

# 802.1 Plenary - 11/2007

Closing Agenda

# 802.1 officers etc

## ■ Officers

- Chair: Tony Jeffree
- Vice Chair: Paul Congdon
- Recording Secretary: Michael Wright
- Security TG Chair: Mick Seaman
- Interworking TG Chair: Steve Haddock
- AV Bridging TG Chair: Michael Johas Teener
- CM TG Chair: Pat Thaler
- Maintenance of website: John Messenger
- Maintenance of Email exploder: Hal Keen

## ■ Website

- <http://www.ieee802.org/1/>
- Username: p8021 Password: go\_wildcats

# Administrative stuff – Upload area

- Website – Upload area

- <http://www.ieee802.org/1/files/public/contrib>

- Username: dot1user Password: p4d1con

- Needs sftp client: suggest you use Winscp:

- <http://winscp.net/eng/index.php>

- or Filezilla:

- <http://sourceforge.net/projects/filezilla/>

- Hostname is grouper.ieee.org

# Membership

- Voting membership
  - Current 802.1 membership rules:
  - A *session* is (the whole of) an Interim or Plenary during which 802.1 meets. A *meeting* is a subset of a session; i.e., a contiguous time period during the session when the WG meets. 802.1 considers meetings to be ½ day in duration.
  - To gain membership: Attend 2 plenaries in the span of the four most recent plenaries (one interim can be substituted) **and** inform the Chair of your intention to become a voter. Membership is then gained at the start of the next plenary attended
  - To maintain membership: Attend 2 out of the last 4 plenaries (one interim can be substituted) , and respond to 2 out of 3 most recent WG/TG ballots
  - **Attendance is as per signup book/sheet – must be 75% of meetings during a session in order to count.**
  - **Affiliation must be declared on the signup sheet in order for attendance to be counted (see later slides).**
  - Signing the signup sheet for a meeting declares that you have (or will have) attended during the majority of the allotted time for that ½ day meeting. Hence, at sessions where more than one WG meets, signing up at two parallel meetings is **not** valid.
- Voting rights are properly regarded as an obligation, not a privilege!

# Membership contd...

- If you don't sign the signup sheet, then you won't get credit for being in the meeting.
- This may result in you not getting membership as quickly as you could.
- **So, if you care about getting/keeping your vote, make sure that you sign in every morning and afternoon that you are present in the meeting.**

# Affiliation (1)

- **From the IEEE-SA Standards Board Operations Manual:**

## 5.3.3.1 Disclosure of affiliation

Each participant's affiliation shall be disclosed at any working group or project meeting. The chair or the chairs delegate shall inform the meeting of the requirement for disclosure of affiliation (see 5.2.1.5 of the IEEE-SA Standards Board Bylaws). This shall be via a sign-in (e.g., sign-in sheet, electronic sign-in, verbal disclosure, or electronic communication) that provides for disclosure of employer and any other affiliation, a reminder of the definition of affiliation, and possible penalties for non-compliance.

Whenever an individual is aware that the ownership of his or her employer or other affiliation may be material to the process, or when the Sponsor or the IEEE-SA Standards Board requests, that individual shall also declare the "ultimate parent entity" of their affiliation. The ultimate parent entity is an entity that directly or indirectly, through one or more intermediaries, controls the entity identified as the individual's affiliation. For the purposes of this definition, the term "control" and its derivatives, with respect to for-profit entities, means the legal, beneficial or equitable ownership, directly or indirectly, of more than fifty percent (50%) of the capital stock (or other ownership interest, if not a corporation) of an entity ordinarily having voting rights.

"Control" and its derivatives, with respect to nonprofit entities, means the power to elect or appoint more than fifty percent (50%) of the Board of Directors of an entity. The minutes of each working group or project meeting shall record a list of attendees and the disclosed affiliation of each attendee.

## 5.3.3.2 False or misleading disclosure

A meeting attendee who fails to disclose affiliation shall not accrue any membership rights, including rights of or towards voting membership, until such disclosures have been made. The chair shall review the adequacy of disclosures. Failure to disclose affiliation, or materially false or misleading disclosure of affiliation, shall result in loss of membership privileges and may also result in loss of other participation privileges within the IEEE-SA for such participants and any affiliated entities.

The Sponsor of the project shall, when appropriate, review the adequacy of disclosures and, if deemed inadequate, may direct corrective action(s). In the absence of effective corrective action(s) by the Sponsor, the IEEE-SA Standards Board may impose further corrective action(s).

# Affiliation (2)

- **From the IEEE-SA Standards Board Bylaws:**

## 5.2.1.5 Disclosure of affiliation

Every member and participant in a working group, Sponsor ballot, or other standards development activity shall disclose his or her affiliation. An individual is deemed "affiliated" with any individual or entity that has been, or will be, financially or materially supporting that individual's participation in a particular IEEE standards activity. This includes, but is not limited to, his or her employer and any individual or entity that has or will have, either directly or indirectly, requested, paid for, or otherwise sponsored his or her participation. Failure to disclose every such affiliation may result in complete or partial loss of rights to participate in IEEE-SA activities. An individual is not excused from compliance with this policy by reason of any claim of a conflicting obligation (whether contractual or otherwise) that prohibits disclosure of affiliation. A person who believes that a participant's disclosure is materially incomplete or incorrect should report that fact to the Secretary of the IEEE-SA Standards Board and the appropriate Sponsor(s).

# The following are 802.1 voters:

Osama Aboul-Magid  
Zehavit Alon  
Jan Bialkowski  
Rob Boatright  
Jean-Michel Bonnamy  
Paul Bottorff  
Rudolf Brandner  
Frank Chao  
Paul Congdon  
Alex Conta  
Uri Cummings  
Claudio Desanti  
Linda Dunbar  
Hesham Elbakoury  
David Elie-Dit-Cosaque  
Don Fedyk  
Felix Feifei Feng  
Norm Finn  
Bob Frazier  
John Fuller  
Edna Ganon  
Geoffrey Garner  
Anoop Ghanwani  
Franz Goetz  
Eric Gray  
Ken Grewal  
Craig Gunther

Steve Haddock  
Brian Hassink  
Brian Hausauer  
Romain Insler  
David James  
Tony Jeffree  
Paul Hongkyu Jeong  
Michael Johas Teener  
Hal Keen  
Keti Kilcrease  
Tae-eun Kim  
Yongbum Kim  
Mike Ko  
Raghu Kondapalli  
Bruce Kwan  
Kari Laihonen  
Yannick Le Goff  
David Martin  
Marco Mascitto  
Alan McGuire  
John Messenger  
Dinesh Mohan  
Hiroshi Ohta

David Olsen  
Shlomo Ovadia  
Glenn Parsons  
Ken Patton  
Neil Peers  
Haim Porat  
Max Pritikin  
Charles Qi  
Ananda Rajagopal  
Karen Randall  
Robert Roden  
Josef Roesse  
Allyn Romanow  
Dan Romascanu  
Jessy V Rouyer  
Ali Sajassi  
Joseph Salowey  
Panagiotis Saltsidis  
Sam Sambasivan  
John Sauer  
Mick Seaman  
Koichiro Seto  
Himanshu Shah  
Gopi Sirineni  
Nurit Sprecher  
Kevin B Stanton  
Bob Sultan

Muneyoshi Suzuki  
Attila Takacs  
Francois Tallet  
John Terry  
Pat Thaler  
Oliver Thorp  
Maarten Vissers  
Dennis Volpano  
Manoj Wadekar  
Bert Wijnen  
Ludwig Winkel  
Michael D. Wright  
Chien-Hsien Wu  
Zong Liang Wu



The following have become voting members if they are here this week:

Craig W. Carlson  
Janos Farkas  
Mitch Gusat  
Asif Hazarika  
Seong Soon Joo  
Byung Suk Kim  
Doyeon Kim  
Ben Mack-Crane  
Menucher Menuchery  
Kevin Nolish  
Don Pannell  
Joe Pelissier  
Guenter Roeck  
Moran Roth  
Ravi Shenoy

# Access to 802.XX websites/reflectors

- As per established 802 EC decisions, there should be no restriction placed on access to websites and email reflectors owned by other WGs
- Some WGs allow the 802.1 username/password to be used on their websites
- For others, a request to the WG Chair should produce the desired result.
- IF YOU DON'T GET A SENSIBLE RESPONSE FROM THE RELEVANT WG CHAIR, LET ME KNOW.

# Instructions for the WG Chair

**The IEEE-SA strongly recommends that at each WG meeting the chair or a designee:**

- **Show slides #1 through #5 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 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 the five slides 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) that the participant believes 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.
  - It is recommended that the WG chair review the guidance in the *Standards Companion* on inclusion of potential Essential Patent Claims by normative reference.

Note: **WG** includes Working Groups, Task Groups, and other standards-developing committees.

**(Optional to be shown)**

# Highlights of the *IEEE-SA Standards Board Bylaws on Patents in Standards*

- **Participants have a duty to tell the IEEE if they know (based on personal awareness) of potentially Essential Patent Claims they or their employer own**
- **Participants are encouraged to tell the IEEE if they know of potentially Essential Patent Claims owned by others**
  - This encouragement is particularly strong as the third party may not be a participant in the standards process
- **Working Group required to request assurance**
- **Early assurance is encouraged**
- **Terms of assurance shall be either:**
  - Reasonable and nondiscriminatory, with or without monetary compensation; or,
  - A statement of non-assertion of patent rights
- **Assurances**
  - Shall be provided on the IEEE-SA Standards Board approved LOA form
  - May optionally include not-to-exceed rates, terms, and conditions
  - Shall not be circumvented through sale or transfer of patents
  - Shall be brought to the attention of any future assignees or transferees
  - Shall apply to Affiliates unless explicitly excluded
  - Are irrevocable once submitted and accepted
  - Shall be supplemented if Submitter becomes aware of other potential Essential Patent Claims
- **A “Blanket Letter of Assurance” may be provided at the option of the patent holder**
- **A patent holder has no duty to perform a patent search**
- **Full policy available at <http://standards.ieee.org/guides/bylaws/sect6-7.html#6>**

# IEEE-SA Standards Board Bylaws on Patents in Standards

## 6.2 Policy

IEEE standards may be drafted in terms that include the use of Essential Patent Claims. If the IEEE receives notice that a [Proposed] IEEE Standard may require the use of a potential Essential Patent Claim, the IEEE shall request licensing assurance, on the IEEE Standards Board approved Letter of Assurance form, from the patent holder or patent applicant. The IEEE shall request this assurance without coercion.

The Submitter of the Letter of Assurance may, after Reasonable and Good Faith Inquiry, indicate it is not aware of any Patent Claims that the Submitter may own, control, or have the ability to license that might be or become Essential Patent Claims. If the patent holder or patent applicant provides an assurance, it should do so as soon as reasonably feasible in the standards development process. This assurance shall be provided prior to the Standards Board's approval of the standard. This assurance shall be provided prior to a reaffirmation if the IEEE receives notice of a potential Essential Patent Claim after the standard's approval or a prior reaffirmation. An asserted potential Essential Patent Claim for which an assurance cannot be obtained (e.g., a Letter of Assurance is not provided or the Letter of Assurance indicates that assurance is not being provided) shall be referred to the Patent Committee.

A Letter of Assurance shall be either:

- a) A general disclaimer to the effect that the Submitter without conditions will not enforce any present or future Essential Patent Claims against any person or entity making, using, selling, offering to sell, importing, distributing, or implementing a compliant implementation of the standard; or
- b) A statement that a license for a compliant implementation of the standard will be made available to an unrestricted number of applicants on a worldwide basis without compensation or under reasonable rates, with reasonable terms and conditions that are demonstrably free of any unfair discrimination. At its sole option, the Submitter may provide with its assurance any of the following:
  - (i) a not-to-exceed license fee or rate commitment, (ii) a sample license agreement, or (iii) one or more material licensing terms.

# IEEE-SA Standards Board Bylaws on Patents in Standards

Copies of an Accepted LOA may be provided to the working group, but shall not be discussed, at any standards working group meeting.

The Submitter and all Affiliates (other than those Affiliates excluded in a Letter of Assurance) shall not assign or otherwise transfer any rights in any Essential Patent Claims that are the subject of such Letter of Assurance that they hold, control, or have the ability to license with the intent of circumventing or negating any of the representations and commitments made in such Letter of Assurance.

The Submitter of a Letter of Assurance shall agree (a) to provide notice of a Letter of Assurance either through a Statement of Encumbrance or by binding any assignee or transferee to the terms of such Letter of Assurance; and (b) to require its assignee or transferee to (i) agree to similarly provide such notice and (ii) to bind its assignees or transferees to agree to provide such notice as described in (a) and (b).

This assurance shall apply to the Submitter and its Affiliates except those Affiliates the Submitter specifically excludes on the relevant Letter of Assurance.

If, after providing a Letter of Assurance to the IEEE, the Submitter becomes aware of additional Patent Claim(s) not already covered by an existing Letter of Assurance that are owned, controlled, or licensable by the Submitter that may be or become Essential Patent Claim(s) for the same IEEE Standard but are not the subject of an existing Letter of Assurance, then such Submitter shall submit a Letter of Assurance stating its position regarding enforcement or licensing of such Patent Claims. For the purposes of this commitment, the Submitter is deemed to be aware if any of the following individuals who are from, employed by, or otherwise represent the Submitter have personal knowledge of additional potential Essential Patent Claims, owned or controlled by the Submitter, related to a [Proposed] IEEE Standard and not already the subject of a previously submitted Letter of Assurance: (a) past or present participants in the development of the [Proposed] IEEE Standard, or (b) the individual executing the previously submitted Letter of Assurance.

# IEEE-SA Standards Board Bylaws on Patents in Standards

The assurance is irrevocable once submitted and accepted and shall apply, at a minimum, from the date of the standard's approval to the date of the standard's withdrawal.

The IEEE is not responsible for identifying Essential Patent Claims for which a license may be required, for conducting inquiries into the legal validity or scope of those Patent Claims, or for determining whether any licensing terms or conditions are reasonable or non-discriminatory.

Nothing in this policy shall be interpreted as giving rise to a duty to conduct a patent search. No license is implied by the submission of a Letter of Assurance.

In order for IEEE's patent policy to function efficiently, individuals participating in the standards development process: (a) shall inform the IEEE (or cause the IEEE to be informed) of the holder of any potential Essential Patent Claims of which they are personally aware and that are not already the subject of an existing Letter of Assurance, owned or controlled by the participant or the entity the participant is from, employed by, or otherwise represents; and (b) should inform the IEEE (or cause the IEEE to be informed) of any other holders of such potential Essential Patent Claims that are not already the subject of an existing Letter of Assurance.

# 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 fixing product prices, allocation of customers, or dividing 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.**

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

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.

This slide set is available at <http://standards.ieee.org/board/pat/pat-slideset.ppt>



# Use of audio/video recording devices & other techno toys

- **Per 2006 SA ops manual:**
  - **No use may be made of audio or video recording devices to record the proceedings in any 802.1 meetings without the express knowledge and agreement of all participants in the meeting. ()**
  - **Any members of the press are required to announce their presence**
- Participants are reminded that mobile phones should be adjusted to the “off” or “silent mode” setting. **Use of either of these settings would be a considerable courtesy to the speaker and other members of the audience.**

# Presentation materials

- **Copyright statements or privacy/confidentiality statements of any kind SHALL NOT APPEAR on any contributions to 802, either in emails or in presentation material**
- Power Point bloat
  - At these meetings external bandwidth is not free
  - Please consider this when developing presentations
  - Corporate logos, graphic backgrounds, lots of clip art, etc. occupy lots of megabytes & generally do not convey any content that helps us to make technical progress
  - A comparison: Current 802.1Q-REV plus AD is a mere 2.8 megs; some recent presentations have been of comparable or greater size (but smaller in content by a couple of orders of magnitude!)
  - I will reserve the right in future to refuse circulation of materials that I consider to be excessive in this regard

# Future interim meetings

## January 2008:

- 28<sup>th</sup>-31<sup>st</sup> Jan, Los Gatos

## ■ May 2008:

- Israel – 12th.
- Other possibilities?

## ■ Sept 2008:

- York? Week of 22nd
- ChengDu, China? (poss. Joint with 802.3)
- What dates?

## ■ Jan 2009:

- Any ideas?

# Interpretation requests outstanding...

- 802.1AB interp request
  - Motion later

# Liaisons received:

- Feb liaison from MEF: <http://www.ieee802.org/1/files/public/docs2007/liaison-mef-from-jan-2007-meeting-0207.doc>
- Proposed response: <http://www.ieee802.org/1/files/public/docs2007/liaison-proposed-response-to-mef-from-jan-2007-meeting-0707.doc>
- <http://www.ieee802.org/1/files/public/docs2007/liaison-itut-sg15-ls-158-0707.doc>
- <http://www.ieee802.org/1/files/public/docs2007/liaison-itut-sg15-ls-173-0707.doc>
- <http://www.ieee802.org/1/files/public/docs2007/liaison-itut-sg15-ls-185-0707.doc>
- <http://www.ieee802.org/1/files/public/docs2007/liaison-itut-sg15-ls-174-0707.doc>
- <http://www.ieee802.org/1/files/public/docs2007/liaison-dsl-forum-auth-for-wt146-0707.doc>
- IETF – CCAMP – Re Qay

# TG reports

- Interworking
- Security
- AV
- CM

# (IN)Sanity check – current workload

1. 802.1AC (MAC Service): Second draft. End date Dec '08
2. 802.1af (Key agreement): WG ballot. End date Dec '08
3. 802.1ah (Backbone PB) Sponsor ballot. End date Dec '08
4. 802.1aj (Two-port relay) WG ballot. End date Dec '08
5. 802.1ap (Q MIB). WG ballot. End date Dec '09
6. 802.1aq (Shortest Path) TG ballot. End date Dec '09
7. 802.1AR (Device identifiers) TG ballot. End date Dec '09
8. 802.1AS (Time synch) – TG ballot. End date Dec '10
9. 802.1Qat (SRP) TG ballot. End date Dec '10
10. 802.1Qau (Congestion Notification) PAR approved. End date Dec '10
11. 802.1Qav (AVB Forwarding & Queuing) - TG ballot
12. 802.1H revision - PAR approved
13. 802.1AB (LLDP) revision – WG ballot
14. 802.1Qaw (DD-CFM) – TG ballot
15. 802 O&A – Revision PAR approved
16. 802.1Qay – PBB-TE – TG ballot
17. (802.1AX - Link Agg – PAR approved (but .3 project)
18. 802.1ak-CORR-1 - WG ballot
19. 802.1X-REV (will replace 802.1af) PAR
20. 802.1Qaz – PAR
21. 802.1BA – PAR in March
22. 802.1Q-REV – PAR in March

# State diagram format

- Tabular or diagrammatic?



# Motions

# MOTION

- 802.1 approves the July 2007 and September 2007 minutes.
- Proposed: wright      Seconded:  
messenger
- For 44      Against 0      Abstain 0

# MOTION

- 802.1 resolves to authorize post-meeting(s) on the Friday morning of the March 2008 plenary session subject to confirmation and statement of agenda at the Jan interim meeting.
- 802.1 Proposed: fuller
- Second: wright
  - For: 30      Against: 8      Abstain: 12

# MOTION

- 802.1 resolves to hold pre-meeting(s) on the Monday morning of the March 2008 plenary session.
- 802.1 Proposed: wright
- Second: congdon
  - For: 47    Against: 0    Abstain:  
1

# MOTION

- 802.1 resolves to hold an interim meeting in Eilat, 12<sup>th</sup>-15th May 2008.
- 802.1 Proposed: porat
- Second: martin
  - For: 29      Against: 6      Abstain:  
18

# MOTION

- 802.1 resolves to hold an interim meeting in ChengDu, week of 15th September 2008.
- 802.1 Proposed: dunbar
- Second: congdon
  - For: 36    Against: 2    Abstain:  
16

# MOTION

- Motion: The AVB TG will continue to have teleconferences weekly at 2PM (US Pacific) Wednesdays for AVB general topics and 10AM (US Pacific) Mondays for 802.1AS specific topics. Access information will be sent to the 802.1 reflector immediately after the plenary.
- Proposed: teener
- Second: fuller
  - For:29
  - Against:0
  - Abstain:20

# MOTION

- Motion: The CN simulation ad hoc will continue to have teleconferences weekly at 9AM (US Pacific) Thursdays. Access information will be sent to the 802.1 reflector immediately after the plenary.
- Proposed: thaler
- Second: congdon
  - For:24
  - Against:0
  - Abstain:15



# MOTION

- Motion: 802.1 resolves to assign the following reserved addresses:
  - Nearest customer bridge 01-80-C2-00-00-03
  - Nearest non-TPMR bridge 01-80-C2-00-00-0F
- Proposed: finn
- Second: congdon
  - For: 38
  - Against: 0
  - Abstain: 8

# Motion:

- 802.1 confirms its offer to the MEF of non-exclusive use of the 01-80-C2-00-00-07 address as per Slide 28 of <http://www.ieee802.org/1/files/public/docs2004/04-11%20closing%20plenary.ppt>. This address will be documented in 802.1Q and the MEF use identified as one of potentially many protocols with similar scope.
- Proposed: Haddock Second: wright
- For 33 Against 0 Abstain 12

# MOTION

- 802.1 resolves to approve the following response to the outstanding 802.1AB interpretation request and to request EC approval to forward it to the IEEE as an approved response:

"The requester is correct in his assertion that bit 0 of the ifMauAutoNegCapAdvertisedBits data type would properly be encoded in bit 8 (the most significant bit) of the first octet of the LLDP PMD auto-negotiation advertised capability field, and that bits 0 through 7 of the bitstring are encoded in bits 8 through 1 of the capability field, respectively, with bits 8 through 15 of the bitstring being encoded in bits 8 through 1 of the second octet of the field.

The above describes the bit and octet ordering in the LLDPDU that is passed across the MAC service boundary between LLDP and the underlying MAC service. Naturally, the representation of the data in this field in the MAC data frames, and the subsequent physical encoding, will follow whatever rules apply to the MAC/PHY technology that supports the operation of the protocol."

- Proposed: congdon Seconded: finn
- For 22 Against 0 Abstain 25
- EC proposed: Jeffree second:

- Please read the following and respond with whether this is a true assessment of the standard or is this incorrect. Thank you.

IEEE Std 802.1AB-2005

G.2.2 PMD auto-negotiation advertised capability field the PMD auto-negotiation advertised capability field shall contain an integer value as defined by the ifMauAutoNegCapAdvertisedBits object in IETF RFC 3636

RFC 3636 says:

ifMauAutoNegCapAdvertisedBits OBJECT-TYPE

```
SYNTAX BITS {
    bOther(0),      -- other or unknown
    b10baseT(1),    -- 10BASE-T half duplex mode
    b10baseTFD(2),  -- 10BASE-T full duplex mode
    b100baseT4(3),  -- 100BASE-T4
    b100baseTX(4),  -- 100BASE-TX half duplex mode
    b100baseTXFD(5), -- 100BASE-TX full duplex mode
    b100baseT2(6),  -- 100BASE-T2 half duplex mode
    b100baseT2FD(7), -- 100BASE-T2 full duplex mode
    bFdxPause(8),   -- PAUSE for full-duplex links
    bFdxAPause(9),  -- Asymmetric PAUSE for full-duplex
                    -- links
    bFdxSPause(10), -- Symmetric PAUSE for full-duplex
                    -- links
    bFdxBPause(11), -- Asymmetric and Symmetric PAUSE for
                    -- full-duplex links
    b1000baseX(12), -- 1000BASE-X, -LX, -SX, -CX half
                    -- duplex mode
    b1000baseXFD(13), -- 1000BASE-X, -LX, -SX, -CX full
                    -- duplex mode
    b1000baseT(14), -- 1000BASE-T half duplex mode
    b1000baseTFD(15) -- 1000BASE-T full duplex mode
}
```

RFC 1906 says:

(3) When encoding an object whose syntax is described using the BITS construct, the value is encoded as an OCTET STRING, in which all the named bits in (the definition of) the bitstring, commencing with the first bit and proceeding to the last bit, are placed in bits 8 to 1 of the first octet, followed by bits 8 to 1 of each subsequent octet in turn, followed by as many bits as are needed of the final subsequent octet, commencing with bit 8. Remaining bits, if any, of the final octet are set to zero on generation and ignored on receipt.

ITU-T Recommendation X.690 says:

6.2 For the purposes of this Recommendation | International Standard only, the bits of an octet are numbered from 8 to 1, where bit 8 is the "most significant bit", and bit 1 is the "least significant bit".

From this, I conclude that bOther is the MSB of the first octet, b10baseT is the next octet down, and so on. That would make a field value of 0x0136 as being:

b100baseT2FD, bFdxSPause, bFdxBPause, b1000baseXFD, b1000baseT

I.e., at least as I read the standards in question, Wireshark is dissecting the packet correctly, and if that's not what the folks at XXXX intended, they misread the standard.

# MOTION

- 802.1 requests EC approval to forward the draft PAR for 802.1X-REV, to NesCom, and to withdraw the P802.1af PAR that it replaces.
- 802.1: Proposed: Seaman Second: wright
- For: 40 Against: 0 Abstain: 9
- EC proposed: Jeffree second:

# MOTION

- 802.1 requests EC approval to forward the draft PAR for 802.1Qaz, to NesCom.
- 802.1: Proposed: Thaler Second: wadekar
- For: 38    Against: 1    Abstain: **16**
- EC proposed: Jeffree second:

# MOTION

- 802.1 requests permission of the EC to forward P802.1ah to Sponsor ballot.
- Proposed: haddock Second: bottorff
- For: 44 Against: 0 Abstain: 7
- EC proposed: Jeffree Second:

# MOTION

- 802.1 authorizes the Chair to pre-circulate the Priority-based Flow Control draft PAR to the EC prior to the March meeting in order to meet the 30-day rule.
- Proposed: thaler Second: desanti
- For: 29 Against: 7 Abstain: 22



# MOTION

- 802.1 instructs the editor of P802.1ap (Glenn Parsons) to prepare a further draft. The Chair is authorized to submit the project for Working Group balloting.
- Proposed: Haddock Second: Parsons
- For: 44 Against: 0 Abstain: 7

# MOTION

- 802.1 instructs the editor of P802.1aq (Mick Seaman) to prepare a further draft. The Chair is authorized to submit the project for Task Group balloting.
- Proposed: Haddock Second: Fedyk
- For: 39 Against: 0 Abstain: 8

# MOTION

- 802.1 instructs the editor of P802.1aw (Linda Dunbar) to prepare a further draft. The Chair is authorized to submit the project for Working Group balloting.
- Proposed: Haddock Second: Dunbar
- For: 39 Against: 0 Abstain: 1

# MOTION

- 802.1 instructs the editor of P802.1Qay (Panos Saltsidis) to prepare a further draft. The Chair is authorized to submit the project for Task Group balloting.
- Proposed: Haddock Second: Saltsidis
- For: 40 Against: 0 Abstain: 0

# MOTION

- 802.1 instructs the editor of P802.1ak-Cor-1 (Tony Jeffree) to prepare a further draft. The Chair is authorized to submit the project for Working Group balloting.
- Proposed: Haddock Second:messenger
- For:39      Against: 0      Abstain: 2

# MOTION

- 802.1 instructs the editor of P802.1aj (Tony Jeffree) to prepare a further draft following completion of the resolution of ballot comments at the January Interim. The Chair is authorized to submit the project for Working Group balloting.
- Proposed: Haddock Second: messenger
- For: 44 Against: 0 Abstain: 2

# MOTION

- 802.1 instructs the editor of P802.1AB-REV (Tony Jeffree) to prepare a further draft . The Chair is authorized to submit the project for Working Group balloting.
- Proposed: Haddock Second: wright
- For: 44 Against: 0 Abstain: 1

# MOTION

- 802.1 instructs the editor of P802.1AS (Geoff Garner) to prepare a further draft. The Chair is authorized to submit the project for Task Group balloting.
- Proposed: fuller Second: Garner
- For: 40 Against: 0 Abstain: 7



# MOTION

- 802.1 instructs the editor of P802.1Qat (Felix Feng) to prepare a further draft. The Chair is authorized to submit the project for Task Group balloting.
- Proposed: fuller Second: Feng
- For: 36 Against: 0 Abstain: 7

# MOTION

- 802.1 instructs the editor of P802.1Qav (Tony Jeffree) to prepare a further draft. The Chair is authorized to submit the project for Task Group balloting.
- Proposed: fuller Second: feng
- For: 37 Against: 0 Abstain: 6

# MOTION

- 802.1 instructs the editor of P802.1af (Mick Seaman) to prepare a further draft. The Chair is authorized to submit the project for Working Group balloting.
- Proposed: Seaman Second: wright
- For: 36 Against: 0 Abstain: 8

# MOTION

- 802.1 instructs the editor of P802.1AR (Max Pritikin) to prepare a further draft. The Chair is authorized to submit the project for Task Group balloting.
- Proposed: Seaman Second: pritikin
- For: 34    Against: 0    Abstain: 7

# MOTION

- 802.1 authorizes the AVB TG to prepare a draft PAR for P802.1BA Audio Video Bridging Systems during the January interim. The Chair is authorized to pre-circulate the draft to the EC to meet the 30-day rule.
- Proposed: fuller Second: garner
- For: 38 Against: 0 Abstain: 3

# MOTION

- 802.1 resolves to forward the attached liaison contribution to DSL Forum re: Subscriber Authentication in DSL Networks. The original liaison was <http://www.ieee802.org/1/files/public/docs2007/liaison-dsl-forum-auth-for-wt146-0707.doc>.
- Proposed: seaman Second: wright
- For: 28 Against: 0 Abstain: 8

Thank you for your liaison re: Subscriber Authentication in DSL (May 25th 2007)

<http://www.ieee802.org/1/files/public/docs2007/liaison-dsl-forum-auth-for-wt146-0707.doc>

we would like to draw your attention to the possibility of using P802.1af in conjunction with P802.1aj to meet a number of your requirements.

Attachments:

P802.1aj D2.2 TPMR (Amendment to IEEE Std 802.1Q: Two Port Mac Relay)  
P802.1af D1.7 Key Agreement for MAC Security

It is anticipated that Project 802.1af will soon be formally identified as a full revision of P802.1X.

# MOTION

- 802.1 authorize the WG Chair to forward the attached liaison contribution to OIF.
- Proposed: Haddock Second: bottorff
- For: 29 Against: 1 Abstain: 6
- liaison-oif2007-280-03-1107.pdf



# OIF – Liaison response

To: Mr. Jim Jones, OIF TC Chair

Cc: Mr. Lyndon Ong, Ciena Corporation, [lyong@ciena.com](mailto:lyong@ciena.com)  
Mr. Alex Conta, TranSwitch Corporation, [aconta@txc.com](mailto:aconta@txc.com)  
Mr. Stephen Shew, Nortel Networks, [sdshew@nortel.com](mailto:sdshew@nortel.com)

From: Mr. Tony Jeffree, IEEE 802.1 Working Group Chair, [tony@jeffree.co.uk](mailto:tony@jeffree.co.uk)

Subject: Liaison response to OIF on Ethernet Software Application Programming Interface (API)

Dear Mr Jones,

Thank you for your liaison on Ethernet Software Application Programming Interface (API). We have made a note of your activities on Software API definition work in the OIF Software Working Group.

You can always view our on-going activities at <http://www.ieee802.org/1>.

Thank you.

Tony Jeffree  
IEEE 802.1 Working Group Chair

# MOTION

- 802.1 authorizes its Chair to forward the liaison response to ITUT – original liaison contained in: liaison-itut-ls-117-1007.pdf
- Proposed: Haddock Second: wright
- For: 40 Against: 0 Abstain: 2

# Liaison to ITU-T

■ To: Mr. Dave Sidor, Nortel, [djsidor@nortel.com](mailto:djsidor@nortel.com)

From: Mr. Tony Jeffree, IEEE 802.1 Working Group Chair, [tony@jeffree.co.uk](mailto:tony@jeffree.co.uk)

Subject: Liaison response to ITU-T SG4 on Rechartering of the NGN Management Focus Group

Dear Dave ,

Thank you for your liaison providing updates on the NGN Management Focus Group (NGNMFG).

We currently have a number of on-going projects which can be viewed at <http://www.ieee802.org/1>. Some on-going activities that might be of interest to you for NGNMFG include:

- P802.1ap - "Management Information Base (MIB) definitions for VLAN Bridges" which plans to define SMIv2 MIB modules for the management of VLAN-aware Bridge capabilities including Spanning Tree Protocols, Provider Bridges, and Provider Backbone Bridges. This standards is also planning to update and complete SMIv2 MIB modules that support standardized management of the capabilities defined in Std 802.1Q
- In addition to P802.1ap, all other on-going standard projects also define relevant Bridge Management Objects (Clause 12 extensions) and MIB (Clause 17 extensions).

We would also like to thank you for extending an invitation to IEEE 802.1 participants to register at the offered website to follow NGNMFG activities and documentation. This offer has been communicated to the IEEE 802.1 members.

Thank you.  
Tony Jeffree  
IEEE 802.1 Working Group Chair

# Motion

IEEE 802.1 to use the Ethertype 88e7 for identification of the 802.1ah I-TAG. The ownership of 88e7 will be transferred to IEEE 802.1.

moved: Bottorff

second: haddock

For 32 against 0 abstain 7

# Motion

Approve the attached liaison response to MEF.

moved: messenger

second: wright

For 35 against 0 abstain 4

- To: MEF Technical Committee
- From: IEEE P802.1
- Date: November 2007
- Thank you for your liaison dated 30th October 2007 regarding your NID project. Please find enclosed the latest draft 2.2 of 802.1aj Two Port MAC Relay. We would encourage you to consider referencing this document in your work. This project currently has an end date of December 2008, but we are not able to predict when the project is likely to complete at this stage.
- Regards,
- Tony Jeffree, Chair, IEEE P802.1