802.1 Plenary - 11/2012
San Antonio

Closing Agenda
802.1 officers etc

- **Officers**
  - Chair: Tony Jeffree
  - Vice Chair: Glenn Parsons
  - Recording Secretary: Eric Gray
  - Security TG Chair: Mick Seaman
  - Interworking TG Chair: Steve Haddock
  - AV Bridging TG Chair: Michael Johas Teener
  - Data Center Bridging TG Chair: Pat Thaler
  - Maintenance of website: John Messenger
  - Maintenance of Email exploder: Hal Keen

- **Website**
  - [http://www.ieee802.org/1/](http://www.ieee802.org/1/)
  - Username: p8021  Password: go_wildcats
Administrative stuff – Upload area

- Website – New Upload area
  - The new file upload facility can be accessed from the filenaming conventions page at: http://ieee802.org/1/filenaming.html
The following are 802.1 voters:

Alon, Zehavit
An, Yafan
Ao, Ting
Ashwood-Smith, Peter
Boiger, Christian
Booth, Brad
Bottorff, Paul
Brandner, Rudolf
Carlson, Craig
Chang, Xin
Cheng, Weiying
Congdon, Paul
Crupnicoff, Diego
Cummings, Rodney
Desanti, Claudio
Eastlake, 3rd, Donald
Farkas, Janos
Fedyk, Donald
Finn, Norman
Fredette, Andre
Garner, Geoffrey
Ghanwani, Anoop
Goetz, Franz
Gravel, Mark
Gray, Eric
GU, Yingjie
Gunther, Craig
Haddock, Stephen
Hayakawa, Hitoshi
Jeffree, Anthony
Jochim, Markus
Johas Teener, Michael
Jones, Girault
Kamath, Daya
Keen, Hal
Keesara, Srikanth
Kim, Yongbum
Klein, Philippe
Kleineberg, Oliver
Lynch, Jeff
Mack-Crane, Ben
Martin, David
Messenger, John
Morris, John
Multanen, Eric
Olsen, David
Pannell, Donald
Parsons, Glenn
Pearson, Mark
Pelissier, Joseph
Raeber, Rene
Randall, Karen
Roese, Josef
Romascanu, Dan
Rouyer, Jessy
Sajassi, Ali
Saltsidis, Panagiotis
Seaman, Michael
Seto, Koichiro
Sharma, Rakesh
Shimizu, Takeshi
Stanton, Kevin
Thaler, Patricia
Touve, Jeremy
Vissers, Maarten
Wei, Yuehua
Xiao, Min
The following will become voting members when/if they show up here this week:

Grow, Robert
Muyschondt, Henry
The following could become voting members if they email me indicating their intention to do so and if they show up here this week:

Bickford, Charles
Bragg, Nigel
Catlin, Jeffrey
Flaherty, Stephen
Huang, Lu
Jakovljevic, Mirko
Joshi, Mandar

Moldovansky, Anatoly
Tanaka, Jun
Unbehagen, Paul
Weber, Karl
Weis, Brian
Winkel, Ludwig
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 consistent with the ANSI patent policy and 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 12 and 12a 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)
All participants in this meeting have certain obligations under the IEEE-SA Patent Policy. 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.
  
  • “Personal awareness” means that the participant “is personally aware that the holder may have a potential Essential Patent Claim,” even if the participant is not personally aware of the specific patents or patent claims.

- “Should inform the IEEE (or cause the IEEE to be informed)” of the identity of “any other holders of such 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.

Quoted text excerpted from IEEE-SA Standards Board Bylaws subclause 6.2

- Early identification of holders of potential Essential Patent Claims is strongly encouraged
- No duty to perform a patent search
Instructions for the WG Chair

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– **Advise the WG attendees that:**
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  • 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 12 and 12a on inclusion of potential Essential Patent Claims by incorporation or by reference.

Note: **WG** includes Working Groups, Task Groups, and other standards-developing committees with a PAR approved by the IEEE-SA Standards Board.

(Optional to be shown)
Participants, Patents, and Duty to Inform

All participants in this meeting have certain obligations under the IEEE-SA Patent Policy. Participants:

- “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.
  - “Personal awareness” means that the participant “is personally aware that the holder may have a potential Essential Patent Claim,” even if the participant is not personally aware of the specific patents or patent claims.
- “Should inform the IEEE (or cause the IEEE to be informed)” of the identity of “any other holders of such 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.

Quoted text excerpted from IEEE-SA Standards Board Bylaws subclause 6.2

- 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/guides/bylaws/sect6-7.html#6

Material about the patent policy is available at
http://standards.ieee.org/board/pat/pat-material.html

If you have questions, contact the IEEE-SA Standards Board Patent Committee Administrator at patcom@ieee.org or visit http://standards.ieee.org/board/pat/index.html

This slide set is available at http://standards.ieee.org/board/pat/pat-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.
ISO/IEC JTC1/SC6

- Progress being made on agreement with ISO re 802 standards
- We need to consider submission of 802.1 standards to ISO
- Most urgent one to consider is 802.1X as China now has a national standard for a replacement for 802.1X
- We could submit 802.1X this week
- What do we want to do?
802.1 WG could make a decision to submit its standards to ISO to mitigate risks from TEPA-AC & TLSec

- Activities are continuing in SC6 that are potentially contrary to 802.1 interests
- The risks related these activities can be mitigated by submitting 802.1 for ISO ratification
  - A recent resolution by SC6 provides a framework for submitting 802.1 standards for ISO ratification
  - The IEEE 802 JTC1 SC is developing the details of the required “participation mechanism”
- In the meantime, 802.1 WG could start the process of obtaining ISO ratification
  - The WG could make the decision today
  - The process will take at least 6 months, probably longer
Activities are continuing in SC6 that are potentially contrary to 802.1 interests

- The China NB has been promoting a number of competitors to 802.1 standards in ISO/IEC JTC1/SC6
  - TEPA-AC is roughly a replacement to 802.1X
  - TLSec is roughly a replacement to 802.1AE
- The main concerns related to these proposals are:
  - They are being promoted on basis of assertions that 802.1 standards are flawed in some way
  - There is a fear that ISO/IEC standardisation will allow 802.1 standards to be banned in China (& other countries) using the “WAPI model”
- It both cases China has stated they will:
  - Standardise the protocols in China
    - TEPA-AC was standardised in October
  - Propose the standards for ratification by ISO
    - Not clear when?
The risks related to TEPA-AC & TLSec can be mitigated by submitting 802.1 for ISO ratification

- 802.1 WG could submit their standards for ratification by ISO/IEC under the PSDO agreement
  - The PSDO agreement is between IEEE and ISO and allows fast track ratification by ISO of IEEE standards
  - IEEE 802.11-2012 was ratified under this agreement in October 2012
- The benefits are:
  - 802.1 standards will obtain an “international” stamp that is recognised by all countries
  - 802.1 standards will have status in ISO/IEC that makes it more difficult for others to propose duplicate standards
  - The process of ISO/IEC ratification of 802.1 standards may lead to a better understanding and appreciation in SC6 of 802.1 technology
A recent resolution by SC6 provides a framework for submitting 802.1 standards for ISO ratification

- **802.1 resolution (Res 6.1.10) ...**
  - As empowered by clause A1.2.1 of the PSDO agreement between ISO and IEEE, SC 6 decides to allocate responsibility for the revision process of any ISO/IEC 8802-1 standard to the IEEE 802.1 WG while the IEEE 802.1 WG has an ongoing revision process for the IEEE 802.1 standard.
  - A condition of this resolution is that SC 6 and its NBs have access to an established mechanism to contribute to the revision process in the IEEE 802.1 WG.

- **Summary**
  - Delegates responsibility for any revisions (including amendments, corrigenda) to IEEE 802.1 WG
  - The delegation is valid until 802.1 WG stops its revision activities
  - The delegation is conditional on mechanism being established that allow SC6 NBs to provide comments to 802.1 WG
The IEEE 802 JTC1 SC is developing the details of the required “participation mechanism”

- The likely mechanism (based on discussions at the recent SC6 meeting) will need to include:
  - Notifying SC6 of SG establishment
  - Notifying SC of PAR approval
  - Providing SC6 all LB and SB drafts
    - 802.11 WG has been doing this for about 2 years
  - Providing SC6 NBs and their reps an opportunity to comment on drafts
    - They will not get a vote
    - Their comments will be processed in good faith; if they are late they may be pushed into normal maintenance processes
    - 802.11 WG has sent comment from recent vote in JTC1 on 802.11-2012 to TGmc
- The IEEE 802 JTC1 SC will develop a formal proposal in Jan 2013 in context of 802.11 but it will be applicable to 802.1 and 802.3
- This proposal will be provided to 802.1 WG in Mar 2013 for approval
In the meantime, 802.1 WG could start the process of obtaining ISO ratification

- The IEEE 802 JTC1 SC leadership is confident that a participation mechanism can be put in place
- In the meantime, 802.1 WG could decide to start the process of getting 802.1 standards ratified by JTC1
  - The process takes 6-12 months
  - The 802.11 WG has already gone down this route
  - IEEE staff would handle all the mechanics
  - It just needs a decision by the WG!
- There are some open questions
  - Does 802.1 WG want to start the process?
  - Which standards should be sent? 1X, 1AE, 1Q
  - What would they be called in ISO? Hopefully something like ISO/IEC 8802-1X
    - IEEE staff are asking about naming
Future interim meetings

- **January 2013:**
  - Co-located with 802.11, Jan 14-17, Vancouver Hyatt
  - Registration/hotel details: [http://www.ieee802.org/11/Meetings/Meeting_Plan.html](http://www.ieee802.org/11/Meetings/Meeting_Plan.html)

- **May 2013:**
  - Co-located with 802.3, Fairmont Empress in Victoria BC hosted by Ethernet Alliance (Week of May 13th through 17th)

- **September 2013:**
  - Possible co-located meeting with 802.11, China Sept 15-20
  - Possible co-located meeting with 802.3, York UK, 2nd-6th
Sanity check – current workload

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<td>802.1Qbz</td>
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<td>Submit PAR in November</td>
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TG reports

- Interworking
- Security
- AVB
- DCB
- Maintenance
- O&A
Motions
MOTION

- 802.1 approves the July 2012 and September 2012 minutes:
  
  
  http://www.ieee802.org/1/files/public/minutes/2012-09-minutes.pdf

Proposed: Gray Seconded: parsons

- Approved by acclamation
MOTION

- 802.1 resolves to hold pre-meeting(s) on the Monday morning of the March 2013 plenary session.
- Proposed: haddock
- Second: gray

- Approved by acclamation
MOTION

- 802.1 resolves to hold an interim meeting in York, 3 To 6 September 2013, co-located with 802.3
- Proposed: Messenger
- Second: parsons
- For_22___Against_0_Abstain_7_
MOTION

- 802.1 requests approval by IEEE 802 LMSC to grant an extension for its Study Group on enabling the use of 802.11 (including consideration of infrastructure BSS, PBSS, and IBSS associations) as general transit links capable of supporting 802.1 bridging, with the intent of creating a PAR and five criteria.

- Proposed: Finn
- Second: mack-crane
- For__31__Against_0__Abstain_2_

- EC proposed: Jeffree  Second: Thaler
- For_____Against___Abstain____
Motions - Maintenance
MOTION

- Motion: Authorize teleconference meeting of the maintenance task group on January 9th at 11am ET.
- Proposed: Parsons
- Second: gray
- Approved by acclamation
Motion

- Submit P802.1AB Corrigendum 1 for WG ballot recirc.
- Proposed: Parsons
  Second: gray
- For: 28 Against: 0  Abstain: 0
Motion

- Submit P802.1AS Corrigendum 1 for WG ballot recirc.
- Proposed: Parsons
  Second: gray
- For: 28 Against: 0  Abstain: 0
MOTION

- 802.1 requests EC conditional approval for forwarding P802.1AB-Cor1 to Sponsor ballot.
- Proposed: Parsons
- Second: gray
- For: 31  Against: 0  Abstain: 1

- EC proposed: Jeffree       Second: Thaler
- For____Against____Abstain_____
MOTION

- 802.1 requests EC conditional approval for forwarding P802.1AS-Cor1 to Sponsor ballot.
- Proposed: Parsons
- Second: gray
- For: 31  Against: 0  Abstain: 0

- EC proposed: Jeffree  Second: Thaler
- For____Against___Abstain____
Motions - AVB
MOTION

- Motion: The AVB TG will continue to have teleconferences weekly at 9AM (US Pacific) Wednesdays for AVB general topics. Access information will be sent to the 802.1 reflector immediately after the plenary.
- Proposed: Johas Teener
- Second: gunther
- Approved by acclamation
Motion

- Change the name of the AVB Task Group to the “Time-Sensitive Networking” Task Group
- Proposed: Johas Teener
  Second: gray
- For: -- 27  Against: -- 0  Abstain: --2
Straw poll

- Time sensitive networking - 18
- AVB and Time sensitive networking 12
- Time sensitive networking and AVB 4
- AVB and other Time sensitive networking 2
Motion

- Authorize the January 2013 interim to generate a PAR and 5C for pre-circulation to the EC for an amendment to 802.1Q: “Seamless failover via frame replication and duplicate frame elimination for scheduled traffic”
- Proposed: Boiger
- Second: pannell
- For 23 Against 1 Abstain 3
Motions - Interworking
MOTION

- Authorize 1-hour teleconferences through the January 2013 802.11 Interim on Monday 3 December, 17 December, and 7 January at 11:00am Eastern US time for 802.11 Bridging study group.

- Proposed: Finn
- Second: teener
- Approved by acclamation
MOTION?

Motion: The Interworking TG will have teleconferences at 7:00AM (US Pacific) Thursdays bi-weekly for AX-REV starting 29 November 2012

Proposed: Haddock

Second:

Approved by acclamation
MOTION

- 802.1 authorizes the editor of P802.1AX-REV (Norm Finn) to prepare a draft for Task Group balloting.
- Proposed: Haddock   Second: finn
- For__24__ Against_0__ Abstain__1__
MOTION

■ 802.1 authorizes the editor of P802.1Qbp ECMP (Ben Mack-Crane) to prepare a draft for Working Group balloting.
■ Proposed: Haddock    Second: mack-crane
■ For___28___Against_0___Abstain___1___
MOTION

- 802.1 requests EC approval to forward the P802.1AC by Ethernet over MOST PAR to NESCOM.
- Proposed: Haddock
- Second: grow
- For_8___Against_9___Abstain__12__
- EC proposed: Jeffree seconded: Thaler
MOTION

- 802.1 requests EC approval to forward the P802.1Qca SPB Path Control and Reservation PAR to NESCOM.
- Proposed: Haddock
- Second: mack-crane
- For: 24 Against: 0 Abstain: 3
- EC proposed: Jeffree seconded: Thaler
MOTION

- 802.1 requests EC approval to forward the P802.1Qbz Wired and Wireless Bridging PAR to NESCOM.
  - Proposed: Haddock
  - Second: finn
  - For: 23
  - Against: 0
  - Abstain: 1

- EC proposed: Jeffree seconded: Thaler
MOTION

- 802.1 approves the response to the MEF liaison L00156-000 (CFM Link Trace Trigger).
- Proposed: Haddock   Second: gray
- For__22__Against_0__Abstain_2___
MOTION

- 802.1 approves the response to the ITU liaison ols 443 (Bridging Transparent Clock frames).
- Proposed: Haddock  Second: messenger
- For__20__Against_0__Abstain__6__
Motions - DCB
MOTION

- Authorize DCB teleconference with access information to be sent to the 802.1 reflector immediately after the plenary. The call will be used to discuss possible new work.
  - 29 January 2013
    8 AM – 10 AM (US Pacific)

- Proposed: thaler
- Second: gray
- Approved by acclamation
Motions – O&A
MOTION

- 802.1 requests EC conditional approval for forwarding P802 O&A to Sponsor ballot.
- Proposed: Gilb Second: gray
- For: Against: Abstain:

- EC proposed: Jeffree Second: Thaler
- For:20 Against:0 Abstain:3
Motions - Security

As required to request/ authorize:

- P802.1AEbw progression
  - 802.0 approval to forward P802.1AEbw D1.1 to RevCom
- 802.1 Security TG interim meeting
- 802.1 Security TG telecon’s to resolve TG & WG ballot comments on P802.1Xbx, and to develop further drafts of P802.1Xbx.

NOTE: A motion instructing the P802.1Xbx editor, M. Seaman, to prepare drafts for TG and WG balloting was approved in the March plenary.
MOTION

- 802.1 requests EC approval to submit IEEE Std 802.1X and IEEE Std 802.1AE to ISO/IEC for approval as International Standards under the PSDO agreement.
- Proposed:    Messenger    Second: gray
- For___22_Against_0___Abstain___1___

- EC proposed:    Jeffree    Second: Thaler
- For_____Against____Abstain_____
MOTION

- 802.1 requests EC approval to submit P802.1AEbw D1.1 to RevCom.
  Proposed: Messenger Second: gray
  For__19_Against_0__Abstain_2___

- EC proposed: Jeffree Second: Thaler
  For_____Against___Abstain_____

[P802.1AEbw D1.0 (MAC Security: Amendment—Extended Packet Numbering) passed Sponsor Ballot (98% approval, 90% response rate), 1 Disapprove vote on Sponsor Ballot Recirculation but all required comments now WITHDRAWN so 100% approval, 90% response.]
MOTION

- 802.1 authorizes the chair of the Security TG to conduct an interim meeting of the TG in February 2013 in Austin, TX (subject to at least 21 days notice to the 802.1 email exploder).
- Proposed: Messenger    Second: gray
- Approved by acclamation

[It is anticipated that the meeting will be held Tuesday 12th February through Thursday 14th, finishing early enough on Thursday for flights to both East and West Coast, meeting fee (if any) will be modest, Vitesse Semiconductor have offered to host.]
MOTION

■ 802.1 authorizes the chair of the Security TG, Mick Seaman, to hold conference calls (subject to notice of at least 21 days to the 802.1 email exploder) to resolve TG & WG ballot comments on P802.1Xbx, and to develop further drafts of P802.1Xbx.

■ Proposed: Messenger Second: gray
■ Approved by acclamation
Motions – Any others?