IEEE 802.1

Opening Plenary November 2021

Glenn Parsons – IEEE 802.1 WG Chair

glenn.parsons@ericsson.com

802.1 plenary agenda

Monday, November 8th opening

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

Tuesday, November 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

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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

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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

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*

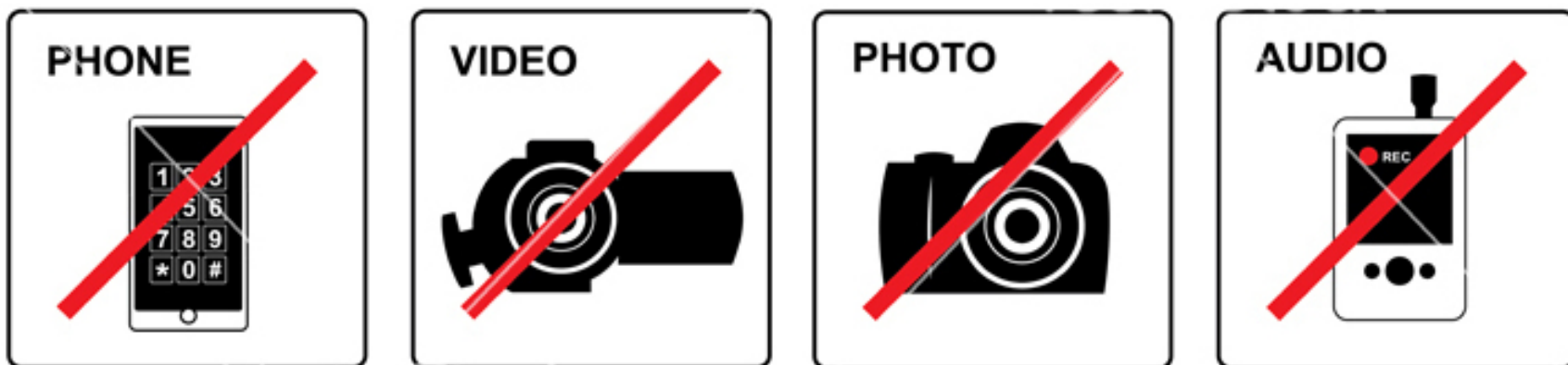- The most recent versions of these Codes are available at http://www.ieee.org/about/corporate/governance

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

Approved by SASB in June 2019

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.**

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"
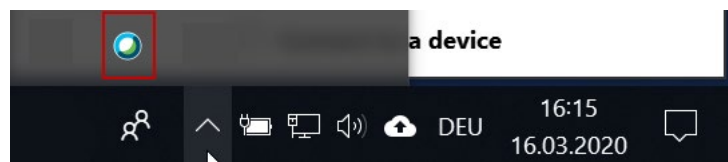
Please provide your information

- 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
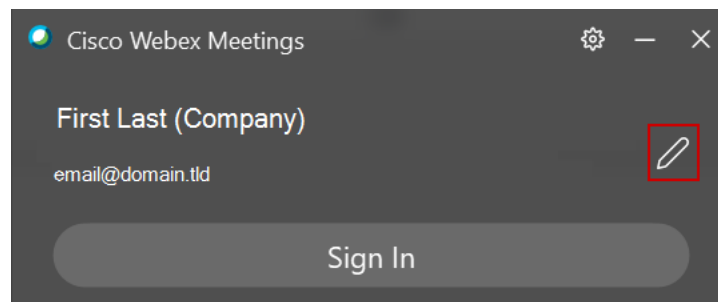
Step 1

- 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

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(*) 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.[16]

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 Nov 2021 Plenary Session requires registering and paying the appropriate fee
  - USD$50 payable at least 15 days prior (21 Oct 2021) to start of IEEE 802 Nov 2021 Plenary Session
  - USD$75 thereafter until the start of the IEEE 802 Nov 2021 Plenary Session
  - USD$125 thereafter.
- Registration details http://802world.org/plenary/

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: Christian Boiger
  - IEC/IEEE 60802 Joint Project Chair: Ludwig Winkel
  - IEC/IEEE 60802 Joint Project Secretary: Josef Dorr
  - 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: Roger Marks

802.1 WG Process

- [IEEE 802 Working Group Policies and Procedures](#)
- [Guidelines](#) available on
  - WG voting membership
  - WG ballots
- "New work" process
  - Currently 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](#)
    - New revision

- IEEE P802.1DP/SAE AS6675 joint project
  - [IEEE/SAE joint development agreement](#)
  - [IEEE/SAE cooperation on TSN – rev 2](#)
    - Initial draft

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

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 WG ballots (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 (76):

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

Itaya, Satoko
Ito, Yoshihiro
Karl, Michael
Kehrer, Stephan
Kelsey, Randy
Lai, Gavin
Lawlis, James
Lopes, Joao
Lv, Lily
Mangin, Christophe
Mansfield, Scott
Maruhashi, Kenichi
Mater, Olaf
McCall, David
McMillan, Larry
Messenger, John
Nakano, Hiroki
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
Sun, Liyang
Traore, Karim
Turner, Max
Varga, Balazs
Venkatesan, Ganesh
Wang, Tongtong
Wang, Xinyuan
Weber, Karl
Winkel, Ludwig
Woods, Jordon
Yamaura, Takahiro
Yin, Yue
Zein, Nader
Zhao, William
Zinner, Helge

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

Arunarthi, Venkat
Choudhury, Abhijit
Kiessling, Marcel
Petre, Razvan
Wessels, Leon
Zeier, Uwe

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
Gravel, Mark
Katsalis, Kostas
Klamser, Oliver
Markwart, Christian
Yang, Chase

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

Cummings, Rodney
Ohue, Hiroshi

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

Maruhashi, Kenichi
Qiu, Wei
Sun, Liyang

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.

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
- September 20-24, 2021
  - Stuttgart, DE hosted by Hirschmann
- January 17-21, 2022

Changed to electronic due to COVID-19

- May 23-27, 2022 [(proposal)](#)
  - Santa Fe, NM, USA hosted by Analog Devices
- September 2022 (proposal in Geneva, CH)
  - 12-16 Sept 2022: co-located 802.1/802.3 meetings
  - 17 Sept 2022 (Saturday): Joint ITU-IEEE workshop
  - 19-30 Sept. 2022: ITU-T SG15

Plenary sessions

- 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

Cancelled or changed to electronic due to COVID-19

- March 13-18, 2022 – Orlando, FL, USA
  - Hilton Orlando Lake Buena Vista
- July 10-15, 2022 – Montreal, QC, Canada
  - Sheraton Le Centre Montreal
- November 13-18, 2022 – Bangkok, Thailand
  - Marriott Marquis Queen's Park

LMSC Items to Consider for In-person Sessions

1. Safety of Attendees

- What requirements should IEEE 802 enforce for attendance at in-person venues?
  - Vaccinated / Testing
  - Masks / social distancing

2. Travel authorizations from/to Countries

3. Travel authorizations from Companies

4. Number possible to attend

5. Social Distancing impacts on meeting space

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Future sessions decision dates

- Plenary sessions
  - March 13-18, 2022 – Orlando, FL, USA
    - **Latest possible decision date:** December 7, 2021
  - July 10-15, 2022 – Montreal, QC, Canada
    - **Latest possible decision date:** March/April 2022

- Interim sessions
  - May 2022, Sante Fe, NM, USA
    - Straw poll
    - Defer hosting confirmation to January 2022
  - September 2022, Geneva, Switzerland
    - Defer hosting approval to March 2022 plenary session

Straw Polls

- Will you be able to attend the May 2022 interim session if it is held only in-person?
  - Yes   -   34
  - No   -   11
  - Don't Know   -   26

LMSC schedule
EC/WG/TAG meetings for the plenary

November 2021	5 Fr	6 Sa	7 Su	8 Mo	9 Tu	10 We	11 Th	12 Fr	13 Sa	14 Su	15 Mo	16 Tu	17 We	18 Th	19 Fr
v1.2	802 Orientation 10-11:30am	802 Plenary Session (all times are ET) →													
802 EC	Opening Plenary 3-5pm				802/JTC1 SC 4-6pm		Chairs Open Office 8-9am					802 Restructuring ad hoc 1-2pm	Public Visibility SC 3-4pm; ITU SC 4-5pm; IETF SC 5-6pm		Closing Plenary 1-5pm
802.01				opening WG plenary 9-10am	802.1 WG Session →							closing WG plenary 9-noon			
802.03				opening WG plenary 9-11am	802.3 WG Session →									closing WG plenary 9-11am	
802.11				opening WG plenary 9-11am	802.11 WG Session →							closing WG plenary 9am-noon			
802.15					opening WG plenary 9-11am	802.15 WG Session →							closing WG plenary 9-11		
802.18							802.18 TAG opening 3-4pm							802.18 TAG closing 3-4pm	
802.19				802.19 WG Plenary 4-5pm											
802.24						802.24 TAG Plenary 4-6pm									

Meeting logistics available on 802 calendar

802 EC report – Plenary Session #128
Electronic plenary session #5

- Hybrid meetings ad hocs (requesting input)
  - EC mixed mode draft (EC-21-203)
  - Future meeting vision
  - Experiment for closing EC with 802 chair, staff and others at IEEE HQ
- Coordination with Smart Manufacturing (C/SM)
  - Coordinating LMSC and SMSC to differentiate scopes of IEEE/IEC P60802 and P2971/P2972
  - Study Group recommended to be setup to allow joint discussion
- 802 Task Force (EC-21-241)
  - Update on tools project (document management and attendance - replacement of Mentor/IMAT)
  - SA funding of FrameMaker licenses
- 802 Milestone (EC-21-275)
- Future Venues (EC-21-265)
  - Orlando – Mar 2022 – Decision on Dec 7, 2021
- Treasurer (EC-21-271)
  - 2021 surplus projected at $30k, reserves now $900k ($600k cash, $300k committed)
  - Penalties for cancelled meetings so far = $0 -- Mar 2022 penalty greater than reserves

LMSC restructuring adhoc

- Objective – increase efficiency and responsiveness of 802 LMSC

- 802 Mission and Purpose statement
  - IEEE 802 develops and maintains standards specifying data link layer and physical layer protocols to support packet transmission and delivery among network-layer clients.

- Monthly meetings
  - Oct 19 – slides & minutes
  - Next: 16Nov, 21Dec

- Focus areas

  a. Operational Efficiency (BenR) submitted P&P changes to improve efficiency
  - Proposal to do PARs at anytime

  b. Strategic Planning (PaulN) completed 802 Next Gen Technologies Coordination/Brainstorm Workshop, formulating follow up actions

  c. Technical Coherence (RogerM) initiated plans to revise 802 O&A
  d. Hybrid Meeting Evaluation split into two sub-ad hocs
  d.1 Mixed Mode Best Practices (GeorgeZ) in process of drafting a document
  d.2 Future Meeting Vision (AndrewM) in process of establishing a long term vision for effective 802 sessions

802 Next Gen Workshop

- https://www.ieee802.org/nextgen/index.shtml

- Agenda – Nov 3 - 16:00-17:30 ET
    - 16:00 802 Presentations (30 min.)
        - Opening slide deck, Nikolich
        - 802.1 next gen activities, Marks
        - 802.3 next gen activities, Lewis
        - 802.11 next gen activities, Lansford
        - 802.15 next gen activities, ~~Rolfe~~ Powell
        - 802.24 next gen activities, Godfrey
    - 17:00 open discussion exploring collaborative next-gen opportunities across 802 (15 min.)
        - Issues about how to publicize opportunities, etc.
    - 17:10 brainstorm with 802 participants and researchers on new next gen topics (30 min.)
        - 17:10 WIOT brainstorm deck, Restuccia (mainly wireless AI)
        - 17:24 WIOT brainstorm deck, Jornet (radio >100 GHz)
            - no questions for either; invited by chat to WG activities
    - (skipped) organize next steps to continue next gen 802 work (15 min.)
    - 17:38-17:47 wrapup
        - Next steps: plan a follow-up.

March 2022 802 LMSC Elections

IEEE 802 LMSC Elections to be conducted at the March 2022 plenary session

- 802 Working Group and Technical Advisory Groups to hold elections for Chair and Vice Chair positions
- 802 Executive Committee Elections/Confirmations
  - 802 LMSC Chair to be elected by non-appointed EC voting members
  - 802 LMSC Appointed position candidates to be confirmed by EC voting members
  - 802 LMSC WG/TAG Chair and Vice Chair position candidates to be confirmed by EC voting members
  - Non-voting 802 LMSC position candidates to be confirmed by EC voting members
- Paul Nikolich will stand for LMSC Chair re-election and submit current set of LMSC appointed members for confirmation
- Glenn Parsons & Jessy Rouyer will stand for 802.1 Chair & Vice Chair re-election

Straw polls for closing plenary

1. When do you expect the next in-person 802.1 session will be?
   - March 2022
   - July 2022
   - Nov 2022
   - May 2022
   - Sept 2022
   - 2023 or later

2. If the 2022 March Plenary Session is held in Orlando, Florida as an in-person only session, will you attend?
   - Yes/No

3. If the 2022 March Plenary Session is held in Orlando, Florida as a mixed-mode session, will you attend:
   - Attend In-person
   - Attend Virtually (remotely)
   - Will not attend plenary

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
  - Current public review
    - P802.1ACct
    - P802.1Qrev

802.1 PARs this session

- 802.1ASds - Amendment: Support for the IEEE Std 802.3 Clause 4 Media Access Control (MAC) operating in half-duplex, PAR and CSD

- Special session process
  - Pre-circulation of PARs
    - due Oct 5
  - *Maintenance TG prepares 802.1 comments*
    - due Nov 10
  - 802.1 response to other WG comments
    - due Nov 17
  - EC approval
    - Nov 19

Other 802 PARs this session

- 802.3df - Amendment: Media Access Control Parameters, Physical Layers and Management Parameters for 200 Gb/s, 400 Gb/s, 800 Gb/s, and 1.6 Tb/s Operation, PAR and CSD

- 802.11bb - Amendment: Light Communication, PAR Modification, and CSD

- 802.15ma - Standard for High Data Rate Wireless Multi-Media Networks - Revision to IEEE Standard 802.15.3-2016, PAR and CSD

Draft comments

Technical Plenary

- The [802.1 Technical Plenary](#) is a vehicle for addressing specific **technical** problems across all 802.

- A new series around sessions to initially provide wider awareness for the revision of IEEE Std 802

- Logistics
  - First meeting - Dec 2nd – 4-6 pm ET
  - Subsequent meetings before interim or plenary sessions

Liaison Resources

- IEEE 802.1 Liaison Page
  - https://1.ieee802.org/liaisons/
  - links to the Liaison Table (updated for each session) and Liaison Templates
- Updated 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 a draft.

Incoming Liaisons

- TSN
  - **3GPP WG SA2**:LS on Correction Field update for Transparent Clock
  - **ITU-T SG15**: LS330 on Revision of G.8012 and G.8021 (updates LS316)
  - **OPEN Alliance**: LS Request to establish a liaison relationship
  - **EtherCAT**: LS Draft sharing between IEEE 802.1 WG and EtherCAT
  - **ITU-T SG13**: LS 217 Work items related to deterministic communication in SG13
  - **ITU-T SG15:** LS 271 on updated recommendations on Ethernet
  - **ISO/IEC JTC1/SC6** : PWI proposal on Deterministic Wireless Industrial Network
  - **LNI 4.0**: draft sharing between IEEE 802.1 WG and LNI 4.0

- Maintenance
  - **ITU-T SG15** LS 312, Request input on OTNT Standardization Work Plan Issue 29
  - **MEF**: LS318 MEF reply to ITU-T SG15 SG15-LS329, reference MEF 10 in G.8021
  - **MoCA**: LS with 2 MoCA specifications MAC/PHYv2.0 and MAC/PHYv2.5
  - **ISO/IEC JTC1/SC6**: FDIS Ballot Comments on IEEE Std 802.1AS, IEEE Std 802.1Qcc, and IEEE Std 802.1CMde.

- YANGsters
  - **BBF**: LS475 strategy to bind IEEE 802.1Qcx to IETF Alarm Management model

RAC EtherType ad hoc

- 802.1 WG requested early coordination on P802f with RAC

- Phase 2 [status update](#)
  - Multiple solutions agreed
  - Update of EtherType public listing in progress for some
  - Input requested on hex representation

9. Consistency of hex representation of EtherTypes

    - No consistent style for identifying an EtherType value as a hexadecimal number [0800 vs 08-00 vs 0x0800 vs 0800 (hex) vs 0800_{16}] is defined.

    - RAC should define for its usage

    - Standards define for their usage -- IEEE Editorial reviewing conventions for 2023 style manual

IETF coordination

- [LMSC IETF SC](#) - Nov 17

- [IAB/IESG/IEEE 802 coordination](#) – Oct 25
  - Item 5. Enabling use of Local Addresses for virtualization and IoT
  - Item 25. Layer 2/Layer 3 Interaction for Time-Sensitive Traffic
    - TSN and DetNet well coordinated with joint participation
  - Item 27. Development of YANG models in the IEEE 802
    - Includes P802f
  - Item 33. Capability Discovery
    - Includes P802.1ABdh (LLDPv2)
  - Item 34. Reliable and Available Wireless (RAW)
  - Item 35. MAC Address Device Identification for Network and Application Services
    - Includes P802.1AEdk

- Individual presentations on 802.1 at IETF 112
  - INT Area – Roger, MADINAS – Glenn, LSVR & ICCRG - Paul

Promotion

- IEEE SA marketing collateral
  - TSN automotive, TSN industrial
  - TSN logo
- Issue press releases, call for participation or blog posts
  - 802.1CM / Emerging Technology Award – Beyond Standards
  - Next?
- Tutorial
  - TSN tutorial proposed for development and release in 2022
  - TSN webinars
    - 802.1 – Sept 16 , TSN toolset – Dec 2, profiles – early 2022
- Presence at Industry Events
  - 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
  - 802.1 coordinator: Roger Marks
  - Status – Twitter, LinkedIn followers up
- **Maintaining web page**
  - https://1.ieee802.org/visibility/
  - tracking topics and status
  - drafting tweets for John D'Ambrosia
  - new topics welcome

IEEE Awards

Nominate a colleague!

- 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

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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 '23
802.1CQ	Multicast and Local Address Protocol	TG Ballot	TG Ballot	D0.7	TG Ballot	Dec '22
802.1ACct	support for 802.15.3	PAR Extension	SA Ballot	D2.0	RevCom	Dec '21
802.1ABcu	LLDP YANG	RevCom	RevCom	D2.3	Approval	Dec '21
802.1CBcv	FRER YANG & MIB	SA Ballot	SA Ballot	D2.1	RevCom	Dec '22
802.1Qcw	TSN (Qbu, Qbv, Qci) YANG	PAR Extension	WG ballot	D1.3	WG ballot	Dec '21
802.1Qcz	Congestion Isolation	SA Ballot	SA Ballot	D2.1	SA Ballot	Dec '22
60802 (DA)	TSN Profile for Industrial Automation	TG Ballot	TG Ballot	D1.3	TG ballot	Dec '22
802.1CBdb	FRER (CBcv) extensions	SA Ballot	SA Ballot	D2.1	RevCom	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	D0.5	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	SA Ballot	SA Ballot	D2.1	RevCom	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	D1.2	TG ballot	Dec '23
802f	EtherType YANG	WG Ballot	WG Ballot	D1.0	WG Ballot	Dec '23
802.1ASdm	Hot standby	TG Ballot	TG Ballot	D0.3	TG Ballot	Dec '24
802.1Q-REV	Bridges and Bridged Networks	SA Ballot	SA Ballot	D1.0	SA Ballot	Dec '24
802.1ASdn	Time Synch YANG	TG Ballot	PAR approved		Editor's draft	Dec '24
802.1DP	TSN Profile for Aerospace	TG Ballot	PAR approved		Editor's draft	Dec '24
802.1BA-rev	AVB Systems	RevCom	RevCom	D2.0	Approval	Dec '24
802.1AS/cor1	Timing and Synchronization corrigendum	SA Ballot	SA Ballot	D4.0	RevCom	Dec '24
802.1Qdq	Tspec	TG Ballot	PAR approved		Editor's draft	Dec '25
802.1ASdr	Inclusive Language	TG Ballot	PAR approved		Editor's draft	Dec '25
802.1ASds	half-duplex support	PAR Development	PAR Development		PAR Approval	

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
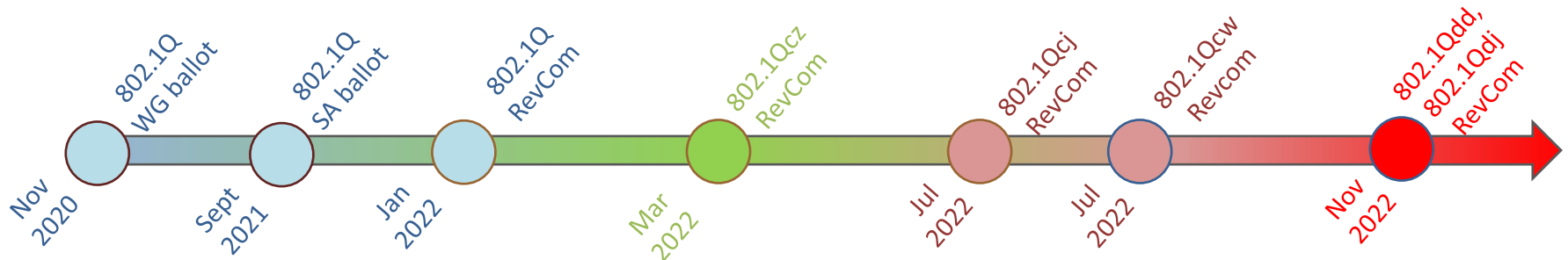- SA ballot

P802.1Qcj
- WG ballot

P802.1Qcw
- WG ballot

P802.1Qdd
- TG ballot

P802.1Qdj
- TG ballot

🔒 Locked on May 7, 2021
Amendments blocked until approval

Nov 2020 — 802.1Q WG ballot
Sept 2021 — 802.1Q SA ballot
Jan 2022 — 802.1Q RevCom
Mar 2022 — 802.1Qcz RevCom
Jul 2022 — 802.1Qcj RevCom
Jul 2022 — 802.1Qcw Revcom
Nov 2022 — 802.1Qdd, 802.1Qdj RevCom

Nendica status report

Excerpt from the Purpose of the approved ICAID

- Document emerging requirements and directions for IEEE 802 networks

- Encouraged topics include enhancements of IEEE 802 communication networks and vertical networks

- Topics concerning higher-layer applications related to new standards development in the IEEE 802.1 Working Group are also specifically expected and encouraged

CTF [per report 2021-09-16]

- *Cut-Through Forwarding in Bridges and Bridged Networks*
  - Initiated March 2021 <https://1.ieee802.org/nendica-ctf/>
- Tentative goals
  - Develop IEEE 802 Plenary tutorial on Cut-Through Forwarding (CTF)
  - Identify and analyze relevant technical elements in IEEE Std 802.3
  - Discuss administrative and technical aspects of potential lower layer modelling across IEEE 802.3 and IEEE 802.1 with support for CTF
  - Discuss contributions with input for PAR&CSD of a potential IEEE 802.1 project for standardizing CTF (standalone standard):
    - With support for *IEEE 802.3 compatible real implementations*
    - Incorporate lower layer model with support for CTF, if such a model becomes available during such a project.
- Consensus building
  - **Nendica consensus is that further discussion should be brought to the 802.1 WG or a Task Group.**
- Planned Presentations (tentative dates)
  - 23 Sept, IEEE WG 802.1: CTF forwarding timing in Industrial Automation
  - 24 Sept, IEEE WG 802.1: On CTF
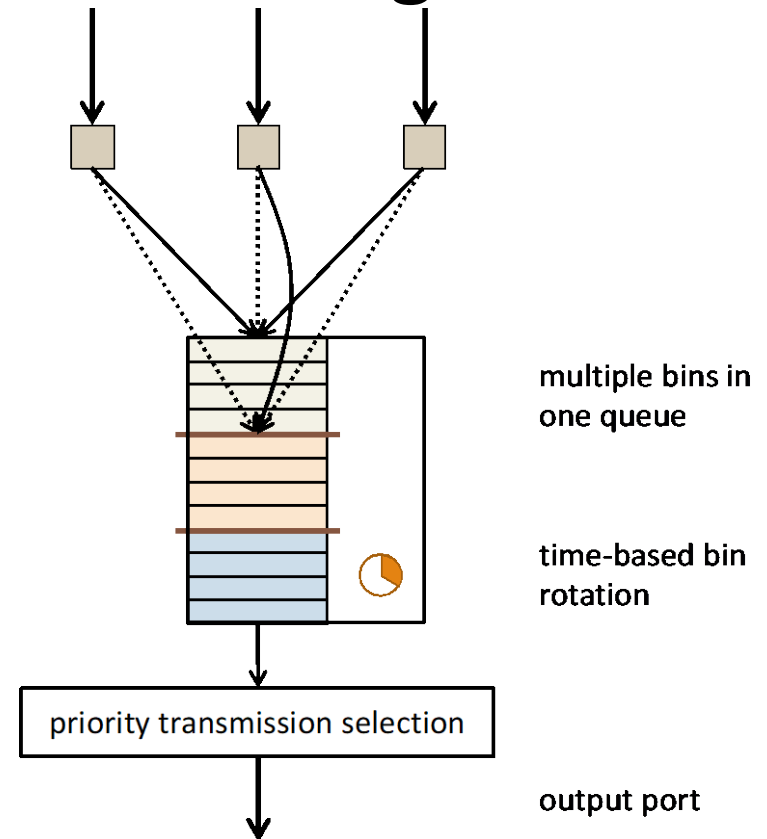
Evolved Link Layer Architecture [ELLA]

- Initiated July 2021 https://1.ieee802.org/nendica-ella/

- support IEEE 802 activities to revise IEEE Std 802 ("Overview and Architecture" of IEEE 802)

- plan to produce an informal report documenting:
  - Summary of aspects missing from current IEEE 802 Architecture
  - Potential benefits enabled by additional architectural details
  - Impact of new and evolving technologies on architecture
  - Architectural optimization in specific network environments
  - Possible standardization recommendations

- See:
  - Evolving IEEE 802 Architecture Requirements
    - https://mentor.ieee.org/802.1/dcn/21/1-21-0014-03-ICne.pdf
  - ELLA: What is the IEEE 802 Link Layer Service?
    - https://mentor.ieee.org/802.1/dcn/21/1-21-0045-02-ICne.pdf
  - ELLA: Proposed Aspects of IEEE Std 802 Revision
    - https://mentor.ieee.org/802.1/dcn/21/1-21-0060-04-ICne.pdf

PFC Headroom – per report 2021-09-16

- Contributions (January 2021 to present)
  - https://www.ieee802.org/1/files/public/docs2021/new-lv-adaptive-pfc-headroom-0121-v02.pdf
  - https://www.ieee802.org/1/files/public/docs2021/new-congdon-a-pfc-h-Q-changes-0521-v01.pdf
  - https://www.ieee802.org/1/files/public/docs2021/new-lv-adaptive-pfc-headroom-and-PTP-0602-v03.pdf
  - https://www.ieee802.org/1/files/public/docs2021/cz-finn-pfc-headroom-0629-v01.pdf
  - https://www.ieee802.org/1/files/public/docs2021/new-lv-PFC-Headroom-Project-Proposal-0721-v01.pdf https://mentor.ieee.org/802.1/dcn/21/1-21-0048-00-ICne-pfc-headroom-with-macsec.pdf
  - https://mentor.ieee.org/802.1/dcn/21/1-21-0050-00-ICne-pfc-enhancements-project-proposal.pdf
  - https://mentor.ieee.org/802.1/dcn/21/1-21-0052-00-ICne-pfc-enhancements-next-steps.pdf

- Goals:
  - Amendment to 802.1Q with limited changes to support the PFC auto-configuration and address errors/omissions
  - Clarify PFC propagation model and operation with MACSec
  - Revive July motion to develop PAR & CSD

- Planned presentations:
  - 24 Sept – TSN TG: PFC headroom proposal

- Status
  - Technical alternatives have been explored with agreement
    - Reuse PTP protocol to measure link delay
    - Update DCBX (using LLDP) to negotiate capability and convey internal processing delay
    - Define PFC shim layer to allow optional MACSec protection of PFC frames.
  - **Nendica consensus is that further discussion should be brought to the 802.1 WG or a Task Group based on the PAR description in 802.1-21-0052 (rev 00 or newer).**
    - https://mentor.ieee.org/802.1/dcn/21/1-21-0062-00 (2021-10-19)
    - https://mentor.ieee.org/802.1/dcn/21/1-21-0064-00 (2021-11-03)
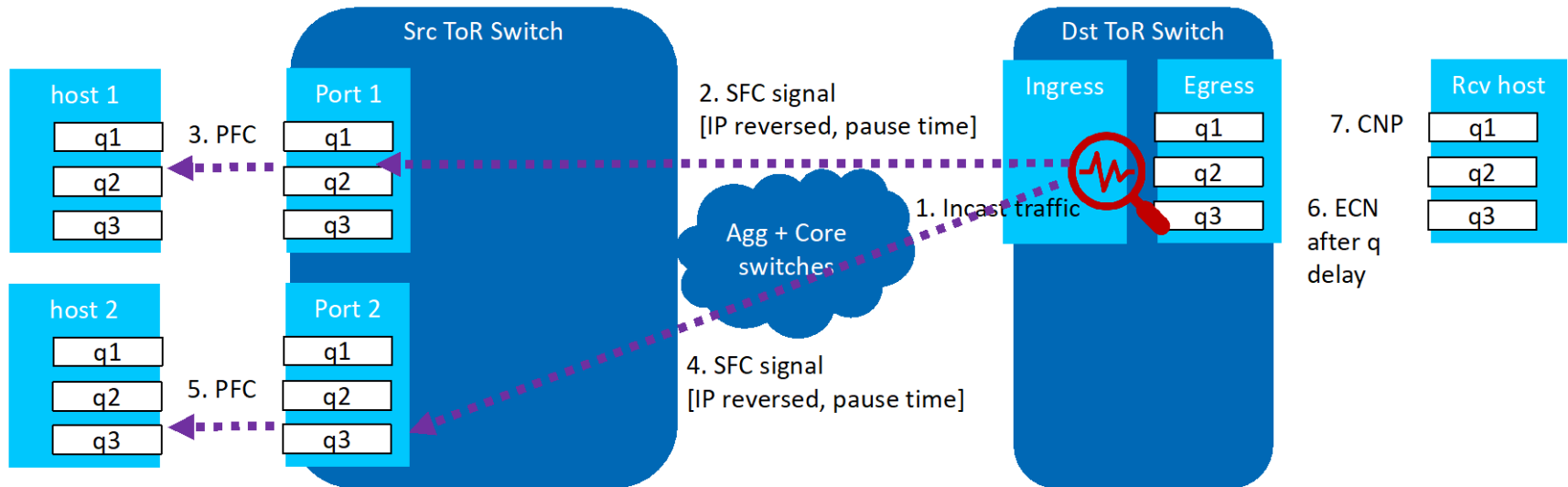
802.1 Topic: Pulsed Queuing

- Cyclic Queuing and Forwarding (CQF) is a TSN tool for bounded latency, per IEEE Std 802.1Qch-2017
- This topic would generalize CQF:
  - Increase bandwidth efficiency for high link delays.
  - Extend support for multiple traffic classes; multiple queues at different frequencies for different services.
  - Extend support for additional inter-device synchronization mechanisms.

multiple bins in one queue

time-based bin rotation

priority transmission selection

output port

- Contributions
  - new-specht-non-fifo-queues-0721-v01 (26 August)
  - new-finn-pulsed-queuing-0821-v03 (26 August)
  - new-yizhou-small-cycle-impact-0914-v01 (16 Sep)
  - https://mentor.ieee.org/802.1/dcn/21/1-21-0056-00 (2021-09-22)
  - https://mentor.ieee.org/802.1/dcn/21/1-21-0059-01 (2021-09-27 & 10-28)
  - https://mentor.ieee.org/802.1/dcn/21/1-21-0065-00 (2021-11-04)

802.1 Topic: Source (remote) PFC

- Pause congestion-creating flows directly at the source
- Useful in low-latency Ethernet networking environments such as large-scale data center networks
- See:
  - https://mentor.ieee.org/802.1/dcn/21/1-21-0055-00 (2021-09-15)
  - https://mentor.ieee.org/802.1/dcn/21/1-21-0061-00 (2021-10-12)
  - https://mentor.ieee.org/802.1/dcn/21/1-21-0067-00 (2021-11-04)

802.1 plenary session electronic meeting schedule

ET Start	ET End	Monday Nov 8	Tuesday Nov 9		Wednesday Nov 10		Thursday Nov 11		Friday Nov 12		PT Start	CET start	JST start	Monday Nov 15		Tuesday Nov 16
09:00	09:30	Opening plenary	TSN P802.1DG		TSN P802.1DP		TSN	Nendica	TSN		06:00	15:00	23:00	TSN		Closing plenary meeting
09:30	10:00										06:30	15:30	23:30			
10:00	10:30										07:00	16:00	00:00			
10:30	11:00										07:30	16:30	00:30			
11:00	11:30			Security		Security					08:00	17:00	01:00		Security	
11:30	12:00	TSN 60802	TSN 60802		TSN 60802		TSN	TSN 60802	TSN	TSN 60802	08:30	17:30	01:30	TSN 60802		
12:00	12:30										09:00	18:00	02:00			
12:30	13:00										09:30	18:30	02:30			
13:00	13:30										10:00	19:00	03:00			
13:30	14:00	802.1 orientation									10:30	19:30	03:30			
14:00	14:30		Mainte-nance		TSN		TSN	YANGsters	Mainte-nance		11:00	20:00	04:00	Mainte-nance		
14:30	15:00	TSN									11:30	20:30	04:30			
15:00	15:30										12:00	21:00	05:00			
15:30	16:00										12:30	21:30	05:30			
16:00	16:30										13:00	22:00	06:00			

802.1 Leadership meetings

- Every Thursday – 11:00 ET
  - Since February 2020 to manage current shift to electronic sessions
- Editors' meetings
  - 11:00 ET - Thursday after each session (Dec 2nd)
  - Sharing of best practices by editors
- Additional leadership – Nov 16th 12:30 ET
  - Prepare PAR responses, EC consent agenda for Nov 19th EC meeting

Logistics Orientation

- Nov 8th 13:30 ET

- Agenda
    - WG structure
    - Participants
    - Documents
    - Schedules & Attendance
    - Agendas & Minutes
    - Voting

SBS DirectVoteLive™

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, 12th & 15th November, 2021 – 14:00 ET

- **Tuesday – 09th November, 2021 – 2PM ET**
  - 802.1BR expiration – Paul Congdon
  - Review of motions – Paul Congdon
  - Review 802 PARS under consideration – Paul Congdon
    - 802.3df – Amendment: Media Access Control Parameters, Physical Layers and Management Parameters for 200 Gb/s, 400 Gb/s, 800 Gb/s, and 1.6 Tb/s Operation, PAR and CSD
    - 802.11bb – Amendment: Light Communication, PAR Modification, and CSD
    - 802.15ma – Standard for High Data Rate Wireless Multi-Media Networks – Revision to IEEE Standard 802.15.3-2016, PAR and CSD
  - P802.1ASdr Editor's update – Silvana Rodrigues
  - SC6 Status – Karen Randall
  - Liaisons – Karen Randall
    - ITU-T SG15 LS 312: OTNT Standardization Work Plan Issue 29
    - MoCA specifications: MAC/PHYv2.0 and MAC/PHYv2.5
    - SC6 ballot comment responses
  - P802.1Q-Rev/D1.0 Comment Resolution – Mick Seaman
  - Any Other Business
- **Friday – 12th November, 2021 – 2PM ET**
  - P802.1Q-Rev/D1.0 Comment Resolution – Mick Seaman
  - Existing Maintenance Items
  - Any Other Business
- **Monday – 15th November, 2021 – 2PM ET**
  - P802.1Q-Rev/D1.0 Comment Resolution – Mick Seaman
  - Existing Maintenance Items
  - Any Other Business

Online Detailed Agenda

Agenda – Security

1. Meeting introduction

2. Approval of agenda

3. P802.1AEdk MACsec Privacy Protection

   - Draft development

   ➢ **Tuesday 9 Nov 11:00-13:00, Wednesday 10 Nov 11:00-13:00,**
     Monday 15 Nov 11:00-13:00 [Eastern Time]

4. IEEE Std 802.1AE MAC Security – Maintenance items

   - Identification of items for maintenance

5. Liaisons

   - As and if required, potential future liaisons

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

7. Future meetings/teleconferences

IEEE 802.1 TSN TG Agenda

IEEE 802 Plenary, November 8-16, 2021

ET Start	ET End	Monday Nov 8	Tuesday Nov 9	Wednesday Nov 10	Thursday Nov 11		Friday Nov 12		PT Start	CET Start	JST Start	Monday Nov 15	Tuesday Nov 16
9:00	9:30	Opening plenary	TSN - P802.1DG Contents & timeline	TSN - P802.1DP/AS6675 Cooperation process, Bridge Policing and Stream Isolation Requirements, End System Traffic Shaping	TSN outgoing liaisons, P802.1ASdm		TSN P802.1Qdq, UNI extensions, StrictPriorityRA Class		6:00	15:00	23:00	TSN One TSN, PFC headroom, P802.1ASdm, Maint Item #332 on 802.1AS	Closing plenary
9:30	10:00								6:30	15:30	23:30		
10:00	10:30								7:00	16:00	0:00		
10:30	11:00								7:30	16:30	0:30		
11:00	11:30	recess	recess	recess	recess		recess		8:00	17:00	1:00	recess	
11:30	12:00	TSN - IEC/IEEE 60802 Status updates, 802.1AR adoption, CNC UNI NETCONF over TLS	TSN - IEC/IEEE 60802 Definition and the layout of IA-stations, comment resolution	TSN - IEC/IEEE 60802 Time Sync Error Analysis & Modelling	TSN P802f, P802.1DC, pulsed queues	TSN - IEC/IEEE 60802 ClockTarget & ClockSource	TSN P802.1ASds PAR & CSD, P802.1ASdm	TSN - IEC/IEEE 60802 NETCONF subscriptions &YANG Push	8:30	17:30	1:30	TSN - IEC/IEEE 60802 Boundary Port Isolation, comment resolution	
12:00	12:30								9:00	18:00	2:00		
12:30	13:00								9:30	18:30	2:30		
13:00	13:30								10:00	19:00	3:00		
13:30	14:00	802.1 orientation		recess	recess				10:30	19:30	3:30		
14:00	14:30								11:00	20:00	4:00		
14:30	15:00	TSN liaisons, motions, P802.1CBdb, P802.1ASdm		TSN resource engineering, CTF	TSN P802.1CQ liaison, P802.1ASdm				11:30	20:30	4:30		
15:00	15:30								12:00	21:00	5:00		
15:30	16:00								12:30	21:30	5:30		
16:00	16:30								13:00	22:00	6:00		

- TSN TG agenda details are available at: https://1.ieee802.org/2021-11-plenary-tsn-agenda/ (see also the 802.1 WG schedule)
- Note that the TSN TG agenda may change, e.g., depending on progress

Nendica Plan

- Thu, Nov 11, 09:00-11:00 ET

- Detailed agenda:

  - https://1.ieee802.org/802-nendica-agenda-2021-11-11/

  - Study Item: *Cut-Through Forwarding in Bridges and Bridged Networks [CTF]*

  - Study Item: *Evolved Link Layer Architecture [ELLA]*

  - 802.1 Topics

    - *"Topics concerning higher-layer applications related to new standards development in the IEEE 802.1 Working Group are also specifically expected and encouraged."*

    - *Pulsed Queuing and Multi-CQF*

    - *Source (Remote) PFC*

    - *PFC Headroom* (completed)

YANGsters Status
November 2021 802.1 Plenary Session

- YANGsters site
  - https://1.ieee802.org/yangsters/
- YANGsters agendas
  - https://1.ieee802.org/category/yangsters-agenda/
- Activities
  - Held 13 regular YANGsters calls since end of July 2021 and one two-hour call during the 802.1 interim in September 2021
  - Git and GitHub guidance updated
  - Tooling examples with yanglint (libyang)
  - Support of P802.1Qrev modifications, P802.1CBcv, and P802.1CBdb
- Response to incoming liaison from ETSI

- Motion for weekly meetings to begin 23 November 2021

Any other business?