

802.1 Plenary – November 2019

Waikoloa, Hawaii, USA

Opening Agenda

Glenn Parsons – IEEE 802.1 WG Chair
glenn.parsons@ericsson.com

Thanks again!

- And especially to those acting during your chair's second unanticipated absence
 - John Messenger
 - Jessy Rouyer

802.1 plenary agenda

Monday opening

- [Call for Patents](#)
- Participation [guidelines](#)
- Administrative
- Membership status
- Future Meetings
- 802 reports
- Elections
- Sanity check – current projects
- Incoming Liaisons
- TG agendas

Thursday closing

- [Call for Patents](#)
- Participation [guidelines](#)
- Membership status
- Future Meetings
- 802 reports
- Sanity check – current projects
- TG reports
- Outgoing Liaisons
- Motions for EC
- Motions for 802.1

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**

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).

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>

Task Group Patent policy announcements

□ TG Chairs please note:

- At the start of each TG meeting, TG Chair needs to perform the Call for Patents AND the Copyright Policy as per the previous slides.
- During the rest of the week, please announce each morning that the meeting is subject to the Patent Policy and Copyright Policy as read and displayed at the opening of the TG meeting.
- If there are any responses to the patent call, 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 to:

<https://standards.ieee.org/ipr/index.html>

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)
- Photography or recording by permission only (SASB Ops Manual 5.3.3.2)
- Cell phone ringers off please

Security issues

- **Please wear your badge** when in the meeting areas of the hotel
- This will help the hotel security 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

General information on 802.1...

- 802 - Newcomer's Session – Monday 9AM-10AM- King's 1 – Jessy
 - <https://mentor.ieee.org/802-ec/dcn/19/ec-19-0098-01-00EC.pdf>
- 802.1 Newcomers orientation:
 - <http://www.ieee802.org/1/files/public/docs2018/tsn-farkas-intro-0318-v01.pdf>
 - <http://www.ieee802.org/1/files/public/docs2018/detnet-tsn-farkas-tsn-overview-1118-v01.pdf>
 - <http://www.ieee802.org/1/files/public/docs2018/detnet-tsn-farkas-tsn-basic-concepts-1118-v01.pdf>
- Minutes
 - <https://1.ieee802.org/category/current-and-former-sessions/>
- Meeting contributions
 - <http://ieee802.org/1/filenaming.html>
 - Please upload BEFORE presentation
- Meeting information and attendance:
 - Schedule: <http://schedule.802world.com/>
 - Attendance: <http://imat.ieee.org> (8 of 11 base sessions) (> 75%))¹⁸

Logistics

- WiFi *Turn off your hotspot*
 - SSID: IEEE802 WPA2 Password: ieeeieee
- 2020 Standards distribution at registration
 - Digital Download from local site s(1.4Gb)
 - “40th Anniversary” USB Memory Stick
- Food & Beverage - Grand Promenade & Lagoon Lanai ***Friday poll***
 - Continental Breakfast 7:30 AM to 8:30 AM
 - Morning Coffee/Tea 10:00 AM to 11:00 AM
 - Lunch 12:00 PM to 1:30 PM
 - Afternoon Coffee/Tea/Snacks 3:00 PM to 4:00 PM
- Dolphin Quest show – Tuesday 7:35am - Lagoon
- Social Event
 - [Tickets](#) are available for \$24.99
 - Wristbands and drink tickets will be distributed Wednesday
 - casual reception with Hawaiian entertainment.
 - Date: Wednesday November 13th -- 6:30 PM – 8:30 PM
 - Place: Kamehameha Court (Hilton Waikoloa)
- Event updates
 - Twitter @IEEE802 Schedule: <http://schedule.802world.com/>
 - Local server: <http://ieee802.linespeed.io/>

802.1 officers

□ Officers

- Chair: Glenn Parsons
- Vice Chair: John Messenger
- Recording Secretary: Jessy Rouyer
- Security TG Chair: Mick Seaman
- 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
- Maintenance TG chair: Paul Congdon
- Nendica chair: Roger Marks
- YANGsters chair: Scott Mansfield
 - YANGsters vice-chair and secretary: Stephan Kehrer
- Maintenance of website: Paul Unbehagen
- Maintenance of Email exploder: Hal Keen & Mark Hantel

□ Website

- <http://www.ieee802.org/1/>

Affiliation

- You must declare your affiliation(s) which includes employer(s)
 - In meetings
 - F2F meeting registration system
 - myProject system for IMAT attendance
 - Conference call (e.g., join.me) 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 the information up-to-date

Voting Membership

- Voting membership in 802.1 is a privilege that holds a responsibility to review drafts and vote on WG ballots.
- You must actively request to become a member and take on this responsibility
 - Email WG Chair and WG Secretary
- Ongoing retention of 802.1 voting rights is predicated on active participation
 - Attendance and Working Group ballots

Responding to WG ballots

- ❑ To retain your voting membership, you must return 2 out of the last 3 WG ballots (including E-Polls).
- ❑ When you return your vote on a TG/WG ballot, you must use the correct mailing list and subject line, as specified in the email instructions.
 - 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 chair that you wish to become a voter again.

The following are 802.1 voters (62):

Ademaj, Astrit
Assmann, Ralf
Bierschenk, Jens
Boiger, Christian
Bottorff, Paul
Chen, Feng
Cheng, Weiying
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
Holness, Marc

Itaya, Satoko
Ito, Yoshihiro
Karl, Michael
Kehrer, Stephan
Kelsey, Randy
Koto, Hajime
Lawlis, James
Mangin, Christophe
Mansfield, Scott
Maruhashi, Kenichi
McMillan, Larry
Messenger, John
Mustala, Tero
Myers, Roy
Ohsawa, Tomoki
Ohue, Hiroshi
Pannell, Donald R
Parsons, Glenn
Potts, Michael
Qiu, Wei
Randall, Karen

Riegel, Maximilian
Rouyer, Jessy V
Sato, Atsushi
Schewe, Frank
Seaman, Michael
Seewald, Maik
Specht, Johannes
Stanica, Marius
Steindl, Guenter
Wang, Xinyuan
Wang, Tongtong
Wang, Hao
Weber, Karl
Weis, Brian
Winkel, Ludwig
Woods, Jordon
Yamaura, Takahiro
Zein, Nader
Zinner, Helge
Zweck, Harald

The following have lost their voting membership through lack of qualifying attendance credit:

None

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

(multiple voters have been issued warnings)

The following will become voting members when/if they show up here this week:

Zhao, William

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

Anderson, Ben

Arokkiam, Jerome

Canchi, Radhakrishna

Chang, Xin

Chen, David

Chen, Lihao

Chou, Vincent

DeLaOlivaDelgado,

Antonio

Ellegaard, Lars

Fincher, Scott

Gravel, Mark

Gray, Eric W

Harima, Taro

Hasegawa, Akio

Hemmer, David

Hopf, Daniel

Hotta, Yoshifumi

Joung, Jinoo

Katsalis, Kostas

Kim, Ryangsoo

Kondo, Kenji

Kondo, Yoshihisa

McCall, David

Nakano, Hiroki

Natarajan, Sriram

Noseworthy, Bob

Osagawa, Daisuke

Osuga, Toru

Petre, Razvan

Proell, Dieter

Sivakolundu, Ramesh

Soeda, Tatsuo

Tarui, Isao

Traore, Karim

Wamsser, Reiner

Wood, Graeme

Yoo, Hark

Yu, Xiang

Yu, Yi

Zhang, Jiayi

Zuponcic, Steven

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

none

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.

802.1 website update

- WordPress on IEEE server
 - <http://1.ieee802.org>
 - Paul Unbehagen is leading
- Phase I – 2017-2019
 - consolidate current web pages/servers
 - distribute page change control to TG chairs and project editors, but use a common style
 - deploy plugins for calendars, agenda, etc.
- Phase II – 20??
 - move document storage to (new) Mentor

Future interim meetings

- Jan 20-24, 2020 (workshop Jan 25)
 - Geneva, CH, hosted by 802.3/ITU-T/Nokia
- May 18-22, 2020
 - Pasadena, CA, USA hosted by [Ethernet Alliance](#)
- September 21-25, 2020
 - Stuttgart [proposal](#)
- 2021 proposals welcome

January 2020 Interim Meeting

IEEE 802.1 and 802.3

- Hosts: International Telecommunication Union (ITU), IEEE 802.3, Nokia
- Dates: 20-24 January 2020
- Location: ITU Headquarters (Geneva, Switzerland)
- Meeting Fee: None (but you buy your own breakfast, coffee)
 - There will be a registration link to get an access badge
- No designated meeting hotel: you are free to use:
 - Any of the ITU negotiated rates:
<http://www.itu.int/travel/index.html>
 - Your company negotiated hotel deals
 - Your favorite travel website

Jan 2020:

Adjacent and Related Meetings

- Joint IEEE 802.1, 802.3 and ITU-T Study Group 15 Workshop
Saturday, 25 January 2020. Topics expected to include:
 - High Speed and Long-Reach Optical Interfaces (IEEE P802.3cu, P802.3cw, P802.3ct, ITU-T Q6/15, Q11/15)
 - Passive Optical Networking (IEEE P802.3ca, P802.3cp, P802.3cs, ITU-T Q2/15)
 - 5G Mobile Transport (IEEE 802.1CM, P802.3cx, ITU-T Q2/15, Q11/15, Q13/15)
 - YANG and data modeling
- ITU-T Study Group 15 Plenary Meeting – 27 January-7 February 2020

Future plenaries

- 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 (to be confirmed)
- November 14-19, 2021 – Vancouver, Canada
 - Hyatt Regency Vancouver only

LMSC elections

□ March 2020

- All 802 leadership positions open

□ Candidates

- 802 chair will stand for re-election
 - appointments may change
Vice chairs, Secretary, Treasurer, Exec Secretary
 - Talk to the 802 chair if you are interested
- 802.1 chair and vice-chair will stand for re-election
 - Appointments may change
executive secretary, marketing, webmaster, etc.
 - Talk to the 802.1 chair if you are interested

802 EC report – Plenary #123

- SA staff are available this week
 - Jodi Haasz (802.1 program manager) and Catherine Berger (802.1 editorial)
- 802 leadership in SASB & BOG
- 40th Anniversary of IEEE 802 – March 2020 ([EC-19-194](#))
 - Public outreach: web site, videos, article placements, marketing ads
 - Georgia Aquarium social event
- 802 Task Force
 - Agenda: Tools & Framemaker licenses
 - December teleconference
- P&P, OM & CG change proposals (EC-19-183)
 - Update Standards Committee P&P
- Venues (EC-19-193)
- Treasurer ([EC-19-186](#))
 - Reserves \$1.2m, rising slowly
 - \$300k loss in Vienna
 - This meeting: less than 700 registrations, anticipate \$100k loss.

Terminology

- SASB has updated the terminology in response to confusion over the term “sponsor”
 - Sponsor ballot -> Standards Association (SA) ballot
 - Sponsor -> Standards Committee
- LMSC sponsor -> LMSC

Electronic meeting tools

- Provided by IEEE-SA for 802.1 WG
 - [Join.me](#)
 - New meeting owner mailing list 8021-chair@ieee.org
- One year trial provided by LMSC
 - [WebEx](#)
 - 4 seats, each capable of supporting 100 participants
 - [Zoom](#)
 - 1 seat, capable of supporting up to 500 participants
 - Shared for all WGs, booking is first come first serve

myProject status

1. convert myProject from PERL to Java
 - Volunteer testing Dec 2-6
 - Go live decision Dec 13th (iff ... no more problems)
 - Cutover Jan 27 - Feb 2
 - Last day to open SA ballot is Dec 27th
 - Last day for recirc is Jan 16th
 - First day for new system is Feb 3rd
2. Feature Enhancement
 - IEEE-SA BOG expected to add a change control process for new features in 2020
3. MENTOR and IMAT conversion from PERL
 - Exploring COTS options

EC meetings this week

Sun 19:30-21:30 LMSC Rules review

Mon 08:00-10:00 Opening Executive Committee meeting

Tue 13:30-15:30 802/JTC1/SC6 Standing Committee

Tues 16:00- 18:00 802/ITU Standing Committee

Thu 07:30-08:00 Next venue space planning

Thu 08:00-09:00 Future venue planning

Thu 09:00-10:00 802 Chair's Open Office hour

Fri 13:00-18:00 closing Executive Committee meeting

IEEE Open Source offering

□ Summary

- [IEEE Open Source offering](#) (with Contribution License Agreement)
- [CAG update on open source activity](#)
- BOG & SASB approved new open source rules
 - BoG Open Source Operations Manual
 - Open Source Maintainers Manual
 - IEEE Open Source Platform
 - SASB Bylaws & OpsMan (with open source)

□ IEEE 802 [view](#)

- Maintain option of current process – **re-confirmed**
 - [YANG process](#) - source code (YANG, MIB, etc) can be developed as part of the standards process, but NOT called open source
- Interest with open source use in standards (e.g., YANG program, simulations)
 - Discuss in YANGsters

Public Review

- Since on 6 July 2015, all eligible projects where a SA ballot is initiated will also have a Public Review period initiated simultaneously.
 - <https://publicreview.standards.ieee.org>
 - Staff will transfer any comments to myBallot
- Status
 - No comments yet
 - Upcoming open public review
 - IEEE P802.1Qcx
 - IEEE P802.1AE-2018/Cor 1
 - IEEE P802.1CMde
- Questions? [FAQ](#)

Email ballots (ePoll)

- None

PARs this week

- 802.1 PARs
 - 802f Amendment : YANG Data Model for EtherTypes, [PAR](#) and [CSD](#)
 - 802.1AEdk Amendment: MAC Privacy protection, [PAR](#) and [CSD](#)
 - 802.1CS Standard - Link-local Registration Protocol, [PAR modification](#) and [CSD](#)

P802f liability concerns

- IEEE-SA risk management and legal have no concerns, but have recommendations
- Recommendation for PAR
 - inclusion of an initial list of acronyms
 - inclusion of an initial list of short description/protocol names for EtherTypes
 - inclusion of a short list of EtherTypes
 - inclusion of a YANG model with these
- Recommendation for RA/RAC
 - Update RA database to include acronym & short description (or protocol name)
 - Update application to allow customers to self-declare these going forward (and the RA/RAC would ensure uniqueness)

PARs this week – 2/2

□ Other WG PARs:

- 802.3ct -Amendment - 100 Gb/s Operation over DWDM systems, [PAR modification](#) and [CSD modification](#)
- 802.3cw - Amendment - 400 Gb/s Operation over DWDM systems, [PAR](#) and [CSD](#)
- 802.3cx - Amendment - Improved Precision Time Protocol (PTP) timestamping accuracy, [PAR](#) and [CSD](#)
- 802.15.7a - Amendment - Defining High Data Rate Optical Camera Communications (OCC), [PAR](#) and [CSD](#)
- 802.16t - Amendment - Fixed and Mobile Wireless Access in Channel Bandwidth up to 100 kHz, [PAR](#) and [CSD](#)

802 Industry Connections

- IEEE 802 Network Enhancements for the Next Decade
 - **NENDICA**
 - Authorized until March 2021
 - This group is being run as a [subgroup](#) of 802.1
 - The chair of this Industry Connections activity is
 - Roger Marks
 - Renewed by SASB on March 21st, 2019
- Scope
 - This activity will assess emerging requirements for IEEE 802 based communication infrastructures, identify commonalities, gaps, and trends not currently addressed by IEEE 802 standards and projects, and facilitate building industry consensus towards proposals to initiate new standards development efforts.

Tutorials - Monday

There are no tutorials

Liaisons within 802

- Joint meetings with other WGs
 - 802.15.3/802.1ACct during Maintenance
 - 802.24 on low latency 802 networks
- YANGsters
 - Tuesday 18:00 – 19:30
- IEEE 802 JTC1 standing committee meetings
 - Tuesday 13:30 – 15:30
- IEEE 802 IETF standing committee (EC-19-187)
 - Not meeting this week, last call Oct 16th
 - <https://www.iab.org/activities/joint-activities/iab-ieee-coordination/>
- IEEE 802 ITU standing committee
 - Tuesday 16:00 – 18:00

Incoming Liaisons

□ TSN

- [LNI 4.0](#) – MSRP enhancement
- [LNI 4.0](#) – Stream reservation
- [LNI 4.0](#) – draft sharing
- [ITU-T SG15](#) – P802.1Qcx modelling

□ Maintenance

- [ITU-T SG15](#) – OTNT workplan

Potential Outgoing Liaisons

- Maintenance
 - ITU-T IMT-2020 JCA
- Previously approved liaisons that were not sent due to draft sharing issues, and may need updating
- Draft sharing requires organizations to be on IEEE-SA approved draft sharing list
- Shared drafts require a custom cover page including:
 - Name of the Liaison Organization
 - Liaison Organization Contact Person
 - Group within the Liaison Organization (if applicable)
 - Physical address of the Liaison Organization here
 - Purpose: Request for comments or Technical coordination

Sanity check – current workload

Project	Short Title	Last Motion	Status	Draft	Next Action
60802	TSN for Industrial Automation	TG Ballot	TG Ballot	D1.1	TG Ballot
802.1ABcu	LLDP YANG	WG Ballot	TG Ballot	D0.6	WG Ballot
802.1ABdh	LLDPv2	NesCom	PAR Approved		EditorsDraft
802.1ACct	Support of 802.15.3	TG Ballot	PAR Approved		TG Ballot
802.1AE-2018/Cor-1	TCI Figure	WG Ballot	WG Ballot	D1.0	SA Ballot
802.1AS-REV	Time synch enhancements	PAR Modification	SA Ballot	D8.3	RevCom
802.1AX-REV	Link Aggregation	SA Ballot Conditional	SA Ballot	D2.1	RevCom
802.1CBcv	FRER YANG & MIB	TG Ballot	EditorsDraft	D0.1	TG Ballot
802.1CBdb	FRER Extended Stream-ID	TG Ballot	TG Ballot	D0.3	TG Ballot
802.1CMde	TSN for Fronthaul - Enhancements	WG Ballot	WG Ballot	D1.2	SA Ballot
802.1CQ	Local Address protocol	TG Ballot	EditorsDraft	D0.3	TG Ballot
802.1CS	LRP	PAR Modification	WG Ballot	D2.3	WG Ballot
802.1DC	QoS for non-bridges	TG Ballot	TG Ballot	D1.1	TG Ballot
802.1DF	TSN Profile for Service Provider Networks	PAR Approved	PAR Approved		Editor's Draft
802.1DG	TSN Profile for Automotive	TG Ballot	TG Ballot	D1.1	TG Ballot
802.1Qcj	Auto Attach to PBB	WG Ballot	WG Ballot	D1.1	WG Ballot
802.1Qcr	Asynchronous Traffic Shaping	PAR Modification	WG Ballot	D1.3	WG Ballot
802.1Qcw	TSN (Qbu, Qbv, Qci) YANG	WG Ballot	TG Ballot	D0.4	WG Ballot
802.1Qcx	CFM YANG	WG Ballot	WG Ballot	D1.5	SA Ballot
802.1Qcz	Congestion Isolation	TG Ballot	TG Ballot	D0.3	TG Ballot
802.1Qdd	Resource Allocation Protocol	TG Ballot	TG Ballot	D0.1	TG Ballot
802.1Qdj	TSN configuration enhancements	NesCom	PAR Approved		Editor's Draft
802.1X-REV	Port-based Network Access Control	SA Ballot	SA Ballot	D1.5	RevCom
802E	Privacy	WG Ballot	WG Ballot	D1.6	SA Ballot
802.1AEdk	MAC Privacy protection	PAR Development	PAR Development		NesCom
802f	EtherType YANG	PAR Development	PAR Development		NesCom

Promotion

- IEEE-SA marketing collateral
 - [TSN automotive](#), [TSN industrial](#)
 - TSN trademark
- Issue press releases or eBlasts
 - Start of PAR, Final approval, etc. -- Editors are asked to propose...
 - Next: 802.1ABdh
- Presence at Industry Events
 - IEEE Communications Standards Magazine, June 2018
 - [TSN Feature Topic](#) & [Introduction](#) to 7 articles in the feature topic
 - Next on Industrial or Automotive?
 - [TSN/A](#) – Bad Homburg, 8-9 October 2019
 - Several presentations and booth
 - IEEE-SA Ethernet & IP - Automotive Technology Day, 24-25 Sept 2019
 - ISPCS – 22-27 September 2019

TSN/A Conference 2019

Bad Homburg, October

IEEE-SA as Lead Exhibitor

802.1 participants

Presenters

- János Farkas
- Mark Hantel
- Stephan Kehrer
- Alon Regev
- Ludwig Winkel
- Harald Zweck



Technical Program Committee

- János Farkas
- Stephan Kehrer
- Günter Steindl
- Helge Zinner

IEEE 802 Promotion @ ISPCS 2019

- 100+ Attendees
- Promoted IEEE 802.1 and 1588 working groups and how to get involved
 - Sponsor Table with literature
 - Brief Sponsor Presentation
- Provided an overview of the IEEE-SA Conformity Assessment Program (ICAP) & its current status
 - Power Profile Pilot Program
 - Benefits and Purpose of Certification



September 22-27, 2019 | Portland, Oregon, USA

ISPCS 2019

International IEEE Symposium on Precision Clock Synchronization
for Measurement, Control, and Communication



Standards Project Awards

- Offered to the chairs, Editor and significant contributors after publication
 - New process resulting from GDPR
- Up Next
 - 802.1CM-2018
 - 802.1Q-2018
 - 802.1Qcc-2018
 - 802.1Qcp-2018
 - 802.1AR-2018
 - 802.1Xck-2018
 - 802.1AE-2018
 - 802.1CF-2019
 - 802.1Qcy-2019

Motions for EC Consent Agenda

- For motions requiring EC action
 - PARs to NesCom
 - Drafts to Sponsor ballot
 - Drafts to RevCom
 - Liaisons to government bodies
- EC required supporting material must be sent to the WG chair before the motion is considered
 - Preferably in the motion slides

Motions for EC Consent Agenda

- [Motion Template](#)
- [Liaison Template](#)
- [Requesting Consent Agenda Items](#)
 - Must be sent to EC by noon Wednesday
 - 802.1AE-2018/Cor-1 to SA Ballot
 - 802.1AS-REV to RevCom
 - 802.1AX-REV to RevCom
 - 802.1CMde to SA Ballot
 - 802.1CS PAR Modification to NesCom
 - 802.1Qcx to SA Ballot
 - 802.1X-REV to RevCom
 - 802E to SA Ballot
 - 802.1AEdk to NesCom
 - 802f to NesCom
 - Liaisons (if available)
 - Items to PSDO for information
 - Items to PSDO for adoption
 - Ballot comment responses to PSDO

802.1 plenary schedule

V1	IEEE 802 PLENARY SESSION Waikoloa, HI, USA November 10-15, 2019																				
802.1 tracks and times																					
	SUNDAY	MONDAY				TUESDAY				WEDNESDAY				THURSDAY				FRIDAY			
07:00-07:30																					
07:30-08:00																					
08:00-08:30		Trk 1: TSN			EC	MTN TG				Trk 1 & 3: TSN & 60802			Trk 2 SEC	Trk 1: TSN	Trk 3: 60802	802 NENDICA	Trk 1 & 3: TSN & 60802				
08:30-09:00																					
09:00-09:30																					
09:30-10:00																					
10:00-10:30		Break				Break				Break				Break				Break			
10:30-11:00		Opening 802.1 plenary				Trk 1: TSN	Trk 2: SEC			Trk 1: TSN	Trk 3: 60802		Trk 2: SEC	Trk 1: TSN	Trk 3: 60802			Trk 1 & 3: TSN & 60802			
11:00-11:30																					
11:30-12:00																					
12:00-12:30																					
12:30-13:00		Lunch				Lunch (Chairs' Meeting)				Lunch				Lunch				Lunch			
13:00-13:30		Trk 1: TSN	Trk 2: SEC			Trk 1: TSN	Trk 2: SEC		JTC1 adhoc	Trk 1: TSN	Trk 3: 60802		Trk 2: SEC	Closing 802.1 plenary				Trk 1 & 3: TSN & 60802	Closing 802 EC		
13:30-14:00																					
14:00-14:30																					
14:30-15:00																					
15:00-15:30		Break				Break				Break				Break				Break			
15:30-16:00		Trk 1: TSN	Trk 2: SEC			Trk 1: TSN	Trk 2: SEC		ITU SC	Trk 1: TSN	Trk 3: 60802		Trk 2: SEC	Closing 802.1 plenary				Trk 1 & 3: TSN & 60802			
16:00-16:30																					
16:30-17:00																					
17:00-17:30																					
17:30-18:00	802.1 TG Chairs meeting	Break				Break				Break				Break				Break			
18:00-18:30						Break				YANGSTERS											
18:30-19:00																					
19:00-19:30																		KEY: TSN: Time Sensitive Netw'kg 60802: IEC/IEEE 60802 JP MTN TG: Maintenance TG SEC: Security			
19:30-20:00	LMSC rules review					802 NENDICA				Social event											
20:00-20:30																					
20:30-21:00																					
21:00-21:30																					
21:30-22:00																					
22:00-22:30																					

802.1 Management meetings

- Sunday – 6:30pm – 802.1 management meeting - TG chairs
 - Agenda finalization for Monday (including TG agendas)
 - Insanity slides update
 - EC Consent agenda motion development and finalization (NesCom, RevCom, Sponsor Ballot, SC6 – all with supporting information)
- Tuesday – 12:30pm – 802.1 management meeting – TG chairs + optionally editors
 - Agenda finalization for Thursday (including TG reports)
 - EC regular motion finalization (liaisons, other)
 - WG motions (calls, meetings, minutes, TG/WG ballots)
 - PAR issues

Sub group agendas

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

YANGsters meeting

- YANG across IEEE 802
 - Communication, Coordination, Mentoring
 - Point of Contact/Center of Expertise for IEEE 802
- November Agenda: meeting #29
 - Tuesday 18:00 – 19:30 – Room Kona 2
 - IPR Call
 - EtherTypes PAR/CSD
 - Units
 - Meta-Data
 - Discussion on Constraint Checking in YANG
 - More YANGsters calls motion in Hawaii
 - AoB

Agenda – Security

1. P802.1X-Rev Port-Based Network Access Control, D1.5 Sponsor recirc ballot resolution

- Disposition of comments (for final review) is at:
<http://www.ieee802.org/1/files/private/x-rev-drafts/d1/802-1X-Rev-d1-5-sponsor-recirc-dis.pdf>
Intent is to proceed to RevCom

➤ **Monday 2.00 pm**

2. P802.1AE-2018-Cor1

- Initial WG ballot passed with 100% Approve, Disposition of comments is at:
<http://www.ieee802.org/1/files/private/x-rev-drafts/d1/802-1X-Rev-d1-5-sponsor-recirc-dis.pdf>
Intent is to proceed to Sponsor Ballot

➤ **Monday 2.30 pm**

3. MACsec Privacy Protection (proposed P802.1AEdk)

- PAR and CSD development, discussion of supporting material, drafts
at:<http://www.ieee802.org/1/files/public/docs2019/dk-security-mac-privacy-PAR-0919-v02.pdf>
<http://www.ieee802.org/1/files/public/docs2019/dk-security-mac-privacy-CSD-0919-v00.pdf>

➤ **Monday 3.00 pm start, then as time permits**

4. P802E Privacy (Recommended Practice ... for 802..), D1.6 Working Group recirc resolution

- Initial disposition of comments is at:
<http://www.ieee802.org/1/files/private/802-e-drafts/d1/802E-d1-6-pdis01.pdf>
Ballot passed 97% Approve, 1 outstanding Disapprove
Intent is to proceed to Sponsor ballot

➤ **Tuesday 10.30 am, following maintenance**

5. A.O.B.

- Consideration of ISO/IEC JTC1 ballot comments on IEEE Std 802.1AR-2018 (tentative)

6. Future meetings/teleconferences

- Will meet during the January 2020 interim
- Teleconferences for .1X-Rev sponsor ballot resolution prior to P802.1AE Cor1 WG ballot resolution, P802E WG recirculation ballot resolution, MACsec Privacy Protection discussion

802.1 TSN TG Agenda

V2	IEEE 802 PLENARY SESSION Waikoloa, HI, USA November 11-15, 2019					
	802.1 Time-Sensitive Networking (TSN) TG					
	SUN	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY
07:00-07:30						
07:30-08:00						
08:00-08:30		P802.1AS-Rev	MTN	Whole TSN IEC/IEEE 60802 JP	Trk A: 60802 JP	Trk B: P802.1DG, STSBT
08:30-09:00						
09:00-09:30						
09:30-10:00						
10:00-10:30						
10:30-11:00		Break	Break	Break		
11:00-11:30		Opening 802.1 plenary	P802.1CBdb, P802.1Qdd	Trk A: 60802 JP	Trk B: P802.1CS PAR, P802f PAR	Whole TSN IEC/IEEE 60802 JP
11:30-12:00						
12:00-12:30						
12:30-13:00						
13:00-13:30						
13:30-14:00		Lunch	Lunch (Chairs' meeting)	Lunch	Lunch	Lunch
14:00-14:30		liaisons, motions, P802.3cx PAR, P802.1Qcx, P802.1Qcr, P802.1CS	P802.1DC, TSN Domain def, Seamless Ethernet, P802.1CQ	Trk A: 60802 JP	Trk B: P802.1Qcz,, Traffic Shapers	Closing 802.1 plenary
14:30-15:00						
15:00-15:30						
15:30-16:00						
16:00-16:30						
16:30-17:00						
17:00-17:30						
17:30-18:00						
18:00-18:30	Chairs' mtg	Ad-hoc contrib to IEC/IEEE 60802	YANGsters	Break		Whole TSN IEC/IEEE 60802 JP
18:30-19:00						
19:00-19:30						
19:30-20:00						
20:00-20:30						
20:30-21:00		802 NEND ICA	Social event			KEY: TSN: Time-Sensitive Ntwking 60802 JP: IEC/IEEE 60802 MTN: Maintenance TG
21:00-21:30						
21:30-22:00						
22:00-22:30						
22:30-23:00						

- Note that the TSN TG agenda is subject to change, e.g., depending on progress etc.
- TSN TG agenda details are available via: <http://www.ieee802.org/1/tsn-task-group-agenda>

Maintenance Task Group Meeting

November 12, 2019 – 8AM

Agenda

- Patents and Guidelines
- Attendees
- Document Vehicle Status
- Existing Maintenance items
 - YANGsters to discuss - 0242 - IEEE Std 802.1Qcp-2018: Collected issues on data consistency and others
- New Maintenance items
 - 0243 - Maintenance request on IEEE 802.1Q
 - 0244 - Minor maintenance item for 802.1Q
 - 0245 - Another small maintenance item for 802.1Q-2018
 - 0246 - IEEE Std 802.1Q-2018: Color-aware flow meters are color-blind
- Comment resolution
 - None
- Liaisons
 - SG15 liaison - http://www.ieee802.org/1/files/public/docs2019/liaison-SG15-LS216-OTNT_standardization_workplan-1019.zip
 - ITU-T IMT-2020 JCA liaison - <http://www.ieee802.org/1/files/public/docs2019/maint-haasz-itu-roadmap-report-1109-v01.pdf>.
- SC6 comment resolution
 - None
- SC6 status
- 802.1Acct update (802.15) – James Glib
- EPD and LPD topics – Roger Marks/Norm Finn

Nendica Plan

- Tue, 19:30-22:30; Thurs 08:00-10:00
- Detailed agenda:
 - <http://1.ieee802.org/802-nendica/agenda-ieee-802-nendica-meeting/>
- Key meeting topics:
 - Confirm approval of Flexible Factory IoT report
 - Study Item: Managed LAN as a Service
 - Lossless Network for Data Centers: possible revision
 - New Topics:
 - Deterministic Wireless
 - HPC Ethernet
 - Future meetings
 - Teleconferences
 - January meetings
 - 802.1 interim (Geneva)
 - Wireless interim (Irvine) possible

Nendica Work Item Schedule

Stage	LLDCN	FFIoT	MLaaS
	<u>Lossless Data Center Networks</u>	<u>Flexible Factory IoT</u>	<u>Managed LAN as a Service</u>
Study Item Proposal	-	-	<u>2019-07-18</u>
Study Item initiation	-	-	2019-07-18
Proposed Work Item, submitted to 802.1 WG for confirmation	-	-	2020-02-14?
Work Item Initiated	-	-	2020-03-19?
First Editor's Draft	2017-11-07	2018-01-10	
Final Editor's Draft	2018-02-28	2018-07-12	
Draft Nendica Report	2018-04-11	2018-08-03 2019- 03-20 2019-07-17	
Call for Comments	2018-04-13	2018-08-03 2019- 07-19	
Call for Comments completed	2018-05-13	2019-08-18	
Draft Nendica Report agreed by Nendica vote	2018-05-24	2019-08-28	
Draft Nendica Report, submitted to 802.1 for confirmation		2019-10-31?	
Draft Nendica Report, approved by 802.1 WG vote		2019-11-14?	
Published Nendica Report	<u>2018-08-17</u>	2019-11-22?	

Any other business?