IEEE 802.1

Closing Plenary
July 2020

Glenn Parsons – IEEE 802.1 WG Chair

glenn.parsons@ericsson.com

802.1 WG plenary agenda

Monday, July 13th opening

- Copyright Policy
- Call for Patents
- Participant behavior
- Administrative
- Membership status
- Future Meetings
- 802 EC report
- Elections process
- Sanity check – current projects
- TG agendas

Monday, July 20th closing

- Copyright Policy
- Call for Patents
- Participant behavior
- Membership status
- WG Election
- Future Meetings
- Sanity check – current projects
- TG reports
- Outgoing Liaisons
- Review of Motions for EC
- Review of Motions for 802.1
- Motions (if any)

802.1 plenary session electronic meeting schedule

EDT Start	EDT End	Monday July 13		Tuesday July 14		Wednesday July 15		Thursday July 16		Friday July 17	PDT start	CEST start	JST start	Monday July 20
9:00	9:30	Opening plenary		TSN P802.1DG		TSN 60802		TSN 60802	Nendica	TSN 60802	6:00	15:00	22:00	Closing plenary meeting
9:30	10:00										6:30	15:30	22:30	
10:00	10:30	TSN 60802									7:00	16:00	23:00	
10:30	11:00										7:30	16:30	23:30	
11:00	11:30	TSN			Security		Security				8:00	17:00	0:00	
11:30	12:00			TSN		TSN		TSN		TSN 60802	8:30	17:30	0:30	
12:00	12:30										9:00	18:00	1:00	
12:30	13:00										9:30	18:30	1:30	
13:00	13:30										10:00	19:00	2:00	Chairs' meeting
13:30	14:00		Security				Security				10:30	19:30	2:30	
14:00	14:30	TSN		Mainte-nance				YANGsters		802.1 orientation	11:00	20:00	3:00	
14:30	15:00										11:30	20:30	3:30	
15:00	15:30										12:00	21:00	4:00	
15:30	16:00										12:30	21:30	4:30	

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.

(Optional to be shown)

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

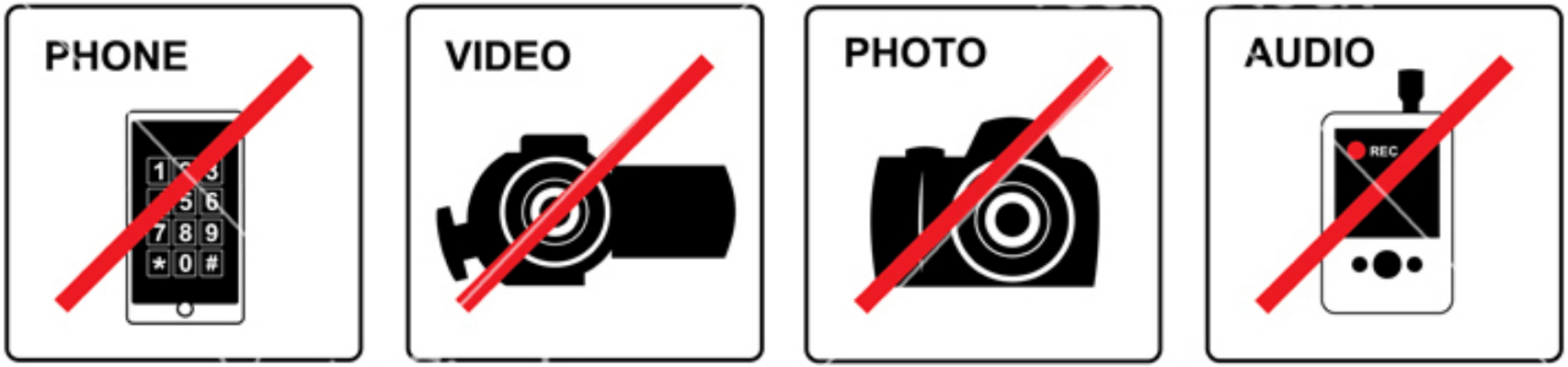
Participants in the IEEE-SA "*individual process*" shall act independently of others, including employers

- 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

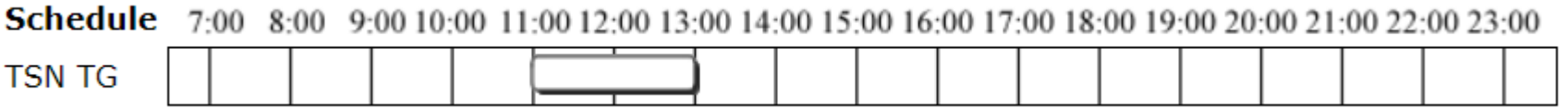


- **Press (i.e., anyone reporting publicly on this meeting) are to announce their presence** *(SASB Ops Manual 5.3.3.3)*
- **Video/Audio recording by participants is prohibited** *(SASB Ops Manual 5.3.3.2)*
- **Photography by permission only** *(SASB Ops Manual 5.3.3.2)*
- **Cell phone ringers off please**

REGISTER ATTENDANCE FOR MINUTES

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

- **This requires a free IEEE Account.**
- **Please sign up if you do not yet have an IEEE Account.**



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

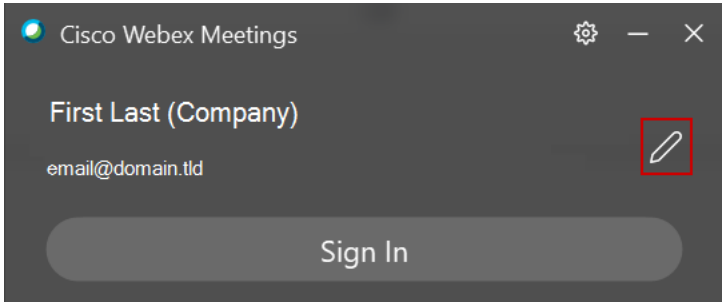
Step 1

- 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.

General Information

- Meeting contributions
  - http://ieee802.org/1/filenaming.html
  - Please upload BEFORE presentation
- Minutes
  - https://1.ieee802.org/category/wg-minutes/
- Schedule for all WGs
  - http://www.ieee802.org/802tele_calendar.html

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

Officers and Leadership

- Chair: Glenn Parsons
- Vice Chair : John Messenger
- 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: Paul Unbehagen

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 WG 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 mailing list and subject line, as specified in the email instructions (distributed on the Main 802.1 mailing list).
  - 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 WG Secretary that you wish to become a voter again.

The following are 802.1 voters (71):

Ademaj, Astrit
Assmann, Ralf
Boiger, Christian
Bottorff, Paul
Canchi, Radhakrishna
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
Henry, Jerome
Holness, Marc
Itaya, Satoko
Ito, Yoshihiro
Karl, Michael
Kehrer, Stephan
Kelsey, Randy
Koto, Hajime
Lawlis, James
Mangin, Christophe
Mansfield, Scott
Maruhashi, Kenichi
McCall, David
McMillan, Larry
Messenger, John
Mustala, Tero
Myers, Roy
Nakano, Hiroki
Noseworthy, Bob
Ohsawa, Tomoki
Ohue, Hiroshi
Pannell, Donald R
Parsons, Glenn
Potts, Michael
Proell, Dieter
Qiu, Wei
Randall, Karen
Riegel, Maximilian
Rouyer, Jessy V
Sato, Atsushi
Schewe, Frank
Seaman, Michael
Seewald, Maik
Sivakolundu, Ramesh
Specht, Johannes
Stanica, Marius
Steindl, Guenter
Traore, Karim
Varga, Balazs
Wang, Xinyuan
Wang, Tongtong
Wang, Hao
Weber, Karl
Weis, Brian
Winkel, Ludwig
Woods, Jordon
Yamaura, Takahiro
Yu, Xiang
Zein, Nader
Zhao, William
Zinner, Helge

The following became voting members this week:

Henry, Jerome
Sivakolundu, Ramesh
Varga, Balazs
Yu, Xiang

The following relinquished their voting membership this week:

Bierschenk, Jens
Zweck, Harald

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

Anderson, Ben
Chen, David
Fincher, Scott
Gravel, Mark
Han, Ruibo
Hasegawa, Akio
Hemmer, David
Hotta, Yoshifumi
Katsalis, Kostas
Kondo, Kenji
Osagawa, Daisuke
Petre, Razvan
Soeda, Tatsuo
Tarui, Isao
Wamsser, Reiner
Yu, Yi
Zhu, Chunhui

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

Elbakoury, Hesham
Schewe, Frank
Weis, Brian

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

Mustala, Tero

Myers, Roy

Wang, Xinyuan

Weis, Brian

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.

LMSC elections

- First plenary session of 2020 (i.e., July)
  - All 802 leadership positions open
- 802.1 process for chair and vice-chair
  - Nominations are open until the start of the closing 802.1 plenary meeting on July 20th. The election will be during the July 20th closing plenary meeting.
  - If there are multiple nominees for a post, then a secret ballot election will take place in which only 802.1 voters participate and in which each voter casts a single vote for their preferred candidate. To win the election, a majority of voters present is required. If a majority is not achieved, then the candidate with the least number of votes is eliminated and the vote re-taken.
  - A motion to approve the winning candidate (in the case of an election) or the single nominee (in the event that there is only one candidate for the post) will then be made and voted upon by 802.1 voting members.

LMSC election candidates

- 802 Chair
  - Paul Nikolich
    - Vice Chair - James Gilb
    - 2nd Vice-Chair – Roger Marks
    - Recording Secretary – John D'Ambrosia
    - Executive Secretary – Jon Rosdahl
    - Treasurer – George Zimmerman
- 802.1 Chair
  - Glenn Parsons
- 802.1 Vice-Chair
  - Paul Congdon
  - Jessy Rouyer
  - Secret ballot election
    - Paul Congdon - 22
    - Jessy Rouyer - 34

Live Voting

SBS DirectVoteLive™

- Access the web-based voting tool via the "Voting Member – Cast your vote" link (also found on the 802.1 July 2020 plenary session page)
- When asked to sign in, use your IEEE Account user name and password
- Click the "Enter Meeting" button for Elections

- In the voting tool click on the "Vote" button

for motions currently requiring your vote
- Make your vote selection and click the "Submit" button

to record your vote
- Keep the voting tool "*DirectVoteLive*" browser tab or window open during the meeting

Election – chair confirmation

- 802.1 approves Glenn Parsons as the chair of the 802.1 working group

- Proposed: John Messenger
- Seconded: Stephan Kehrer

- Y: 56 N: 0 A: 0

Election – vice-chair confirmation

- 802.1 approves Jessy Rouyer as the vice-chair of the 802.1 working group

- Proposed: Stephan Kehrer
- Seconded: Ludwig Winkel

- Y: 53 N: 0 A: 2

Interim sessions

- 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 hosted by Hirschmann
- January 18-21, 2021
- May 3-7, 2021
  - Santa Fe hosted by Analog Devices
- September 20-24, 2021
  - Stuttgart proposal

Changed to electronic due to COVID-19

2022 proposals welcome

Future plenary sessions

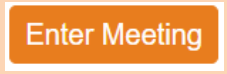
- March 15-20, 2020 – Atlanta, GA, USA
  - Hilton Atlanta
- July 12-17, 2020 – Montreal, QC, Canada
  - Sheraton Montreal
- November 8-13, 2020 – Bangkok, Thailand
  - Bangkok Marriott Marquis Queen's Park

Cancelled or changed to electronic due to COVID-19

- 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
- March 13-18, 2022 – Orlando, FL, USA
  - Hyatt Regency Denver
- July 10-15, 2022 – Montreal, QC, Canada
  - Sheraton Montreal
- November 13-18, 2022 – Bangkok, Thailand (to be confirmed)
  - Bangkok Marriott Marquis Queen's Park

Live Voting

DirectVoteLive™

- Access the web-based voting tool via the "Voting Member – Cast your vote" link (also found on the 802.1 July 2020 plenary session page)
- When asked to sign in, use your IEEE Account user name and password
- Click the "Enter Meeting" button for Motions 

- In the voting tool click on the "Vote" button

for motions currently requiring your vote
- Make your vote selection and click the "Submit" button

to record your vote
- Keep the voting tool "*DirectVoteLive*" browser tab or window open during the meeting

Meeting planning - straw poll 1

- Given that IEEE 802 incurs significant expenses cancelling (plenary) face-to-face meetings, it has been suggested that a meeting fee be charged for attendance at electronic meetings substituting for those face-to-face plenaries. What would you consider the highest reasonable and fair registration fee range to be: (select one)

	WG members	All participants
– $800-$500	0	1
– $500-$300	5	6
– $150-$300	31	26
– Less than $150	-	17
– My employer/sponsor is unwilling to pay meeting fees for electronic meetings	13	9
– Abstain	-	6

Meeting planning - straw poll 2

- IEEE 802 typically holds 6 in-person sessions per year. Once government and company restrictions have been lifted, what do you perceive as the reasonable number of face to face meetings (plenaries and interims) per year? (the division between plenaries and interims is TBD)

	WG members	All participants
– 6	21	29
– 5	1	1
– 4	14	23
– 3	7	9
– 2	4	5
– 1	0	0
– 0	0	0
– Abstain	2	2

Meeting planning - straw poll 3

- At in-person plenary sessions, typically over 90% of voting members attend. In the straw poll for November 2020, only 30% indicated they could attend. What should be the target threshold for an effective in-person session?

	WG members	All participants
– 30%	1	1
– 40%	0	0
– 50%	5	7
– 60%	6	10
– 70%	26	27
– 80%	9	12
– 90%	3	6
– Abstain	1	2

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	D1.2	WG ballot	Dec '21
802E	Privacy	SA Ballot	SA Ballot recirc	D2.0	RevCom	Dec '21
802.1CQ	Multicast and Local Address Protocol	PAR Extension	TG Ballot	D0.5	TG Ballot	Dec '22
802.1Qcr	Asynchronous Traffic Shaping	SA Ballot	SA Ballot approved	D2.3	RevCom	Dec '20
802.1CS	LRP	SA Ballot	SA Ballot	D3.0	SA Ballot	Dec '21
802.1ACct	support for 802.15.3	TG Ballot	PAR Approved		Editor's draft	Dec '21
802.1ABcu	LLDP YANG	WG Ballot	WG Ballot	D1.0	WG ballot	Dec '21
802.1CBcv	FRER YANG & MIB	TG Ballot	TG Ballot	D0.3	TG Ballot	Dec '22
802.1Qcw	TSN (Qbu, Qbv, Qci) YANG	WG ballot	WG ballot	D1.1	WG ballot	Dec '21
802.1Qcx	CFM YANG	RevCom	Approved	D2.1	Publication	Dec '21
802.1Qcz	Congestion Isolation	WG Ballot	WG Ballot recirc	D1.2	SA Ballot	Dec '22
802.1CBdb	FRER (CBcv) extensions	TG Ballot	TG Ballot	D0.7	WG ballot	Dec '22
60802 (DA)	Profile for Industrial Automation	TG Ballot	TG Ballot	D1.2	TG ballot	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	D0.2	TG ballot	Dec '22
802.1CMde	Enhancements for Fronthaul Interface	RevCom	Approved	D2.1	Publication	Dec '23
802.1DF	TSN Profile for Service Provider Networks	NesCom	PAR approved		TG ballot	Dec '23
802.1DG	TSN Profile for Automotive Networks	TG Ballot	TG Ballot	D1.2	TG ballot	Dec '23
802.1AE/cor1	MAC security corrigendum	RevCom	Approved	D1.0	Publication	Dec '23
802.1ABdh	LLDPv2	NesCom	PAR approved		TG ballot	Dec '23
802.1Qdj	TSN Configuration Enhancements	TG ballot	PAR approved		Editor's draft	Dec '23
802.1AEdk	Privacy enhancements for use with MACsec	TG Ballot	Editor's draft		TG ballot	Dec '23
802f	EtherType YANG	NesCom	PAR approved		TG ballot	Dec '23
802.1ASdm	Hot standby	NesCom	PAR approved		TG ballot	Dec '24
802.1Q-REV	Bridges and Bridged Networks	NesCom	PAR approved		WG Ballot	Dec '24
802.1ASdn	Time Synch YANG	PAR Development	PAR Development		NesCom	
802.1DP	TSN Profile for Aerospace				PAR Development	

Promotion

- IEEE-SA marketing collateral
  - TSN automotive, TSN industrial
  - TSN logo trademark
- Issue press releases or eBlasts
  - Start of PAR, Final approval, etc. -- Editors are asked to propose…
  - 802.1AS
  - 802.1Qcx and YANG
- Presence at Future Industry Events
  - IEEE Communications Standards Magazine
    - Feature topic on TSN for Industrial Automation
  - TSN/A – 7-8 October 2020
  - IEEE-SA Ethernet & IP - Automotive Technology Day – 15-16 Sept 2020
  - WSTS – 15-19 March 2021

Sub group reports

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

Maintenance TG Session Summary

- Updated maintenance sessions slides show detailed progress and status:
  - http://www.ieee802.org/1/files/public/docs2020/maint-congdon-concall-bis-0720-v02.pdf

- Progressed 12 maintenance items
  - 10 complete then ballot -> balloting
  - 1 received -> complete then ballot
  - 1 new received item (after session)

- Created two liaison responses to ISO/IEC JTC1/SC6
  - ISO/IEC/IEEE 8802-1X:2013/FDAmd 2 – Response
  - ISO/IEC/IEEE FDIS 8802-1AE (Ed 2) – Response

ISO/IEC JTC1 SC6 Status

- 32 standards currently PSDO approved
- 3 standards in PSDO adoption process
- 5 standards in PSDO 60-day pre-ballots
- 0 standards queued up to send to PSDO (already approved by WG to send)
- 6 standards to send for information

- Motion for documents sent for information
  - IEEE 802.1X-2020*
  - P802.1Qcr
  - P802.1CS
  - P802.1Qcz
  - P802.1AE-2018/Cor-1*
- Motion for documents sent for adoption
  - P802.1CMde
  - IEEE 802.1X-2020
  - IEEE 802.1AE-2018/Cor-1*

NOTE: NOT sending IEEE 802.1Qcx-2020

NOTE: * sending under corrigendum process

Maintenance TG - Next Steps

- Proposing teleconferences to progress new business:
  - As needed per-10 day notice on the web
- Proposing to authorize Q-Rev editor to conduct WG balloting

Security TG – Session Report

1. P802.1AEdk MACsec Privacy Protection
   - Discussion on MACsec Privacy in systems, particularly in EDEs
   - Continued discussion on YANG and modeling, including YANG for basic MACsec, further details on pulling YANG models together to manage entire system
   - Refining details on internal operation the privacy shim (used in conjunction with the MACsec shim)
   - ➢ **Not quite ready for task group ballot, but making progress towards that goal**
2. P802E Privacy (Recommended Practice ... For 802 Technologies)
   - Brief procedural review, following completion of second SA recirc. (no comments or vote changes)
   - ➢ **Progress to RevCom (motion pending)**
3. ISO/IEC JTC1 SC6 progression of IEEE 802.1 Standards
   - Response to comments on the FDIS ballot of 802.1AE-2018
   - Response to comments on the FDIS ballot of 802.1Xck-2018
   - ➢ **Discussed, very minor edits to proposed responses, to Maintenance TG and response**
4. A.O.B.
   - None at this meeting
5. Future meetings/teleconferences
   - ➢ **To be scheduled as initial draft and contributions updated**

IEEE 802.1 TSN TG Summary

IEEE 802 Plenary, July 13-17, 2020

EDT		Monday July 13	Tuesday July 14	Wednesday July 15	Thursday July 16	Friday July 17	PDT	CEST	JST
Start	End						Start	Start	Start
9:00	9:30	**Opening Plenary**	**TSN - P802.1DG** Time Sync in 10BASE-T1S, Update on use cases, D1.2 comment resolution	**TSN - IEC/IEEE 60802** D1.2 comment resolution	**TSN - IEC/IEEE 60802** Simulation results for time error	**TSN - IEC/IEEE 60802** End station model, Sync requirements,	6:00	15:00	22:00
9:30	10:00						6:30	15:30	22:30
10:00	10:30	**TSN - IEC/IEEE 60802** System specification, D1.2 comment resolution					7:00	16:00	23:00
10:30	11:00						7:30	16:30	23:30
11:00	11:30	**TSN** incoming liaison, draft motions, P802.1CBcv update, P802.1ABdh,	break	break	break	break	8:00	17:00	0:00
11:30	12:00		**TSN** P802.1ASdn PAR & CSD comment resolution, P802.1CBdb ballot res	**TSN** P802.1CQ update, CFM extensions	**TSN** TSN profile for Aerosapce, outgoing liaisons, future meetings, 802.1AS blog post	D1.2 comment resolution, future meetings	8:30	17:30	0:30
12:00	12:30						9:00	18:00	1:00
12:30	13:00						9:30	18:30	1:30
13:00	13:30	break					10:00	19:00	2:00
13:30	14:00	P802.1CS ballot res, P802.1Qcz ballot res		**TSN - IEC/IEEE 60802 Ad Hoc Group** System specification			10:30	19:30	2:30
14:00	14:30						11:00	20:00	3:00
14:30	15:00						11:30	20:30	3:30
15:00	15:30						12:00	21:00	4:00
15:30	16:00						12:30	21:30	4:30

- Details are available at: https://1.ieee802.org/2020-07-tsn-agenda

Nendica Summary

- Met Thursday 09:00-11:00 ET
- Detailed agenda:
  - https://1.ieee802.org/agenda-ieee-802-nendica-telecon
- Data Center Networks [DCN] Work Item
  - Reviewed pre-draft document
  - Reviewed additional contribution
- Stream and Flow Interworking [SFI] Work Item
  - Reviewed pre-draft document
- Future meetings
  - Propose to continue electronic meeting series
    - Thursdays, 09:00-11:00 ET
    - Alternating between DCN and SFI
  - No in-person meetings scheduled
- Details:
  - https://1.ieee802.org/802-nendica/

YANGsters summary

1. Issues in Focus
   - Transmission Selection Algorithm YANG design discussion
   - Pretty Printing Discussion
   - IANA YANG Update
   - I2RS Review
   - IETF YANG and Errata Process (errata on YANG not allowed)
     - Review and discuss IETF work related to YANG Versioning and Packaging
2. Update on Hot Issues
   1. P802f work progressing, discussion with RAC is next
3. Request for a series of weekly YANGsters calls

Liaisons

- Incoming
  - 3GPP SA2 – FS IIoT - assigned to TSN
  - JTC1/SC6 FDIS responses - assigned to Maintenance
- Outgoing
  - Communication to 3GPP SA2
  - Communication to IEEE 1722
  - Draft sharing with LNI4.0
  - JTC1/SC6
    - Infirmation: IEEE 802.1X-2020, P802.1Qcr, P802.1CS, P802.1Qcz and P802.1AE-2018/Cor-1
    - Submission: P802.1CMde, IEEE 802.1X-2020 and IEEE 802.1AE-2018/Cor-1
    - FDIS comment responses: IEEE 802.1AE-2018 and IEEE 802.1Xck-2018
- Promotion
  - Blog post for 802.1AS

July 24, 2020

MOTIONS FOR 802 EC

802.1 consent agenda items for LMSC Closing Plenary

July 2020 electronic

(V3 – 802.1 version #)

Agenda

- Drafts to RevCom
  - P802.1Qcr to RevCom
  - P802E to RevCom

Agenda (contd…)

- External communications (II)
  - Approve 802.1 communication to 3GPP SA WG2
  - Approve 802.1 communication to IEEE 1722
  - Approve sharing P802.1Qdd draft with LNI4.0

- External communications (ME)
  - Approve blog post on the IEEE Std 802.1AS-2020
  - Approve submission of the IEEE 802.1X-2020, P802.1Qcr, P802.1CS, P802.1Qcz and P802.1AE-2018/Cor-1 to ISO/IEC JTC1/SC6 for information under the PSDO agreement.
  - Approve submission of P802.1CMde, IEEE 802.1X-2020 and IEEE 802.1AE-2018/Cor-1 to ISO/IEC JTC1/SC6 for adoption under the PSDO agreement, once approved and published.
  - Approve liaison of IEEE 802.1AE-2018 and IEEE 802.1Xck-2018 comment responses to ISO/IEC JTC1/SC6 under the PSDO agreement

802.1 Motions
2020-07

Consent Agenda

Drafts to RevCom

Motion

- Approve sending P802.1Qcr to RevCom
- Approve CSD documentation in https://mentor.ieee.org/802-ec/dcn/16/ec-16-0056-00-ACSD-802-1qcr.pdf
- P802.1Qcr D2.3 had 98% approval at the end of the third Standards Association recirculation ballot

- In the WG, Proposed: Johannes Specht, Second: János Farkas
  - Sending draft (y/n/a): 44, 2, 5
  - CSD (y/n/a): 43, 0, 2

- In EC, mover: Glenn Parsons, Second:
  - (y/n/a): <y>,<n>,<a>

Supporting information – P802.1Qcr

- Standards Association ballot closed: 29 May 2020
- Ballot results:
  - 1 Disapprove vote with 1 Must Be Satisfied (MBS) comment

- Ballot disposition is available here: http://www.ieee802.org/1/files/private/cr-drafts/d2/802-1Qcr-d2-3-dis-v01.pdf

Ballot Summary

Open Date: 19 May 2020 **Close Date:** 29 May 2020 **Status** Closed

Ballot Group Members: 80 **Ballot Stage:** Recirculation 3
Minimum should be 10

Return Ballots: (74) 92%
Minimum return rate is 75%

Abstentions: (4) 5%
Abstention must be below 30%

Approval Rate: 98%
Approval rate must be at least 75%

Votes counted in approval rate	
Approve	69
Disapprove With MBS Comment(s)	1
Total	70

Votes not counted in approval rate	
Disapprove Without MBS Comment(s)	0
Abstentions	4
Total	4

Total Votes	74
Total Comments	0

The vote tally for "Disapprove With MBS Comment(s)" = current Disapprove votes for which an MBS (Must Be Satisfied) comment existed in any round of balloting.

Supporting information – P802.1Qcr

- Voter with outstanding Disapprove vote with outstanding MBS comment:
  - Rodney Cummings

- The outstanding Must Be Satisfied comment of this voter is shown on the next slide.

Supporting information – P802.1Qcr

IEEE P802.1Qcr-D2.2 Asynchronous Traffic Shaping 2nd Sponsor recirculation ballot comments

Cl 8 SC 8.6.8.4 P29 L47 # R2-1

Cummings, Rodney National Instruments C

Comment Type TR *Comment Status* R

The previous recirculation removed the helpful NOTE on cut-through. That NOTE was intentionally created by the working group during development of IEEE Std 802.1Qbv-2015, not the P802.1Qcr project.

We all know that it is possible for a standard to mandate something that is not practical... something that doesn't make sense in the context of product implementation. There is nothing surprising about that. Murphy's Law applies to standard development, so mistakes are inevitable. The question is, what approach is used in order to address impractical mandates? There are two options:
A: Standard forces implementers to follow the impractical mandate.
B: Implementers explain the impractical mandate to standards group, and the standard is changed to reflect practical realities.

Option A is the wrong approach, but many standard participants still insist on it. First, the approach is wrong because it proposes to oppose practicality, and a standard should always be focused on practical implementation. Second, even when there is a disagreement on practicality, this approach is unrealistic. IEEE provides no mechanism to force conformance. Some people argue that conformance testing entities will force the issue, but those entities typically sell testing as a product to the implementer, and "the customer is always right" rule prevents enforcement of impractical mandates.

Option B is the right approach, and it will always be the right approach. It is unfortunate that some standards participants refuse to accept it, but hopefully that will change over time.

Relative to this comment, it is a well-known fact that many Ethernet switches implement cut-through, and those switches also claim conformance to IEEE Std 802.1Q. Cut-through is a critically important feature for these switches, and the implementers understand the advantages as well as disadvantages. Cut-through is a practical necessity in these switches. Based on the explanations from implementers of cut-through, the 802.1 working group seems to have reached rough consensus that cut-through is a reasonable, practical feature for a bridge (switch).

Nevertheless, 802.1AC imposes an impractical mandate, by prohibiting cut-through using a technicality. Since 802.1AC has the impractical mandate, 802.1Q also carries that impractical mandate. Based on that, some 802.1 members are proposing to remove the helpful text based on an Option A approach to the impractical mandate.

It is a fact that 802.1Q switches exist with cut-through. Based on that fact,the original NOTE included text to assist those implementers. The text of the NOTE is just as applicable now as it was then, so there is no justification to remove it.

Now and in the future, I will vote Disapprove on any IEEE SA project that takes the Option A approach to an impractical mandate. The Option B approach is the only approach that aligns with IEEE SA's goals and charter.

SuggestedRemedy

Restore the deleted text of the NOTE to the original (prior to P802.1Qcr edits).

Response *Response Status* U

REJECT.

IEEE 802.1Q requires conformance to IEEE Std 802.1AC for implementation of the ISS. IEEE Std 802.1AC clearly states that receipt of an error free frame is required for an M_UNITDATA.indication indicating receipt of a frame, and the received FCS is part of that indication if there is any doubt as to the necessity of receiving it before the indication occurs.

A NOTE cannot contain or change the mandatory requirements of the standard in which it occurs and similarly cannot change the mandatory requirements of another standard.

The comment has pointed out that there have been incorrect claims of conformance to IEEE Std 802.1Q. The PICS already provides a way of noting exception items and should be properly completed for any claim of conformance.

The comment claims that the 802.1 working group "seems to have reached rough consensus" on the use of 802.1Q with cut-through. This is not the case. Moreover:

a) The issue of cut-through in conjunction with IEEE Std 802.1AC and IEEE Std 802.3 is also an issue for the 802.3 working group.

b) 'Rough consensus' within a working group responsible for developing a standard does not supersede the provision of a standard that has been approved by the IEEE-SA standards development process, including past agreement through the SA ballot process.

Cl 8 SC 8.6.8.4 P29 L50 # R2-5

Christian Boiger b-plus GmbH

Comment Type T *Comment Status* A

Rogue comment from Christian Boiger:

A prior comment from D2.1 was not implemented properly. The last sentence of the note 2 in D2.2 has been striked out in D2.2, but this sentence shouldn't have been removed. This sentence is as follows: "It is desirable that the schedule for such traffic is designed to accommodate the intended pattern of
transmission without overrunning the next gate-close event for the traffic classes concerned."

SuggestedRemedy

Bring back the last sentence at the end of Note 2 in D2.2.

Response *Response Status* C

ACCEPT.

TYPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G/general
COMMENT STATUS: D/dispatched A/accepted R/rejected RESPONSE STATUS: O/open W/written C/closed U/unsatisfied Z/withdrawn
SORT ORDER: Clause, Subclause, page, line

Cl 8
SC 8.6.8.4

Page 1 of 2
19.05.2020 13:59:00

Motion

- Approve sending P802E/D2.0 to RevCom
- Approve CSD documentation in http://www.ieee802.org/1/files/public/docs2015/802e-csd-1715-v00.pdf
- P802E/D2.0 had 95% approval, 91% return rate at the end of the second SA recirculation ballot
  - No further comments or vote changes received on that recirculation
  - 4 Disapprove votes, 11 unresolved Must Be Satisfied Comments
- In the WG, Proposed: Mick Seaman, Second: Karen Randall
  - Sending draft (y/n/a): 45, 0, 7
  - CSD (y/n/a): 41, 0, 5
- In EC, mover: Glenn Parsons Second: Roger Marks
  - (y/n/a): <y>,<n>,<a>

Supporting information P802E

Project Information

PAR/Standard#:	P802E
Project Title:	Recommended Practice for Privacy Considerations for IEEE 802 Technologies
Project Type:	New
Ballot Stage:	Comment Resolution - 2
Ballot Type:	Individual
Invitation Open Date:	15 Jul 2019
Invitation Close Date:	14 Aug 2019

Standards Committee/Working Group

Standards Committee:	IEEE Computer Society/LAN/MAN Standards Committee (C/LM)
Standards Committee Chair:	Paul Nikolich
Standards Representative:	James Gilb
Working Group Type:	Individual
Working Group Chair:	Glenn Parsons
Program Manager:	

Ballot Summary

Open Date: 29 May 2020 **Close Date:** 13 Jun 2020 **Status** Closed

Ballot Group Members: 92 **Ballot Stage:** Recirculation 2

Minimum should be 10

Return Ballots: (84) 91% — Minimum return rate is 75%

Abstentions: (3) 3% — Abstention must be below 30%

Approval Rate: 95% — Approval rate must be at least 75%

Votes counted in approval rate		Votes not counted in approval rate	
Approve	77	Disapprove Without MBS Comment(s)	0
Disapprove With MBS Comment(s)	4	Abstentions	3
Total	81	Total	3
Total Votes	84	Total Comments	0

The vote tally for "Disapprove With MBS Comment(s)" = current Disapprove votes for which an MBS (Must Be Satisfied) comment existed in any round of balloting.

Disapprove voters:

- William Byrd
- R K Rannow
- Janusz Zalewski
- Max Riegel

Supporting information P802E

P802E D1.6 Recom. Practice for Privacy Consi. for IEEE 802 Initial Sponsor ballot comments

Cl 1 SC 1 P 1 L 1 # i-12

Byrd, William PRIVACOM VENTUR

Comment Type GR *Comment Status* R MBS

This does not appear to be a standard to me. It just looks like a Lawyer wrote a lot "don't sue me," junk. It just states the obvious and does nothing to explain how to implement anything.

It's just a complete waste of IEEE time, with zero value

SuggestedRemedy

Drop the entire standard.
Or, show specifically how and where privacy can be obtained on 802 networks. Not just "don't sue me, or blame me," nonsense

Response *Response Status* C

REJECT.
The proposed change in the comment does not contain sufficient detail for the Comment Resolution Group (CRG) to determine specific changes that would satisfy the comment. This Recommended Practice aims to help IEEE 802 protocol developers mitigate privacy threats. Discussion during its development revealed that the extent of the threat posed by information correlation and fingerprinting techniques was not generally understood (not obvious). The Recommended Practice helps inform developers and users on privacy requirements. Just as for security in general, there can be no expectation of absolute privacy (in the absence of a decision not to communicate at all) but merely a question of raising the effort expended by an adversary to the extent that violating privacy becomes an unprofitable/unattractive option.

Cl 1 SC 1.3 P 21 L 13 # i-13

Rannow, R K IEEE/SELF

Comment Type GR *Comment Status* R MBS

Uncomfortable with the introduction as, "a threat model" is not all encompassing.

One must use various models (HW, SW, architecture, etc.). Furthermore, there are vulnerabilities that might be considered, and this may require various considerations.

SuggestedRemedy

Recommend we also include TVA (threat and vulnerability analysis):

Threat and vulnerability models facilitate the framework and methodical identification of threats, risks or vulnerabilities associated with the identified threats, and possible mitigation or counter-measure solutions.

There are

Response *Response Status* C

REJECT.
The proposed change in the comment does not contain sufficient detail for the Comment Resolution Group (CRG) to determine specific changes that would satisfy the comment.

Cl 1 SC 1.4 P 22 L 7 # i-17

Rannow, R K IEEE/SELF

Comment Type GR *Comment Status* R MBS

Perhaps a missed opportunity, no meaningful boundaries described (where might privacy ownership lie) and developing a comprehensive model as part of a product spec.

SuggestedRemedy

Working on a more comprehensive proposal.

Response *Response Status* C

REJECT.
The proposed change in the comment does not contain sufficient detail for the Comment Resolution Group (CRG) to determine specific changes that would satisfy the comment.

The group did discuss this topic extensively in prior versions of the draft and concluded that the purpose of the recommended practice could not be to define privacy boundaries (as 1.5 makes clear), because such boundary definition could be argued against ad infinitum, and would vary as new standards are developed.

Supporting information P802E

P802E D1.6 Recom. Practice for Privacy Consi. for IEEE 802 Initial Sponsor ballot comments

Cl 1 *SC* 1.4 *P* 22 *L* 15 # i-14

Rannow, R K IEEE/SELF

Comment Type GR *Comment Status* R *MBS*

Replace:

Helping to protect personal information against such less powerful adversaries remains an important goal.

SuggestedRemedy

With:

Helping to protect personal information against unauthorized access and less powerful adversaries remains an important goal.

Response *Response Status* C

REJECT.
The paragraph aims at specifying that this recommended practice aims at providing a framework to protect against adversaries that can use IEEE 802 technologies to perform fingerprinting and obtain PII, directly or indirectly. Unauthorized access seems to be break the balance of the sentence without adding more clarity to the meaning as unauthorized access would be what these adversaries perform.

Cl 1 *SC* 1.5 *P* 22 *L* 25 # i-18

Zalewski, Janusz Florida Gulf Coast Uni

Comment Type GR *Comment Status* R *MBS*

I cannot imagine how a guideline on "privacy" does not have it defined.

SuggestedRemedy

Any definition would be better than none.

Response *Response Status* C

REJECT.
The proposed change in the comment does not contain sufficient detail for the Comment Resolution Group (CRG) to determine specific changes that would satisfy the comment.

The existing text of clause 1.5 already discusses the various shades of meanings of privacy, and the IEEE Standards Dictionary Online (referenced by clause 3. Definitions for the definition of terms not defined in that clause) also provides a definition: "The ability of an individual or group to seclude themselves or information about themselves and thereby reveal themselves selectively."

The recommendations in this Recommended Practice do not depend on the selection of a particular definition of privacy, and would not be enhanced by introducing an additional definition.

Cl 1 *SC* 1.5 *P* 22 *L* 27 # i-15

Rannow, R K IEEE/SELF

Comment Type GR *Comment Status* R *MBS*

Not sure how privacy in "social anthropology" or the study of people conveys helpful insight on a definition.

SuggestedRemedy

Change, "social anthropology" to "societal norms" to perhaps align with IEEE EAD endeavors.

Response *Response Status* C

REJECT.
The meaning of this text is that the term privacy can have different definitions depending on the domain, regulatory is given as an example, social anthropology is given as another example of a domain where specific definitions can be found. The text refers here to a definition of a term in a field, not to the general notion that 'privacy' may have different definition depending on groups of people (which is what social anthropology would study, along with the associated definition of terms).

Cl 3 *SC* 3 *P* 23 *L* 20 # i-16

Rannow, R K IEEE/SELF

Comment Type GR *Comment Status* R *MBS*

vulnerability definition

SuggestedRemedy

Vulnerability:

The characteristics and circumstances of a community, system, device or asset that makes it susceptible to compromise or damaging effects of the vulnerability.

There are many aspects of vulnerability, and may include social, personal, physical, economic, and environmental.

Response *Response Status* C

REJECT.
The term vulnerability is not used in the Recommended Practice.

Supporting information P802E

P802E D1.6 Recom. Practice for Privacy Consi. for IEEE 802 Initial Sponsor ballot comments

Cl 3 *SC* 3 *P* 24 *L* 1 # i-19

Zalewski, Janusz Florida Gulf Coast Uni

Comment Type GR *Comment Status* R *MBS*

I cannot imagine how a guideline on "privacy" does not have it defined.

SuggestedRemedy

Any definition would be better than none.

Response *Response Status* C

REJECT.
The proposed change in the comment does not contain sufficient detail for the Comment Resolution Group (CRG) to determine specific changes that would satisfy the comment.

The recommendations in this Recommended Practice do not depend on the selection of a particular definition of privacy (see clause 1.5 in the draft). The IEEE Standards Dictionary Online (referenced by clause 3. Definitions for the definition of terms not defined in that clause) provides this definition: "The ability of an individual or group to seclude themselves or information about themselves and thereby reveal themselves selectively."

Cl 8 *SC* 8.1 *P* 34 *L* 13 # i-28

Riegel, Maximilian Nokia

Comment Type TR *Comment Status* R *MBS*

In terms of PII exposure, short-lived services are not less vulnerable than longer lasting services. Once an identifier is visible, it's known. You may had in mind, that more frequent services like network probes have higher likelihood of observation when moving around.

SuggestedRemedy

Change sentence to 'Temporary identifiers should not be used or at least permitted whenever possible'.

Response *Response Status* C

REJECT.
The proposed remedy implies that permanent identifiers are preferred. The meaning of the recommendation is that temporary services may be better served if temporary identifiers are used, so as to avoid permanent association with a device.

Supporting information P802E

P802E/D2.0 Recommended Practice for Privacy 1st Sponsor recirculation ballot comments

Cl 6 *SC* 6.3 *P* 22 *L* 32 # R1-3

Riegel, Maximilian Nokia

Comment Type TR *Comment Status* D *MBS*

... or (for a wireless device) characteristics of the radio implementation: it is not well expressed that the characteristics of the radio must allow for fingerprinting, ie. must contain some kind of information that is unique for that single device

SuggestedRemedy

Amend to the end of 'or can be persistent, e.g. using a permanently assigned MAC address or (for a wireless device) characteristics of the radio implementation' unique for a device.

Proposed Response *Response Status* W

REJECT.
It is not necessary that the radio implementation information be unique for that single device. It only need to be correlated with a device, and thus contribute to fingerprinting (as explained in lines 21 through 26 of the page referenced by this comment).

[FYI : The paper at
https://www.ccs-labs.org/bib/bloessl2015scrambler/bloessl2015scrambler.pdf
provides a detail analysis of the use of radio scrambler properties in an attack on location privacy scenario, as well as mentionning other radio properties that can be correlated for long enough to be useful to an adversary.]

Cl 7 *SC* 7.2 *P* 24 *L* 32 # R1-4

Riegel, Maximilian Nokia

Comment Type TR *Comment Status* D *MBS*

Header changed to 'MAC and Physical Layer Operations', however this change misses that IEEE 802 protocols also comprise functions above the MAC layer. As IEEE 802 protocol operations belong to Data Link layer and Physical Layer, it makes no sense to exclude IEEE 802 protocol functions above the MAC layer.

SuggestedRemedy

Change header to 'Data Link and Physical Layer Operations' and also change 'MAC' in line 33 to Data Link'

Proposed Response *Response Status* W

REJECT.
1. Subclause 7.2 is part of this Recommended Practice, and not a definition of its entire Scope. The title of the subclause reflects its contents. Other aspects of IEEE 802 operation (MAC Addresses, Network Discovery etc. are addressed by other subclauses.
2. The functions above the MAC Layer use protocol identifiers (EtherTypes, LLC Addresses). Renaming this particular subclause would be to advocate the replacement of these persistent identifiers with ephemeral values, and thus require a completely new approach to protocol identification. No such proposal has been made, and no such proposal is required as data above the MAC (including protocol identifiers) can be (and often is) cryptographically confidentiality protected and thus privacy protected between communicating 802 end stations (see IEEE Std 802.1X and related standards).

802.1 Motions
2020-07

Consent Agenda

Liaisons and external communications (II)

Motion

- Approve http://www.ieee802.org/1/files/public/docs2020/liaison-response-3GPP-SA2-survival-time-0720-v01.pdf as communication to 3GPP SA WG2, granting the IEEE 802.1 WG chair (or his delegate) editorial license.

- In the WG (y/n/a): 51, 0, 1
  - Proposed: János Farkas, Second: Jessy Rouyer

- In EC, for information

Motion

- Approve http://www.ieee802.org/1/files/public/docs2020/liaison-802-1CQ-D0-5-0720-v01.pdf as communication to IEEE 1722, granting the IEEE 802.1 WG chair (or his delegate) editorial license.

- In the WG (y/n/a): 49, 0, 2
  - Proposed: Craig Gunther, Second: Geoffrey Garner

- In EC, for information

Motion

- Approve sharing the latest revision of the P802.1Qdd draft with LNI4.0

- Proposed: Josef Dorr
- Second: János Farkas

- In the WG (y/n/a): 51, 0, 1

- In EC, for information

802.1 Motions
2020-07

Consent Agenda

Liaisons and external communications (ME)

Motion

- Approve the blog post on IEEE Std 802.1AS-2020 in http://www.ieee802.org/1/files/public/docs2020/as-draft-blog-post-0720-v01.pdf, to be released with editorial changes as deemed necessary.

- In the WG (y/n/a): 52, 0, 0
  - Proposed: János Farkas, Second: Norman Finn

In EC, mover: Glenn Parsons, Second: Roger Marks
(y/n/a): <y>,<n>,<a>

Motion

- Approve submission of the following draft(s) to ISO/IEC JTC1/SC6 for information under the PSDO agreement
  - IEEE 802.1X-2020*
  - P802.1Qcr
  - P802.1CS
  - P802.1Qcz
  - P802.1AE-2018/Cor-1*
- In the WG, Proposed: Paul Congdon Second: János Farkas
  - Sending draft (y/n/a): 52, 0, 1
- In EC, mover: Glenn Parsons Second: Roger Marks
  - (y/n/a): <y>,<n>,<a>

NOTE: * sending published standard because SA ballot has completed.

Motion

- Approve submission of the following draft(s) to ISO/IEC JTC1/SC6 for adoption under the PSDO agreement, once approved and published.
  - P802.1CMde
  - IEEE 802.1X-2020
  - IEEE 802.1AE-2018/Cor-1*
- In the WG, Proposed: Paul Congdon Second: János Farkas
  - Sending draft (y/n/a): 51, 0 ,1
- In EC, mover: Glenn Parsons Second: Roger Marks
  - (y/n/a): <y>,<n>,<a>

NOTE: * sending under corrigendum process.

Motion

- Approve liaison of the following comment responses to ISO/IEC JTC1/SC6 under the PSDO agreement:
  - IEEE 802.1AE-2018
    - http://www.ieee802.org/1/files/public/docs2020/maint-randall-SC6CommentResponse1AERevFDIS-0720-v02.pdf
  - IEEE 802.1Xck-2018
    - http://www.ieee802.org/1/files/public/docs2020/maint-randall-SC6CommentResponse1XckFDIS-0720-v01.pdf

- In the WG, Proposed: Paul Congdon Second: Mick Seaman
  - Sending draft (y/n/a): 48, 0, 2

- In EC, mover: Glenn Parsons Second: Roger Marks
  - (y/n/a): <y>,<n>,<a>

August 4, 2020

MOTIONS FOR 802 EC

802.1 consent agenda items for LMSC

August 2020 electronic

(V2 – 802.1 version #)

Agenda

- PARs to NesCom
  - P802.1ASdn PAR to NesCom

802.1 Motions
2020-08

Consent Agenda

NesCom

Motion

- Approve forwarding P802.1ASdn PAR documentation in http://www.ieee802.org/1/files/public/docs2020/dn-PAR-0520-v01.pdf to NesCom
- Approve CSD documentation in http://www.ieee802.org/1/files/public/docs2020/dn-CSD-0520-v01.pdf

- In the WG, Proposed: Rodney Cummings, Second: János Farkas
  - PAR (y/n/a): 48, 0, 0
  - CSD (y/n/a): 47, 0, 1

- In EC, mover: Glenn Parsons, Second:
  - (y/n/a): <y>,<n>,<a>

Administrative

WG MOTIONS

Motion

- 802.1 approves the May 2020 interim session minutes:
  - http://www.ieee802.org/1/files/public/minutes/2020-05-minutes-v3.pdf
- Proposed: Jessy Rouyer
- Seconded: János Farkas

- Approved by Acclamation

Motion

- 802.1 approves to hold an 802.1 electronic interim session January 18-22, 2021

- Proposed: János Farkas
- Seconded: John Messenger

- Approved by Acclamation

Motion

- 802.1 approves to hold an 802.1 interim session September 20-24, 2021 in Stuttgart, Germany hosted by Hirschmann Automation and Control GmbH
- Proposal in:
  - http://www.ieee802.org/1/files/public/docs2020/admin-kehrer-sep2021-interim-proposal-0720-v01.pdf
- Proposed: Stephan Kehrer
- Seconded: János Farkas

- Approved by Acclamation

Maintenance TG

WG MOTIONS

Motion

- 802.1 authorizes the Maintenance TG to hold electronic meetings to address task group matters and progress resolution of maintenance items documented in the maintenance database (https://1.ieee802.org/maintenance/database).
  - Dates/times/agenda to be announced subject to notice of at least 10 days to the 802.1 Minutes email list .

- Proposed: Paul Congdon
- Second: Jessy Rouyer

- Approved by Acclamation

Motion

- 802.1 authorizes John Messenger, the Editor of P802.1Q-Rev - Standard for Local and Metropolitan Area Networks--Bridges and Bridged Networks to prepare drafts for and conduct Working Group balloting.

- Proposed: Paul Congdon
- Second: János Farkas

- In the WG (y/n/a): 48, 0 ,1

Security TG

WG MOTIONS

MOTION

- Authorize the Security Task Group to hold electronic meetings to progress P802.1AEdk and task group matters arising:
  - Dates/times/agenda to be announced subject to notice of at least 10 days to the 802.1 Minutes email list

- Proposed: Mick Seaman
- Second: Karen Randall

- Approved by Acclamation

TSN TG

WG MOTIONS

Motion

- 802.1 authorizes the TSN Task Group to hold electronic meetings weekly on Mondays from 11:00 AM (US-Eastern) to 1:00 PM (US-Eastern) starting with July 27, 2020.
- Agenda will be announced on the 802.1 Minutes email list at least 5 calendar days before the electronic meeting.
- Access information is posted on the http://www.ieee802.org/1/tsn page and will be updated as necessary.
- Proposed: János Farkas
- Second: Craig Gunther

- Approved by Acclamation

Motion

- 802.1 authorizes the TSN TG to hold additional electronic meetings as needed to progress the projects of the Task Group.
- Dates, times, and agenda to be announced subject to notice of at least 10 calendar days on the 802.1 Minutes email list.
- Access information is posted on the http://www.ieee802.org/1/tsn page and will be updated as necessary.

- Proposed: János Farkas
- Second: Craig Gunther

- Approved by Acclamation

Motion

- 802.1 authorizes the TSN Task Group to hold weekly electronic meetings together with IEC 65C/WG18 to progress the work of the IEC/IEEE 60802 Joint Project on Mondays from 9:00 AM (US-Eastern) to 11:00 AM (US-Eastern) starting July 27, 2020.
- Agenda will be announced on the 802.1 Minutes email list at least 5 calendar days before the electronic meeting.
- Access information is posted on the http://www.ieee802.org/1/tsn page and will be updated as necessary.
- Proposed: János Farkas
- Second: Ludwig Winkel

- Approved by Acclamation

Motion

- 802.1 authorizes the TSN Task Group to hold weekly electronic meetings to progress the P802.1DG project on Tuesdays from 9:00 AM (US-Eastern) to 10:00 AM (US-Eastern) starting July 21, 2020.
- Agenda will be announced on the 802.1 Minutes email list at least 5 calendar days before the electronic meeting.
- Access information is posted on the http://www.ieee802.org/1/tsn page and will be updated as necessary.
- Proposed: Craig Gunther
- Second: János Farkas

- Approved by Acclamation

Motion

- 802.1 authorizes the TSN Task Group to hold ad hoc electronic meetings together with IEC 65C/WG18 to develop a system specification to progress the work of the IEC/IEEE 60802 Joint Project on Wednesdays from 11:00 AM (US-Eastern) to 12:00 PM (US-Eastern) starting July 22, 2020.
- Agenda will be announced on the 802.1 Minutes email reflector at least 5 calendar days before the electronic meeting.
- Access information is posted on the http://www.ieee802.org/1/tsn page and will be updated as necessary.
- Proposed: János Farkas
- Second: Ludwig Winkel

- Approved by Acclamation

Motion

- 802.1 authorizes Marc Holness, the Editor of P802f Overview and Architecture — Amendment: YANG Data Model for EtherTypes to prepare drafts for and conduct Task Group balloting.

- Proposed: János Farkas
- Second: Norm Finn

- In the WG (y/n/a): 44, 1, 2

Motion

- 802.1 authorizes Stephen Haddock, the Editor of P802.1ABdh Station and Media Access Control Connectivity Discovery — Amendment: Support for Multiframe Protocol Data Units to prepare drafts for and conduct Task Group balloting.

- Proposed: János Farkas
- Second: Norm Finn

- In the WG (y/n/a): 46, 1, 2

Motion

- 802.1 authorizes Geoffrey Garner, the Editor of P802.1ASdm Standard for Local and Metropolitan Area Networks: Timing and Synchronization for Time-Sensitive Applications — Amendment: Hot Standby to prepare drafts for and conduct Task Group balloting.

- Proposed: János Farkas
- Second: Günter Steindl

- In the WG (y/n/a): 48, 0, 1

Motion

- 802.1 authorizes Christophe Mangin, the Editor of P802.1CBdb Frame Replication and Elimination for Reliability — Amendment: Extended Stream Identification Functions to prepare drafts for and conduct Working Group balloting.

- Proposed: János Farkas
- Second: Ludwig Winkel

- In the WG (y/n/a): 47, 1, 1

Motion

- 802.1 authorizes TSN Task Group electronic meetings to generate PAR and CSD for pre-circulation to the EC for a standard to specify a TSN Profile for Aerospace.

- Proposed: János Farkas
- Second: Johannes Specht

- In the WG (y/n/a): 45, 1 , 4

Nendica

WG MOTIONS

Motion –

- 802.1 authorizes Nendica to hold weekly electronic meetings each Thursday 09:00 AM - 11:00 AM ET.
- Agenda will be announced on the 802.1 Minutes email list at least 5 calendar days before the electronic meeting.
- Access and agenda information are provided on the calendar at https://1.ieee802.org/802-nendica/.

- Proposed: Paul Congdon
- Second: Roger Marks

- Approved by Acclamation

YANGsters

WG MOTIONS

Motion

- 802.1 authorizes weekly electronic meetings for the YANGsters subgroup on Tuesdays from 10:00 AM (US-Eastern) to 11:00 AM (US-Eastern) starting July 28, 2020.
- Agenda will be announced on the 802.1 Minutes email list at least 5 calendar days before the electronic meeting.
- Access information is posted on the https://1.ieee802.org/yangsters/yangsters-call-information/ page and will be updated as necessary.

- Proposed: Scott Mansfield
- Second: János Farkas

- Approved by Acclamation

Any other business?

- How was Direct Vote?
  - There was a license issue that prevented us from starting voting for ~60 minutes
  - Easy to use and the system did the count
  - Two meetings (elections & motions) was confusing
  - Motions should be in order
  - ~20% voters logged in but did not vote
- Do you prefer the focused week of meetings in the session?
  - Several indicated support
  - Blocking the week off in one's schedule (especially when it is not your time zone) is preferable
  - Opportunity for better cross-participation
  - Suggestion to schedule hallway discussions, or have "office hours"