802.1 Plenary – November 2017
Orlando, FL, USA

Closing 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
- 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.
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

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.

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”.
  - 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://ieee802.org/PNP/approved/IEEE_802_WG_PandP_v19.pdf](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.
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/](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

<table>
<thead>
<tr>
<th>Project</th>
<th>Subject</th>
<th>Last Motion</th>
<th>Current Stage</th>
<th>Draft# Next action</th>
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<td>Frame Replication and Elimination</td>
<td>RevCom - cond</td>
<td>Published Oct 27</td>
<td>D2.8</td>
<td>Dec '17</td>
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<td>802.1Qcc</td>
<td>SRP enhancements &amp; performance</td>
<td>Sponsor Ballot - cond</td>
<td>Sponsor pool</td>
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<td>Sponsor Ballot</td>
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# 802.1 plenary schedule

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

## 802.1 tracks and times

<table>
<thead>
<tr>
<th>Time</th>
<th>SUN</th>
<th>MONDAY</th>
<th>TUESDAY</th>
<th>WEDNESDAY</th>
<th>THURSDAY</th>
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<td>Opening 802.1 plenary</td>
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<td>Lunch</td>
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**KEY:**  
- **TSN:** Time Sensitive Netw’kg  
- **MTN TG:** Maintenance TG  
- **SEC:** Security  
- **DCB:** Data Center Bridging  
- **OR:** OmniRAN
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-17-0103-00-00SA.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](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

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

## 802.1 Time-Sensitive Networking (TSN) TG

<table>
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<tr>
<th>SUN</th>
<th>MONDAY</th>
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- Note that the agenda is subject to change, e.g., depending on progress etc.
- TSN agenda details: [http://www.802tsn.org/agenda](http://www.802tsn.org/agenda)
OmniRAN TG Achievements
Orlando meeting, November 6th – 9th

- 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 28th, 0930AM ET
    • to progress contributions and editorial clean-up
  - Dec 5th, 0930AM ET
    • to agree on final additions for D0.7
  - Dec 12th, 0930AM ET
    • to conclude on P802.1CF-D1.0 for WG ballot

- WG ballot:
  - Start on Dec 18th with comment submission deadline on January 19th.
# 802.1 Maintenance Status

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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

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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
- 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
  - ITU-T Q14/15 on CFM YANG
  - Latest 1588 draft
  - 802.3cg
  - 3GPP RAN3 on fronthaul
  - MEF on 5G transport and 802.1CM
  - MEF on One-way Frame Delay Performance
  - NGMN on 5G E2E Architecture Framework
  - NGMN on RAN functional split and Xhaul
Incoming Liaisons (2)

- **Maintenance:**
  - MEF 10.4 approved draft
    

- **Plenary (liaison officer & document request):**
  - EtherCAT technology group
    
  - PI (Profibus /Profinet)
    
  - IEC SC65C
    

- **DCB:**
  - WBA on 802c
    
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](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](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:

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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

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.

Suggested Remedy:
- 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 [I], 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].

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.

Suggested Remedy:
- 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.”
Supporting information P802.1CM

P802.1CM/01.0 TSN for Fronthaul Initial Working Group ballot comments

Cl/AC/SC/TC/11

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 chapter like 6.1 and 6.2. They can be combined to one chapter, only the split descriptions has some differences, others such as latency and FLR and C&M requirements are all the same!!

SuggestedRemedy
Combine to one chapter

Response
REJECT.

Class 1 and Class 2 correspond to two very different splits. Class 1 is Split II, which is a split between the Radio Function (RF) and the Phy. Whereas Class 2 is Split I (ID I/O), which is an intra-phy split. The eCPRI specification [85] 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 block of the RBS, different data is transmitted via the frontahul interface. Furthermore, as section 1 of [8] describes, “Compared to the CPRI [1], eCPRI makes it possible to decrease the data rate demands between eNodeB and eRAN by using a flexible functional decomposition while limiting the complexity of the eRAN.” Clearly, Class 1 and Class 2 correspond to two very different frontahul interfaces, they are not the same. Therefore, subclasses 6.1 and 6.2 should not be merged. Such a merge would confuse a lot the readers of the 802.1CM specification.

Common requirements towards the bridge network comes 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 frontahul interfaces the same.

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

• 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

• 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

• 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

• 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

• 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

• 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](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

  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 28th, 09:30 AM ET, 90mins
  - Dec 5th, 09:30 AM ET, 90mins
  - Dec 12th, 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/omniranz/

- 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 12th, 5PM Pacific
- Tuesday Jan 9th, 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\textsuperscript{th} 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](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?