Closing Agenda

John Messenger – IEEE 802.1 acting WG Chair
JMessenger@advaoptical.com
802.1 plenary agenda

**Monday opening**
- Call for Patents
- Participation guidelines
- Administrative
- Membership status
- Future Meetings
- 802 reports
- Sanity check – current projects
- 802.11aq/RAC issue
- Incoming Liaisons
- TG agendas

**Thursday 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:
  • 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 IEEE is not aware. Additionally, neither 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 have a duty to inform the IEEE

- Participants **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.

- Participants **should** inform the IEEE (or cause the IEEE to be informed) of the identity of any other holders of potential Essential Patent Claims.

Early identification of holders of potential Essential Patent Claims is encouraged.
Ways to inform IEEE

- Cause an LOA to be submitted to the IEEE-SA (patcom@ieee.org); 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

- **Speak up now and respond to this 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, please respond at this time by providing relevant information to the WG Chair.
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 of different technical approaches that include relative costs of patent licensing terms may be discussed in standards development meetings.
    • Technical considerations remain the 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.

Patent-related information

The patent policy and the procedures used to execute that policy are documented in the:

- IEEE-SA Standards Board Bylaws
  (http://standards.ieee.org/develop/policies/bylaws/sect6-7.html#6)
  (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
Decorum

- Press (i.e., anyone reporting publicly on this meeting) are to announce their presence (SASB Ops Manual 5.3.3.3)
- Photography or recording by permission only (SASB Ops Manual 5.3.3.2)
- Cell phone ringers off please
802.1 officers

- Chair: Glenn Parsons
- Vice Chair and acting chair: John Messenger
- Recording Secretary and acting vice chair: Jessy Rouyer
- Security TG Chair: Mick Seaman
- TSN TG Chair: János Farkas
  - TSN TG Secretary: Craig Gunther
- IEC/IEEE 60802 Joint Project chair: Ludwig Winkel
  - IEC/IEEE 60802 Joint Project secretary: Josef Dorr
- OmniRAN TG Chair: Max Riegel
- Acting Maintenance TG chair: Paul Congdon
- NEND ICA chair: Roger Marks
- Maintenance of website: Paul Unbehagen
- Maintenance of Email exploder: Hal Keen (volunteer needed)

Website
- http://www.ieee802.org/1/
The following are 802.1 voters (56):

<table>
<thead>
<tr>
<th>Assmann, Ralf</th>
<th>Haddock, Stephen</th>
<th>Riegel, Maximilian</th>
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<tr>
<td>Bao, Shenghua</td>
<td>Hantel, Mark</td>
<td>Rouyer, Jessy</td>
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<td>Bierschenk, Jens</td>
<td>Holness, Marc</td>
<td>Sato, Atsushi</td>
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<td>Bjornstad, Steinar</td>
<td>Kabra, Lokesh</td>
<td>Schewe, Frank</td>
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<td>Boiger, Christian</td>
<td>Karl, Michael</td>
<td>Seaman, Michael</td>
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<td>Bottorff, Paul</td>
<td>Kehrer, Stephan</td>
<td>Specht, Johannes</td>
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<td>Canchi, Radhakrishna</td>
<td>KOTO, Hajime</td>
<td>Thaler, Patricia</td>
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<td>Chen, David</td>
<td>Mangin, Christophe</td>
<td>Unbehagen, Paul</td>
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<td>Mansfield, Scott</td>
<td>Wang, Xinyuan</td>
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<td>Cheng, Weiying</td>
<td>McIntosh, James</td>
<td>Wang, Tongtong</td>
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<td>Messenger, John</td>
<td>Wang, Hao</td>
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<td>Cummings, Rodney</td>
<td>Mustala, Tero</td>
<td>Weber, Karl</td>
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<td>Elbakoury, Hesham</td>
<td>Ohsawa, Tomoki</td>
<td>Weis, Brian</td>
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<td>Farkas, Janos</td>
<td>Pannell, Donald R</td>
<td>Winkel, Ludwig</td>
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<td>Finn, Norman</td>
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<td>Woods, Jordon</td>
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<td>Garner, Geoffrey</td>
<td>Pienciak, Walter</td>
<td>Yamaura, Takahiro</td>
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<td>Gray, Eric</td>
<td>Potts, Michael</td>
<td>YU, XIANG</td>
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<td>Gunther, Craig</td>
<td>QIU, WEI</td>
<td>Zein, Nader</td>
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<td>Gutierrez, Marina</td>
<td>Randall, Karen</td>
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</tr>
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The following became voting members this week:

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

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<tr>
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<tr>
<td>Bechtel, Gordon</td>
<td>Itaya, Satoko</td>
<td>Kojima, Fumihide</td>
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<td>DeLaOlivaDelgado, Antonio</td>
<td>Maruhashi, Kenichi</td>
<td>Ohue, Hiroshi</td>
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<td>Ellegard, Lars</td>
<td>Osagawa, Daisuke</td>
<td>Shen, Li</td>
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<td>Fang, Yonggang</td>
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<td>Tarui, Isao</td>
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<td>Geilhardt, Frank</td>
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<td>Yin, Yue</td>
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<td>Harima, Taro</td>
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<td>Hasegawa, Akio</td>
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<td>Hotta, Yoshifumi</td>
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<tr>
<td>Hung, Soar</td>
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</table>
The following will lose voting member status for lack of qualifying attendance, unless they show up here this week:

Schewe, Frank
The following have requested to move to observer status:

None
802.11 Reciprocal credit

- 802.1 voters may get credit for attending any 802.11
- 802.1 voting members who are also 802.11 voting members may get a popup in IMAT each time they register attendance to ask which group they are accumulating credit for this plenary.

- 802.1 attendance credit will not be granted from a voter who attended only 802.11 meetings.
802.1 website update

- WordPress on IEEE server
  - [http://1.ieee802.org](http://1.ieee802.org)
  - Paul Unbehagen is leading, other volunteers welcome

- Phase I - now
  - consolidate all current web pages/servers
  - distribute page change control to TG chairs and project editors

- Phase II – 2018-2019
  - move document storage to (new) Mentor

- This week
  - TG chairs and editors met to plan updates
Future interim meetings

- July 24-26, 2018
  - IEC/IEEE 60802 Joint Project interim hosted by DKE in Frankfurt am Main, Germany
- September 10-14, 2018
  - Transpocket in Oslo, Norway
- Jan 14-18, 2019
  - FFPA in Hiroshima, Japan
- May 20-24, 2019
  - Ethernet Alliance in North America
- Sept 2019
  - Potential ADVA Optical Networking proposal
- Jan 2020
  - Geneva?
- May 2020
  - Ethernet Alliance proposal
This plenary

- Do you like this venue?
  - Yes: 54  No: 0

- Did you like the social?
  - Yes: 33  No: 18

- Did you go to the social?
  - Yes: 51  No: 12
Future plenaries

- 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
- March 15-20, 2020 – Atlanta, GA, USA
  - Hilton Atlanta
- July 12-17, 2020 – Montreal, QC, Canada
  - Sheraton Centre Montreal
- November 8-13, 2020 – Bangkok, Thailand
  - Marriott Marquis Queen's Park
## Sanity check – current workload

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<tr>
<th>Project</th>
<th>Subject</th>
<th>Last Motion</th>
<th>Current Stage</th>
<th>Draft#</th>
<th>Next action</th>
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<td>SRP enhancements &amp; performance improvements</td>
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<td>D2.3</td>
<td>Publication</td>
<td>Dec '19</td>
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<td>WG ballot</td>
<td>D2.1</td>
<td>Sponsor Ballot and PAR extension</td>
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<td>802.1AS-REV</td>
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<td>PAR modification</td>
<td>WG ballot</td>
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<td>Auto Attach to PBB</td>
<td>TG Ballot</td>
<td>TG Ballot</td>
<td>D0.2</td>
<td>WG ballot</td>
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<td>802.1X YANG data model</td>
<td>Sponsor Ballot</td>
<td>Sponsor Ballot</td>
<td>D2.2</td>
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<td>RevCom conditional</td>
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<td>802E</td>
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<td>TG ballot</td>
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<td>TG ballot</td>
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<td>Dec '20</td>
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<td>Editor's draft</td>
<td>Dec '22</td>
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<td>Sponsor Ballot</td>
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<td>60802 (DA)</td>
<td>Profile for Industrial Automation</td>
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<td>PAR approval</td>
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</table>
802 reports

- IETF SC
  - Did not meet
- JTC1 SC (update)
- ITU SC – did not meet
- 802 TF
  - myProject
  - Legal update
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 fall 2018.

- Anticipating transition in maybe Q2 2019
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)
    - [Questionnaire](#) completed to join trial, but staff advice that only open source license available for trial

- Continue discussion in YANGsters on open source
TG reports

- Security
- TSN
- OmniRAN
- Maintenance
- YANGsters
- NENDica
Security
Task Group Report – Security

1. **P802.1Xck Port-Based Network Access Control - YANG Data model**
   - Agreed Sponsor Ballot responses and conditional to RevCom plan

2. **P802.1AE-Rev MAC Security**
   - Reaffirmed sending to RevCom
   - Reviewed potential (minor) maintenance item

3. **P802E Privacy (Recommended Practice ... for 802..)**
   - Detailed text discussion, working documents posted
   - TG ballot following this meeting, to be open during Oslo interim
   - Some further discussion of privacy considerations for 802.1 standards

4. **A.O.B.**
   - None

5. **Future meetings/teleconferences**
   - Telecons as needed for P802.1Xck sponsor ballot recirculation resolution
   - P802E ballot resolution by telecom, next face to face in Bangkok
   - Limited work in Oslo
# 802.1 TSN TG Agenda

<table>
<thead>
<tr>
<th>Time</th>
<th>Activity</th>
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<tbody>
<tr>
<td>07:00-07:30</td>
<td>P802.1CS, P802.1Qcz</td>
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<td>07:30-08:00</td>
<td>MTN</td>
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<tr>
<td>08:00-08:30</td>
<td>Opening 802.1 plenary</td>
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<td>08:30-09:00</td>
<td>P802.1Qcr, P802.1Qcz</td>
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<td>09:00-09:30</td>
<td>Trk A: 60802 JP</td>
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<td>09:30-10:00</td>
<td>Trk B: AX-Rev</td>
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<td>10:00-10:30</td>
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<td>10:30-11:00</td>
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<td>11:30-12:00</td>
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<td>12:00-12:30</td>
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- Note that the TSN TG agenda is subject to change, e.g., depending on progress etc.
OmniRAN
OmniRAN TG Achievements
San Diego, CA meeting, July 9th – 12th

- **Progressing P802.1CF**
  - D2.1 WG ballot recirculation resulted in 100% approval
    - 10 editorial comments received
    - Comment resolution led to a few editorial corrections to the text
  - D2.2 WG ballot recirculation during July
    - Conference call planned on July 30th to resolve received comments – if any
  - Motion to EC to forward D2.2 to sponsor ballot after successful completion of recirculation
    - Sponsor ballot may start about Aug 1st with closure to allow to start comment resolution at the upcoming Oslo interim meeting.

- **Progressing P802.1CQ**
  - 2 contributions reviewed
    - Dynamic assignment of MAC addresses to 802.11 STAs using 802.11aq (PAD)
    - Structured assignment of MAC addresses within data centers
  - Discussions started to collect scenarios, use-cases and requirements in scope of initial version of P802.1CQ
    - Agreement to create document on scenarios and use-cases

- **Discussion of contributions to NEND ICA**
  - Review of application of P802.1CF NRM within FFIoT report

- **Initial thoughts on follow-on specification work to P802.1CF**
Looking forward to next session in Oslo, Norway, September 10-13, 2018

- **Envisioned topics:**
  - Comment resolution of sponsor comments on P802.1CF D2.2
  - Contributions on P802.1CQ scenarios, use-cases, requirements
  - Potentially, review P802.1CF related content of submissions to NEND ICA
  - Continue thoughts on follow-on work to P802.1CF

- **Upcoming conference calls:**
  - July 30th, 09:30 AM ET, 1hr
    - 1CF recirculation comment resolution, if needed
    - Decision about forwarding P802.1CF/D2.2 to sponsor ballot
    - 1CQ discussions depending on input
  - September 13th, 08:00 – 11:00 AM CET
    - 1CQ discussions at the Oslo interim meeting
    - WebEX session for remote participation from the wireless interim meeting in Waikoloa, Hawaii (08:00 – 11:00 PM HST)
Maintenance
Maintenance Item Status Update

- Updated maintenance sessions slides show detailed progressed status:

- Progressed Summary
  - 15 approved items -> closed due to 802.1Q-2018 publication
  - 4 new items -> balloting due to 802.1Xck sponsor recirc
  - 1 technical review item -> complete then ballot due to solution in AS-rev

- Action on unchanged items
  - 1 email request sent to submitter for status update on next step action
ISO/IEC JTC1 SC6 Status

- 23 standards currently PSDO approved
- 5 standards in PSDO approval process
- Motion for 9 documents sent for adoption
  - 802.1CM-2018 (*)
  - 802.1Q-2018 (*)
  - 802.1Qcc-2018 (**)
  - 802.1Qcp-2018 (**)
  - 802.1AR-2018 (**)
  - 802.1AC-2016/Cor-1 (***)
  - 802.1Qcy-2018
  - 802.1Xck-2018
  - 802.1AE-2018
- 2 Motions to approve liaison for information and response to comments
  - P802.1AS-Rev - information
  - IEEE 802.1AEcg – comment response

Note: *published; **approved; ***under corrigendum process
YANGsters Update
San Diego

- Documenting the use of the YANG Catalog (in support of open source pilot)
- Defined and Agreed on structure of GitHub for YANG with 802.1, 802.3, and 802.11
- Defined the YANG module naming guidelines with .1/.3/.11
- Continue the YANGsters calls
Nendica Meeting Report, July 2018

- IEEE 802 “Network Enhancements for the Next Decade” ICA
- Monday and Tuesday, 19:30-21:30, Seaport F
- Detailed agenda: https://tinyurl.com/yaszjwqe
- About 40 people
- Main meeting topics:
  - Work Item: Lossless Network for Data Centers
    - Final editorial review completed; publication soon
  - Work Item: Flexible Factory IoT
  - Editor hopes to start Call for Comments in August
  - Issues regarding possible new topics
    - IEEE Std 802.1CM-2018 review by János Farkas
    - Liaison from TIA on TIA Smart Buildings Program
  - Meeting Plans
    - Teleconference 2018-08-02, 20:00 ET
    - September meeting 2018-09-11, 19:30 Waikoloa
    - Support IETF/802.1 Data Center Workshop 2018-11-10
Liaisons
Incoming Liaisons

TSN

- ITU-T on 802.1CM TSN for Fronthaul

- ITU-T on 802.1 CFM OAM (LS123)

- OPC Foundation on 60802
Outgoing liaison discussion

- Liaison to 3GPP RAN3 on P802.1CM TSN for Fronthaul
- Liaison to MEF Forum on MEF CFM YANG
- Liaison to OPC Foundation on IEC/IEEE 60802 Joint Project
- Liaison response to ITU-T SG15 on CFM Data Models (re: LS123)
External communications

- Press release on 802.1CM-2018 publication
- eBlast on IEC/IEEE 60802 Joint Project – TSN Industrial Profile
EC consent agenda motions
Agenda - 1

- PARs to NesCom (ME)
  - P802.1CF PAR extension: Recommended Practice for Network Reference Model and Functional Description of IEEE 802 Access Network
  - P802.1Qcr PAR modification – Amendment: Asynchronous Traffic Shaping
  - P802.1Qcz PAR – Amendment: Congestion Isolation
  - P802.1Qdd PAR - Amendment: Resource Allocation Protocol

- Drafts to Sponsor ballot (ME)
  - IEEE P802.1CF - Recommended Practice for Network Reference Model and Functional Description of IEEE 802 Access Network
  - IEEE P802.1AS-Rev - Timing and Synchronization for Time-Sensitive Applications
Agenda - 2

- **Drafts to RevCom (ME)**
  - P802.1AE-Rev – Media Access Control (MAC) Security
  - P802.1Xck - Port-Based Network Access Control Amendment: YANG Data Model
  - P802.1AC-2016/Cor 1 - Media Access Control (MAC) Service Definition - Corrigendum 1: Logical Link Control (LLC) Encapsulation EtherType
  - P802.1Qcy - Amendment: Virtual Station Interface (VSI) Discovery and Configuration Protocol (VDP) Extension to Support Network Virtualization Overlays Over Layer 3 (NVO3)
Agenda - 3

- Liaisons (II)
  - Liaison to 3GPP RAN3 on P802.1CM TSN for Fronthaul
  - Liaison to MEF Forum on MEF CFM YANG
  - Liaison to OPC Foundation on IEC/IEEE 60802 Joint Project

- Liaisons (ME)
  - Liaison response to ITU-T SG15 on CFM Data Models (re: LS123)

- External Communications (ME)
  - Press release on 802.1CM-2018 publication
  - eBlast on IEC/IEEE 60802 Joint Project – TSN Industrial Profile

- Items to SC6 (ME)
  - Drafts to SC6 for information under the PSDO: P802.1AS-Rev
  - Standards to SC6 for adoption under the PSDO:
    - 802.1CM-2018, 802.1Q-2018, 802.1Qcc-2018, 802.1Qcp-2018, 802.1AR-2018,
      802.1AC-2016/Cor-1, 802.1Qcy-2018, 802.1Xck-2018, 802.1AE-2018
PARS TO NESCOM
Motion

  • This PAR introduces no new functionality and is exempt from the CSD requirement (OM 9.2)

  □ In the WG (y/n/a): 38, 1,0
    – Proposed: Max Riegel          Second: Hao Wang

  □ In EC, mover: John Messenger   Second: David Law
    – (y/n/a): <y>,<n>,<a>
Motion


• Approve CSD documentation in [https://mentor.ieee.org/802-ec/dcn/16/ec-16-0056-00-ACSD-802-1qcr.pdf](https://mentor.ieee.org/802-ec/dcn/16/ec-16-0056-00-ACSD-802-1qcr.pdf)

- In the WG (y/n/a): 40, 0, 0
  – Proposed: Johannes Specht   Second: János Farkas

- In EC, mover: John Messenger   Second: David Law
  – (y/n/a): <y>,<n>,<a>
Motion

• Approve forwarding P802.1Qcz PAR documentation in http://ieee802.org/1/files/public/docs2018/cz-PAR-0718-v01.pdf to NesCom


☐ In the WG (y/n/a): 35, 0, 5
  – Proposed: Paul Congdon   Second: Geoff Garner

☐ In EC, mover: John Messenger   Second: David Law
  – (y/n/a): <y>,<n>,<a>
Motion


- In the WG (y/n/a): 40, 0, 0
  - Proposed: Feng Chen  Second: Mike Potts

- In EC, mover: John Messenger  Second: David Law
  - (y/n/a): <y>,<n>,<a>
DRAFTS TO SPONSOR
BALLOT
MOTION

- Conditionally approve sending P802.1CF/D2.2 to Sponsor Ballot
- Confirm the CSD for P802.1CF in https://mentor.ieee.org/omniran/dcn/13/omniran-13-0086-00-ecsg-proposed-par-and-5c.docx

In the WG, mover: Max Riegel Second: Hao Wang
  - Forwarding draft (y/n/a): 36, 0, 2
  - Confirm the CSD (y/n/a): 38, 0, 2

In the EC, mover: John Messenger Second: David Law
  - (y/n/a): , ,
Supporting information P802.1CF

- Last WG recirculation on D2.1 closed July 5th
  - 100% approval (> 75%),
  - 80% response rate (> 50%),
  - no technical, no technical required, no editorial required comments.
  - no unresolved comments
  - no DISAPPROVE vote

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- D2.0 comment resolution:

- D2.1 comment resolution:

- WG Recirculation ballot in July; comment resolution July 30th concall
- Possible second recirculation ballot in August with comment resolution at the September interim meeting if required.
Motion

• Conditionally approve sending P802.1AS-Rev D8.0 to Sponsor Ballot


• P802.1AS-Rev D7.0 had 88% approval at the end of the last WG ballot
  □ In the WG (y/n/a): 38, 0, 1
    – Proposed: János Farkas    Second: Geoff Garner
  □ In EC, mover: John Messenger    Second: David Law
    – (y/n/a): <y>,<n>,<a>
Supporting information P802.1AS-Rev

- WG ballot closed: 7 May 2018
- 1 vote changed during the ballot comment resolution, resulting in
  - 4 outstanding Disapprove votes
  - 0 outstanding Must Be satisfied comments
- Response rate requirement met (75% > 50%)
- Recirculation ballot will be conducted during August with comment resolution during the September Interim and on the TSN TG calls. A possible final recirculation in September if required with comment resolution on the TSN TG calls.

Ballot results:

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<td>Voters responding</td>
<td>41</td>
<td>75%</td>
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Supporting information
P802.1AS-Rev

- Voters with outstanding Disapprove votes:
  - Boiger, Christian
  - Cummings, Rodney
  - Gunther, Craig
  - Pannell, Don

- These voters have indicated that they are satisfied with the disposition of their comments, but they would like to see the next draft.
DRAFTS TO REVCOM
Motion

• Approve sending P802.1AE-Rev D1.3 to RevCom
  • This maintenance PAR has no CSD.
  • P802.1AE-Rev D1.3 had 98% approval at the end of the last sponsor recirculation ballot

- In the WG (y/n/a): 39, 0, 0
  - Proposed: Weis    Second: McIntosh

- In EC, mover: John Messenger   Second: David Law
  - (y/n/a): <y>,<n>,<a>
Supporting information for P802.1AE-Rev to RevCom


1 outstanding Disapprove with 4 Must Be Satisfied comments on initial Sponsor Ballot.
P802.1AE-REV outstanding comments (1)

Table 10-3: Does not provide enough detail to address timing and jitter for time-sensitive networking

Suggested Remedy
Either tighten requirements or require more detailed statistical performance requirements; users would like to attach different ciphers to different queues based on statistical performance for TSN

Response
ACCEPT IN PRINCIPLE.
The specification of performance (delay/delay variance/jitter) requirements and the way in which they are to be described belongs in the relevant time-sensitive networking (TSN) standards or profiles that make use of those standards, not in this standard. Experience is that delay/jitter characteristics are not a direct function of a Cipher Suite but rather of their implementation (e.g. some TSN friendly implementations have constant delay characteristics). Delay variance/jitter requirements can also depend on other implementation characteristics entirely outside the scope of this standard (e.g. the implementation of two-step time synchronization support and packet transmission timing recording as specified in IEEE Std 802.1AS). The suggested remedy does not provide sufficient detail for the ballot resolution committee to determine changes to the draft that would meet the stated objectives. The draft (and the previously approved base text) does not permit more than one Cipher Suite to support a given CA. The following text has been added after the Table. "Time-sensitive networking (TSN) applications can benefit from or further constrain delays and delay variances experienced by relayed and transmitted frames (see IEEE Std 802.1AS, IEEE Std 802.1Q)." It is beyond the scope of this draft to add to the TSN specifications in those standards.
P802.1AE-REV outstanding comments (2)

Comment: 2. Clause 13.6: Standard should include a YANG model in addition to the SNMP MIB

Suggested Remedy:
Add a corresponding YANG model.

Response:
REJECT.
The comment is a proposal for a not insignificant project. It does not include a suggested change that can be applied to the draft or that the ballot resolution committee can use to determine the change.

Comment: There is no provision for quantum key distribution

Suggested Remedy:
Add a YANG leaf (and MIB object) such as 'secyfQkdEnable' to indicate quantum key generation capability, as this entails useful information about eavesdropping protection that we would want to use.

Response:
REJECT.
This is a forward looking requirement. At this time we do not know precisely what quantum key support would require, and so cannot make a change that we can be sure would be useful.
Default cipher suite should be AES-256 to address quantum computing threat; AES-128 will soon no longer be secure against quantum computing.

**Suggested Remedy**
Change default cipher suite should be AES-256 to address quantum computing threat.

**Response**
REJECT.

The mandatory to implement “Default Cipher Suite” is specified only to facilitate interoperability. Current implementations are free to implement AES-256 in addition to AES-128. Ongoing public Cipher Suite development (e.g. the CAESAR competition) is likely to produce other default Cipher Suite candidates with additional desirable characteristics (e.g. lower power consumption, initialization vector misuse resistance) before the quantum computing threat is encountered, and frequent change to the “default” would impact its interoperability characteristic.
Motion

- Conditionally approve sending P802.1Xck D2.2 to RevCom
- Approve CSD documentation in https://mentor.ieee.org/802-ec/dcn/15/ec-15-0070-00-ACSD-802-1xck.docx

• In the WG Proposed: Seaman Second: Weis
  • Forwarding draft to RevCom (y/n/a): 39, 0, 1
  • CSD (y/n/a): 38, 0, 1
• In EC, mover: John Messenger Second: David Law
  – (y/n/a): <y>,<n>,<a>
Supporting Information for P802.1Xck to RevCom

- Ballot closed: 5 July 2018
- No Disapprove votes
- 2 Must Be Satisfied comments (MEC) (no other comments)
- Comment resolution available here: [http://www.ieee802.org/1/files/private/xck-drafts/d2/802-1Xck-d2-1-dis-v01.pdf](http://www.ieee802.org/1/files/private/xck-drafts/d2/802-1Xck-d2-1-dis-v01.pdf)
- Recirculation ballot will start immediately following this plenary meeting with resolution on the Security TG calls and a further recirculation if necessary.
P802.1Xck outstanding comments

Comment Type: ER  Comment Status: A
It looks like you might be citing IETF RFC 7268 normatively, but it does not appear in Clause 2.

Suggested Remedy
If you are citing IETF RFC 7268 normatively, list it in Clause 2. If you are citing it informatively, include the bibliographic number [B26].

Response
Response Status: C
ACCEPT IN PRINCIPLE.
* The reference to IEEE RFC 7268 is Informative, so [B26] has been added after the reference.

Comment Type: ER  Comment Status: R
You have added IEEE Std 802 to the normative references but do not cite it normatively. (It IS cited informatively in the note in 11.1.

Suggested Remedy
Either cite IEEE Std 802 in normative text or move it back to the Bibliography.

Response
Response Status: C
REJECT.
* IEEE Std 802 is referenced (normatively) by clauses 9.7, 11.1.4, and 11.12.5 in the base standard for this amendment (IEEE Std 802.1X-2010 as emended by IEEE St 802.1Xb-2014), but had been accidentally omitted from Clause 3 References. It has been added to the References as an item of maintenance, as provided for in the PAR of this project.
MOTION

- Approve sending P802.1AC-2016-Cor-1/D2.0 to RevCom
- No CSD for this maintenance PAR
- P802.1AC-2016-Cor-1/D2.0 had 100% approval at the end of the last sponsor recirculation ballot.

- In the WG, mover: Congdon Second: Rouyer
  - Forwarding draft to RevCom (y/n/a): 39, 0, 0
  - CSD (y/n/a): , ,

- In the EC, mover: Messenger Second: Law
  - (y/n/a): , ,
Supporting material for P802.1AC-2016-Cor-1 to RevCom

Recirculation #1
Ballot Open Date: 24-May-2018
Ballot Close Date: 03-Jun-2018
Type: New
Draft #: 2.0
Ballots Received: 1 (one additional approve)

RESPONSE RATE

This ballot has met the 75% returned ballot requirement.
66 eligible people in this ballot group.
60 affirmative votes
0 total negative votes with comments
0 negative votes with new comments
0 negative votes without comments
0 abstention votes
60 votes received = 90% returned
0% abstention

APPROVAL RATE

The 75% affirmation requirement is being met.
60 affirmative votes
0 negative votes with comments
60 votes = 100% affirmative
Motion

• Conditionally approve sending P802.1Qcy D2.5 to RevCom

• Approve CSD documentation for P802.1Qcy in https://mentor.ieee.org/802-ec/dcn/15/ec-15-0072-00-ACSD-802-1qcn.pdf

• P802.1Qcy D2.3 had 100% approval at the end of the last Sponsor recirculation ballot
  ▫ In the WG (y/n/a): 40, 0, 0
    – Proposed: János Farkas    Second: Paul Bottorff
  ▫ In EC, mover: John Messenger    Second: David Law
    – (y/n/a): <y>,<n>,<a>

* Note that the designation has been changed from P802.1Qcn to P802.1Qcy because of confusion of Qcn with the acronym for Quantized Congestion Notification (QCN).
Supporting information P802.1Qcy

- Ballot closed: 17 June 2018
- 1 vote changed during the ballot comment resolution, resulting in
  - 0 outstanding Disapprove votes
  - 0 outstanding Must Be satisfied comments
- Comment resolution available here: http://www.ieee802.org/1/files/private/cy-drafts/d2/802-1Qcy-d2-3-dis-v1.pdf
- Recirculation ballot will be conducted during August with comment resolution during the September Interim and on the TSN TG calls. A possible final recirculation in October if required with comment resolution on the TSN TG calls.
Motion

• Approve liaison of the following response to 3GPP RAN3
  • http://www.ieee802.org/1/files/public/docs2018/liaison-
    response-3GPP-RAN3-0718-v01.pdf

• In the WG (y/n/a): 38, 0, 0
  • Proposed: János Farkas  Second: Jessy Rouyer

• In EC, for information
Motion

• Approve liaison of the following letter to MEF Forum

• In the WG (y/n/a): 38, 0, 0
  • Proposed: Scott Mansfield Second: Jessy Rouyer

• In EC, for information
Motion

• Approve liaison of the following response to OPC Foundation

• In the WG (y/n/a): 37, 0, 0
  • Proposed: János Farkas   Second: Jessy Rouyer

• In EC, for information
Motion

- Approve liaison of the following response (to LS 123) to ITU-T SG15
  - granting the IEEE LMSC chair (or his delegate) editorial license.
  - This approval is under LMSC OM “Procedure for communication with government bodies”

- In the WG (y/n/a): 38, 0, 0
  - Proposed: Scott Mansfield    Second: Jessy Rouyer
- In the EC, mover: Messenger Second: Law
  - (y/n/a):  ,  ,
Motion


- In the WG (y/n/a): 39, 0, 1
  - Proposed: János Farkas   Second: Jessy Rouyer

- In EC, mover: John Messenger  Second: David Law
  - (y/n/a): <y>,<n>,<a>
Motion

- Approve the eblast on the IEC/IEEE 60802 Joint Project in http://www.ieee802.org/1/files/public/docs2018/60802-draft-cfp-0718-v01.pdf, to be released with editorial changes as deemed necessary
  -

- In the WG (y/n/a): 38, 0, 0
  - Proposed: János Farkas  Second: Jessy Rouyer

- In EC, mover: John Messenger  Second: David Law
  - (y/n/a): <y>,<n>,<a>
JTC1 SC6 PSDO ITEMS
MOTION

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

- Proposed: Congdon Second: Rouyer
- For_38_Against_0 Abstain_0_

- EC proposed: John Messenger Second: David Law
- For____Against____Abstain_____
MOTION

Approve submission of the following project(s) to ISO/IEC JTC1/SC6 for adoption under the PSDO agreement, once approved and published:

802.1CM-2018 (*)
802.1Q-2018 (*)
802.1Qcc-2018 (**)
802.1Qcp-2018 (**)
802.1AR-2018 (**)
802.1AC-2016/Cor-1 (***)
802.1Qcy-2018
802.1Xck-2018
802.1AE-2018

Proposed: Congdon    Second: Rouyer
For_38_Against_0 Abstain_0_

EC proposed:  John Messenger    Second: David Law
For____Against___Abstain_____

Note: *published; **approved; ***under corrigendum process
EC regular motions
WG motions
MOTION

- 802.1 approves the March 2018 (Plenary) and May 2018 (Interim) minutes:

Proposed: Jessy Rouyer Seconded: János Farkas
- Approved by Acclamation
MOTION

- 802.1 resolves to hold an interim meeting in May 2020, hosted by the Ethernet Alliance in North America.

- Proposed: N Finn    Second: Congdon
- For: _33 Against: _0 Abstain: _3_
MOTION

- Authorize the editor of P802.1X-Rev "Port-Based Network Access Control", Mick Seaman, to generate drafts for and conduct Working Group balloting.

- Proposed: Weis    Second: McIntosh
- For: 40    Against: 0    Abstain: 0
MOTION

- Authorize the Security Task Group to hold teleconferences to progress P802.1Xck, P802E, P802.1X-Rev 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: McIntosh
- Approved by acclamation
MOTION

☐ Authorize Maintenance TG to hold teleconferences on 4th September and 6th November 2018 at 11am ET if necessary. Access information will be posted to the 802.1 reflector in advance.

☐ Proposed: Congdon Second: Rouyer
☐ Approved by acclamation
MOTION

- Authorize monthly calls for the YANGsters group, convening on the last Wednesday of every month from 9AM (US-Eastern) to 10AM (US-Eastern), start 25 July 2018 end 31 October 2018
  - Access information to be announced to the 802.1 email list in advance

- Proposed: Kehrre Second: Rouyer
- Approved by acclamation
Motion: OmniRAN TG conference calls

☐ Approve OmniRAN TG conference calls:
  – Between the July 2018 plenary and the November 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/omniran/

☐ Moved: Max Riegel, Second: Hao Wang

☐ Approved by acclamation
Motion

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

- Proposed: Johannes Specht
- Second: János Farkas

- In the WG (y/n/a): 33, 0, 1
Motion

- 802.1 authorizes Norman Finn, the Editor of P802.1CS Link-local Registration Protocol to prepare drafts for and conduct Working Group balloting.

  - Proposed: Norman Finn
  - Second: János Farkas

  - In the WG (y/n/a): 32, 0, 0
Motion

- 802.1 authorizes Jordon Woods, the Editor of IEC/IEEE 60802 Time-Sensitive Networking Profile for Industrial Automation to prepare drafts for and conduct Task Group balloting.

  - Proposed: Jessy Rouyer
  - Second: János Farkas

  - In the WG (y/n/a): 35, 0, 0
Motion

- 802.1 authorizes Stephan Kehrer, the Editor of P802.1CBcv Frame Replication and Elimination for Reliability Amendment: YANG Data Model and Management Information Base Module to prepare drafts for and conduct Task Group balloting.

  - Proposed: Jessy Rouyer
  - Second: János Farkas

  - In the WG (y/n/a): 40, 0, 0
Motion

- 802.1 authorizes Norman Finn, the Editor of P802.1DC Quality of Service Provision by Network Systems to prepare drafts for and conduct Task Group balloting.

  - Proposed: Jessy Rouyer
  - Second: János Farkas

  - In the WG (y/n/a): 36, 0, 0
Motion

- 802.1 authorizes the September 2018 Interim to generate PAR and CSD for pre-circulation to the EC for an amendment to IEEE 802.1CM to take advantage of new synchronization, syntonization and fronthaul interface developments.

- Proposed: János Farkas
- Second: Jessy Rouyer
- In the WG (y/n/a): 36, 0, 1
Motion

- 802.1 authorizes the September 2018 Interim to generate PAR and CSD for a standard specifying profiles for automotive networks.

  - Proposed: Michael Potts
  - Second: Donald Pannell

  - In the WG (y/n/a): 35, 0, 0
Motion

- 802.1 authorizes the September 2018 Interim to generate PAR and CSD for a standard specifying TSN profiles for service provider networks.

  - Proposed: Tongtong Wang
  - Second: Johannes Specht

  - In the WG (y/n/a): 32, 0, 3
Motion

• Approve holding a workshop with IETF on data center networking on November 10, 2018 in Bangkok.

• Proposed: Paul Congdon
• Second: János Farkas

• In the WG (y/n/a): 37, 0, 0
Motion

• Approve holding a TSN Task Group workshop with the IETF DetNet Working Group on November 11, 2018 in Bangkok.

• Proposed: János Farkas
• Second: Jessy Rouyer

• In the WG (y/n/a): 37, 0, 0
Motion

• 802.1 authorizes the TSN Task Group to hold pre-meeting(s) on the Monday morning of the November 2018 Plenary session, e.g., for the IEC/IEEE 60802 Joint Project.

• Proposed: János Farkas
• Second: Jessy Rouyer

• In the WG (y/n/a): 40, 0, 0
Motion

- 802.1 authorizes the TSN Task Group to hold teleconferences weekly on Mondays from 8AM (US-Pacific) to 10AM (US-Pacific).
- Access information is posted on the http://www.ieee802.org/1/tn page and will be updated as necessary.
- Agenda will be announced on the 802.1 email reflector at least by the Friday before the call.

- Proposed: János Farkas
- Second: Jessy Rouyer

- Approved by acclamation
Motion

• 802.1 authorizes the TSN Task Group to hold bi-weekly teleconferences together with IEC 65C/MT9 to progress the IEC/IEEE 60802 Joint Project on Mondays from 6AM (US-Pacific) to 8AM (US-Pacific), starting with August 27, 2018.
• Access information is posted on the [http://www.ieee802.org/1/tsn](http://www.ieee802.org/1/tsn) page and will be updated as necessary.
• Agenda will be announced on the 802.1 email reflector at least by the Friday before the call.

• Proposed: János Farkas
• Second: Jessy Rouyer

• Approved by acclamation
Motions – Any others?
Simulation

- Craig Gunther presented the Simulation page on the 802.1 website