P802.1ASdm	TSN - P802.1DG comment resolution	TSN P802.1Qdj, P802.1ASdm	23:00	2:00	15:00
8:30	9:00						23:30	2:30	15:30
9:00	9:30						0:00	3:00	16:00
9:30	10:00						0:30	3:30	16:30
10:00	10:30						1:00	4:00	17:00
10:30	11:00	Opening plenary	TSN - P802.1DG Time sync, comment resolution	TSN PARs, liaisons, P802.1Qdq	TSN - IEC/IEEE 60802 · TSN overflow, P802.1Qdj, P802.1ASdm	TSN - IEC/IEEE 60802 · TSN - IEC/IEEE 60802	1:30	4:30	17:30
11:00	11:30						2:00	5:00	18:00
11:30	12:00						2:30	5:30	18:30
12:00	12:30						3:00	6:00	19:00
12:30	13:00						3:30	6:30	19:30
13:00	13:30						4:00	7:00	20:00
13:30	14:00	TSN liaisons, motions, P802.1Qdj	TSN - P802.1DP/ AS6675 · TSN - IEC/IEEE 60802 Security	TSN P802.1Qdq, P802.1Qdv, UNI · TSN - IEC/IEEE 60802	Closing plenary	TSN - IEC/IEEE 60802	4:30	7:30	20:30
14:00	14:30						5:00	8:00	21:00
14:30	15:00						5:30	8:30	21:30
15:00	15:30						6:00	9:00	22:00
15:30	16:00						6:30	9:30	22:30
16:00	16:30	TSN P802.1Qcj, P802f, P802.1ASdn, P802.1Qdj	TSN - P802.1DP/ AS6675 2-port end station	TSN P802.1Qdd, P802.1DU, LAG YANG · TSN - IEC/IEEE 60802	Closing plenary	TSN - IEC/IEEE 60802	7:00	10:00	23:00
16:30	17:00						7:30	10:30	23:30
17:00	17:30						8:00	11:00	0:00
17:30	18:00						8:30	11:30	0:30

- TSN TG agenda details are available at: https://1.ieee802.org/2023-07-plenary-tsn-agenda
- Note that the TSN TG agenda may change, e.g., depending on progress

Nendica Meetings since March Plenary

- Meeting alternate Thursdays (09:00-11:00 ET)
- Authorized to add ad hoc meetings if necessary
- 8 meetings since March 802 Plenary

Date	Attendance
2023-03-30	10
2023-04-13	13
2023-04-27	11
2023-05-11	12
2023-05-18 (Interim)	23
2023-05-25	11
2023-06-15	7
2023-06-29	12

Nendica Activity since March Plenary

- Development of ICAID renewal (Sept 2023–Sept 2025)
- Study Item: "Cut-Through Forwarding in Bridges and Bridged Networks [CTF]"
  - no major activity since March Plenary
- Study Item: "Evolved Link Layer Architecture [ELLA]"
  - no contributions
- Study Item: "Forwarding of Fieldbus CPF 12 on 802.1 Bridges [CPF12]"
  - Initiated June 2022; discussed many contributions; no others expected
  - terminated Study Item, 15 June 2023
- Vetting topic: *Extensions on the TSN UNI traffic specification*
  - Presentation and discussion of 3 revisions (and 4 earlier revisions, Feb-Mar 2023)
  - No additional comments on Rev. 6; vetting concluded 2023-06-15
- Vetting topic: *Industrial Campus Network for Virtualized PLC*
  - Presentation and discussion of 2 revisions; further discussion anticipated

Nendica, July 2023 Plenary

- Agenda
  - https://1.ieee802.org/802-nendica-session-2022-07/
- Tuesday 11 July 2023, 19:00-21:00 CEST (tentative)
  - Nendica organization
    - Review comments as received by 11 July 2023
    - Finalize draft Nendica ICAID renewal to Sep 2025
- Thursday 13 July 2023, 8:00-10:00 CEST
  - Vetting and new topics, per contribution
    - Ongoing vetting: Industrial campus network for virtualized PLC
  - Nendica organization
    - Update draft Nendica ICAID report as appropriate; finalize
  - Future meeting schedule
  - Any other business

YANGsters Agenda

- https://1.ieee802.org/july-2023-plenary-session-berlin-germany-yangsters/
  - 1600-1800 (CEST) 11 July
- Status
  - YANG Status Presentation
- IEEE 802.3 YANG progress on LLDP work
- IEEE 802.3 MAC Merge work
- IEEE 802.1AX information
- Discussion Topics
  - Git Repository
  - Information on YANG revision importing
- Request for Next Calls
  - Continue with calls every two weeks (Motion)
- Any Other Business

- IEEE 802.3 YANG Session
  - 1400-1800 (CEST) 12 July
  - https://listserv.ieee.org/cgi-bin/wa?A2=index&L=STDS-802-3-MAINT&O=D&P=250804

YANGsters Summary

- YANGsters
  - https://1.ieee802.org/yangsters/
  - https://1.ieee802.org/yangsters/yangsters-guidelines/yangsters-faq/
- Since May Interim 2023
  - MAC Merge input
    - https://www.ieee802.org/1/files/public/docs2023/yangsters-gutierrez-mac-merge-0623-v01.pdf
  - 802.3 LLDP YANG input
    - https://www.ieee802.org/1/files/public/docs2023/yangsters-smansfield-lldp-802dot3-0523-v02.pdf
  - AX YANG input
    - https://www.ieee802.org/1/files/public/docs2023/yangsters-hartley-1AX-yang-modeling-v01.pdf
- To Do
  - UML-like documentation discussion

YANG "sanity"

- Published YANG is up to date
- Draft YANG should be reviewed to determine what YANG needs to be updated in repository
- Contact YANGsters if help is needed to validate or interact with the repository

ShortName	Name	github status	Ballot	Draft Ver
802.1AEdk	MAC Privacy protection	update needed	SA->Pub	D2.2
802.1AS-2020 rev	Timing and Synchronization	not created	Editor	None
802.1ASdm	Hot Standby	not created	WG	D1.1
802.1ASdn	Timing and Synchronization for Time-Sensitive Applications — Amendment: YANG Data Model	current	WG	D1.1
802.1ASds	Support for the IEEE Std 802.3 Clause 4 Media Access Control (MAC) operating in half-duplex	not created	Editor	None
802.1AXdz	YANG for LAG	not created	Editor	None
802.1CS-2020/Cor1	Link-local Registration Protocol (LRP)	update needed	WG	D1.3
802.1DC	Quality of Service Provision by Network Systems	update needed	WG	D2.2
802.1DF	TSN Profile for Service Provider Networks	not created	TG	D0.1
802.1DG	TSN Profile for Automotive In-Vehicle Ethernet Communications	not created	TG	D1.4
802.1DP	TSN for Aerospace Onboard Ethernet Communications	not created	Editor	D1.0
802.1DU	Cut-thorough forwarding	not created	Editor	None
802.1Q-2022rev	Q-rev	update needed	Editor	None
802.1Qcj	LLDP extension tlv for auto attach	update needed	SA	D2.5
802.1Qcw	Amendment: YANG Data Models for Scheduled Traffic, Frame Preemption, and Per-Stream Filtering and Policing	update needed	SA	D2.2
802.1Qcz	Amendment: Congestion Isolation	update needed	SA->Pub	D2.7
802.1Qdd	Resource Allocation Protocol	not created	TG	D0.7
802.1Qdj	Amendment: Configuration Enhancements for Time-Sensitive Networking	update needed	WG	D1.1
802.1Qdt	Priority-based Flow Control Enhancements	not created	TG	D0.2
802.1Qdv	Enhancements to Cyclic Queuing and Forwarding	not created	Editor	None
802.1Qdw	Source Flow Control	not created	Editor	None
802.1Qdx	YANG for CBS	not created	Editor	None
802.1Qdy	YANG for MSTP	not created	Editor	None
802f	YANG Data Model for Ethertypes	not created	SA	D2.1
IEEE1588e	Precision Clock Synchronization Protocol for Networked Measurement and Control Systems Amendment: MIB and YANG Data Models	current	SA	D1.1

YANG Validation

- Items To Do
  - Validate yang in each draft as it enters a ballot
  - Comment on YANG if it doesn't validate
  - Store validated YANG in the draft directory of the repository
- When a project completes (is published)
  - During the staff editing
    - Support with validating YANG as editorial changes are made
  - When document is published
    - Extract YANG from published standard and update the published directory
    - Delete the YANG from drafts

Any other business?