802.1 Motions for EC agenda, including supporting material

Closing IEEE 802 EC
March 2017, Vancouver
Agenda - 1

- ICAID to ICCom (ME)
  - IEEE 802 network enhancements for the next decade

- Drafts to Sponsor ballot (ME)
  - IEEE P802.1Q-rev - conditional - Local Medium Access Control (MAC) Address Usage

- Draft Standards to RevCom (ME)
  - IEEE P802c - conditional - Local Medium Access Control (MAC) Address Usage
  - IEEE P802.1Qch - Cyclic Queuing and Forwarding
  - IEEE P802.1CB - conditional - Frame Replication and Elimination for Reliability

- Items to SC6 (ME)
  - FDIS comment responses for IEEE Stds 802.1Qbu-2016 and 802.1Qbz-2016, to SC6 under PSDO
  - IEEE Stds 802d-2017, 802.1AEcg-2017, 802.1Qci-2017, 802.1AX-2014/Cor1-2017 P802.1CB and P802.1Qch, to SC6 for adoption under PSDO
  - IEEE P802.1Q-rev and 802c to SC6 for information under PSDO
Agenda - 2

- **Liaisons (II)**
  - IEEE 802.1 to IEEE 1588 on PTP port states
  - IEEE 802.1 to IETF IntArea WG on Private VLAN
  - IEEE 802.1 to IETF IS-IS WG on extended LLC
  - IEEE 802.1 to MEF Forum on YANG
  - IEEE 802.1 to Avnu Alliance on cut-through

- **Communication (II)**
  - IEEE 802.1 presentation for Deterministic Ethernet Forum event
ICAID to ICcom
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
ICAID Summary
‘IEEE 802 network enhancements for the next decade’

- 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

- 802 socialization
  - Pre-circulated to EC
  - Comments received and incorporated
Drafts to sponsor ballot
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

**RESPONSE RATE**
This ballot has met the 50% returned ballot requirement.

<table>
<thead>
<tr>
<th>Number of voters</th>
<th>59</th>
</tr>
</thead>
<tbody>
<tr>
<td>votes received</td>
<td>40</td>
</tr>
<tr>
<td>= 68% returned</td>
<td></td>
</tr>
<tr>
<td>abstentions</td>
<td>5</td>
</tr>
</tbody>
</table>

**APPROVAL RATE**
The 75% affirmation requirement is being met.

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

1 outstanding MBS comment from 1 voter

**Recirculation plan:**
Second WG recirc following March plenary  
Comment resolution at May interim  
Third WG 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

<table>
<thead>
<tr>
<th>Cl. 8</th>
<th>SC 8.6.3.h</th>
<th>P 128</th>
<th>L 29</th>
<th>#</th>
<th>1</th>
</tr>
</thead>
<tbody>
<tr>
<td>Haddock, Stephen</td>
<td>Stephen Haddock Con</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**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.

**Suggested Remedy**

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.
Draft standards to RevCom (ME)
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](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
  - [https://mentor.ieee.org/802-ec/dcn/17/ec-17-0054-00-00EC-p802c-to-revcom-conditional-approval-request.pdf](https://mentor.ieee.org/802-ec/dcn/17/ec-17-0054-00-00EC-p802c-to-revcom-conditional-approval-request.pdf)
- for supporting documentation
- In the WG,
  - Move: Pat Thaler  Second: Max Riegel
  - Approved (y/n/a): 23, 0, 1
- In the EC,
  - Move: Glenn Parsons  Second: Pat Thaler
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
  - 6 outstanding Disapprove votes, 17 outstanding MBS comments
Motion: Approval to send 802.1Qch to RevCom

- Approve sending P802.1Qch D2.2 to RevCom.
- 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
- In the EC,
  - Move: Glenn Parsons Second: Pat Thaler
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.
• 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
• In the EC,
  • Move: Glenn Parsons Second: Pat Thaler
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
- Second recirculation ballot will be conducted during March timeframe with resolution at May interim.
- A possible final recirculation in April timeframe with resolution on TSN calls, if required as a result of further comments received.

Ballot tally

<table>
<thead>
<tr>
<th>Recirculation #1</th>
<th>Initial Ballot</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ballot Open Date:</td>
<td></td>
</tr>
<tr>
<td>Ballot Close Date:</td>
<td></td>
</tr>
<tr>
<td>Type: New</td>
<td></td>
</tr>
<tr>
<td>Draft #: 2.7</td>
<td></td>
</tr>
<tr>
<td>Ballots Received: 13</td>
<td></td>
</tr>
<tr>
<td>Vote Changes: 4</td>
<td></td>
</tr>
<tr>
<td>Comments: 5</td>
<td></td>
</tr>
<tr>
<td>Must Be Satisfied Comments: 4</td>
<td></td>
</tr>
</tbody>
</table>

**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
JTC1 SC6 PSDO items
MOTION

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

- Proposed: Messenger Second: Rouyer
- For___16___Against___0___Abstain___0___
- Approved

- EC proposed: Glenn Parsons Second: Pat Thaler
- For_____Against_____Abstain_____
MOTION

- Approve submission of the following project(s) to ISO/IEC JTC1/SC6 for adoption under the PSDO agreement
  - 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: Glenn Parsons    Second: Pat Thaler
- For_____Against___Abstain_____
MOTION

- Approve liaison of the following draft(s) to ISO/IEC JTC1/SC6 for information under the PSDO agreement:
  - P802c/D2.1
  - P802.1Q-Rev/D2.0
- Proposed: Messenger Second: Rouyer
- For___17___Against___0__Abstain___0___
- Approved

- EC proposed: Glenn Parsons Second: Pat Thaler
- For____Against___Abstain_____
Liaisons (II)
Motion: Liaison from 802.1

• 802.1 approves the liaison letter to IEEE 1588

• 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

- 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

- 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

- 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

- Proposed: János Farkas
- Second: Craig Gunther

- Approved (y/n/a): 26, 0, 2
Communication (II)
Supporting info
DETERMINISTIC ETHERNET FORUM 2017
https://www.de-forum.com/

- Exposure to commercial users of our standards in a non-academic setting
- Introduce the IEEE 802.1 WG to future potential participants
  - Infusion of new requirements and ideas
  - Encourage more participation from real-life users (i.e. recruiting)
  - Face-to-face time with commercial users and suppliers
- On-stage opportunity at the Welcome Event to tell the attendees who we are
- Discuss and influence future Deterministic Ethernet implementations
- Table-top space in exhibition area
  - IEEE-SA Marketing staff will provide table/display, collateral and giveaways
  - IEEE-SA Marketing will also help create 802.1 specific collateral
- There is no fee associated with being a “lead exhibitor” for this event
Motion: Communication from 802.1

  - Proposed: Don Pannell
  - Second: Craig Gunther

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