



Opening Plenary March 2021

Glenn Parsons – IEEE 802.1 WG Chair

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802.1 plenary agenda

Monday, March 8th opening

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

Tuesday, March 16th 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

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 **shall** 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 **should** 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**

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 WG 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 ... do formally object.

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>

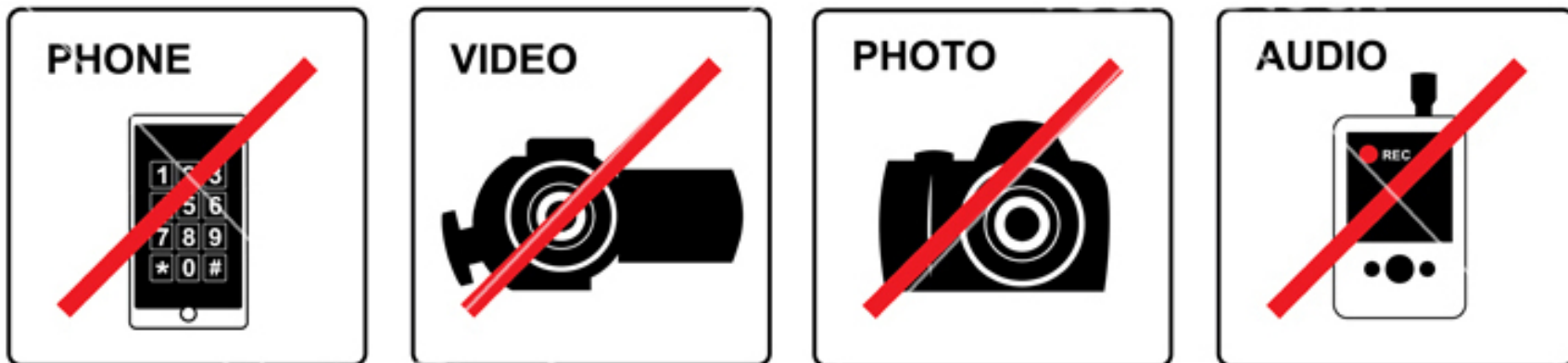
Participants in the IEEE-SA “*individual process*” shall act independently of others, including employers

- 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

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

DECORUM



- **Press (i.e., anyone reporting publicly on this meeting) are to announce their presence (*SASB Ops Manual 5.3.3.3*)**
- **Video/Audio recording by participants is prohibited (*SASB Ops Manual 5.3.3.2*)**
- **Photography by permission only (*SASB Ops Manual 5.3.3.2*)**
- **Cell phone ringers off please**

REGISTER ATTENDANCE FOR MINUTES

Please **register** your attendance at IMAT: <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.

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”

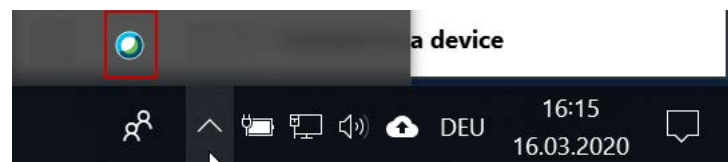
Please provide your information

- Full name
- Affiliation, as part of your name, e.g., in brackets
- (may provide them in the chat window)

Changing your data in Webex

Step 1

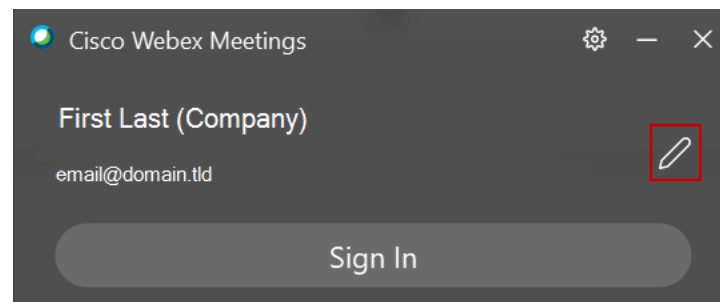
- Go to the "Display hidden icons" arrow in the Windows task bar



- 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.

Subgroup announcements

- Subgroup Chairs please note for the plenary session week:
 - At the start of the first TG meeting, the TG Chair needs to remind participants that the “MEETING INTRODUCTION” information in <http://www.ieee802.org/1/files/public/templates/admin-WG+TG-intro-0321-v01.pdf> was made available before the meeting (as announced in the opening plenary meeting) and needs to make the Call for Potentially Essential Patents.
 - At the start of the first pre-PAR meeting, the pre-PAR subgroup Chair needs to remind participants that the “MEETING INTRODUCTION” information in <http://www.ieee802.org/1/files/public/templates/admin-prePAR-intro-0321-v01.pdf> was made available before the meeting (as announced in the opening plenary meeting).
 - During the rest of the week, please announce that the meeting is subject to the Copyright Policy, Patent Policy (only for TG meetings) and Participants Policy as read and displayed at the opening plenary meeting.
 - If there are any responses to the Call for Potentially Essential Patents, minute it.
 - For additional details, direct participants to the PatCom website for details of the Patent Policy:
 - <https://standards.ieee.org/content/ieee-standards/en/about/sasb/patcom/index.html>
- and for Copyright Policy to:
 - <https://standards.ieee.org/ipr/index.html>

General Information

- Meeting contributions
 - <http://ieee802.org/1/filenaming.html>
 - Please upload 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: Paul Congdon
- Security TG Chair: Mick Seaman
 - Security TG Vice-Chair: Karen Randall
- TSN TG Chair: János Farkas
 - TSN TG Vice-Chair: Craig Gunther
 - TSN TG Secretary: Marina Gutiérrez
 - IEC/IEEE 60802 Joint Project chair: Ludwig Winkel
 - IEC/IEEE 60802 Joint Project secretary: Josef Dorr
- NENDICA Chair: Roger Marks
- YANGsters Chair: Scott Mansfield
 - YANGsters Vice-Chair and Secretary: Stephan Kehrer
- Maintenance of Email exploder: Hal Keen and Mark Hantel
- Maintenance of website: Roger Marks

New Leadership

- IEEE P802.1DP/SAE AS6675 joint project co-chairs:

- János Farkas
- Abdul Jabbar

Joint
Development
Procedures

- P802.1Qrev editor – Mick Seaman
- P802.1DG editor – Max Turner

Affiliation

- You must declare your affiliation(s) which includes employer(s)
 - Per [SASB Bylaws](#) 5.2.1.5 & [SASB OpsMan](#) 5.1.2.3
 - In meetings
 - F2F meeting registration system (not used this time)
 - 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

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 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 WG ballots (including ePolls).
- When you return your vote on a TG/WG ballot, you must 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 “Reply” to the vote announcement.
- When you lose your vote this way, you lose all your qualifying attendance credit.
 - If you want to become a voter again, you have to notify the WG Chair and Recording Secretary that you wish to become a voter again.

The following are 802.1 voters (71):

Ademaj, Astrit
Assmann, Ralf
Belliardi, Rudy
Boiger, Christian
Bottorff, Paul
Canchi, Radhakrishna
Chen, David
Chen, Feng
Congdon, Paul
Cummings, Rodney
Dorr, Josef
Elbakoury, Hesham
Enzinger, Thomas
Farkas, Janos
Fedyk, Donald
Finn, Norman
Garner, Geoffrey
Gunther, Craig
Gutierrez, Marina
Haddock, Stephen
Hantel, Mark
Henry, Jerome
Holness, Marc
Hopf, Daniel

Itaya, Satoko
Ito, Yoshihiro
Karl, Michael
Kehrer, Stephan
Kelsey, Randy
Koto, Hajime
Lawlis, James
Mangin, Christophe
Mansfield, Scott
Maruhashi, Kenichi
Mater, Olaf
McCall, David
McMillan, Larry
Messenger, John
Nakano, Hiroki
Noseworthy, Bob
Ohsawa, Tomoki
Ohue, Hiroshi
Pannell, Donald R
Parsons, Glenn
Potts, Michael
Proell, Dieter
Qiu, Wei
Randall, Karen

Riegel, Maximilian
Rodrigues, Silvana
Rouyer, Jessy V
Sato, Atsushi
Schewe, Frank
Seaman, Michael
Seewald, Maik
Sivakolundu, Ramesh
Specht, Johannes
Stanica, Marius
Steindl, Guenter
Traore, Karim
Varga, Balazs
Wang, Tongtong
Weber, Karl
Winkel, Ludwig
Woods, Jordon
Yamaura, Takahiro
Yin, Yue
Yu, Xiang
Zein, Nader
Zhao, William
Zinner, Helge

The following will become voting members when/if they attend this week:

Lv, Lily

Turner, Max

Venkatesan, Ganesh

Wang, Xinyuan

The following could become voting members if they email me indicating their intention to do so and if they attend this week:

Bierschenk, Jens

Engelmann, Anna

Fincher, Scott

Gravel, Mark

Hasegawa, Akio

Hotta, Yoshifumi

Huh, Woojung

Katsalis, Kostas

Kondo, Kenji

Lai, Gavin

Osagawa, Daisuke

Petre, Razvan

Soeda, Tatsuo

Sun, Liyang

Tarui, Isao

Yang, Chase

Yu, Yi

Zhu, Chunhui

The following will lose voting member status for lack of qualifying attendance, unless they attend this week:

none

The following could lose their voting membership at the end of the plenary through lack of qualifying WG letter ballot voting :

Itaya, Satoko

Noseworthy, Bob

Ohsawa, Tomoki

Traore, Karim

Weber, Karl

Yin, Yue

Yu, Xiang

802.11 Reciprocal credit

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

Interim sessions

- May 18-22, 2020
 - Pasadena, CA, USA hosted by Ethernet Alliance
- September 21-25, 2020
 - Stuttgart, DE hosted by Hirschmann
- January 2021
- May 3-7, 2021
 - Santa Fe, NM, USA hosted by Analog Devices

**Changed to electronic
due to COVID-19**

- September 20-24, 2021
 - Stuttgart, DE
- May 2022 ([proposal](#))
 - Santa Fe, NM, USA hosted by Analog Devices
- September 2022 (proposal)
 - January proposal withdrawn due to pandemic
 - Collocated with 802.3, followed by joint 802.1/802.3/ITU-T SG15 workshop & ITU-T SG15
 - Geneva, CH

**Additional
2022
proposals
welcome**

Future plenary sessions

**Cancelled or
changed to electronic
due to COVID-19**

- March 15-20, 2020 – Atlanta, GA, USA
 - Hilton Atlanta
- July 12-17, 2020 – Montreal, QC, Canada
 - Sheraton Montreal
- November 8-13, 2020 – Bangkok, Thailand
 - Bangkok Marriott Marquis Queen's Park
- March 14-19, 2021 – Denver, CO, USA
 - Hyatt Regency Denver
- July 11-16, 2021 – Madrid, Spain
 - Marriott Madrid Auditorium
- November 14-19, 2021 – Vancouver, BC, Canada
 - Hyatt Regency Vancouver
- March 13-18, 2022 – Orlando, FL, USA
 - Disney Springs
- July 10-15, 2022 – Montreal, QC, Canada
 - Sheraton Montreal
- November 13-18, 2022 – Bangkok, Thailand
 - Marriott Marquis Queen's Park

Future sessions decision dates

- Interim sessions
 - September 20-24, 2021, Stuttgart, DE
 - **Decision date:** May 2021 802.1 interim session
- Plenary sessions
 - November 14-19, 2021 – Vancouver, BC, Canada
 - **Latest possible decision date:** July 6, 2021
 - March 13-18, 2022 – Orlando, FL, USA
 - **Latest possible decision date:** November 2, 2021

802 EC report – Plenary Session #126

Electronic plenary session #3

- Standards Board Terminology ad hoc [report](#)
 - Given [December 2020 SASB resolution](#), decide if further process is required
 - Revised Style Guide (with deprecated language) expected end of March
- SA solutions ([EC-21-44](#))
 - [myProject](#) – Mentor/IMAT sync is now automatic (but one way from myProject)
 - Requirements study for document management and attendance – completed Q1-2021
- 802 Electronic Media 2021 Edition ([EC-21-48](#))
 - All plenary participants in IMAT will get IEEE SA email with invite to download the 2021 Edition
- Rules (P&P) ([EC-20-124](#))
 - AudCom has conditionally approved revised P&P baseline.
- Future Venues ([EC-21-55](#))
 - Swapped venues for March 2024 and March 2026
- Treasurer ([EC-21-51](#))
 - 2020 loss of \$140k, reserves now \$960k
 - Penalties for cancelled meetings so far = \$0 -- but cost per cancelled meeting is about \$25k
 - \$50/each for 500 attendees would cover this – proposed motion for closing plenary
 - Enforcement afterwards per [802 OpsMan section 5.4](#)

Straw polls for closing plenary

- Considering that IEEE 802 collects no annual membership fee yet is incurring in-person session cancellation fees and online meeting tool licensing fees for electronic sessions during the pandemic, would you or your employer be willing to pay a \$50 fee for your access to all July 2021 IEEE 802 electronic plenary session meetings?
 - Yes/No
- When do you expect the next in person 802.1 Session will be?
 - A. September 2021 B.- November 2021 C.- After 2021
- Dates for May 2022 interim

EC meetings during the plenary session

- **IEEE 802 EC - Opening Meeting,**
March Electronic Plenary Session
 - 3:00 PM - 5:00 PM ET
Friday, Mar 5, 2021
- **IEEE 802 EC - Closing Meeting,**
March Electronic Plenary Session
 - 4:00 PM - 8:00 PM ET
Thursday, Mar 18, 2021
 - [Webex](#): 173 694 7064
Password: 802sec

802 JTC1/SC6 Standing Committee

- 4:00 PM - 6:00 PM ET **Tuesday, Mar 9 2021**
–
[Webex](#): 179 156 3999 Password: JTC1

802 Public Visibility SC

- 3:00 PM - 4:00 PM ET **Wednesday, Mar 10 2021** –
[Webex](#): 179 191 4648 Password: publicity

802 ITU Standing Committee

- 4:00 PM - 5:00 PM ET **Wednesday, Mar 17 2021** –
[Webex](#): 179 745 7430 Password: 802itu

802 Chair's Open Office Hour

- 9:00 AM - 10:00 AM ET **Thursday, Mar 18 2021**
[Webex](#): 179 982 6565 Password: 802chair

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>
 - Staff transfers any comments to myBallot
- Status
 - No comments yet
 - Recent public review - none
- Questions? [FAQ](#)

Electronic ballots (ePolls)

- January WG motions
 - ePolls 56-57
- February EC motions
 - ePolls 54-55
- 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>

PARs this week

- 802.1Qdq Amendment:
Shaper Parameter Settings
for Bursty Traffic requiring
Bounded Latency,
[PAR](#) and [CSD](#)
- 802.1ASdr - Amendment:
Inclusive Terminology,
[PAR](#) and [CSD](#)
- Special session process
 - Pre-circulation of PARs
 - due Feb 2
 - *Maintenance TG prepare 802.1 comments*
 - *due Mar 10*
 - 802.1 response to other WG comments
 - due Mar 17
 - EC approval
 - Mar 18

Proposed pre-PAR activity (i.e., study groups)

- 802.3
[Enhancements to Single Pair Ethernet](#)
 - explore any needed enhancements to use the new PHYs in Time-Sensitive Networking (TSN) and industrial networking environments.
 - Mar 9 – 10am ET
- 802.15.6
[enhanced dependability](#)
 - increased reliability MAC will be defined that will address the delay times necessary for sensing and control loops
 - SG to work with 802.1 WG for methods combining reliability with deterministic behavior.

Other PARs

- [Smart Manufacturing Standards Committee \(SMSC\)](#) – entity projects
 - [P2971](#) - Standard for Test Requirements and Methods for Time Sensitive Networking Gateway In the Field of Industrial Internet of Things
 - [P2972](#) - Standard for General Requirements of Gateway Supporting Time Sensitive Networking in Factory Environments

Coordination options

1. Liaison statements
 - send liaisons to the P2971/P2972 WGs
 - no visibility on meetings, contributions, drafts
 - no ability to attend meetings
2. Liaison coordinator
 - visibility on meeting minutes and agendas (but not drafts)
 - no ability to attend meetings
3. Co sponsor of PAR(s)
 - defined as “Joint development projects” in the SASB OpsMan and “Joint-Sponsor” in LMSC P&P
 - single attendee defined as a “Standards Committee Representative” in the new Entity WG P&P
 - visibility on all document (meeting minutes, agendas, contributions and drafts)
 - ability to attend meetings, present contributions and engage in debate
 - no ability to vote in WG or ballots
 - requires an 802 EC approved “joint sponsor agreement” but does not need a CSD or to follow 802 PAR approval process

Liaisons

- Liaison tracking web page
 - <https://1.ieee802.org/liaisons/liaisontable/>
- Incoming (*previously received*)
 - SG15 [LS271](#) & [drafts](#) – Ethernet Recs - TSN
 - SG15 [LS268](#) – OTNT Workplan - Maintenance
- Incoming (*new*)
 - 3GPP SA2 [S21011300](#) – 802.1D withdrawal - Maintenance

Promotion

- IEEE-SA marketing collateral
 - [TSN automotive](#), [TSN industrial](#)
 - TSN logo
- Issue press releases, call for participation or blog posts
 - 802.1AS – [Beyond Standards](#)
 - 802.1Qcx and YANG – [Beyond Standards](#)
 - [802.1DP](#) – [IEEE-SA](#) & [Computer](#)
- Presence at Industry Events
 - [WSTS](#) – 24 March – 1 April 2021
 - [TSN/A](#) – 29-30 September 2021
 - [IEEE-SA Ethernet & IP - Automotive Technology Day](#) – 3-4 Nov 2021



802.1 Public Visibility Messaging

- **Coordinating with IEEE 802 Public Visibility Standing Committee**
 - Chair: John D'Ambrosia
 - [Status](#) – Twitter, LinkedIn followers up
 - Next meeting: 10 Mar, 15:00-16:30 ET
 - <https://tinyurl.com/2bm7h5kb>
- **Maintaining web page**
 - <https://1.ieee802.org/visibility/>
 - tracking topics and status
 - drafting tweets for John D'Ambrosia
 - new topics welcome

Joint tutorial

- 802 plenary tutorial
- March 2nd
- Over 400 attendees

Tutorial on Synchronization: A Key Function in Time-Sensitive Networking and Beyond

Kishan Shenoi, Stefano Ruffini, Marc Weiss, Lee Cosart, Silvana Rodrigues, Geoffrey Garner, Jordon Woods, and Max Turner

Tutorial, IEEE 802 Plenary Session, March 2, 2021

WSTS 2021

30 Years in Sync: Time-Sensitive Everything for 5G and Connected Industries

This is a brief introduction to timing issues. For more information attend the tutorials and the full workshop:

Tutorials from 11:00 a.m. – 1:00 p.m. ET

- March 24: Timing and Synchronization Fundamentals
- March 25: Timing and Synchronization Applications

Workshop from 12:00 – 5:00 p.m. ET

- March 30: Timing in Telecom, Electric Power and Smart Cities
- March 31: Sync in Financial Services, Data Centers and Measurement
- April 1: Security, Resilience and Timing Sources
- Unscheduled talks available on demand

IEEE Awards



- [Emerging Technology Award](#) - for the initiation, advancement or progression of a new technology through the IEEE SA open consensus process
- [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

IEEE SA Emerging Technology Award



Presented to **IEEE 802.1 Working Group**
For the development of IEEE Std 802.1CM™-2018 Time-Sensitive Networking for Fronthaul as amended by IEEE Std 802.1CMde™-2020, the first IEEE standard to connect a cellular network's radio equipment to its remote controller via a packet network, in particular, over a bridged IEEE 802.3™ Ethernet network.



IEEE SA Standards Medallion

- 2020 - János Farkas
For exceptional skill in championing the standardization development of time-sensitive networking
- 2015 - Stephen Haddock
- 2014 - Norman Finn
- 2009 - Michael Johas Teener
- 2000 - Tony Jeffree
- 1998 - Mick Seaman



IEEE SA Lifetime Achievement Award



- **2016**
Michael Johas Teener
"In gratitude to a visionary plumbing architect that over the past 40 years has brought us IEEE 896™ Futurebus, IEEE 1394™ Firewire and IEEE 802.1Q™ TSN."
- **2015**
Mick Seaman
"For outstanding technical and architectural vision, leadership, and mentoring through 30 years of dedication to the development of standards for Bridging and Security in IEEE 802.1"
- **2013**
Tony Jeffree
"For his exceptional dedication, hard work, and technical excellence in furthering the IEEE Intworking Group 802.1 and its development of standards for Bridging, link layer security and network management"

IEEE Living Standards Award

established by Austrian Standards International

- 2021 – TTTech
 - *For contributing know-how into the development of interoperable and vendor-independent technology standards (IEEE 802.1Qcw, IEC/IEEE 60802, IEEE 802.1DG).*



WG Chair Awards

Offered to leadership, editors and significant contributors after publication

- 802.1CS-2020
 - Editor: Norm Finn
 - Certificate: Feng Chen

Sanity check – current workload

Project	Short Title	Last Motion	Current Stage	Draft#	Next action	PAR ends
802.1Qcj	Auto Attach to PBB	PAR extension	WG ballot	D1.3	WG ballot	Dec '21
802.1CQ	Multicast and Local Address Protocol	PAR Extension	TG Ballot	D0.5	TG Ballot	Dec '22
802.1CS	LRP	RevCom	Approved	D3.1	Publication	Dec '21
802.1ACct	support for 802.15.3	TG Ballot	TG Ballot	D0.2	WG ballot	Dec '21
802.1ABcu	LLDP YANG	WG Ballot	WG Ballot	D1.6	SA ballot (conditional)	Dec '21
802.1CBcv	FRER YANG & MIB	WG Ballot	WG Ballot	D1.1	SA ballot (conditional)	Dec '22
802.1Qcw	TSN (Qbu, Qbv, Qci) YANG	WG ballot	WG ballot	D1.3	SA ballot (conditional)	Dec '21
802.1Qcz	Congestion Isolation	SA Ballot	SA Ballot	D1.3	RevCom (conditional)	Dec '22
60802 (DA)	TSN Profile for Industrial Automation	TG Ballot	TG Ballot	D1.2	TG ballot	Dec '22
802.1CBdb	FRER (CBcv) extensions	WG Ballot	WG Ballot	D1.2	SA ballot (conditional)	Dec '22
802.1DC	QOS provision by network systems	WG Ballot	TG Ballot	D1.1	WG Ballot	Dec '22
802.1Qdd	Resource Allocation Protocol	TG Ballot	TG Ballot	D0.4	TG ballot	Dec '22
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	D1.3	TG ballot	Dec '23
802.1ABdh	LLDPv2	TG ballot	TG ballot	D1.0	TG ballot	Dec '23
802.1Qdj	TSN Configuration Enhancements	TG ballot	TG ballot	D0.1	TG ballot	Dec '23
802.1AEdk	Privacy enhancements for use with MACsec	TG Ballot	TG ballot	D0.5.6	TG ballot	Dec '23
802f	EtherType YANG	TG Ballot	TG Ballot	D0.2	TG Ballot	Dec '23
802.1ASdm	Hot standby	TG Ballot	PAR approved		Editor's draft	Dec '24
802.1Q-REV	Bridges and Bridged Networks	WG Ballot	WG Ballot	D0.2	WG Ballot	Dec '24
802.1ASdn	Time Synch YANG	TG Ballot	PAR approved		Editor's draft	Dec '24
802.1DP	TSN Profile for Aerospace	PAR Development	PAR approved		TG ballot	Dec '24
802.1BA-rev	AVB Systems	NesCom	SASB approval		Editor's draft	Dec '24
802.1AS/cor1	Timing and Synchronization corrigendum	NesCom	Editor's draft	D0.1	WG Ballot	Dec '24
802.1Qdq	Tspec	PAR Development			NesCom	
802.1ASdr	Inclusive Language	PAR Development			NesCom	

802.1Q revisions and amendments

802.1Q-2021

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

- SA ballot

P802.1Qcj

- WG ballot

P802.1Qdd

- TG ballot

P802.1Qcw

- WG ballot

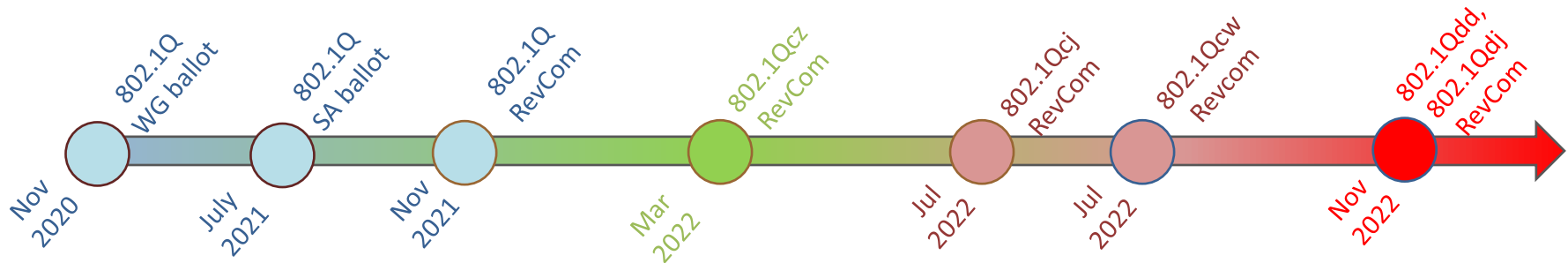
P802.1Qdj

- TG ballot



Locked on May 7, 2021

Amendments blocked until approval



IEEE Std. 802.1D-2004

- All relevant content from .1D is contained in .1Q
 - This was concluded with the [2013 revision PAR](#) for 802.1Q
 - Merged IEEE Std 802.1D with IEEE Std 802.1Q in order to create a single bridging standard
- Proposed actions to be led by Maintenance TG
 - Presentations to other 802 WGs
 - Correct the SA database to indicate that IEEE Std 802.1D-2004 was superseded by IEEE Std 802.1Q-2014.

802.1 plenary session

electronic meeting schedule

ET Start	ET End	Monday Mar 8	Tuesday Mar 9	Wednesday Mar 10	Thursday Mar 11	Friday Mar 12	PT Start	CET start	JST start	Monday Mar 15	Tuesday Mar 16	CET start ¹	JST start ¹
09:00	09:30	Opening plenary	TSN P802.1DG	TSN	TSN 60802	TSN	Nendica	TSN	TSN 60802	TSN 60802	Closing plenary meeting	14:00	22:00
09:30	10:00												
10:00	10:30												
10:30	11:00												
11:00	11:30											16:00	00:00
11:30	12:00	TSN 60802	TSN 60802	Security	TSN P802.1DP	TSN 60802	Security	TSN	Security	TSN		17:00	01:00
12:00	12:30												
12:30	13:00												
13:00	13:30												
13:30	14:00	802.1 orientation	Maintenance	TSN	TSN	YANGsters	Maintenance			TSN		19:00	03:00
14:00	14:30												
14:30	15:00	TSN										20:00	04:00
15:00	15:30												
15:30	16:00												
16:00	16:30												
												21:00	05:00

¹: Please note that the change to summer time occurs on March 14, 2021 for ET.

802.1 Management meetings

- Every Thursday – 11:00 ET
 - Since February 2020 to manage shift to electronic sessions
- Editors' meetings
 - 11:00 ET - Thursday after each session (Mar 25th)
 - Sharing of best practices by editors
- Additional leadership – Mar 16th 12:30 ET
 - Prepare PAR responses, EC consent agenda for Mar 18th EC meeting

Logistics Orientation

- Mar 8th 13:30 ET
- Agenda
 - WG structure
 - Participants
 - Documents
 - Schedules & Attendance
 - Agendas & Minutes
 - Voting



Practice Voting

Subgroup agendas

- [Maintenance TG](#)
- [Security TG](#)
- [TSN TG](#)
- [Nendica](#) – Network Enhancements for the Next Decade Industry Connections Activity
- [YANGsters](#)

Maintenance TG meeting agenda

9th March, 2021 – 14:00 ET

12th March, 2021 – 14:00 ET

- 802.1D Withdrawal/Supersede Next Steps
 - Options and Legal perspective
 - 802.3 and 802.11 Discussions
 - 802.1Q Changes to supersede 802.1D
 - 802.1D Withdrawal/Supersede maintenance requests review
 - [0287](#): Update IEEE Std 802 to reflect withdrawal of IEEE Std 802.1D
 - [0298](#): Remove reference to 802.1D from 802.1AC
 - [0299](#): Remove 802.1D references from 802.1BA
 - [0300](#): Remove 802.1D references from 802.1BR
- Existing Maintenance Items
 - [0232](#), [0242](#), [0248](#), [0278](#), [0304](#)
- New Maintenance Items
 - [0309](#), [0310](#), [0311](#), [0312](#)
- SC6 Status
- Liaisons
 - [Draft OTNT Std Work Plan Issue 28](#)
 - [Draft Ballot comment response to IEEE Std 802.1X-2020](#)
- 802.1 PAR Comments Review/Response

[Online Detailed Agenda](#)

Agenda – Security TG

1. Meeting introduction

2. Approval of agenda

3. P802.1AEdk MACsec Privacy Protection

- Task Group ballot (D0.5) resolution & Draft development

➤ **Tuesday 11:00-13:00, Thursday 11:00-13:00, Friday 11:00-13:00 [Eastern Time]**

4. MACsec Performance

- Discussion, follow up from January interim

➤ **Friday 11:00-13:00 [Eastern Time]**

5. A.O.B.

6. Future meetings/teleconferences

IEEE 802.1 TSN TG Agenda

IEEE 802 Plenary, March 2021

												UTC Start	Daylight saving in the USA						
													EDT Start	Monday Mar 15	Tuesday Mar 16	PDT Start	CET Start	JST Start	
Standard time													13:00	9:00	TSN - IEC/IEEE 60802 Contributions, Comment resolution	Closing plenary	6:00	14:00	22:00
EST Start	EST End	Monday Mar 8	Tuesday Mar 9	Wednesday Mar 10		Thursday Mar 11	Friday Mar 12		PST Start	CET Start	JST Start	13:30	9:30	6:30			14:30	22:30	
9:00	9:30	Opening plenary	TSN - P802.1DG Contributions, e.g.: Security	TSN comment resolution: P802.1Qcw, P802f	TSN - IEC/IEEE 60802 Security, Comment resolution	TSN P802.1Qdq PAR & CSD, outgoing liaisons	TSN comment resolution: P802.1Qcz	TSN - IEC/IEEE 60802 Comment resolution	6:00	15:00	23:00	14:00	10:00	7:00			15:00	23:00	
9:30	10:00								6:30	15:30	23:30	14:30	10:30	7:30			15:30	12:30	
10:00	10:30								7:00	16:00	12:00	15:00	11:00	recess			8:00	16:00	0:00
10:30	11:00								7:30	16:30	12:30	15:30	11:30	TSN P802.1ASdm, P802.1DF contrib, overflow, new work	8:30	16:30	0:30		
11:00	11:30	recess	recess	recess		recess	recess		8:00	17:00	1:00	16:00	12:00		9:00	17:00	1:00		
11:30	12:00	TSN - IEC/IEEE 60802 Status updates, Comment resolution	TSN - IEC/IEEE 60802 Time sync simulation results, Comment resolution	TSN - P802.1DP Contributions, e.g.: use cases, certification		TSN - IEC/IEEE 60802 10BASE-T1L & 802.1AS, Comment resolution	TSN P802.1CQ contribution, comment resolution: P802.1Qdj, overflow		8:30	17:30	1:30	16:30	12:30		9:30	17:30	1:30		
12:00	12:30								9:00	18:00	2:00	17:00	13:00		10:00	18:00	2:00		
12:30	13:00								9:30	18:30	2:30	17:30	13:30		recess	10:30	18:30	2:30	
13:00	13:30								10:00	19:00	3:00	18:00	14:00		TSN Comment resolution: P802.1Qcj, overflow	11:00	19:00	3:00	
13:30	14:00	802.1 orientation		recess		recess			10:30	19:30	3:30	18:30	14:30	11:30		19:30	3:30		
14:00	14:30			TSN Comment resolution: P802.1CBcv, P802.1CBdb			TSN Comment resolution: P802.1ABdh			11:00	20:00	4:00	19:00	15:00		12:00	20:00	4:00	
14:30	15:00	11:30								20:30	4:30	19:30	15:30	12:30		20:30	4:30		
15:00	15:30	12:00								21:00	5:00	20:00	16:00		13:00	21:00	5:00		
15:30	16:00	12:30								21:30	5:30	20:30							
16:00	16:30	13:00								22:00	6:00	21:00							

- TSN TG agenda details are available at: <https://1.ieee802.org/2021-03-plenary-tsn-agenda/>
- Note that the TSN TG agenda may change, e.g., depending on progress

Nendica Plan

- **Thu 11 Mar, 09:00-11:00 ET**
- **Detailed agenda:**
 - <https://1.ieee802.org/agenda-nendica-plenary/>
- **Key meeting topics:**
 - Data Center Networks (DCN)
 - <https://1.ieee802.org/nendica-DCN/>
 - Comment resolution
 - Potential new Study Item topics
 - Review plan for WG/EC extension of ICAID
 - “To endorse the extension of the Nendica ICAID through September 2021 and for Nendica to develop, by the July 2021 IEEE 802 Plenary, a proposal for followup activity.”

YANGsters Agenda

March 2021 802.1 Plenary Session

- Meeting introduction ([Templates](#))
 - Read latest version of admin-prepar-intro slides
 - IMAT
- Approval of agenda
- Introduction to YANGsters
- Review of discussions since last plenary
- New Topic
 - Mapping of Managed Objects to YANG constructs
 - Implicit or explicit value assignment for enumerations
- Issues List
 - <https://1.ieee802.org/yangsters/yangsters-issue-list/>
- Next Calls
- Any Other Business

Any other business?