802.1 Closing Plenary
July 2016
San Diego, California

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

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.
802.1 officers

- **Officers**
  - Chair: Glenn Parsons
  - Vice Chair: John Messenger
  - Recording Secretary: Jessy Rouyer
  - Security TG Chair: Mick Seaman
  - TSN TG Chair: Michael Johas Teener
  - TSN TG Vice-Chair: János Farkas
  - Data Center Bridging TG Chair: Pat Thaler
  - OmniRAN TG Chair: Max Riegel
  - Maintenance of website: John Messenger
  - Maintenance of Email exploder: Hal Keen

- **Website**
  - http://www.ieee802.org/1/
The following are 802.1 voters:

<table>
<thead>
<tr>
<th>Boiger, Christian</th>
<th>Kehrer, Stephan</th>
<th>Riegel, Maximilian</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chen, David</td>
<td>Kießling, Marcel</td>
<td>Romascanu, Dan</td>
</tr>
<tr>
<td>Chen, Feng</td>
<td>Klein, Philippe</td>
<td>Rouyer, Jessy</td>
</tr>
<tr>
<td>Cheng, Weiying</td>
<td>Korhonen, Jouni</td>
<td>Seaman, Michael</td>
</tr>
<tr>
<td>Cummings, Rodney</td>
<td>Li, Yizhou</td>
<td>Samii, Soheil</td>
</tr>
<tr>
<td>Farkas, Janos</td>
<td>Lu, Huang</td>
<td>Specht, Johannes</td>
</tr>
<tr>
<td>Finn, Norman</td>
<td>Mangin, Christophe</td>
<td>Steiner, Wilfried</td>
</tr>
<tr>
<td>Garner, Geoffrey</td>
<td>McBeath, Tom</td>
<td>Thaler, Patricia</td>
</tr>
<tr>
<td>Gray, Eric</td>
<td>McIntosh, James</td>
<td>Thornburg, David</td>
</tr>
<tr>
<td>Gunther, Craig</td>
<td>Messenger, John</td>
<td>Touve, Jeremy</td>
</tr>
<tr>
<td>Haddock, Stephen</td>
<td>Nakano, Hiroki</td>
<td>Unbehagen, Paul</td>
</tr>
<tr>
<td>Hantel, Mark</td>
<td>Noseworthy, Bob</td>
<td>Weber, Karl</td>
</tr>
<tr>
<td>Holness, Marc</td>
<td>Pannell, Donald</td>
<td>Weis, Brian</td>
</tr>
<tr>
<td>Jeffree, Anthony</td>
<td>Parsons, Glenn</td>
<td>Woods, Jordon</td>
</tr>
<tr>
<td>Johas Teener, Michael</td>
<td>Pienciak, Walter</td>
<td>Zinner, Helge</td>
</tr>
<tr>
<td>Keen, Hal</td>
<td>Randall, Karen</td>
<td>Zuniga, Juan-Carlos</td>
</tr>
</tbody>
</table>
The following became voting members this week:

Baek, Seo Young
Bao, Shenghua
Bierschenk, Jens
Gutierrez, Marina
Mustala, Tero
Potts, Michael
Sarikaya, Behcet
Wang, Hao
The following have lost their voting membership through lack of qualifying attendance credit:

Bottorff, Paul
Saltsidis, Panagiotis
Sexton, Daniel
The following could become voting members if they email me indicating their intention to do so and if they show up here this week:

Bjørnstad, Steinar          Kim, Soyoung
Edge, Bob                   Sato, Atsushi
Ellegard, Lars              Ryytty, Eero
Gravel, Mark                Varga, Balazs
Hsieh, Tien Yuan            Zebralla, Daniel
Lee, Juho
Future interim meetings

- **September 12-15, 2016**
  - York, UK
  - John Messenger – ADVA Optical Networking

- **January 16-19, 2017**
  - 802-sponsored Interim - Atlanta, GA
  - Hyatt Regency Atlanta - US$179
  - Registration (US$600) – includes lunch

- **Proposals for 2017**
  - May 2017
    - Stuttgart, DE - Stephan Kehrer – Hirschmann
    - 802.3 with Ethernet Alliance
    - 802.11 in Daejeon, Korea
  - September 2017
    - 802.3 working with potential host
    - 802.11 in Waikoloa
  - January 2018 – open
  - May 2018
    - 802.3 with Ethernet Alliance
Future plenaries

- November 6-11, 2016 – San Antonio, TX USA
  - Grand Hyatt San Antonio
- March 12-17, 2017 – Vancouver, BC CANADA
  - Hyatt Regency Vancouver
- 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 2018 – San Diego, CA USA
  - Manchester Grand Hyatt
<table>
<thead>
<tr>
<th>Project</th>
<th>Subject</th>
<th>Last Motion</th>
<th>Current Stage</th>
<th>Draft#</th>
<th>Next action</th>
<th>PAR ends</th>
</tr>
</thead>
<tbody>
<tr>
<td>802.1Qbu</td>
<td>Frame preemption</td>
<td>Sponsor Ballot</td>
<td>Approved - June 30</td>
<td>D3.1</td>
<td>Publication</td>
<td>Dec '16</td>
</tr>
<tr>
<td>802.1Qbv</td>
<td>Scheduled traffic</td>
<td>Sponsor Ballot</td>
<td>Approved - Dec 5</td>
<td>D3.1</td>
<td>Publication March 17</td>
<td>Dec '16</td>
</tr>
<tr>
<td>802.1Qb</td>
<td>802.11 Bridging</td>
<td>Sponsor Ballot</td>
<td>Approved - June 30</td>
<td>D2.4</td>
<td>Publication</td>
<td>Dec '16</td>
</tr>
<tr>
<td>802.1Qca</td>
<td>SPB Path Control and Reservation</td>
<td>RevCom</td>
<td>Published - Mar 11</td>
<td>D2.1</td>
<td></td>
<td>Dec '16</td>
</tr>
<tr>
<td>802.1CB</td>
<td>Frame Replication and Elimination</td>
<td>WG ballot</td>
<td>WG ballot recirc</td>
<td>D2.5</td>
<td>Sponsor Ballot</td>
<td>Dec '17</td>
</tr>
<tr>
<td>802.1AC-REV</td>
<td>MAC service</td>
<td>Sponsor Ballot</td>
<td>Sponsor Ballot recirc</td>
<td>D3.2</td>
<td>RevCom</td>
<td>Dec '17</td>
</tr>
<tr>
<td>802.1Qcc</td>
<td>SRP enhancements &amp; performance improvements</td>
<td>TG ballot</td>
<td>WG ballot</td>
<td>D1.0</td>
<td>WG ballot</td>
<td>Dec '17</td>
</tr>
<tr>
<td>802.1ARce</td>
<td>AR: SHA-384 and P-384 Elliptic Curve</td>
<td>TG ballot</td>
<td>TG ballot</td>
<td>D0.7</td>
<td>TG ballot</td>
<td>Dec '18</td>
</tr>
<tr>
<td>802.1AR-REV</td>
<td>Secure Device Identity</td>
<td>TG ballot</td>
<td>Editor's draft</td>
<td>D0.1</td>
<td>TG ballot</td>
<td>Dec '18</td>
</tr>
<tr>
<td>802.1AB-REV</td>
<td>Station and MAC Connectivity Discovery</td>
<td>RevCom</td>
<td>Published - Mar 11</td>
<td>D1.2</td>
<td>TG ballot</td>
<td>Dec '18</td>
</tr>
<tr>
<td>802.1AEcg</td>
<td>Ethernet data encryption devices</td>
<td>WG ballot</td>
<td>WG ballot recirc</td>
<td>D1.4</td>
<td>Sponsor Ballot</td>
<td>Dec '18</td>
</tr>
<tr>
<td>802.1Qch</td>
<td>Cyclic queueing and forwarding</td>
<td>PAR approved</td>
<td>TG ballot</td>
<td>D0.2</td>
<td>WG ballot</td>
<td>Dec '19</td>
</tr>
<tr>
<td>802.1AS/Cor2</td>
<td>Tech and ed corrections</td>
<td>RevCom</td>
<td>Approved - Jan 29</td>
<td>D3.0</td>
<td>Publication</td>
<td>Dec '18</td>
</tr>
<tr>
<td>802.1AS-REV</td>
<td>Time synch enhancements</td>
<td>TG ballot</td>
<td>TG Ballot</td>
<td>D4.0</td>
<td>TG Ballot</td>
<td>Dec '19</td>
</tr>
<tr>
<td>802.1AB-REV</td>
<td>Station and MAC Connectivity Discovery</td>
<td>RevCom</td>
<td>Published - Mar 11</td>
<td>D1.2</td>
<td>TG ballot</td>
<td>Dec '19</td>
</tr>
<tr>
<td>802.1Qc</td>
<td>Local Address space</td>
<td>TG Ballot</td>
<td>TG Ballot</td>
<td>D1.0</td>
<td>WG Ballot</td>
<td>Dec '19</td>
</tr>
<tr>
<td>802.1Qcr</td>
<td>Asynchronous Traffic Shaping</td>
<td>PAR approved</td>
<td>PAR approved</td>
<td>D1.2</td>
<td>Sponsor Ballot</td>
<td>Dec '19</td>
</tr>
<tr>
<td>802.1Qcs</td>
<td>LRP (new registration protocol)</td>
<td>PAR approved</td>
<td>PAR approved</td>
<td>D0.5</td>
<td>Sponsor Ballot recirc</td>
<td>Dec '19</td>
</tr>
<tr>
<td>802.1CQ</td>
<td>Local Address protocol</td>
<td>PAR approved</td>
<td>PAR approved</td>
<td>D0.1</td>
<td>Editor's draft</td>
<td>Dec '20</td>
</tr>
<tr>
<td>802.1Xc</td>
<td>802.1X YANG data model</td>
<td>WG ballot</td>
<td>TG ballot</td>
<td>D0.4</td>
<td>TG Ballot</td>
<td>Dec '19</td>
</tr>
<tr>
<td>802.1Xck</td>
<td>802.1X YANG data model</td>
<td>WG ballot</td>
<td>TG ballot</td>
<td>D0.4</td>
<td>TG Ballot</td>
<td>Dec '19</td>
</tr>
<tr>
<td>802.1CM</td>
<td>Profile for Fronthaul</td>
<td>NesCom</td>
<td>WG Ballot</td>
<td>D0.4</td>
<td>Sponsor Ballot</td>
<td>Dec '19</td>
</tr>
<tr>
<td>802.1Qn</td>
<td>EVB VDP extension</td>
<td>NesCom</td>
<td>Editor's draft</td>
<td>D0.3</td>
<td>TG Ballot</td>
<td>Dec '19</td>
</tr>
<tr>
<td>802.1Qcp</td>
<td>802.1Q YANG data model</td>
<td>TG Ballot</td>
<td>TG Ballot</td>
<td>D0.4</td>
<td>TG Ballot</td>
<td>Dec '19</td>
</tr>
<tr>
<td>802.1d</td>
<td>URN Namespace</td>
<td>NesCom</td>
<td>WG Ballot</td>
<td>D0.4</td>
<td>Sponsor Ballot</td>
<td>Dec '19</td>
</tr>
<tr>
<td>802.1E</td>
<td>Privacy</td>
<td>NesCom</td>
<td>Editor's draft</td>
<td>D0.3</td>
<td>Editor's draft</td>
<td>Dec '19</td>
</tr>
<tr>
<td>802.1AX/Cor1</td>
<td>Tech and ed corrections</td>
<td>Sponsor Ballot</td>
<td>Sponsor Ballot recirc</td>
<td>D0.5</td>
<td>Sponsor Ballot</td>
<td>Dec '19</td>
</tr>
<tr>
<td>802.1CQ</td>
<td>Local Address protocol</td>
<td>PAR approved</td>
<td>PAR approved</td>
<td>D0.1</td>
<td>Editor's draft</td>
<td>Dec '20</td>
</tr>
<tr>
<td>802.1Xc</td>
<td>802.1X YANG data model</td>
<td>WG ballot</td>
<td>Published - July 22</td>
<td>D0.0</td>
<td>Editor's draft</td>
<td>Dec '20</td>
</tr>
<tr>
<td>802.1Qcr</td>
<td>Asynchronous Traffic Shaping</td>
<td>PAR approved</td>
<td>PAR approved</td>
<td>D1.2</td>
<td>Sponsor Ballot</td>
<td>Dec '19</td>
</tr>
<tr>
<td>802.1Qcs</td>
<td>LRP (new registration protocol)</td>
<td>PAR approved</td>
<td>PAR development</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>802.1AX/Rev</td>
<td>Link Aggregation</td>
<td>PAR approved</td>
<td>PAR approved</td>
<td>D0.1</td>
<td>Editor's draft</td>
<td>Dec '20</td>
</tr>
</tbody>
</table>
802 reports

- IETF SC
- JTC1 SC
- ITU SC
- 5G SC
- 802 TF
802 Task Force

- Indemnification of volunteer officers/editors
  - The following is an overview of the IEEE policy: https://mentor.ieee.org/802-ec/dcn/16/ec-16-0018-00-00EC-2016-overview-of-ieee-indemnification.pptx
  - Non-PAR activities are not clearly covered, policy changes are in discussion to address this

- myProject replacement
  - including IMAT & Mentor, WG balloting
  - Original time plan
    • Training/Tutorial in July 2016
    • Migration/Cutover in fall 2016
  - Indeterminate delay

- IEEE-SA staff support
  - Program: Jonathan Goldberg & Kathryn Bennett
  - Editors: Michelle Turner & Catherine Berger
  - International: Jodi Haasz
TG reports

- Security
- DCB
- TSN
- OmniRAN
- Maintenance
Incoming Liaisons

- **Maintenance:**
  - ITU-T SG15 LS322 on OTNT *(from March)*
  - TSN:
    - AVnu response
    - 1914
    - IEC SC65C WG15
    - WiFi Alliance
  - YANG (i.e., TSN & Security):
    - IETF on draft-wilton-netmod-intf-vlan-yang-03
    - ITU-T SG15 LS353 on UML to YANG mapping
    - ITU-T SG15 LS362 request for UML
Outgoing liaison discussion

- 3GPP RAN3 on 802.1CM
- IEEE 1914 on 802.1CM
- IEEE PES PSRC on TSN
- ITU-T Q13/15 on TSN
- ITU-T Q14/15 on YANG
- AVnu
- IEC SC65C WG15
- WFA
- IETF NVO3
- IETF YANG
Motions - Administrative
MOTION

- Support holding May 2017 interim meeting in Stuttgart

Proposed: Norm Finn
Seconded: Mick Seaman

For: 24   Against: 0   Abstain: 7
MOTION

- 802.1 approves the March 2016 (Plenary) and May 2016 (Interim) minutes:
  

Proposed: Jessy Rouyer
Seconded: John Messenger

- Approved by Acclamation
Motions - Security

As required to request approval from 802.1 to/for:

- Request EC approval for P802.1AEcg Sponsor ballot\(^5\).
- The P802.1ARce editor to prepare drafts for WG balloting\(^1\).
- Develop a P802.1AR-Rev PAR\(^2\) at the Sept interim, with permission to pre-circulate to the EC.
- Develop a P802.1AE-Rev PAR\(^3\) at the Sept interim, with permission to pre-circulate prior to the EC.

Security TG teleconferences\(^4\) to progress P802.1ARce, P802.1AEcg, P802.1Xck, P802E and other task group matters arising.

1. Motion authorising P802.1Xck working group balloting has already been passed. P802.1ARce ballots and P802.1Xck ballots expected to issue prior to the September 2016 interim meeting.
2. To subsume the P802.1ARce work, withdrawing the latter PAR once P802.1AR-Rev is approved. Presumed that this needs full pre-circulation and notice, and cannot be taken to the EC as an administrative action at this meeting.
3. Not to be submitted to NesCom until P802.1AEcg has been approved by RevCom.
4. Next few teleconferences already scheduled (under prior resolution) to meet 30 day requirement. The plan is to hold P802E teleconferences in addition to teleconferences on other topics to maximise participation in P802E.
5. Forwarding to ISO/IEC JTC1 for information under the PSDO agreement should be the subject of a separate motion under Maintenance, which handles PSDO liaison.
MOTION

- 802.1 confirms the CSD

And requests EC approval to forward P802.1AEcg D1.4 to Sponsor ballot.
- Proposed: Seaman Second: Randall
- For: 34 Against: 0 Abstain: 1

- EC proposed: Parsons Second:
- For: Against: Abstain:

[P802.1AEcg passed WG ballot 100% Approved, No outstanding comments. Approved 16, Disapproved 0, Abstained 15, Voters 50 MEC “is ready to ballot” (Catherine Berger)].
MOTION

- 802.1 confirms the PAR and CSD

And requests EC approval to forward P802.1AEcg D1.4 to Sponsor ballot.
- Proposed: Jeffree Second: Randall
- For: 22  Against: 0  Abstain: 2

- EC proposed: Parsons Second:
- For:  Against:  Abstain:

[P802.1AEcg passed WG ballot 100% Approved, No outstanding comments. Approved 16, Disapproved 0, Abstained 15, Voters 50 MEC “is ready to ballot” (Catherine Berger)].
MOTION

- 802.1 instructs the editor of P802.1ARce Secure Device Identity – Amendment: SHA-384 and P-384 Elliptic Curve (Mick Seaman) to prepare drafts for and conduct Working Group balloting¹.

- Proposed: Randall    Second: Weis
- For: 32  Against: 0  Abstain: 2

¹. The next P802.1ARce ballots expected to close prior to the September 2016 interim meeting. If it starts before 12th August that could be a 30-day WG ballot, otherwise that would be a 15-day Task Group ballot starting no later than 27th August. In either case our plan should allow for a WG ballot prior to the November 2016 meeting, and we would also require a full WG ballot after NesCom approval of the proposed P802.1AR-Rev PAR.
MOTION

- 802.1 authorizes the September 2016 Interim to generate a PAR and CSD\(^1\) for P802.1AR-Rev [Secure Device Identity – Revision] for pre-circulation to the EC\(^2\).

- Proposed: Randall    Second: Seaman

- For: 34  Against: 0  Abstain: 2


2. To subsume the P802.1ARce work, withdrawing the latter PAR once P802.1AR-Rev is approved. Presumed that this needs full pre-circulation and notice, and cannot be taken to the EC as an administrative action at this meeting.
MOTION

- 802.1 authorizes the September 2016 Interim to generate a PAR\(^1\) for P802.1AE-Rev [Media Access Control (MAC) Security – Revision] for pre-circulation to the EC.

- Proposed: Randall    Second: Seaman

- For: 35  Against: 0   Abstain: 0

MOTION

- 802.1 authorizes the Security Task Group to hold teleconferences to progress P802.1ARce, P802.1AEcg, P802.1Xck, P802E and task group matters arising:
  - 16ᵗʰ August 2016 at 1.00 pm Pacific Time
  - 11ᵗʰ October 2016 at 1.00 pm Pacific Time
  - Additional dates/times to be announced subject to notice of at least 10 days to the 802.1 email exploder

- Proposed: Randall    Second: Seaman
- For: 30  Against: 0  Abstain: 0
Motions – DCB
MOTION

- 802.1 authorizes DCB TG virtual conferences at 5 PM PT on alternate Tuesdays starting after completion of the initial Task Group ballot for 802.1Qcn VDP Extensions for NVO3.
- Start date to be announced at least 10 days before, to the 802.1 email exploder

- Proposed: Pat Thaler    Second: Yizhou Li
- For_31___Against_0___Abstain_0___
MOTION

- 802.1 authorizes the editors of P802.1Qcn (Yizhou Li and Paul Bottorff) to prepare drafts for and conduct Task Group balloting.

- Proposed: Pat Thaler
  Second: Max Riegel

- For___28___Against___0___Abstain___0___
MOTION

- 802.1 approves the liaison to the IETF NVO3 WG on VDP extension for NVO3
  
  
  Moved: Pat Thaler
  Second: Yizhou Li

- For__31___Against__0___Abstain__0__
MOTION

- 802.1 authorizes the September 2016 Interim to generate P802c PAR and CSD modification to add maintenance, including adding use of CID as a protocol identifier, for pre-circulation to the EC.

- Proposed: Pat Thaler
  Second: Max Riegel

- For_32___Against__0___Abstain__0___
Motions - TSN
MOTION

802.1 resolves to hold pre-meeting(s) on the Monday morning of the November 2016 Plenary session for TSN.

Proposed: János Farkas
Second: Rodney Cummings

For__31___Against__0__Abstain__0__
MOTION

- 802.1 confirms the PAR and CSD and requests EC conditional approval to forward P802.1Qci, Per-Stream Filtering and Policing, to Sponsor Ballot.
- PAR: [Link](https://development.standards.ieee.org/get-file/P802.1Qci.pdf?t=86069100003)
- Proposed: Jeffree
- Second: Farkas
- For 32 Against 0 Abstain 0

- EC proposed: Parsons Second: Thaler
- For_____Against____Abstain____
Supporting information – P802.1Qci

- **WG Recirculation ballot closed 22 July 2016**
- **Results:**
  - Yes: 19 (100.00%)
  - No: 0 (0.00%)
  - Abstain: 9 (32.14%)

<table>
<thead>
<tr>
<th>Category</th>
<th>Total</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Yes</td>
<td>19</td>
<td>100.00%</td>
</tr>
<tr>
<td>No</td>
<td>0</td>
<td>0.00%</td>
</tr>
<tr>
<td>Abstain</td>
<td>9</td>
<td>32.14%</td>
</tr>
</tbody>
</table>

- **No outstanding Disapproves or comments**
- **Recirculation ballot will be conducted during August timeframe with a possible final recirc if any comments received.**
- **The comments will be resolved during the 802.1 Interim meeting, September 12-15, York, UK.**
MOTION

- 802.1 confirms the PAR and CSD and requests EC conditional approval to forward P802d, Allocation of Uniform Resource Name (URN) values in IEEE 802 standards, to Sponsor Ballot.
- Proposed: Jeffree
- Second: Farkas

For 29 Against 0 Abstain 0

- EC proposed: Parsons Second: Thaler
- For____Against___Abstain_____
Supporting information – P802d

- WG Recirculation ballot closed 06 July 2016
- Results:

<table>
<thead>
<tr>
<th>Category</th>
<th>Total</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Yes</td>
<td>20</td>
<td>95.24%</td>
</tr>
<tr>
<td>No</td>
<td>1</td>
<td>4.76%</td>
</tr>
<tr>
<td>Abstain</td>
<td>10</td>
<td>32.26%</td>
</tr>
<tr>
<td>No. of Voters</td>
<td>50</td>
<td>100.00%</td>
</tr>
<tr>
<td>Voters responding</td>
<td>31</td>
<td>62.00%</td>
</tr>
</tbody>
</table>

- One outstanding Disapprove vote from Yizhou Li, but with no “Required” comments.
- Recirculation ballot will be conducted during August timeframe with a possible final recirc if any comments received.
- The comments will be resolved during the 802.1 Interim meeting, September 12-15, York, UK.
MOTION

- 802.1 authorizes Tony Jeffree, editor of P802.1Qch, Cyclic Queuing and Forwarding, to prepare drafts for and conduct Working Group balloting.
- Proposed: Jeffree
- Second: Farkas

For 30  Against  0  Abstain  0
MOTION

- 802.1 confirms the PAR and 5C and requests EC conditional approval to forward P802.1CB Frame Replication and Elimination for Reliability, to Sponsor Ballot.
  - PAR: https://development.standards.ieee.org/P8280000033/par
  - Proposed: Finn
  - Second: Farkas
  - For 31 Against 0 Abstain 0

- EC proposed: Parsons Second: Thaler
  - For____Against____Abstain_____
Supporting information – P802.1CB

- WG Recirculation ballot closed 20 July 2016
- No outstanding Disapprove votes
- Recirculation ballot will be conducted during August timeframe with a possible final recirc if any comments received.
- The comments will be resolved during the 802.1 Interim meeting, September 12-15, York, UK.
- The final recirc will be in September timeframe if necessary

<table>
<thead>
<tr>
<th>CATEGORY</th>
<th>All respondents</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>TOTAL</td>
</tr>
<tr>
<td>Yes³</td>
<td>22</td>
</tr>
<tr>
<td>No</td>
<td>0</td>
</tr>
<tr>
<td>Voting Yes or No</td>
<td>22</td>
</tr>
<tr>
<td>Abs. Time</td>
<td>5</td>
</tr>
<tr>
<td>Abs. Expertise</td>
<td>3</td>
</tr>
<tr>
<td>Abs. Other</td>
<td>1</td>
</tr>
<tr>
<td>Non-voter</td>
<td>1</td>
</tr>
<tr>
<td>Respondents²⁻⁴</td>
<td>31</td>
</tr>
<tr>
<td>Voters</td>
<td>50</td>
</tr>
<tr>
<td>Liaisons responding</td>
<td>0</td>
</tr>
<tr>
<td>No. of commenters</td>
<td>6</td>
</tr>
<tr>
<td>No. of comments</td>
<td>43</td>
</tr>
</tbody>
</table>
MOTION

- 802.1 authorizes the September 2016 Interim to generate PAR and CSD for pre-circulation to the EC for LRP (new registration protocol).
- Proposed: János Farkas
  Second: Feng Chen
- For 28 Against 0 Abstain 0
MOTION

- 802.1 authorizes the TSN TG to continue to have virtual conferences weekly on Mondays at 8AM (US-Pacific) for TSN general topics. Access information is posted here: http://www.ieee802.org/1/pages/tsn.html and will be updated as necessary.
- Proposed: János Farkas
- Second: Craig Gunther
- For_30___Against_0___Abstain_0___
MOTION

- 802.1 authorizes the TSN TG to continue to have virtual conferences weekly on Mondays at 9AM (US-Pacific) for 802.1AS-related topics. Access information is posted here http://www.ieee802.org/1/pages/tsn.html and will be updated as necessary.
  - Proposed: János Farkas
  - Second: Geoff Garner
  - Approve by acclamation
MOTION

- 802.1 authorizes the TSN Task Group to hold teleconference on August 30, 2016, 8-10 AM US Pacific Time to progress P802.1CM
- Access information will be available here http://www.ieee802.org/1/pages/tsn.html
- Proposed: János Farkas
- Second: Craig Gunther
- Approved by acclamation
MOTION

- 802.1 approves the liaison response to the ITU-T Q13/15 liaison LS 332

- Proposed: János Farkas
  Second: Geoff Garner

- For__28__Against__0__Abstain__0__
MOTION

- 802.1 approves the liaison response to the IEEE 1914 NGFI liaison

- Proposed: János Farkas
  Second: David Chen

- For: 26
- Against: 0
- Abstain: 0
MOTION

- 802.1 approves the liaison letter to 3GPP RAN3 on P802.1CM

- Proposed: János Farkas
  Second: David Chen

- For: 26
  Against: 1
  Abstain: 0
MOTION

- 802.1 approves the liaison response to IEC SC65C WG15 on IEEE P802.1CB

- Proposed: János Farkas
  Second: Craig Gunther

- For_27___Against_1___Abstain_0___
MOTION

- 802.1 approves the response to the ITU-T SG15 liaison LS 353 on UML to YANG mapping and LS 362 on request for UML
- Proposed: Jessy Rouyer
- Second: Janos Farkas
- For__27___Against__0___Abstain__0___
MOTION

- 802.1 approves the liaison letter to AVnu Alliance on TSN features

- Proposed: Craig Gunther
  Second: Rodney Cummings

- For_27___Against__0__Abstain__0__
MOTION

- 802.1 approves the liaison letter to IEEE PES PSRC on TSN features
  - and authorizes the chair to resolve any conflict with the 802.24 approved version of the liaison

- Proposed: János Farkas
  Second: Karl Weber

- For_26___Against__0__Abstain__0___
MOTION

▪ 802.1 approves the liaison response to IETF on draft-wilton-netmod-intf-vlan-yang-03

▪ Proposed: Mick Seaman
  Second: John Messenger

▪ For ___26___ Against ___0___ Abstain ___0___
MOTION

- 802.1 approves the liaison response to Wi-Fi Alliance on Wi-Fi HaLow use case for Wireless Field Network on Industry Automation
  - https://mentor.ieee.org/802.15/dcn/16/15-16-0548-01-0000-joint-meeting-response-to-wi-fi-alliance-request.docx

And authorizes the chair to resolve any conflict with the 802.15 approved version of the liaison

- Proposed: Norm Finn
  Second: John Messenger
- For_29___Against_1___Abstain_1___
Motions – OmniRAN
Motion

- Approve OmniRAN TG conference calls on:
  - September 27\textsuperscript{th}, 09:30 AM ET, 90mins
  - October 25\textsuperscript{th}, 09:30 AM ET, 90mins
  - Agenda and call-in details will be made available on the 802.1 mailing list and on https://mentor.ieee.org/omniran/bp/StartPage

Moved: Max Riegel, Second: Wang, Hao

Approved by Acclamation
Motion

- Authorize OmniRAN TG to hold an interim meeting in September at the IEEE 802 Wireless Interim in Warsaw, PL on September 13-15.

- Proposed: Max Riegel
  Second: Wang, Hao

- For_29___Against__0___Abstain___2___
Motions - Maintenance
MOTION

- 802.1 authorizes Maintenance TG to hold teleconferences on 6th September and 1st November 2016 at 11am-1pm ET if necessary. Access information will be posted to the 802.1 reflector in advance.

- Proposed: Messenger Second: Rouyer
- Approved by acclamation
MOTION

- 802.1 requests EC approval to forward the following maintenance PAR to NesCom:
  - 802.1Q-Rev “Bridges and Bridged Networks”

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

- Proposed: Messenger  
  Second: Rouyer
- For__24__Against__0__Abstain__1__

- EC proposed: Parsons  
  Second: Thaler
- For_____Against____Abstain____
MOTION

- 802.1 requests EC approval to forward the comment responses in documents

  to ISO/IEC JTC1 SC6 under the PSDO agreement. These are responses to the comments received on recent 60-day ballots of 802.1Qbv-2015, 802.1AB-2016 and 802.1Qca-2015.

- Proposed: Messenger Second: Rouyer
  - For__25__Against_0__Abstain__0__

- EC proposed: Parsons Second: Thaler
  - For____Against___Abstain____
MOTION

- 802.1 requests EC approval to forward the following standard to JTC1 SC6 for adoption under the PSDO agreement:
  - 802.1Qcd-2015 – Application VLAN TLV
- Proposed: Messenger  Second: Rouyer
- For__25__Against__0__Abstain__0__
- EC proposed: Parsons  Second: Thaler
- For_____Against____Abstain_____
MOTION

- 802.1 requests EC approval to forward the following documents to ISO/IEC JTC1 SC6, for information under the PSDO agreement once they have begun sponsor ballot:
  - P802.1AEcg
  - P802.1Qci
  - P802.1CB
  - P802d

- Proposed: Messenger    Second: Rouyer

- For_27___Against_0___Abstain_0___

- EC proposed: Parsons    Second: Thaler

- For____Against___Abstain_____
MOTION

- 802.1 confirms the PAR and requests EC conditional approval to forward P802.1AC-Rev to RevCom:

- Proposed: Messenger Second: Rouyer
  - For_23___Against_0___Abstain__1__

- EC proposed: Parsons Second: Thaler
  - For_____Against___Abstain_____

* Note: There are no 5C/CSD for this maintenance PAR.
Supporting info for 802.1AC-Rev

- Recirculation ballot on D3.2 closed July 8th
- No new Disapprove comments
- 2 Disapprove votes (one from a previous ballot, one from latest ballot)
- 1 restated comment supporting a Disapprove vote
- Plan: recirculate in August; Comment resolution at 802.1 mtg Sept 12-15, 2016. Recirculate in Sept if necessary.
Supporting info for 802.1AC-Rev

<table>
<thead>
<tr>
<th>CI 12</th>
<th>SC 12.2</th>
<th>P 19</th>
<th>L 18</th>
<th># 03-3</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hamilton, Mark</td>
<td>Ruckus Wireless</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Comment Type</td>
<td>GR</td>
<td>Comment Status</td>
<td>A</td>
<td></td>
</tr>
<tr>
<td>The Sponsor Ballot process can not be concluded successfully until this EtherType value is assigned.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Suggested Remedy</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Get the assignment, and fill in Table 12-2.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Response</td>
<td>Response Status</td>
<td>U</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ACCEPT IN PRINCIPLE. If the RAC assigns an EtherType before the recirculation ballot, or we can get permission to use another EtherType from the assignee, then the value will be inserted before recirculation (and the note removed). Otherwise, the value will be left as XXXX and the note changed to state that the value will be inserted during the publication process, and the draft will be submitted to RevCom.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>CI 12</th>
<th>SC 12.1</th>
<th>P 20</th>
<th>L 47</th>
<th># 35</th>
</tr>
</thead>
<tbody>
<tr>
<td>Kivinen, Tero</td>
<td>INSIDE Secure</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Comment Type</td>
<td>TR</td>
<td>Comment Status</td>
<td>A</td>
<td></td>
</tr>
<tr>
<td>The range is said to be 0600-FFFF in hexadecimal, but the decimal range does not match, as it is 1536-4096.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Suggested Remedy</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Not sure which one is correct, the FFFF or 4095. Either change hexadecimal range from 0600-FFFF, or decimal range from 1536-65535.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Response</td>
<td>Response Status</td>
<td>VV</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ACCEPT IN PRINCIPLE. Change &quot;4095&quot; to &quot;65535&quot;.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>CI 5</th>
<th>SC 5.1</th>
<th>P 5</th>
<th>L 36</th>
<th># 32</th>
</tr>
</thead>
<tbody>
<tr>
<td>Kivinen, Tero</td>
<td>INSIDE Secure</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Comment Type</td>
<td>ER</td>
<td>Comment Status</td>
<td>A</td>
<td></td>
</tr>
<tr>
<td>This is first use of LPD in the standard. Expand the acronym on the first use.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Suggested Remedy</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Change &quot;LPD&quot; to &quot;LLC Protocol Discrimination (LPD)&quot;</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Response</td>
<td>Response Status</td>
<td>VV</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ACCEPT.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Motions – Any others?