

# 802.1 Plenary – November 2017

## Orlando, FL, USA

### Closing Agenda

Glenn Parsons – IEEE 802.1 WG Chair  
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# 802.1 plenary agenda

## Monday opening

- [Call for Patents](#)
- Participation [guidelines](#)
- Administrative
- Membership status
- Future Meetings
- 802 reports
- Sanity check – current projects
- Incoming Liaisons
- IEC/IEEE joint working group proposal
- TG agendas

## Wednesday midweek

- [Call for Patents](#)
- Sanity check – current projects
- Future Meetings
- Incoming Liaisons
- 802.11aq/RAC issue
- Ethertype/RAC issue
- Motions for EC consent agenda
- Motions for 802.1

## Friday closing

- [Call for Patents](#)
- Membership status
- Future Meetings
- Sanity check – current projects
- 802 reports
- 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:**
  - The 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 the IEEE is not aware. Additionally, neither the 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, Patents, and Duty to Inform

All participants in this meeting have certain obligations under the IEEE-SA Patent Policy.

- **Participants [Note: Quoted text excerpted from IEEE-SA Standards Board Bylaws subclause 6.2]:**
  - **“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**
  - **“Should inform the IEEE (or cause the IEEE to be informed)” of the identity of “any other holders of potential Essential Patent Claims” (that is, third parties that are not affiliated with the participant, with the participant’s employer, or with anyone else that the participant is from or otherwise represents)**
- **The above does not apply if the patent claim is already the subject of an Accepted Letter of Assurance that applies to the proposed standard(s) under consideration by this group**
- **Early identification of holders of potential Essential Patent Claims is strongly encouraged**
- **No duty to perform a patent search**

# Patent Related Links

All participants should be familiar with their obligations under the IEEE-SA Policies & Procedures for standards development.

Patent Policy is stated in these sources:

IEEE-SA Standards Boards 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](mailto:patcom@ieee.org) or visit <http://standards.ieee.org/about/sasb/patcom/index.html>

This slide set is available at  
<https://development.standards.ieee.org/myproject/Public/mytools/mob/slideset.ppt>

# 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:
  - Either speak up now 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
  - Cause an LOA to be submitted

# 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, including licensing costs of essential patent claims, of different technical approaches may be discussed in standards development meetings.
      - Technical considerations remain 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.**

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See *IEEE-SA Standards Board Operations Manual*, clause 5.3.10 and “Promoting Competition and Innovation: What You Need to Know about the IEEE Standards Association's Antitrust and Competition Policy” for more details.

# Participation in IEEE 802 Meetings

- Participation in any IEEE 802 meeting (Sponsor, Sponsor Subgroup, Working Group, Working Group Subgroup, etc.) is on an individual basis
  - *Participants in the IEEE standards development individual process shall act based on their qualifications and experience. ([https://standards.ieee.org/develop/policies/bylaws/sb\\_bylaws.pdf](https://standards.ieee.org/develop/policies/bylaws/sb_bylaws.pdf) section 5.2.1)*
  - *IEEE 802 Working Group membership is by individual; “Working Group members shall participate in the consensus process in a manner consistent with their professional expert opinion as individuals, and not as organizational representatives”. ([http://iee802.org/PNP/approved/IEEE\\_802\\_WG\\_PandP\\_v19.pdf](http://iee802.org/PNP/approved/IEEE_802_WG_PandP_v19.pdf) section 4.2.1)*
  - You have an obligation to act and vote as an individual and not under the direction of any other individual or group. Your obligation to act and vote as an individual applies in all cases, regardless of any external commitments, agreements, contracts, or orders.
  - You shall not direct the actions or votes of any other member of an IEEE 802 Working Group or retaliate against any other member for their actions or votes within IEEE 802 Working Group meetings, see [https://standards.ieee.org/develop/policies/bylaws/sb\\_bylaws.pdf](https://standards.ieee.org/develop/policies/bylaws/sb_bylaws.pdf) section 5.2.1.3 and [http://iee802.org/PNP/approved/IEEE\\_802\\_WG\\_PandP\\_v19.pdf](http://iee802.org/PNP/approved/IEEE_802_WG_PandP_v19.pdf) section 3.4.1, list item x
- By participating in IEEE 802 meetings, you accept these requirements. If you do not agree to these policies then you shall not participate.



# 802.1 officers

## □ Officers

- Chair: Glenn Parsons
- Vice Chair and Maintenance TG Chair: John Messenger
- Recording Secretary: Jessy Rouyer
- Security TG Chair: Mick Seaman
- TSN TG Chair: János Farkas
- Data Center Bridging TG Chair: Pat Thaler
- OmniRAN TG Chair: Max Riegel
- Maintenance of website: John Messenger & Paul Unbehagen
- Maintenance of Email exploder: Hal Keen

## □ Website

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

# 802.1 website update

- WordPress on [IEEE server](#) operational
  - Paul Unbehagen is leading
- Phase I
  - consolidate all current web pages/servers
  - distribute page change control to TG chairs and project editors
  - Rewrite rules from [current server](#)
- Phase II
  - move document storage to new Mentor?

# The following are 802.1 voters (59):

Assmann, Ralf  
Bao, Shenghua  
Bechtel, Gordon  
Bierschenk, Jens  
Bjornstad, Steinar  
Boiger, Christian  
Bottorff, Paul  
Chen, David  
Chen, Feng  
Cheng, Weiying  
Congdon, Paul  
Cummings, Rodney  
Elbakoury, Hesham  
Farkas, Janos  
Finn, Norman  
Fontaine, Mickael  
Garner, Geoffrey  
Gray, Eric  
Gunther, Craig  
Gutierrez, Marina

Haddock, Stephen  
Hantel, Mark  
Heffernan, Patrick  
Holness, Marc  
Karl, Michael  
Keen, Hal  
Kehrer, Stephan  
Korhonen, Jouni  
Koto, Hajime  
Li, Yizhou  
Mangin, Christophe  
McIntosh, James  
Messenger, John  
Moskowitz, Robert  
Mustala, Tero  
Ohsawa, Tomoki  
Pannell, Donald R  
Parsons, Glenn  
Pienciak, Walter  
Potts, Michael

Randall, Karen  
Riegel, Maximilian  
Rouyer, Jessy  
Ryyty, Eero  
Samii, Soheil  
Sato, Atsushi  
Schewe, Frank  
Seaman, Michael  
Specht, Johannes  
Thaler, Patricia  
Unbehagen, Paul  
Wang, Xinyuan  
Wang, Hao  
Wang, Tongtong  
Weber, Karl  
Weis, Brian  
Woods, Jordon  
Yu, Xiang  
Zein, Nader

# The following became voting members this week:

Bechtel, Gordon

Congdon, Paul

Elbakoury, Hesham

Karl, Michael

Ohsawa, Tomoki

Sato, Atsushi

Yu, Xiang

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

Cam-Winget, Nancy

Ellegard, Lars

Geilhardt, Frank

Gravel, Mark

Hotta, Yoshifumi

Huang, Jing

Hung, Soar

Itaya, Satoko

Kojima, Fumihide

Marks, Roger

Maruhashi, Kenichi

Qiu, Wei

Schmitt, Juergen

Shen, Li

Ting, Ao

Veisllari, Raimena

Wu, Yanwei

Yin, Yue

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

Korhonen, Jouni

Ryytty, Eero

The following will lose voting member status for insufficient WG ballot return:

Heffernan, Patrick

# Future interim meetings

- January 22-26, 2018
  - [ITU-T](#) in Geneva, Switzerland
- May 21-25, 2018
  - [Ethernet Alliance](#) in Pittsburgh, USA
- September 10-14, 2018
  - [Transpacket](#) in Oslo, Norway
- Jan 14-18, 2019
  - [NICT proposal](#) in Hiroshima, Japan
- May 20-24, 2019
  - [Ethernet Alliance](#) in North America
- Sept 2019
  - Potential ADVA Optical Networking proposal



# Future plenaries

- March 4-9, 2018 – Chicago, IL USA
  - Hyatt Regency O'Hare
- July 9-13, 2018 – San Diego, CA USA
  - Manchester Grand Hyatt
- November 12-16, 2018 – Bangkok, Thailand
  - Marriott Marquis Queen's Park
- March 10-15, 2019 – Vancouver, BC, Canada
  - Hyatt Regency Vancouver and Fairmont Hotel Vancouver
- July 14-19, 2019 – Vienna, Austria
  - Austria Congress Centre
- November 10-15, 2019 – Waikoloa, HI, USA
  - Hilton Waikoloa Village

# Sanity check – current workload

Project	Subject	Last Motion	Current Stage	Draft#	Next action	PAR ends
802.1CB	Frame Replication and Elimination	RevCom - cond	Published Oct 27	D2.8		Dec '17
802.1Qcc	SRP enhancements & performance improvements	Sponsor Ballot - cond	Sponsor pool	D2.0	Sponsor Ballot	Dec '17
802.1CF	Access network (OmniRAN)	TG ballot	TG ballot	D0.6	WG ballot	Dec '18
802.1AS-REV	Time synch enhancements	PAR modification	WG ballot	D5.1	Sponsor Ballot (March)	Dec '19
802c	Local Address space	RevCom	Published - Aug 24	D2.1		Dec '19
802.1Qci	Per Stream Filtering & Policing	RevCom	Published - Oct 6	D2.0		Dec '19
802.1Qcj	Auto Attach to PBB	TG Ballot	TG Ballot	D0.2	WG ballot (March)	Dec '19
802.1Xck	802.1X YANG data model	WG ballot	WG ballot	D1.2	WG ballot recirc	Dec '19
802.1CM	Profile for Fronthaul	WG ballot	WG ballot	D1.0	Sponsor Ballot - cond	Dec '19
802.1Qcn	EVB VDP extension	Change to .1Qcy	WG ballot	D1.0	Sponsor Ballot - cond	Dec '19
802.1Qcp	802.1Q YANG data model	Sponsor Ballot - cond	Sponsor pool	D2.0	Sponsor Ballot	Dec '19
802E	Privacy	TG ballot	TG ballot	D0.7	TG Ballot	Dec '19
802.1CQ	Local Address protocol	PAR approved	Editor's draft	D0.1	Editor's draft	Dec '20
802.1Qcr	Asynchronous Traffic Shaping	TG ballot	TG ballot	D0.2	TG ballot	Dec '20
802.1CS	LRP	TG ballot	TG ballot	D1.1	TG ballot	Dec '21
802.1AX-REV	Link Aggregation	TG ballot	TG ballot	D0.1	WG Ballot	Dec '20
802.1AR-REV	Secure Device Identity	Sponsor Ballot	Sponsor Ballot	D2.2	Sponsor Ballot recirc	Dec '21
802.1Q-REV	Bridges and Bridged Networks	Sponsor Ballot	Sponsor Ballot	D2.0	RevCom (Jan/Mar)	Dec '20
802.1AE-REV	MAC security	WG ballot	PAR Approved		Editor's draft	Dec '21
802.1ACct	support for 802.15.3	PAR development	PAR Approved		TG Ballot	Dec '21
802.1ABcu	LLDP YANG	PAR development	PAR Approved		TG Ballot	Dec '21
802.1CBcv	FRER YANG & MIB	PAR development			NesCom	
802.1Qcw	TSN (Qbu, Qbv, Qci) YANG	PAR development	PAR Approved		TG Ballot	Dec '21
802.1Qcx	CFM YANG	PAR development	PAR Approved		TG Ballot	Dec '21
802.1AC/cor 1	MAC Service		PAR Approved	D1.0	WG Ballot	Dec '21



# 802 reports

## □ IETF SC

- Joint coordination meeting at IETF next week focused on YANG

<https://www.iab.org/activities/joint-activities/iab-ieee-coordination/>

## □ JTC1 SC

- Withdrawal of 8802-1 and 15802-1/3

## □ ITU SC

- GSC-21

## □ 802 TF

- Open Source
- myProject

# IEEE Open Source offering

## □ Summary with CLA

- <https://mentor.ieee.org/802-ec/dcn/17/ec-17-0103-00-00SA-ieee-open-source-offering.pdf>
- <https://mentor.ieee.org/802-ec/dcn/17/ec-17-0172-00-00EC-ieee-sa-update-on-open-source-activity.pdf>

## □ IEEE 802 [view](#)

- Maintain option of current process
  - i.e., source code (YANG, MIB, etc) can be developed as part of the standards process
- Interest with open source for normative/informative use in standards (notably for YANG)
  - Possible interest with being part of a trial
  - But there are concerns with the proposed process (e.g., CLA)

## □ Continue discussion in YANGsters on open source

# myProject status

- Revision of the myProject tool is under active development
  - 802 will remain on current tools through 2018
  - Mentor and IMAT will be considered in a separate later project/phase
- EC volunteers will review the requirements and initial demonstration code.
- Transition/data migration planning will be started around spring 2018.

# TG reports

- Security
- DCB
- TSN
- OmniRAN
- Maintenance
- Industry Connections

# Agenda - Security

1. P802.1Xck (Port-Based Network Access Control – YANG Data Model)
  - Finalize WG Ballot Resolution [Tuesday following YANG, Tuesday pm 2](#)
2. P802.1AR-Rev (Secure Device Identity)
  - Initial Sponsor Ballot resolution continued. [Wednesday am, Wednesday pm](#)
3. JTC1 SC6 SC participation [Tuesday pm1](#)

No work this meeting on P802.1AE-Rev (PAR approved, waiting for Editor to produce first roll-up, WG ballot already approved) and P802E Privacy (Editor unable to attend)



# DCB status

- P802.1Qcn completed WG ballot comment resolution
  - No remaining disapproves
  - Conditional to Sponsor Ballot after Dec SB
- Addressing
  - Drafted response to Wireless Broadband Alliance
  - Discussed P802.11aq comments re random addressing compatibility with IEEE Std 802 and IEEE Std 802c
  - P802.1CQ Proposal from Ao Ting
- New Work
  - Congestion Isolation
    - Presentations on Design team on issues and potential solution, Simulation results, and Project discussion
    - Requesting approval to develop and precirculate PAR and CSD

# 802.1 TSN TG Agenda

**V2**

**IEEE 802 PLENARY SESSION**  
**Orlando, Florida**  
**November 5-10, 2017**

## 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		AS-Rev	MTN TG	CBcv PAR, Qcr, Qcr YANG, CS, RAP	IEC joint work, Q-Rev, liaisons	new work
08:30-09:00						
09:00-09:30		Opening 802.1 plenary	YANG: Qcp, Xck, Q-Rev Sponsor ballot		AS-Rev with .11	Closing 802.1 Plenary
09:30-10:00						
10:00-10:30		Break	Break		Break	Break
10:30-11:00		Lunch	Lunch	Lunch	Lunch	Lunch
11:00-11:30						
11:30-12:00		liaisons, CM WG ballot	802.3cg joint	Midweek 802.1 plenary	AX-Rev, liaisons, new work	Closing 802 EC
12:00-12:30						
12:30-13:00		Tutorials	IC - 802 NEND	Social event		KEY:  TSN: Time Sensitive Netw'kg MTN TG: Maintenance TG SEC: Security DCB: Data Center Bridging OR: OmniRAN
13:00-13:30						
13:30-14:00		TG Chairs Mtg	Break	Break	Break	
14:00-14:30						
14:30-15:00		Joint .1/15				
15:00-15:30						
15:30-16:00		CM WG ballot				
16:00-16:30						
16:30-17:00						
17:00-17:30						
17:30-18:00						
18:00-18:30						
18:30-19:00						
19:00-19:30						
19:30-20:00						
20:00-20:30						
20:30-21:00						
21:00-21:30						
21:30-22:00						

- Note that the agenda is subject to change, e.g., depending on progress etc.

- TSN agenda details: <http://www.802tsn.org/agenda>

# OmniRAN TG Achievements

Orlando meeting, November 6<sup>th</sup> – 9<sup>th</sup>

- Progressing P802.1CF
  - Initial content on Information Model agreed.
    - Completely covers service aspects (user sessions)
    - Network setup and fault discovery and maintenance require final edits.
  - Adoption of Time Sensitive Networking to 802.1CF discussed and required amendments reviewed
    - Initial text proposal available, but further details required to complete text amendment.
  - Review of status and agreement on moving forward to WG balloting.
    - Draft specification will be completed within next teleconferences.
- Estimated timeline for P802.1CF:
  - Starting WG ballot after Nov 2017, Sponsor Ballot Jul 2018
- Preparation of contributions to IC NEND
  - Two contributions previewed with feedback on potential enhancements for presentation in IC NEND

# Looking forward to next session in Geneva, CH, January 22-26, 2018

- Envisioned topics:
  - Resolve comments received in the initial WG ballot.
  - Potentially discuss contributions to the IC NEND.
  
- Upcoming conference calls:
  - Nov 28<sup>th</sup>, 0930AM ET
    - to progress contributions and editorial clean-up
  - Dec 5<sup>th</sup>, 0930AM ET
    - to agree on final additions for D0.7
  - Dec 12<sup>th</sup>, 0930AM ET
    - to conclude on P802.1CF-D1.0 for WG ballot
  
- WG ballot:
  - Start on Dec 18<sup>th</sup> with comment submission deadline on January 19<sup>th</sup>.

# Maintenance TG

## 802.1 Maintenance Status

Category	Count
Approved	0
Ready for Ballot	3
Complete then Ballot	4
Complete then Errata	0
Errata	0
Failed	0
Incomplete	0
Rejected	26
Published	108
Received	1
Errata Sheet Published	0
Technical experts review	2
Balloting	26
Withdrawn	0

# Maintenance Status Update

## □ Progressed

- 4 outstanding maintenance items
  - 0 closed
- 2 new maintenance items since July
- Comment responses on one PSDO ballot prepared for approval
- 1 draft to PSDO for information
- 1 draft to PSDO for adoption

# Maintenance Items progressed

## Nov 2017 Plenary Meeting

**Location:** Orlando, FL

<b>Number</b>	<b>Status</b>	<b>Submitted</b>	<b>Standard</b>	<b>Clause</b>	<b>Subject</b>	<b>Draft</b>
0183	Ready for Ballot	2017-05-17	802.1Q	21.4.3	CFM OpCodes	
0195	Received	2017-09-25	802.1Qch	Q.5.1	802.1Qch typo in Figure Q-3	
0196	Balloting	2017-10-04	802.1X	9	802.1X (MKA pending PN exhaustion)	802.1Xck/D1.1
0196	Balloting	2017-10-04	802.1X	9	802.1X (MKA pending PN exhaustion)	802.1Xck/D1.1

# 802.1 Stds for SC6 approval (1/2)

## – PSDO approved

- 802.1AE-2006
  - 802.1X-2010
  - 802.1AS-2011 (Time synch)
  - 802.1AB-2009 (LLDP)
  - 802.1AR-2009 (Secure device ID)
  - 802.1AEbn-2011
  - 802.1AEbw-2013
  - 802.1AX-2014
  - 802-2014
  - 802.1Xbx-2014
  - 802.1Q-2014
  - 802.1BA-2011 (AVB systems)
  - 802.1BR-2012 (Port extender)
  - 802.1AB-2016 (Stn & MAC Conn Disc)
  - 802.1Qbv-2015 (Enhs for Sch Traffic)
  - 802.1Qca-2015 (Path Control & Reserv)
  - 802.1Qbu-2016 (Frame Preemption)
  - 802.1Qbz-2016 (Enh to Bridging 802.11)
  - 802.1Q-2014/Cor 1-2015
  - 802.1AX-2014/Cor1-2017
- FDIS passed Oct 2013, cmnts liaised Jan 2014
  - FDIS passed Oct 2013, cmnts liaised Jan 2014
  - FDIS passed Dec 2013, cmnts liaised May 2014
  - FDIS passed Dec 2013, cmnts liaised May 2014
  - FDIS passed Dec 2013, cmnts liaised May 2014
  - ISO/IEC 8802-1AE:2015/Amd 1 (Apr 2015)
  - ISO/IEC 8802-1AE:2015/Amd 2 (Apr 2015)
  - FDIS passed Nov 2015; no comments
  - FDIS passed Nov 2015, cmnts liaised Jan 2016
  - FDIS passed Dec 2015; cmnts liaised 20 April
  - FDIS passed Jan 2016; cmnts liaised 20 April
  - FDIS passed August 2016; no comments
  - FDIS passed August 2016; no comments
  - FDIS passed 4/17; Cmt resp liaised Jul 2017
  - FDIS passed 4/17; Cmt resp liaised Jul 2017
  - FDIS passed 4/17; Cmt resp liaised Jul 2017
  - FDIS passed 13 Oct 2017; to be published
  - FDIS passed 13 Oct 2017; to be published
  - FDIS passed 4/17; Cmt resp liaised Jul 2017 to be published
  - 90 day Cor FDIS passed Jul 2017; no cmts to be published



# 802.1 Stds for SC6 approval (2/2)

- For adoption - PSDO in process (FDIS)
  - 802.1Qcd (Application VLAN TLV) - FDIS Ballot closes 1 Dec 2017 (date extended)
  - 802.1AC-2016 (MAC Svc Def) - FDIS Ballot closes 5 March 2018
  - 802d-2017 (URN Namespace) - FDIS ballot closes 14 March 2018
- For adoption - PSDO in process (60 day pre-ballot)
  - 802.1AEcg-2017 (EDE devices) - Ballot closed 7 Sep 2017; one cmt from China; response to be done Nov 2017 meeting
  - 802.1Qci (Per stream filtering & policing) - Ballot closes 9 Dec 2017
- For Information
  - IEEE 802c (Local MAC Address Usage) - D2.1 sent 30 March 2017; in Sponsor Ballot. Need motion to send when published.
  - IEEE 802.1Q-Rev (Bridges) - Motion 3/17: D2.0 sent 27 July 2017
  - IEEE 802.1AR-Rev (Secure DevID) - Motion 7/17 to send for info when ready  
\*\*in Sponsor Ballot now; can be sent to SC6 for info
  - IEEE 802.1Qcc (Stream Res Protocol) - Motion 7/17 to send for info when ready
  - IEEE 802.1Qcp (Bridges YANG) - Motion 7/17 to send for info when ready
- Next to send – send for adoption/start ballots (TBD)
  - 802.1CB (Frame Repl & Elim for Reliability) - D2.6 sent for info 9/2016; send when pub – motion 3/17
  - 802.1Qch (Cyclic Queuing & Fwding) - D2.0 sent for info 11/2016; send when pub – motion 3/17

# Industry Connections Summary

## 'IEEE 802 network enhancements for the next decade'

- Activity:
  - Market research into emerging IEEE 802 networking requirements
- Expected deliverable:
  - Report to 802.1 with recommendations regarding new standardization topics, documentation of use cases and user needs for those topics, and proposed organizational approaches to ensure effective participation from user communities.
- Current topics:
  - Factory wired & wireless networking
  - Data Center Lossless Networks
- Meetings
  - Second [meeting](#) this week
  - Monthly Conference calls will be set up in the fall
  - Next meeting, Tuesday evening at November plenary
  - Future outreach meetings and industry conferences/events

# Incoming Liaisons (1)

## □ TSN:

- BBF on YANG  
<http://www.ieee802.org/1/files/public/docs2017/liaison-bbf2017.525.01-SOAM YANG-0717.pdf>  
<http://www.ieee802.org/1/files/public/docs2017/liaison-BBF-84-CFM YANG-0917.zip>
- ITU-T Q14/15 on CFM YANG  
<http://www.ieee802.org/1/files/public/docs2017/liaison-SG15-LS68 CFM OAM 1017.zip>
- Latest 1588 draft  
<http://www.ieee802.org/1/files/private/1588-drafts/IEEE%201588-2017 DRAFT STANDARD D1.2-diff-marks-from-2008.pdf>
- 802.3cg  
[http://www.ieee802.org/1/files/public/docs2017/liaison-IEEE\\_802d3cg\\_mutidrop\\_and\\_TSN\\_0917.pdf](http://www.ieee802.org/1/files/public/docs2017/liaison-IEEE_802d3cg_mutidrop_and_TSN_0917.pdf)
- 3GPP RAN3 on fronthaul  
<http://www.ieee802.org/1/files/public/docs2017/liaison-3GPP-RAN3-173354-0917.zip>
- MEF on 5G transport and 802.1CM  
[http://www.ieee802.org/1/files/public/docs2017/liaison-MEF-L00267\\_MEF5GWork\\_0917.pdf](http://www.ieee802.org/1/files/public/docs2017/liaison-MEF-L00267_MEF5GWork_0917.pdf)  
[http://www.ieee802.org/1/files/public/docs2017/liaison-MEF\\_L00274\\_on\\_MBH\\_MEF\\_22.3\\_1117.pdf](http://www.ieee802.org/1/files/public/docs2017/liaison-MEF_L00274_on_MBH_MEF_22.3_1117.pdf)
- MEF on One-way Frame Delay Performance  
[http://www.ieee802.org/1/files/public/docs2017/liaison-MEF\\_L00273\\_on\\_FrameDelay\\_1117.pdf](http://www.ieee802.org/1/files/public/docs2017/liaison-MEF_L00273_on_FrameDelay_1117.pdf)
- NGMN on 5G E2E Architecture Framework  
[http://www.ieee802.org/1/files/public/docs2017/liaison-NGMN-5G\\_E2E\\_architecture\\_1017.zip](http://www.ieee802.org/1/files/public/docs2017/liaison-NGMN-5G_E2E_architecture_1017.zip)
- NGMN on RAN functional split and Xhaul  
[http://www.ieee802.org/1/files/public/docs2017/liaison-NGMN-RAN\\_functional\\_split+xhaul-1017.pdf](http://www.ieee802.org/1/files/public/docs2017/liaison-NGMN-RAN_functional_split+xhaul-1017.pdf)

# Incoming Liaisons (2)

- Maintenance:
  - MEF 10.4 approved draft  
[http://www.ieee802.org/1/files/public/docs2017/liaison-MEF-L00268\\_MEF\\_10.4\\_AD1\\_0917.pdf](http://www.ieee802.org/1/files/public/docs2017/liaison-MEF-L00268_MEF_10.4_AD1_0917.pdf)
- Plenary (liaison officer & document request):
  - EtherCAT technology group  
[http://www.ieee802.org/1/files/public/docs2017/liaison-ETG\\_802.1\\_liaison\\_request-1017.pdf](http://www.ieee802.org/1/files/public/docs2017/liaison-ETG_802.1_liaison_request-1017.pdf)
  - PI (Profibus /Profinet)  
<http://www.ieee802.org/1/files/public/docs2017/liaison-PI-IEEE802-1117.pdf>
  - IEC SC65C  
[http://www.ieee802.org/1/files/public/docs2017/liaison-IEC-SC65C-formal\\_liaison\\_request-1017.txt](http://www.ieee802.org/1/files/public/docs2017/liaison-IEC-SC65C-formal_liaison_request-1017.txt)
- DCB:
  - WBA on 802c  
<http://www.ieee802.org/1/files/public/docs2017/liaison-WBA-Roaming-OUI-1017.pdf>

# Outgoing liaison discussion

- Liaison response to NGMN - Xhaul
- Liaison response to BBF - CFM OAM YANG
- Liaison response to ITU-T SG15 LS68 – CFM OAM YANG
- Liaison response to EtherCAT
- Liaison response to PI
- Liaison to WFA
- Liaison response from IEEE 802 to WBA

# EC regular motions

- Drafts to Sponsor ballot (ME)
  - IEEE 802.1CM – *conditional* – TSN for Fronthaul
  - IEEE 802.1Qcn – *conditional* – VSI VDP Extension to Support NVO3
- Drafts to RevCom (ME)
- Liaisons (II)
  - Liaison response to NGMN - Xhaul
  - Liaison response to BBF - CFM OAM YANG
  - Liaison response to ITU-T SG15 LS68 – CFM OAM YANG
  - Liaison response to EtherCAT
  - Liaison response to PI
  - Liaison to WFA
- Liaisons (ME)
  - Liaison response from IEEE 802 to WBA

# Drafts to Sponsor ballot

# Motion

- Conditionally approve sending P802.1CM D2.0 to Sponsor Ballot
- Confirm the CSD for P802.1CM in <https://mentor.ieee.org/802-ec/dcn/15/ec-15-0073-00-ACSD-802-1cm.pdf>
- P802.1CM D1.0 had 84 % approval at the end of the last WG ballot
  - In the WG (y/n/a): 27, 0, 2
    - Proposed: János Farkas      Second: David Chen
  - In EC, mover: Glenn Parsons      Second: Pat Thaler
    - (y/n/a): <y>,<n>,<a>



# Supporting information P802.1CM

- WG ballot closed: 23 October 2017
- 7 votes changed during the ballot comment resolution resulting in
  - 3 outstanding Disapprove votes, 6 outstanding Must Be Satisfied comments
- Comment resolution available here:  
<http://ieee802.org/1/files/private/cm-drafts/d1/802-1CM-d1-0-dis-v03.pdf>
- Recirculation ballot will be conducted during December with comment resolution during January Interim and on the TSN TG calls. A possible final recirculation in February if required with comment resolution on the TSN TG calls.

Ballot results:

CATEGORY	All respondents	
	TOTAL	%
Yes	16	84.21
No	3	15.79
Voting Yes or No	19	100
Abs. Time	4	
Abs. Expertise	16	
Abs. Other	2	
No. of voting members	52	100
Voters responding	39	75
Non-voter Commenters	3	
No. of commenting contributors	18	
No. of comments	187	
TR	54	
T	26	
ER	33	

# Supporting information

## P802.1CM

- 3 voters with outstanding Disapprove votes:
  - Bao, Shenghua
  - Cheng, Weiying
  - Garner, Geoffrey

# Supporting information P802.1CM

## P802.1CM/D1.0 TSN for Fronthaul Initial Working Group ballot comments

Cl 6	SC 6.2	P 13	L 53	# 15
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Bao, Shenghua Huawei

Comment Type TR Comment Status A

"eCPRI [B6] bit rates between the eRE and the eREC are smaller than CPRI [B5] bit rates due to the flexible functional decomposition of eCPRI"

not always smaller because of the split E.

Be aware that split E is also included in eCPRI scope. So this sentence is not right.

SuggestedRemedy  
should add a premise to get rid of split E

Response Response Status U

ACCEPT IN PRINCIPLE.  
See comment #61 and #62.

This sentence is based on "Compared to the CPRI [1], eCPRI makes it possible to decrease the data rate demands between eREC and 10 eRE via a flexible functional decomposition while limiting the complexity of the eRE." in section 1 of [B6].

Cl 7	SC 7.4	P 21	L 38	# 20
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Bao, Shenghua Huawei

Comment Type TR Comment Status A

"Point-to-point synchronization distribution" is talking about TDM based CPRI, is out of the scope of 802.1cm. And it is about the RE (not eRE)

And from the last sentence of "The actual link could be a point-to-point Ethernet link that carries fronthaul traffic." it seems talking about CPRI over ETH? this usecase has been verified useless and it is not included in the eCPRI specification scope.

SuggestedRemedy  
delete it

Response Response Status U

ACCEPT IN PRINCIPLE.

Update to:  
"In this method, a 2-way protocol is used for time alignment. The eREs that need to be time or phase aligned do not have to be co-located. The actual link could be a point-to-point Ethernet link that carries fronthaul traffic and PTP."

Cl 7	SC 7.4	P 21	L 46	# 21
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Bao, Shenghua Huawei

Comment Type TR Comment Status A

"The main difference between b) and a) is that the eREs are co-located and the common master is co-located with the eREs in case b), whereas, the eREs do not need to be co-located (the common master is remote) in case a)."

I really don't think it is the main difference between a) and b). They not totally not the same category of usecase, one is based on TDM CPRI, the other is based on ETH

and I really don't find out the purpose to describe this difference.

SuggestedRemedy  
delete the difference

Response Response Status U

ACCEPT IN PRINCIPLE.  
Related to comment #20.

Update the structure to clarify, e.g., combine items a) and b).

# Supporting information P802.1CM

## P802.1CM/D1.0 TSN for Fronthaul Initial Working Group ballot comments

Cl 6 SC 6.1 & 6.2 P 12 & 13 L 20 # 32

Bao, Shenghua Huawei

Comment Type TR Comment Status R

Now eCPRI has been published, and as we all know that both Class I and Class II are all included in eCPRI specification scope. And the requirements of these two Classes are all the same.

So I don't think there is any necessity to separate into 2 different chapters like 6.1 and 6.2. They can be combined into one chapter, only the split descriptions have some differences, others such as Latency and FLR and C&M requirements are all the same !!

SuggestedRemedy

Combine to one chapter

Response Response Status U

REJECT.

Class 1 and Class 2 correspond to two very different splits. Class 1 is Split E, which is a split between the Radio Function (RF) and the Phy. Whereas Class 2 is Split (ID;IU;U), which is an Intra-PHY split. The eCPRI specification [B6] makes it very clear that they are different splits, e.g., Figure 5 and Figure 32. As a consequence of having the split between different functional blocks of the RBS, different data is transmitted via the fronthaul interface. Furthermore, as section 1 of [6] describes: "Compared to the CPRI [1], eCPRI makes it possible to decrease the data rate demands between eREC and 10 eRE via a flexible functional decomposition while limiting the complexity of the eRE." Clearly, Class 1 and Class 2 correspond to two very different fronthaul interfaces, they are not the same. Therefore, subclauses 6.1 and 6.2 should not be merged. Such a merge would confuse a lot of readers of the 802.1CM specification.

Common requirements towards the bridge network come from the application of CPRI and eCPRI to the same radio interface, i.e., E-UTRA in particular. That is, the requirements are common because they come from E-UTRA. However, common requirements do not make two very different fronthaul interfaces the same.

Combining Class 1 and Class 2 would cause confusion in the industry.

Cl A SC A.11 P 42 L 28 # 58

Cheng, Welyng Coriant

Comment Type TR Comment Status A

This table implies that those items can be selected independently. However, some features must be used together. For example, if B-S-7 is used, then B-S-4 must be used. This table does not show this.

SuggestedRemedy

B-S-4 should be B-S-7:M

Response Response Status U

ACCEPT IN PRINCIPLE.  
See comment #43.

Cl A SC A.13 P 43 L 27 # 69

Cheng, Welyng Coriant

Comment Type TR Comment Status A

Same as comment 11

SuggestedRemedy

E-S-4 should be E-S-7:M

Response Response Status U

ACCEPT IN PRINCIPLE.  
Refers to comment #68.

The end station has to recover time, which implies T-TSC. It will be updated to make the relationship clear.

# Motion

- Conditionally approve sending P802.1Qcn\* to Sponsor Ballot
- Confirm the CSD for P802.1Qcn in <https://mentor.ieee.org/802-ec/dcn/15/ec-15-0072-00-ACSD-802-1qcn.pdf>
- P802.1Qcn D1.0 had 100% approval at the end of the last WG ballot
  - In the WG (y/n/a): 32, 0, 0
    - Proposed: Pat Thaler      Second:
  - In EC, mover: Glenn Parsons    Second: Pat Thaler
    - (y/n/a): <y>,<n>,<a>

\* Note that a change of designation to P802.1Qcy has been requested because of confusion of Qcn with the acronym for Quantized Congestion Notification (QCN).

# Supporting information P802.1Qcn

- WG ballot closed: 9 October 2017
- 3 Disapprove votes converted to approve for a final result of  
10 Yes  
0 No
- No outstanding Disapprove votes
- Sponsor ballot will start after NesCom approval of rename to 802.1Qcy

**Initial Ballot Results**

CATEGORY	ALL RESPONDENTS	
	TOTAL	%
Yes	7	70
No	3	30
Voting Yes or No	10	27
Abs. Time	4	11
Abs. Expertise	23	62
Abs. Other	0	0
Respondents	37	37
Voters	43	83
Liaisons responding	0	
No. of commenters	5	14
No of comments	43	

# Schedule for recirculation

- Nov 28 – Dec 13      First recirculation
- Jan 2 at 5PM Pacific call to resolve comments
- Dec 6 - NesCom/SB change designation to Qcy
- Initiate Sponsor ballot pool formation after SASB
- Jan 5 – Jan 20      Second recirculation
- Resolve comments at January interim
- Initiate Sponsor ballot

# Liaisons (II)



# Motion

- Approve liaison of the following response to Next Generation Mobile Networks
  - <http://www.ieee802.org/1/files/public/docs2017/liaison-response-NGMN-RAN-functional-split-1117-v01.pdf>
- In the WG (y/n/a): 30, 0, 0
  - Proposed: János Farkas                      Second: Karl Weber
- In EC, mover: Glenn Parsons                      Second: Pat Thaler
  - (y/n/a): <y>,<n>,<a>

# Motion

- Approve liaison of the following response to Broadband Forum
  - <http://www.ieee802.org/1/files/public/docs2017/1iaison-response-BBF-84-1117-v01.pdf>
- In the WG (y/n/a): 30, 0, 0
  - Proposed: Jessy Rouyer    Second: János Farkas
- In EC, mover: Glenn Parsons Second: Pat Thaler
  - (y/n/a): <y>, <n>, <a>

# Motion

- Approve liaison of the following response (to LS 68) to ITU-T SG15
  - <http://www.ieee802.org/1/files/public/docs2017/liaison-response-ITU-T-SG15-LS68-1117-v01.pdf>
- In the WG (y/n/a): 30, 0, 0
  - Proposed: Jessy Rouyer                      Second: János Farkas
- In EC, mover: Glenn Parsons                      Second: Pat Thaler
  - (y/n/a): <y>,<n>,<a>

# Motion

- Approve liaison of the following response to EtherCAT Technology Group
  - <http://www.ieee802.org/1/files/public/docs2017/liaison-response-ETG-1117-v01.pdf>
- In the WG (y/n/a): 32, 0, 0
  - Proposed: Karl Weber    Second: János Farkas
- In EC, mover: Glenn Parsons                      Second: Pat Thaler
  - (y/n/a): <y>,<n>,<a>

# Motion

- Approve liaison of the following response to PROFIBUS and PROFINET International
  - <http://www.ieee802.org/1/files/public/docs2017/liaison-response-PI-1117-v01.pdf>
- In the WG (y/n/a): 32, 0, 0
  - Proposed: John Messenger      Second: János Farkas
- In EC, mover: Glenn Parsons      Second: Pat Thaler
  - (y/n/a): <y>,<n>,<a>

# Motion

- Approve liaison of the following letter to Wi-Fi Alliance
  - <http://www.ieee802.org/1/files/public/docs2017/liaison-WFA-1117-v01.pdf>
- In the WG (y/n/a): 30, 0, 1
  - Proposed: John Messenger      Second: János Farkas
- In EC, mover: Glenn Parsons      Second: Pat Thaler
  - (y/n/a): <y>,<n>,<a>

# Liaisons (ME)

# Motion – liaison from IEEE 802

- Approve <https://mentor.ieee.org/802-ec/dcn/17/ec-17-0208-04-00EC-draft-response-to-wba-liaison.docx> as communication to Wireless Broadband Alliance granting the IEEE LMSC chair (or his delegate) editorial license.
  - This approval is under LMSC OM “Procedure for coordination with other standards bodies”
- In the WG (y/n/a): 28, 0, 3
  - Proposed: Pat Thaler      Second: Max Riegel
- In EC, mover: Glenn Parsons    Second: Pat Thaler
  - (y/n/a): <y>,<n>,<a>



# Motions - Administrative

# MOTION

- 802.1 approves the July 2017 (Plenary) and September 2017 (Interim) minutes:

<http://ieee802.org/1/files/public/minutes/2017-07-minutes-v2.pdf>

<http://ieee802.org/1/files/public/minutes/2017-09-minutes-v1.pdf>

Proposed: Jessy Rouyer Seconded: John Messenger

- Approved by acclamation

# Motions - Maintenance

# MOTION

- Authorize the editor of 802.1AC-2016/Cor-1 “Media Access Control (MAC) Service Definition – Corrigendum 1: Logical Link Control (LLC) Encapsulation EtherType”, John Messenger, to generate drafts for and conduct Working Group balloting.
- Proposed: Janos Farkas Second: Jessy Rouyer
- For\_\_29\_\_Against\_\_0\_\_Abstain\_\_0\_\_

# Motions - Security

# MOTION

- 802.1 authorizes the Security Task Group to hold teleconferences to progress P802.1AR-Rev, P802.1AE-Rev, P802.1Xck, P802E and task group matters arising:
  - Dates/times to be announced subject to notice of at least 10 days to the 802.1 email exploder
  
- Proposed: James McIntosh Second: John Messenger
- For: 30 Against: 0 Abstain: 0

# Motions – OmniRAN

# Motion:

## P802.1CF Working Group Ballot

- 802.1 authorizes Walter Pienciak, the editor of P802.1CF, to prepare drafts for and conduct Working Group balloting.

– Moved: Max Riegel

– Second: Hajime Koto

– For: 26      Against: 0      Abstain: 0



# Motion: Conference calls

- Approve OmniRAN TG conference calls:
  - Nov 28<sup>th</sup> , 09:30 AM ET, 90mins
  - Dec 5<sup>th</sup> , 09:30 AM ET, 90mins
  - Dec 12<sup>th</sup> , 09:30 AM ET, 90mins
  - Between the January 2018 interim and the March 2018 plenary with at least 10 days prior notice to the 802.1 mailing list.
    - Agenda and call-in details will be announced at least 10 days prior on the 802.1 mailing list and be made available on <http://1.ieee802.org/omniran/>
- Moved: Max Riegel,
- Second: Walter Pienciak
- Approved by acclamation

# Motions – DCB

# Motion: PAR and CSD development

- 802.1 authorizes two conference calls (for preparation) and the January 2018 Interim to develop PAR and CSD for pre-circulation to the EC for an amendment to IEEE 802.1Q to meet the objectives of Congestion Isolation as described in the DCB TG in contributions [new-dcb-congdon-congestion-isolation-1117-v01.pdf](#), [new-dcb-congdon-congestion-project-1117-v01.pdf](#) .
- Proposed: Pat Thaler
- Second: Yolanda Yu
- Approved (y/n/a): 30, 0, 0

# Motion: Conference Calls

Approve two virtual conferences for one hour to develop PAR and CSD for Congestion Isolation:

- Tuesday, Dec 12<sup>th</sup>, 5PM Pacific
- Tuesday Jan 9<sup>th</sup> 5PM Pacific

Access information will be announced on the 802.1 email reflector by the Friday before.

- Proposed: Pat Thaler
- Second: Yolanda Yu

Approved (y/n/a): 29, 0, 0

# Motion: Conference Call

Approve virtual conference for two hours to process Working Group recirculation ballot comments on 802.1Qcn:

□ Tuesday Jan 2<sup>th</sup> 5PM Pacific

Access information will be announced on the 802.1 email reflector by the Friday before.

- Proposed: Pat Thaler
- Second: Paul Bottorff

Approved (y/n/a): 29, 0, 0

# Motions - TSN

# Motion - PAR

- 802.1 authorizes the January 2018 Interim to generate PAR and CSD for pre-circulation to the EC for an amendment to IEEE 802.1CB to specify YANG and MIB.
- Proposed: Stephan Kehrer
- Second: Norman Finn
- In the WG (y/n/a): 29, 0, 0

# Motion - PAR

- 802.1 authorizes the January 2018 Interim to generate PAR and CSD for pre-circulation to the EC for an amendment to IEEE 802.1CB to specify additional stream identification methods.
- Proposed: Christophe Mangin
- Second: Jordon Woods
- In the WG (y/n/a): 24, 0, 3



# Motion - PAR

- 802.1 authorizes the January 2018 Interim to generate PAR and CSD for a standard specifying TSN profiles for Industrial Automation for pre-circulation to the EC. The standard will be developed by an IEC/IEEE JWG.
- Proposed: János Farkas
- Second: John Messenger
- In the WG (y/n/a): 28, 0, 2

# Motion – WG ballot

- 802.1 authorizes Stephen Haddock and Jessy Rouyer, the Editors of P802.1AX-Rev, Link Aggregation – Revision, to prepare drafts for and conduct Working Group balloting after successful completion of Task Group balloting.
  
- Proposed: Stephen Haddock
- Second: János Farkas
  
- In the WG (y/n/a): 30, 0, 0

# Motion – TG ballot

- 802.1 authorizes Scott Mansfield, the Editor of P802.1ABcu Station and Media Access Control Connectivity Discovery Amendment: YANG Data Model to prepare drafts for and conduct Task Group balloting.
- Proposed: János Farkas
- Second: Jessy Rouyer
- In the WG (y/n/a): 27, 0, 0

# Motion – TG ballot

- 802.1 authorizes Marina Gutierrez, the Editor of P802.1Qcw Bridges and Bridged Networks Amendment: YANG Data Models for Scheduled Traffic, Frame Preemption, and Per-Stream Filtering and Policing to prepare drafts for and conduct Task Group balloting.
- Proposed: János Farkas
- Second: Stephan Kehrer
- In the WG (y/n/a): 26, 0, 0

# Motion –TG ballot

- 802.1 authorizes Marc Holness, the Editor of P802.1Qcx Bridges and Bridged Networks Amendment: YANG Data Model for Connectivity Fault Management to prepare drafts for and conduct Task Group balloting.
  
- Proposed: János Farkas
- Second: Jessy Rouyer
  
- In the WG (y/n/a): 29, 0, 0

# Motion – TG ballot

- 802.1 authorizes the TSN Task Group to hold a teleconference on a proposed TSN Profile for Industrial Automation with participation from IEC SC65C/MT9 on February 20, 2018 from 7AM (US-Pacific) to 9AM (US-Pacific).
- Access information is posted on the <http://www.ieee802.org/1/pages/tsn.html> page and will be updated as necessary.
- Agenda will be announced on the 802.1 email reflector at least 10 days before the call.
- Proposed: János Farkas
- Second: Norm Finn
- In the WG (y/n/a): 28, 0, 0

# Motion

- 802.1 authorizes the January 2018 Interim to generate PAR and CSD for a standard specifying Quality of Service Provision for Non-Bridges for pre-circulation to the EC.
  
- Proposed: Norman Finn
- Second: Paul Bottorff
  
- In the WG (y/n/a): 21, 0, 10

# Motions – Any others?