# 802.1 Plenary – March 2017 Vancouver, BC

## Closing Agenda

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

# Plenary Agenda

- Call for Patents
- Membership
- Future Meetings
- 802 reports
- TG reports
- Sanity check – current projects
- Liaisons
- Motions

# 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 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.**

# 802.1 officers

- Officers
  - Chair: Glenn Parsons
  - Vice Chair: John Messenger
  - Recording Secretary:  Jessy Rouyer
  - Security TG Chair: Mick Seaman
  - TSN TG Chair: János Farkas
  - 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/

# The following are 802.1 voters:

Baek, SeoYoung
Bao, Shenghua
Bierschenk, Jens
Bjornstad, Steinar
Boiger, Christian
Bottorff, Paul
Chen, David
Chen, Feng
Cheng, Weiying
Cummings, Rodney
Farkas, Janos
Finn, Norman
Fontaine, Mickael
Garner, Geoffrey
Gray, Eric
Gunther, Craig
Gutierrez, Marina
Haddock, Stephen
Hantel, Mark
Heffernan, Patrick

Holness, Marc
Jeffree, Anthony
Johas Teener, Michael
Keen, Hal
Kehrer, Stephan
Klein, Philippe
Korhonen, Jouni
Li, Yizhou
Mangin, Christophe
McBeath, Tom
McIntosh, James
Messenger, John
Moskowitz, Robert
Mustala, Tero
Nakano, Hiroki
Noseworthy, Bob
Pannell, Donald R
Parsons, Glenn
Pienciak, Walter
Potts, Michael

Randall, Karen
Riegel, Maximilian
Rouyer, Jessy
Ryyty, Eero
Samii, Soheil
Sarikaya, Behcet
Schewe, Frank
Seaman, Michael
Specht, Johannes
Thaler, Patricia
Unbehagen, Paul
Wang, Hao
Weber, Karl
Weis, Brian
Woods, Jordon
Zein, Nader
Zinner, Helge
Zuniga, Juan Carlos

# The following became voting members this week:

Fontaine, Mickael
Moskowitz, Robert

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

Assmann, Ralf

Ellegard, Lars

Huang, Jing

Kim, Soyoung

Marks, Roger

Regev, Alon

Sato, Atsushi

Ting, Ao

Wang, Xinyuan

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

Klein, Philippe
McBeath, Tom
Nakano, Hiroki
Noseworthy, Bob
Sarikaya, Behcet
Zinner, Helge
Zuniga, Juan Carlos

# The following will <u>lose</u> voting member status for insufficient WG ballot return, unless they convince the chair otherwise this week:

Baek, SeoYoung
Johas Teener, Michael
Klein, Philippe
McBeath, Tom
Noseworthy, Bob
Sarikaya, Behcet
Weber, Karl

# The following volunteered to relinquish their voting member status, and will become observer participants:

Huang, Lu
Romascanu, Dan
Steiner, Wilfried

# Future interim meetings

- **May 15-18, 2017**
  - Stuttgart, DE
  - Hirschmann update
- **September 5-8, 2017**
  - St. John's, Newfoundland
- **January 22-26, 2018 - *proposal***
  - ITU-T in Geneva, Switzerland
  - Possible alternative
    - 802 Wireless in Irvine, CA;  January 14-19;  $450 fee
- **May 2018**
  - Ethernet Alliance
- **September 10-13, 2018 – *proposal***
  - Oslo, Norway, hosted by Transpacket

# Straw polls

- Would you prefer January 2018 interim in
  - January 22-26 - Geneva with 802.3     (21)
  - January 14-19 - Irvine with 802.11/15   (20)

# Future plenaries

- July 9-14, 2017 – Berlin GERMANY
  - Estrel

- November 5-10, 2017 – Orlando, FL USA
  - Caribe Royale

- 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 - Suzhou, CHINA

- March 2019
  - Vancouver vs Denver

# Sanity check – current workload

| Project | Subject | Last Motion | Current Stage | Draft# | Next action | PAR ends |
|---------|---------|-------------|---------------|--------|-------------|----------|
| 802.1CB | Frame Replication and Elimination | Sponsor Ballot | Sponsor Ballot | D2.8 | RevCom - cond | Dec '17 |
| 802.1AC-REV | MAC service | RevCom | Published - Mar 10 | D4.0 | | Dec '17 |
| 802.1Qcc | SRP enhancements & performance improvements | WG ballot | WG ballot | D1.2 | WG ballot | Dec '17 |
| 802.1ARce | AR: SHA-384 and P-384 Elliptic Curve | WG ballot | TG ballot | D1.1 | withdrawal | Dec '18 |
| 802.1CF | Access network (OmniRAN) | TG ballot | TG ballot | D0.4 | TG ballot | Dec '18 |
| 802.1AEcg | Ethernet data encryption devices | RevCom | Approved - Feb 14 | D1.6 | Publication | Dec '18 |
| 802.1Qch | Cyclic queueing and forwarding | Sponsor Ballot | Sponsor Ballot | D2.2 | RevCom | Dec '19 |
| 802.1AS-REV | Time synch enhancements | TG Ballot | TG Ballot | D4.5 | WG ballot | Dec '19 |
| 802c | Local Address space | PAR mod & sponsor | Sponsor Ballot | D2.0 | RevCom - cond | Dec '19 |
| 802.1Qci | Per Stream Filtering & Policing | RevCom | Approved - Feb 14 | D2.0 | Publication | Dec '19 |
| 802.1Qcj | Auto Attach to PBB | TG Ballot | Editor's draft | D0.1 | TG Ballot | Dec '19 |
| 802.1Xck | 802.1X YANG data model | WG ballot | WG ballot | D1.0 | WG ballot | Dec '19 |
| 802.1CM | Profile for Fronthaul | TG Ballot | TG Ballot | D0.6 | TG Ballot | Dec '19 |
| 802.1Qcn | EVB VDP extension | TG Ballot | Editor's draft | D0.4 | TG Ballot | Dec '19 |
| 802.1Qcp | 802.1Q YANG data model | WG ballot | WG ballot | D1.0 | WG ballot | Dec '19 |
| 802d | URN Namespace | RevCom | Approved - Feb 14 | D1.2 | Publication | Dec '19 |
| 802E | Privacy | TG ballot - fail | Editor's draft | D0.6 | TG ballot | Dec '19 |
| 802.1AX/Cor1 | Tech and ed corrections | RevCom | Approved - Feb 14 | D0,6 | Publication | Dec '19 |
| 802.1CQ | Local Address protocol | PAR approved | Editor's draft | D0.1 | Editor's draft | Dec '20 |
| 802.1Qcr | Asynchronous Traffic Shaping | PAR approved | Editor's draft | D0.0 | TG ballot | Dec '20 |
| 802.1CS | LRP | NesCom | PAR approved | | Editor's draft | Dec '21 |
| 802.1AX-REV | Link Aggregation | PAR approved | Editor's draft | D0.0 | TG ballot | Dec '20 |
| 802.1AR-REV | Secure Device Identity | PAR approved | WG ballot | D2.0 | WG ballot | Dec '21 |
| 802.1Q-REV | Bridges and Bridged Networks | WG ballot | WG ballot recirc | D1.2 | Sponsor Ballot - cond | Dec '20 |
| 802.1AE-REV | MAC security | PAR development | | | PAR approval | |
| 802.1ACct | support for 802.15.3 | | | | PAR development | |

18

# 802 reports

- IETF SC
  - Joint coordination meeting after next plenary
- JTC1 SC
- ITU SC
- 802 TF

# 802 Task Force

- **IEEE-SA marketing support**
  - Press releases, eBlasts and collateral
- **Public statements**
  - input to regulators or input to public review
- **myProject (including IMAT & Mentor, WG balloting) replacement**
  - Indeterminate delay
- **802.11ax corrective action**
  - Summary of observations for IEEE-SASB
  - Develop guidelines on outside consensus building & detecting aberrent behaviour
- **IEEE-SA staff support**
  - Program:  Jonathan Goldberg & Kathryn Bennett
  - Editors:  Michelle Turner
  - International:  Jodi Haasz

# TG reports

- Security
- DCB
- TSN
- OmniRAN
- [Maintenance](#)

# DCB & Addressing Status November 2016

- 802c Sponsor Ballot status
  - 93% approval (80/6/4), 44 comments, 18 MBS comments
  - Completed comment resolution
  - Conditional to RevCom
- 802.1Qcn – will start task group ballot
- Presentation on VDP extension for SR-IOV

  http://www.ieee802.org/1/files/public/docs2017/cn-huang-vdp-for-sr-iov-0317-v00.pptx

- P802.1CQ – one proposal presentation

  http://www.ieee802.org/1/files/public/docs2017/cq-ao-LAAP-proposal-0317-v02.pptx

# OmniRAN TG Achievements

## Vancouver meeting, March13th – 16th

- Comment resolution of TG ballot recirculation on draft D0.4
  - Submitted comments addressed remaining opens of draft specification
  - Comment resolution
    - Most of the comments resolved.
    - 5 pending contributions to be reviewed in the next conference call
      - Allows experts not present in Vancouver to participate
- Going forward to draft D0.5
  - Would be ready for WG ballot, however group decided to add additional content on
    - Time Sensitive Networking
    - Access Network Data Models
  - May delay completion of D0.5 until July F2F
- Estimated timeline for P802.1CF with extended scope:
  - Starting WG ballot after July 2017, Sponsor Ballot Mar 2018
- Special session on Industry Connections activity on March 15th
  - Review of comments on draft ICAID
    - Lively discussion about scope and goals
    - Final ICAID draft forwarded to 802.1 WG for approval

# Looking forward to next session in Stuttgart, DE, May15-18, 2017

- Envisioned topics:
  - Review comment resolution on D0.4
  - Discuss contributions on
    - Access Network Data Modeling
    - Time Sensitive Networking
  - Review status of approval of ICAID

- Conference calls:
  - Upcoming conference calls
    - April 11th, 09:30am ET
      - Review of pending contributions for comment resolution
    - May 2nd , 09:30am ET, if needed for comment resolution
      - Review of pending contributions for comment resolution

# ICAID Summary

- Kind of 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.
- Activity duration:
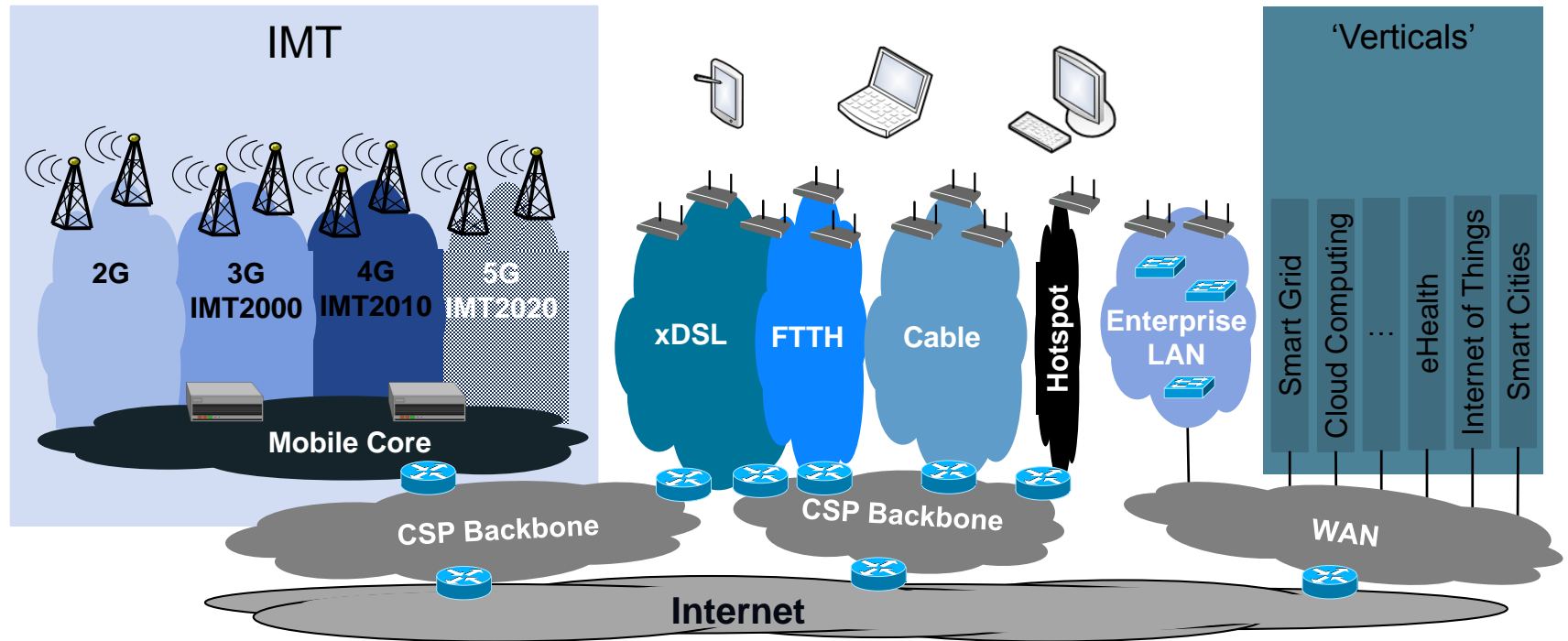  - 2 years with first draft report delivered after 1 year

# Refined Goal

The goal of this activity is to assess emerging requirements for IEEE 802 ~~based~~ wireless and higher-layer communication infrastructures outside of the IMT domain, identify commonalities, gaps, and trends not currently addressed by IEEE 802 standards and projects, and facilitate building industry consensus towards proposals to initiate new standards development efforts. Topics concerning enhanced cooperative functionality among existing IEEE standards in support of network integration will be encouraged. Findings related to existing IEEE 802 standards and projects are forwarded to the responsible working groups for further considerations.

*Further (editorial) refinements were proposed by the AANI SC and are adopted in the final ICAID proposal.*

# IEEE 802 networking is predominantly happen in non-IMT networks

# Action A: IEEE "5G" specification Candidate Approach

- specify an 802 access network
  - could be based on P802.1CF
    - "network reference model defines a generic foundation for the description of IEEE 802 access networks, which may include multiple network interfaces, multiple network access technologies, and multiple network subscriptions, aimed at unifying the support of different interface technologies, enabling shared network control and use of software-defined networking (SDN) principles"
  - provides an external view into general 802 access network
  - could support many 802 MACs and PHYs
  - could plug into incumbent mobile operator networks
    - for example, expand the notion of LWA so that the cellular network supports 802 rather than 802.11
    - gives 802 a strong supporting role in cellular 5G networks
  - could support integration into other operator networks
    - e.g. cable TV or fixed telecom
    - gives 802 a central role in non-cellular 5G networks
  - feasible for 802 access network to support both
  - need not promote it as an "IEEE 5G" network

# Incoming Liaisons

- **Maintenance:**
  - ITU-T SG15 LS367 on OTNT
    http://www.ieee802.org/1/files/public/docs2016/liaison-SG15-LS367-OTNT-1016.zip

- **TSN:**
  - MEF – Transport for 5G
    http://www.ieee802.org/1/files/public/docs2017/liaison-MEF-L00258_Transport_for_5G-0217.pdf
  - MEF – Revision to MEF 38 SOAM FM YANG
    http://www.ieee802.org/1/files/public/docs2017/liaison-MEF-L00259_MEF38-SOAMFMYANG_0317.pdf
  - MEF – Revision to MEF 39 SOAM PM YANG
    http://www.ieee802.org/1/files/public/docs2017/liaison-MEF-L00260_MEF39-SOAMPMYANG_0317.pdf

  - CPRI update
    http://cpri.info/press.html
  - IETF – Private VLANs
    https://www.ietf.org/id/draft-nordmark-intarea-ippl-05.txt

# Outgoing liaison discussion

- IEEE 1588
- IETF INTAREA
- IETF IESG & IS-IS
- MEF
- AVnu response

- Deterministic Ethernet Forum

# Motions - Administrative

# MOTION

- 802.1 approves the November 2016 (Plenary) and January 2017 (Interim) minutes:

http://ieee802.org/1/files/public/minutes/2016-11-minutes.pdf

http://ieee802.org/1/files/public/minutes/2017-01-minutes.pdf

Proposed: Jessy Rouyer Seconded: John Messenger

- Approved by Acclamation

# MOTION

- 802.1 approves to hold an interim January 23-26, 2018 at ITU Headquarters in Geneva, Switzerland



Proposed:  Norm Finn     Seconded:   Jordan Woods

- Approved  Y 19  N 5   A 4

# MOTION

- 802.1 approves to hold an interim September 10-13, 2018 in Oslo, Norway, hosted by Transpacket as detailed in:
  - http://www.ieee802.org/1/files/public/docs2017/admin-fontaine-oslo-proposal-0317-v02.pdf

Proposed:  Steinar Bjornstad
    Seconded:   John Messenger

- Approved  Y 26  N 0   A 2

# Motions - TSN

# Motion: Approval to send 802.1Qch to RevCom

- Approve sending P802.1Qch D2.2 to RevCom.
- Approve CSD documentation in http://www.ieee802.org/1/files/public/docs2014/ch-mjt-cyclic-queuing-and-forwarding-par-csd-0814-v01.pdf
- P802.1Qch D2.2 had 100% approval at the end of the last sponsor recirculation ballot.
- See http://www.ieee802.org/1/files/private/ch-drafts/d2/802-1Qch-D2-2-dis.pdf for supporting documentation
- In the WG,
  - Proposed: János Farkas; Second: Craig Gunther
  - Approved  (y/n/a): 32 , 0, 0

# Supporting information – P802.1Qch

- Second Sponsor recirculation ballot closed 23 February 2017. Results:
- RESPONSE RATE
- This ballot has met the 75% returned ballot requirement.
- 84 eligible people in this ballot group.
- 74    affirmative votes
- 0    total negative votes with comments
- 0    negative votes with new comments
- 0    negative votes without comments
- 3    abstention votes: (Lack of time: 3)
- 77    votes received = 91% returned
-                          3% abstention
- APPROVAL RATE
- The 75% affirmation requirement is being met.
- 74    affirmative votes
- 0    negative votes with comments
- 74    votes = 100% affirmative
- No outstanding Disapprove votes, no outstanding comments

# Motion: Conditional approval to send 802.1CB to RevCom

- Conditionally approve sending P802.1CB D2.8 to RevCom.
- Approve CSD (5C) documentation in http://www.ieee802.org/1/files/public/docs2013/new-p802-1CB-draft-5c-0313.pdf
- P802.1CB D2.7 had 95% approval at the end of the last sponsor recirculation ballot.
- See http://www.ieee802.org/1/files/private/cb-drafts/d2/802-1CB-D2-7-dis-v1.pdf for supporting documentation
- In the WG,
  - Proposed: Norman Finn; Second: János Farkas
  - Approved (y/n/a):   34, 0, 0

# Supporting information 802.1CB

- Last sponsor recirculation ballot closed: 22-Feb-2017
- 4 outstanding Disapprove votes, 4 Must Be Satisfied comments
- Comment resolution available here: http://www.ieee802.org/1/files/private/cb-drafts/d2/802-1CB-D2-7-dis-v1.pdf
- Recirculation ballot will be conducted during March timeframe with a possible final recirculation in April timeframe if required as a result of further comments received.

Ballot tally

**Recirculation #1  Initial Ballot**

| | |
|---|---|
| Ballot Open Date: | 23-Jan-2017 |
| Ballot Close Date: | 22-Feb-2017 |
| Type: | New |
| Draft #: | 2.7 |
| Ballots Received: | 13 |
| Vote Changes: | 4 |
| Comments: | 5 |
| Must Be Satisfied Comments: | 4 |

**RESPONSE RATE**
This ballot has met the 75% returned ballot requirement.

100 eligible people in this ballot group.

- 83 affirmative votes
- 4 total negative votes with comments
- 2 negative votes with new comments
- 0 negative votes without comments
- 3 abstention votes: (Lack of expertise: 2, Lack of time: 1)

90 votes received = 90% returned
3% abstention

**APPROVAL RATE**
The 75% affirmation requirement is being met.
- 83 affirmative votes
- 4 negative votes with comments

87 votes = 95% affirmative

# Motion: PAR and CSD development

- 802.1 authorizes the May 2017 Interim to generate a PAR extension and update CSD, if necessary,  for pre-circulation to the EC for P802.1Qcc SRP Enhancements and Performance Improvements.

- Proposed: Rodney Cummings
- Second: János Farkas

- Approved (y/n/a): 33, 0, 0

# Motion: PAR and CSD development

- 802.1 authorizes the May 2017 Interim to generate a PAR modification and CSD update, if necessary, for pre-circulation to the EC for P802.1AS-REV Timing and Synchronisation for Time-Sensitive Applications – Revision.

- Proposed: Geoffrey Garner
- Second: János Farkas

- Approved (y/n/a): 35, 0, 0

# Motion to reconsider

- Proposed: Don Pannell
- Second: John Messenger

- Approved (y/n/a): 14, 3, 13

# Reconsidered Motion: PAR and CSD development

- 802.1 authorizes the May 2017 Interim to generate a PAR modification to add managed objects to the scope and update CSD, if necessary, for pre-circulation to the EC for P802.1AS-REV Timing and Synchronisation for Time-Sensitive Applications – Revision.

- Proposed: Geoffrey Garner
- Second: János Farkas

- Approved (y/n/a):  30, 0, 1

# Motion: PAR and CSD development

- 802.1 authorizes the May 2017 Interim to generate PAR and CSD for pre-circulation to the EC for an amendment to IEEE 802.1AB to specify YANG modules.

- Proposed: Marina Gutiérrez
- Second: János Farkas

- Approved  (y/n/a):  34, 0, 0

# Motion: PAR and CSD development

- 802.1 authorizes the May 2017 Interim to generate PAR and CSD for pre-circulation to the EC for one or more amendments to IEEE 802.1Q to specify YANG modules.

- Proposed: Marina Gutiérrez
- Second: János Farkas

- Approved  (y/n/a):   34, 0, 0

# Motion: PAR and CSD development

- 802.1 authorizes the May 2017 Interim to generate PAR and CSD for pre-circulation to the EC for an amendment to IEEE 802.1CB covering YANG and MIB modules and additional stream identification methods.

- Proposed: Stephan Kehrer
- Second: János Farkas

- Approved (y/n/a): 24, 3, 4

# Motion: WG balloting

- 802.1 authorizes Marc Holness, the Editor of P802.1Qcp, YANG Data Model, to prepare drafts for and conduct Working Group balloting.

- Proposed: John Messenger
- Second: János Farkas

- Approved (y/n/a): 31, 0, 0

# Motion: WG balloting

- 802.1 authorizes Geoffrey Garner, the Editor of P802.1AS-REV, Timing and Synchronisation for Time-Sensitive Applications – Revision, to prepare drafts for and conduct Working Group balloting.

- Proposed: Geoffrey Garner
- Second: János Farkas

- Approved (y/n/a): 34, 0, 0

# Motion: TG balloting

- 802.1 authorizes Paul Unbehagen, the Editor of P802.1Qcj, Automatic Attachment to Provider Backbone Bridging (PBB) services, to prepare drafts for and conduct Task Group balloting.

- Proposed: Paul Unbehagen
- Second: János Farkas

- Approved (y/n/a):  32, 0, 0

# Motion: TG balloting

- 802.1 authorizes Johannes Specht, the Editor of P802.1Qcr, Asynchronous Traffic Shaping, to prepare drafts for and conduct Task Group balloting.

- Proposed: Johannes Specht
- Second: János Farkas

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

# Motion: TG balloting

- 802.1 authorizes Stephen Haddock and Jessy Rouyer, the Editors of P802.1AX-Rev, Link Aggregation – Revision, to prepare drafts for and conduct Task Group balloting.

- Proposed: Stephen Haddock
- Second: János Farkas

- Approved (y/n/a): 29, 0, 1

# Motion: Liaison from 802.1

- 802.1 approves the liaison letter to IEEE 1588
  - http://www.ieee802.org/1/files/public/docs2017/liaison-1588-on-ptp-port-states-not-used-in-802-1as-0316-v01.pdf

- Proposed: Geoffrey Garner
- Second: János Farkas

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

# Motion: Liaison from 802.1

- 802.1 approves the liaison letter to the IETF IntArea WG
  - http://www.ieee802.org/1/files/public/docs2017/liaison-IETF-intarea-private-VLANs-0317-v01.pdf

- Proposed: Craig Gunther
- Second: Stephen Haddock

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

# Motion: Liaison from 802.1

- 802.1 approves the liaison letter to the IETF IS-IS WG
  - http://www.ieee802.org/1/files/public/docs2017/liaison-IETF-isis-extentended-llc-0317-v01.pdf

- Proposed:  János Farkas
- Second: Stephen Haddock

- Approved (y/n/a):  26, 0, 0

# Motion: Liaison from 802.1

- 802.1 approves the response to the MEF liaison L00259 on MEF 38 - SOAM FM YANG
  - http://www.ieee802.org/1/files/public/docs2017/liaison-response-MEF-L00259-0317-v01.pdf

- Proposed: Jessy Rouyer
- Second: János Farkas

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

# Motion: Liaison from 802.1

- 802.1 approves the response to the Avnu Alliance
  - http://www.ieee802.org/1/files/public/docs2017/liaison-response-avnu-0317-v01.pdf

- Proposed: János Farkas
- Second: Craig Gunther

- Approved (y/n/a): 26, 0, 2

# Motion: Communication from 802.1

- Approve [http://www.ieee802.org/1/files/public/docs2017/tsn-farkas-def-0317-v03.pptx](http://www.ieee802.org/1/files/public/docs2017/tsn-farkas-def-0317-v03.pptx)   as communication to Deterministic Ethernet Forum 2017, noting the IEEE 802.1 TSN TG chair will present.
  - Proposed: Don Pannell
  - Second: Craig Gunther

- Approved (y/n/a):  27, 0 , 0

# Motion: Conference Calls

- The TSN TG will continue to have virtual conferences weekly on Mondays from 8AM (US-Pacific) to 10AM (US-Pacific) to discuss TSN projects and matters arising.
- Access information is posted on the http://www.ieee802.org/1/pages/tsn.html page and will be updated as necessary.


- Proposed: János Farkas
- Second: Craig Gunther


- Approved by Acclamation

# Motion: Pre-meeting

- 802.1 resolves to hold pre-meeting(s) on the Monday morning of the July 2017 Plenary session for TSN.

- Proposed: János Farkas
- Second: Craig Gunther

- Approved by Acclamation

# Motions - Security

# Motions - Security

As required to request approval from 802.1 to/for:

- Request EC approval to withdraw the P802.1ARce PAR

- Request EC  approval to forward the P802.1AE-Rev PAR to NesCom.

- The P802.1AE-Rev editor to prepare drafts for WG balloting.

- The P802E  editor to prepare drafts for TG and WG balloting.

- Security TG teleconferences to progress P802.1AR-Rev, P802.1AE-Rev, P802.1Xck, P802E and other task group matters arising[3].

1. Work is progressing under the recently approved  P802.1AR-Rev PAR .
2. Once Nescom has approved the PAR. The first draft to be balloted will be based on the P802.1ARce/D1.1 draft taking into account comments received on the task group ballot discussed at his meeting.
3. Next few teleconferences already scheduled (under prior resolution).

[All notes in square brackets on the motion slides are for information only and are not part of the text of the motion.]

# MOTION

- Withdraw the P802.1ARce PAR

WG vote

- Proposed: Seaman   Second: Messenger
- For:   26          Against:   0          Abstain:  0
- Approved

# MOTION

- Approve forwarding P802.1AE-Rev PAR documentation in

http://www.ieee802.org/1/files/public/docs2017/ae-seaman-rev-draft-par-0317-v02.pdf

  to Nescom

# WG vote

- Proposed: Seaman       Second: Messenger
- For:  24              Against:   0              Abstain: 0
- Approved

[CSD not applicable. Roll-up PAR including maintenance items.]

# MOTION

- 802.1 authorizes the editor of P802.1AE-Rev, Mick Seaman, to prepare drafts for Working Group balloting following approval of the PAR.


- WG vote

- Proposed: Seaman Second: Messenger

- For: 26   Against:   0    Abstain:   0

- Approved

# MOTION

- 802.1 authorizes the editor of P802E, Jerome Henry, to prepare drafts for and conduct Task Group balloting.

- WG vote

- Proposed: Seaman Second: Messenger

- For:   25  Against:  0     Abstain:   0

- Approved

# 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: Seaman    Second: Messenger
- Approved by acclamation

[10 days per WG P&P 6.6]

# Motions – DCB

# Motion: Approval to send P802c to RevCom – as per template

- Conditionally approve sending P802c to RevCom.
- Approve CSD documentation in https://mentor.ieee.org/802-ec/dcn/16/ec-16-0217-00-ACSD-802c.pdf
- P802c D2.0 had 93% approval at the close of initial sponsor ballot.
- See
  - http://www.ieee802.org/1/files/private/802-c-drafts/d2/802c-D2-0-dis-r2.xlsx
  - http://www.ieee802.org/1/files/public/docs2017/802c-conditional-revcom.pdf
- for supporting documentation
- In the WG,
  - Move:  Pat Thaler     Second:  Max Riegel
  - Approved (y/n/a):    23, 0 , 1

# Close of ballot information

- Second Sponsor recirculation ballot closed 23 February 2017. Results:
- RESPONSE RATE
- This ballot has met the 75% returned ballot requirement.
- 115 eligible people in this ballot group.
- 80    affirmative votes
- 6    total negative votes with comments
- 0    negative votes with new comments
- 0    negative votes without comments
- 4    abstention votes: (Conflict of interest 1, Lack of expertise 1, Lack of time: 2)
- 90    votes received = 78% returned
-                      4% abstention
- APPROVAL RATE
- The 75% affirmation requirement is being met.
- 80    affirmative votes
- 6    negative votes with comments
- 86    votes = 93% affirmative
- TBD outstanding Disapprove votes, TBD outstanding comments (18 MBS comments at close of ballot)

# MOTION

- 802.1 authorizes the DCB Task Group to hold a virtual conference to be scheduled the week of 10 April 2017 for comment resolution of P802c Sponsor ballot recirculation.
  - Date/time to be announced subject to notice of at least 10 days to the 802.1 email exploder

- Proposed: Pat Thaler        Second:  Max Riegel
- Approved by Acclamation

# Motions – OmniRAN

# Motion

- Forward the ICAID proposal 'IEEE 802 network enhancements for the next decade' addressing the 5G SC Action A to ICcom.

  - https://mentor.ieee.org/omniran/dcn/16/omniran-16-0084-07-5gaa-draft-icaid-for-5g-sc-action-a.docx

  - Moved:          Max Riegel
  - Second:         Walter Pienciak
  - Vote:  Approved -  Y 20, N 0, A 4

# Motion

- Approve OmniRAN TG conference calls:
  - April 11th, 09:30 AM ET, 90mins
  - May 2nd , 09:30 AM ET, 90mins
  - Between the May 2017 interim and the July 2017 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 https://mentor.ieee.org/omniran/bp/StartPage

- Moved: Max Riegel
- Second: Hao Wang
- Approved by acclamation

# Motions - Maintenance

# MOTION

- Authorize Maintenance TG to hold teleconferences on 2$^{nd}$ May and 27$^{th}$ June 2017 at 11am EST if necessary to discuss maintenance items and other matters arising.  Access information will be posted to the 802.1 reflector in advance.

- Proposed:    Messenger Second: Rouyer
- Approved by Acclamation

# MOTION

- Approve forwarding P802.1ACct PAR documentation in [https://mentor.ieee.org/802.15/dcn/17/15-17-0199-03-003d-draft-par-for-801-1ac-amendment.docx](https://mentor.ieee.org/802.15/dcn/17/15-17-0199-03-003d-draft-par-for-801-1ac-amendment.docx) to NesCom

- Approve CSD documentation in [https://mentor.ieee.org/802.15/dcn/17/15-17-0198-03-003d-draft-csd-for-801-1ac-amendment.docx](https://mentor.ieee.org/802.15/dcn/17/15-17-0198-03-003d-draft-csd-for-801-1ac-amendment.docx)

- Approve precirculation of the PAR and CSD to EC.
- Proposed: Messenger      Second: Rouyer
- For_15___Against_0__Abstain__0__
- Approved
- Note: this will be precirculated to the EC following this meeting.

# MOTION

- Conditionally approve forwarding P802.1Q-Rev/D2.0 to Sponsor Ballot.

- Proposed: Messenger          Second: Rouyer
- For__16__Against__0_Abstain__0__
- Approved

- EC proposed:  Parsons        Second: Thaler
- For____Against___Abstain____

\* Note: There are no CSD for this maintenance PAR.

# 802.1Q-Rev supporting info

| Ballot Open Date: | 01 Mar 17 |
|---|---|
| Ballot Close Date: | 13 Mar 17 |
| Type: | WG recirc |
| Draft #: | D1.2 |
| | |
| | |

1 outstanding MBS
comment from 1 voter

**RESPONSE RATE**

This ballot has met the 50% returned ballot requirement.

| | |
|---|---|
| 59 | Number of voters |
| 40 | votes received = 68% returned |
| 5 | abstentions |

**APPROVAL RATE**

The 75% affirmation requirement is being met.

| | |
|---|---|
| 33 | Yes |
| 2 | No |
| | 94% affirmative |

**Recirculation plan:**
First recirc following March plenary
Comment resolution at May interim
Second recirc, if required following May interim

# 802.1Q-Rev unsatisfied

IEEE P802.1Q-Rev D1.2 Bridges and Bridged Networks 1st Working Group recirculation ballot comments

| | | | |
|---|---|---|---|
| *Cl* 8 | *SC* 8.6.3.h | *P* 128 | *L* 29 | # 1 |

Haddock, Stephen                      Stephen Haddock Con

*Comment Type*    **TR**        *Comment Status*  **A**

Changing reserved address 01-80-C2-00-00-0B in Table 8-1 to "EDE-SS PEP Address (IEEE Std 802.1AEcg)" reveals an ambiguity in the specification of how reserved addresses are handled in S-VLAN components and TPMRs. There is no explicit specification of how Reserved Addresses that are not in Table 8-2 are handled by S-VLAN components, or how Reserved Addresses that are not in Table 8-3 are handled by TPMRs, however it is implied that these addresses are always forwarded. Indeed many protocols depend upon them always being forwarded. Bullet h states (using non-normative language) that "PDUs using this [Nearest Customer Bridge] destination address, or any of the other addresses that appear in Table 8-1 but not in either Table 8-2 or Table 8-3, will be relayed by TPMR components and S-VLAN components but will propagate no further than the nearest C-VLAN component or MAC Bridge", but this is not true of the EDE-SS PEP Address or the Provider Bridge MVRP Address. Either of these may be filtered by S-VLAN components.

*SuggestedRemedy*

Add a sentence in the second paragraph of 8.6.3 (after the third sentence and before the last two): "Unless explicitly noted in Table 8-1, a reserved address specified in Table 8-1 but not Table 8-2 shall not be configured in the FDB of an S-VLAN component, and a reserved address specified in Table 8-1 but not Table 8-3 shall not be configured in the FDB of a TPMR component." Add a footnote to the EDE-SS PEP Address in Table 8-1 "May be filtered by an S-VLAN component in a EDE-SS (IEEE Std 802.1AEcg)." Add a footnote to the Provider Bridge MVRP Address in Table 8-1 "May be filtered by an S-VLAN component implementing MVRP." Consider adding "unless otherwise noted in Table 8-1" to bullets g and h, but this makes the informative sentences very long and complex, and may not be necessary once the normative text is clarified.

*Response*                        *Response Status*  **U**

ACCEPT IN PRINCIPLE. Mick to supply a combined table for inclusion in next draft.

# MOTION

- Approve liaison of the following comment responses to ISO/IEC JTC1/SC6 under the PSDO agreement:

    - 802.1Qbu-2016 and 802.1Qbz-2016: http://ieee802.org/1/files/public/docs2017/liaison-randall-SC6ResponseQbuandQbz-0317.pdf

- Proposed:    Messenger Second: Rouyer
- For__16__Against__0_Abstain__0__
- Approved

- EC proposed:  Parsons  Second: Thaler
- For____Against___Abstain____

# MOTION

- Approve submission of the following project(s) to ISO/IEC JTC1/SC6 for adoption under the PSDO agreement
    - 802d-2017 – URN namespace
    - 802.1AEcg-2017 – Ethernet Data Encryption Devices
    - 802.1Qci-2017 – Per Stream Filtering and Policing
    - P802.1CB – Frame Replication and Elimination for Reliability; following approval and publication
    - 802.1AX-2014/Cor1-2017 – Link Aggregation corrigendum
    - P802.1Qch – Cyclic queueing and forwarding; following approval and publication
- Conditional on publication of approved standard.
- Proposed: Messenger      Second: Rouyer
- For__17__Against_0__Abstain__0__
- Approved

- EC proposed:  Parsons  Second: Thaler
- For____Against___Abstain____

# MOTION

- Approve liaison of the following draft(s) to ISO/IEC JTC1/SC6 for information under the PSDO agreement:
  - P802c/D2.1
  - P802.1Q-Rev/D2.0
- Proposed:    Messenger Second: Rouyer
- For__17__Against__0_Abstain__0__
- Approved

- EC proposed:  Parsons        Second: Thaler
- For_____Against____Abstain_____

# Motions – Any others?