802.1 Plenary – November 2017 Orlando, FL, USA

Midweek Agenda

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

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
- 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.

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(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**

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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 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

15 March 2015

IEEE

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

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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.**

  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.

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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 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://ieee802.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 section 5.2.1.3 and http://ieee802.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.

The following are 802.1 voters (58):

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
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

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
- May 20-24, 2019
  - Ethernet Alliance proposal
- Sept 2019
  - Potential ADVA Optical Networking proposal

Incoming Liaisons (3)

- DCB:
  - WBA on 802c
    http://www.ieee802.org/1/files/public/docs2017/liaison-WBA-Roaming-OUI-1017.pdf

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 (Jan/Mar)	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	TG 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/cor1	MAC Service		PAR Approved	D1.0	WG Ballot	Dec '21

802.1 plenary schedule

V3	IEEE 802 PLENARY SESSION Orlando, Florida November 5-10, 2017				
	802.1 tracks and times				

	SUN	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY
07:00-07:30						
07:30-08:00						
08:00-08:30		Trk 1: TSN	MTN TG	Trk 1: TSN / Trk 2: DCB / ITU SC	Trk 1: TSN	Trk 1: TSN
08:30-09:00						
09:00-09:30		EC		Trk3 SEC		
09:30-10:00					Trk 2: DCB	
10:00-10:30		Break	Break	Break	Break	Break
10:30-11:00		Opening 802.1 plenary	Trk 1: TSN / Trk 4: SEC	Trk 1: TSN / Trk 2: DCB / Trk 4: SEC	Trk 1: TSN / Trk 2: DCB / Trk 3: OR / Trk 4: MTN	Closing 802.1 Plenary
11:00-11:30						
11:30-12:00						
12:00-12:30						Lunch
12:30-13:00		Lunch	Lunch /802.1 Mgmt	Lunch	Lunch / 802.1 Mgmt	
13:00-13:30						
13:30-14:00		Trk 1: TSN	Trk 1: TSN / Trk 4: SEC	Midweek 802.1 plenary	Trk 1: TSN / Trk 2: DCB / Trk 3: OR	Closing 802 EC
14:00-14:30						
14:30-15:00						
15:00-15:30						
15:30-16:00		Break	Break	Break	Break	
16:00-16:30		Trk 1: TSN / Trk 3: OR	Trk 1: TSN / Trk 3: OR / Trk 4: SEC	Trk 1: TSN / Trk 2: DCB / Trk 3: OR 5G / Trk 4: SEC	Trk 1: TSN / Trk 2: DCB / Trk 4: MTN	
16:30-17:00						
17:00-17:30						
17:30-18:00						
18:00-18:30			Break	Break	Break	
18:30-19:00	TG Chairs Mtg	Tutorials	Joint .1/.15	Social event		KEY:
19:00-19:30						
19:30-20:00			IC - 802 NEND			TSN: Time Sensitive Netw'kg
20:00-20:30						MTN TG: Maintenance TG
20:30-21:00						SEC: Security
21:00-21:30						DCB: Data Center Bridging
21:30-22:00						OR: OmniRAN

Use of random MAC addresses

□ IEEE Std 802c & P802.1CQ tutorial

   – Pat Thaler – DCB TG chair

   – Roger Marks – P802c editor

   – Bob Grow – RAC chair

□ Pre-Association Service Discovery Summary

   – Stephen McCann, chair of 802.11 TG aq

YANG for Ethertypes

- IETF would like a YANG model for Ethertypes
- It has been included in a NetMod WG draft https://datatracker.ietf.org/doc/draft-ietf-netmod-acl-model/
    - list of favourite EtherTypes with friendly names
    - included values that are not registered (like 9100) and published the use for values that are private (like 9000).
- IANA also has a list of Ethertypes
    - https://www.iana.org/assignments/ieee-802-numbers/ieee-802-numbers.xhtml
- Issues
    - Should this be 802.1 or RAC?
    - What style/format should the Ethertypes for YANG follow?
    - Should there be an automated YANG model?
- Proposal – Marc Holness

Motions for midweek plenary

- For motions requiring EC action (EC-16-170)
  - PARs to NesCom
  - Drafts to Sponsor ballot
  - Drafts to RevCom
- EC required supporting material must be sent to the WG chair before the motion is considered
  - Preferably in the motion slides
- Consent agenda (EC-16-183)
  - Motions must be sent to EC by noon Wednesday

Midweek motions

- For EC consent agenda

Agenda - 1

- PARs to NesCom (ME)
  - 802.1CBcv - Amendment: Information Model, YANG Data Model and Management Information Base Module
- Drafts to Sponsor ballot (ME)
  - IEEE P802.1Qcc – Stream Reservation Protocol (SRP) Enhancements and Performance Improvements
  - IEEE P802.1Qcp – YANG Data Model
- Liaisons (II)
  - Liaison response to IETF - LLC
- Items to SC6 (ME)
  - FDIS comment responses for IEEE 802.1AEcg to SC6 under PSDO
  - IEEE Std 802c-2017 for adoption under PSDO
  - P802.1CM/D2.0 draft to SC6 for information under PSDO

PARS TO NESCOM

Motion

- Approve forwarding P802.1CBcv PAR documentation in http://www.ieee802.org/1/files/public/docs2017/cv-draft-PAR-1017-v03.pdf to NesCom

- Approve CSD documentation in http://www.ieee802.org/1/files/public/docs2017/cv-draft-CSD-0917-v01.pdf

☐ In the WG (y/n/a): 24, 0,3
  – Proposed: Stephan Kehrer   Second: Norm Finn

☐ In EC, mover: Glenn Parsons   Second: Pat Thaler
  – (y/n/a): <y>,<n>,<a>

DRAFTS TO SPONSOR BALLOT

Motion

- Approve sending P802.1Qcc D2.0 to Sponsor Ballot
- Confirm the CSD for P802.1Qcc in http://www.ieee802.org/1/files/public/docs2013/new-p802-1qcc-draft-5c-0513-v2.pdf

- P802.1Qcc D1.6 had 100% approval at the end of the last WG recirculation ballot
- In the WG (y/n/a): 31, 0 ,1
  - Proposed: János Farkas   Second: John Messenger
- In EC, mover: Glenn Parsons   Second: Pat Thaler
  - (y/n/a): <y>,<n>,<a>

Supporting information P802.1Qcc

- Last WG recirculation ballot closed: 14 August 2017
- No Disapprove votes, No comments
- Comment resolution available here: http://www.ieee802.org/1/files/private/cc-drafts/d1/802-1Qcc-d1-6-dis-v2.pdf

Ballot results

Category	Total	Percentage
Yes	28	100.0% of yes/no
No	0	0.0% of yes/no
Abstain	9	24.32% of responding
No. of Voters	49	
Voters responding	37	75.51% of voters

Motion

- Approve sending P802.1Qcp D2.0 to Sponsor Ballot
- Confirm the CSD for P802.1Qcp in https://mentor.ieee.org/802-ec/dcn/17/ec-17-0157-00-ACSD-802-1qcp.docx
- P802.1Qcp D1.4 had 100% approval at the end of the last WG recirculation ballot
- ☐ In the WG (y/n/a): 33, 0, 0
  - Proposed: János Farkas   Second: John Messenger
- ☐ In EC, mover: Glenn Parsons   Second: Pat Thaler
  - (y/n/a): <y>,<n>,<a>

Supporting information P802.1Qcp

- Last WG recirculation ballot closed:
  3 November 2017
- No Disapprove votes,
  No comments
- Comment resolution available here:
  http://ieee802.org/1/files/private/cp-drafts/d1/802-1Qcp-d1-4-dis-v01.pdf

Ballot results:

CATEGORY	All respondents	
	TOTAL	%
Yes	24	100%
No	0	
Voting Yes or No	24	100%
Abs. Time	2	
Abs. Expertise	13	
Abs. Other	0	
Voting Members	49	100%
Respondents (Voting)	41	84%
Respondents (non-Voting)	3	
Liaisons responding		
No. of commenters	0	
No. of comments	0	
TR	0	
T	0	
E/ER	0	

LIAISONS

MOTION

- Approve sending the liaison response on LLC Encapsulation EtherType to IETF IS-IS WG
  - http://www.ieee802.org/1/files/public/docs2017/liaison-IETF-llc-encap-0717-v03.pdf

- Proposed: John Messenger Second: Jessy Rouyer
- For__32__Against_0__Abstain__0__

- EC proposed: Parsons Second: Thaler
- For____Against___Abstain____

JTC1 SC6 PSDO ITEMS

MOTION

- Approve liaison of the following comment responses to ISO/IEC JTC1/SC6 under the PSDO agreement:
    - IEEE 802.1AEcg: http://www.ieee802.org/1/files/public/docs2017/aecg-seaman-iso-pre-ballot-responses-1117v01.txt

- Proposed: Mick Seaman   Second: John Messenger
- For__32__Against_0__Abstain__1__

- EC proposed: Glenn Parsons   Second: Pat Thaler
- For____Against___Abstain_____

MOTION

- Approve submission of the following project(s) to ISO/IEC JTC1/SC6 for adoption under the PSDO agreement
  - 802c-2017

- Proposed: John Messenger Second: Jessy Rouyer
- For__32__Against__0_Abstain__1__

- EC proposed: Glenn Parsons Second: Pat Thaler
- For____Against___Abstain____

MOTION

- Approve liaison of the following draft(s) to ISO/IEC JTC1/SC6 for information under the PSDO agreement
  - P802.1CM D2.0

- Proposed: John Messenger Second: Jessy Rouyer
- For__34__Against__0_Abstain__0__

- EC proposed: Glenn Parsons Second: Pat Thaler
- For____Against___Abstain____

Midweek motions

- For WG internal business

MOTION: Plenary

- IEEE 802.1 WG approves to hold three plenary sessions at the March 2018 IEEE 802 plenary as follows:
    - Opening plenary – Monday AM2
    - Midweek plenary – Wednesday PM1
    - Closing plenary – Friday AM2

Proposed: Eric Gray Seconded: Janos Farkas

- Approved by acclamation

MOTION: interim

- 802.1 WG approves changing the dates of the interim meeting in September 2018 as follows:

    – September 10-14, 2018

- The meeting fee range will be increased by US$100.

- Proposed: Mickaël Fontaine Second: John Messenger
- Approved: 35 – 0 – 3

MOTION: interim

- 802.1 WG approves an interim meeting hosted by Ethernet Alliance from May 20-24, 2019 as described in:

    – http://www.ieee802.org/1/files/public/docs2017/admin-dambrosia-EA_OfferToHost_May2019_1017-v2.pdf

- Proposed: Eric Gray   Second: Jessy Rouyer
- Approved by acclamation

Motion: Conference Calls

- Approve virtual conferences Monthly on the last Wednesday of every month from 9AM (US-Eastern) to 10AM (US-Eastern) to facilitate IEEE 802 YANG editor coordination.
- Access information is http://join.me/ieee802.1 and will also be posted on the http://www.ieee802.org/1 page and will be updated as necessary.

- Proposed: Marc Holness
- Second: John Messenger

Approved by acclamation

MOTION: Conference Calls

- Authorize Maintenance TG to hold teleconferences on 16th January and 27th February 2018 at 11am EST if necessary. Access information will be posted to the 802.1 reflector in advance.

- Proposed: John Messenger Second: Jessy Rouyer
- Approved by acclamation

Motion: conference calls

- The TSN TG will continue to have virtual conferences weekly on Mondays from 8AM (US-Pacific) to 10AM (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 by the Friday before.

- Proposed: János Farkas
- Second: Don Pannell

- Approved by acclamation

Motion: plenary pre-meeting

- 802.1 resolves to hold pre-meeting(s) on the Monday morning of the March 2018 Plenary session for TSN.

- Proposed: János Farkas
- Second: Craig Gunther

- Approved by acclamation

MOTION: Maintenance TG ballot

- Authorize the editor of P802.1ACct "Media Access Control (MAC) Service Definition Amendment Support for IEEE Std 802.15.3", James Gilb, to generate drafts and conduct Task Group balloting.

- Proposed: John Messenger Second: Jessy Rouyer
- For__29__Against_0__Abstain__0__

Any other business?