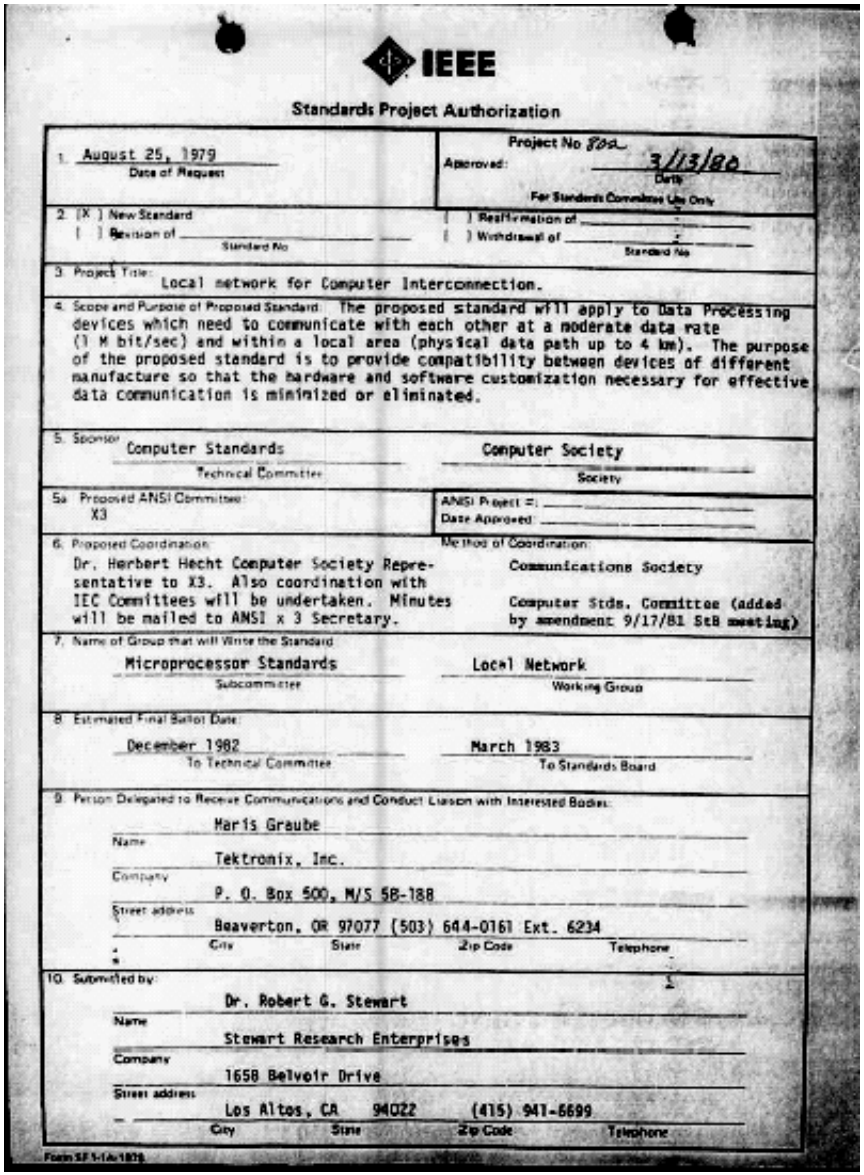

IEEE

Standards Project Authorization

1. August 25, 1979 (Date of Request)
Project No 802
Approved: 3/13/80 (Date)
For Standards Committee Use Only

2. [X] New Standard
[ ] Revision of _____ (Standard No)
[ ] Reaffirmation of _____
[ ] Withdrawal of _____ (Standard No)

3. Project Title: Local network for Computer Interconnection.

4. Scope and Purpose of Proposed Standard: The proposed standard will apply to Data Processing devices which need to communicate with each other at a moderate data rate (1 M bit/sec) and within a local area (physical data path up to 4 km). The purpose of the proposed standard is to provide compatibility between devices of different manufacture so that the hardware and software customization necessary for effective data communication is minimized or eliminated.

5. Sponsor: Computer Standards (Technical Committee) / Computer Society (Society)

5a. Proposed ANSI Committee: X3
ANSI Project #: _____
Date Approved: _____

6. Proposed Coordination: Dr. Herbert Hecht Computer Society Representative to X3. Also coordination with IEC Committees will be undertaken. Minutes will be mailed to ANSI x 3 Secretary.
Method of Coordination: Communications Society; Computer Stds. Committee (added by amendment 9/17/81 StB meeting)

7. Name of Group that will Write the Standard: Microprocessor Standards (Subcommittee) / Local Network (Working Group)

8. Estimated Final Ballot Date: December 1982 (To Technical Committee) / March 1983 (To Standards Board)

9. Person Delegated to Receive Communications and Conduct Liaison with Interested Bodies:
Maris Graube (Name)
Tektronix, Inc. (Company)
P. O. Box 500, M/S 58-188 (Street address)
Beaverton, OR 97077 (503) 644-0161 Ext. 6234 (City / State / Zip Code / Telephone)

10. Submitted by:
Dr. Robert G. Stewart (Name)
Stewart Research Enterprises (Company)
1658 Belvoir Drive (Street address)
Los Altos, CA 94022 (415) 941-6699 (City / State / Zip Code / Telephone)

Form SF 1-1a-1978

Mar 2009
IEEE 802
LMSC

Opening EC Meeting
8 AM-10:30AM

EC Affiliation Update

- Any changes in affiliation among EC members?

DEC08/FEB09
SA BoG Actions/Update

- BoG approved the SAStrategic Plan—still working on communication plan
- Policy and Procedure: Revised copyright, revised participant qualifications

The 2009 BoG consists of 13 members:

SA President:	Chuck Adams
SA Past-President:	George Arnold
Standards Board Chair:	**Bob Grow**
Standards Board Past Chair & Corporate Advisory Group Chair:	**Steve Mills**
IEEE-SA Treasurer:	Don Wright
Secretary (non-voting):	Judy Gorman
Members-At-Large:	Ben Johnson, Ted Olsen, Greg Saunders, Phil Wennblom, James Williamson, Jim Pauley, **Paul Nikolich, John Barr**

BoG ad hoc committees:

Strategic Planning	chaired by Johnson
Business Development	chaired by Nikolich

SA programs of interest

- Patent Pools
  - Tutorial Tuesday evening
- Conformity Assessment
  - ISTO hired a director to pursue development of this program

DEC 2008
SA Standards Board Actions

Standards Approved

New:
P802.1ap/D4.2 Virtual Bridged Local Area Networks - Amendment 9: Management Information Base (MIB) Definitions for VLAN Bridges

Revisions: none

Reaffirmations: none

Corrigendum: none

Extensions: none

Withdrawals: **802.16/**Conformance01-2003, **802.16/**Conformance02-2003

DEC 2008/JAN 2009
SA Standards Board Actions

Project Actions

New:

P802.3.1- MIB definitions for Ethernet

P802.3-2008/Cor 1 Corrigendum 1 Timing considerations for PAUSE operation

P802.3bc - Amendment: Ethernet Organizationally Specific type, length, values (TLVs)

P802.11ad- WLAN Amendment: Very High Throughput in 60GHz band PHY

P802.15.4f- WPAN Amendment: Active Radio Frequency Identification (RFID) System PHY

P802.15.4g- WPAN Amendment: Low Data Rate Wireless Smart Metering Utility Networks PHY

P802.15.7- WPAN PHY and MAC for Short-Range Wireless Optical Comm. Using Visible Light

P802.20a- MBWA Amendment: MIB Enhancements andCorrigenda Items

P802.20b- MBWA Amendment: Bridging of 802.20

P802.21a- MIHS Amendment: Security Extensions to Media Independent Handover Services

P802.21b- MIHS Amendment: Handovers with Downlink Only Technologies

Modified PAR: **P802.3at-** Amendment: DTE Power Via the MDI Enhancements

Revisions: **P802.11**- WLAN MAC and PHY specifications

Reaffirmations: **802.15.2-2003** Coexistence of WPAN with Other Unlicensed Wless Devices

Withdrawals:

P802.11.2 Recommended Practice for the Evaluation of 802.11 Wireless Performance

P802.3ar Amendment: Enhancements for congestion management

Extensions: none

Draft PARs to NesCom

- IEEE P802.3bd Amendment for Priority-based Flow Control MAC Control Frame from 802.1Qbb

- IEEE P802.21.1 New standard for Support for Emergency Services, PAR and 5C
- IEEE P802.21c Amendment for Multi-Radio Power Management, PAR and 5C

- IEEE P802.22a Amendment for PHY and MAC Layers for Combined Fixed, Mobile, and Portable Operation in the TV Bands

PARs due to time out DEC09

- 802.1aq, 802.1AR
- 802.3at
- 802.11n, 802.11w
- 802.15.3c
- 802.16h

If these projects will not be submitted to RevCom in time for the December 2009 meeting, you need to take one of the following steps:

1. Request an extension for the project (PAR). Please note that this extension request can be from one to four years, although further justification may be requested for an extension request which exceeds two years.

2. Request withdrawal of the project (PAR).

Draft Standards to Sponsor Ballot

- Check with EC members
- 802.1: dot1qav (cond), dot1aj (cond), dot1ab_rev
- 802.3: dot3bc (cond), dot3bb (cond)
- 802.11:
- 802.15: dot15.3c 60GHz
- 802.16:
- 802.17:
- 802.20: dot20.2, dot20.3 (cond)
- 802.21:
- 802.22:

Draft Standards to RevCom

- Check with EC members
- 802.1: dot1qaw (cond), dot1qay (cond)
- 802.3:
- 802.11: dot11n (cond), dot11w (cond)
- 802.15:
- 802.16: dot16h (cond.)
- 802.17:
- 802.20:
- 802.21:
- 802.22:

SA Standards Board

802 Participants on SASB and its subcommittees

SASB members: Bob Grow (chair), Steve Mills (past Chair), John Barr, David Law, Glenn Parsons, Mark Epstein, Jon Rosdahl

NesCom: Young Kyun Kim, Mark Epstein

RevCom: David Law (chair), Clint Chaplin, Phil Barber, Wael Diab, Glenn Parsons, Jon Rosdahl, John Barr

ProCom: Steve Mills

PatCom: Steve Mills (chair), David Law

AudCom: Glenn Parsons, Clint Chaplin, Wael Diab

Misc. concerns of 802 Chair

- 802.11s—a question was raised during ballot as to whether or not authentication algos are in scope for 802. Tony, Geoff, Bruce, Mat and I initiated a ‘scope’ discussion via email. Status?
- Jesse,

  This discussion has gone beyond your original request and will take some time to resolve in a general sense. We (the EC) need to continue the discussion and hopefully develop a position on scope questions of this type that can be used within 802 going forward. Thanks for the input Geoff, Mat and Tony--I'll be reviewing the thread more carefully today and try to formulate a means to resolve the general scope question.

  However, getting back to Jesse's original request--

  "We d like your guidance on when inclusion of authentication algorithms is appropriate and when it isn’t, to be able to determine what leeway we have in resolving this comment."

  Your below comment response suggestion is OK, but I would like to you include a disclaimer in the comment response which documents the essence of the scope discussion so far--i.e., tack the following (or some reasonable facsimile of it) onto your comment response:

  "The ballot resolution group rejected the comment because it believes the authentication mechanism is specific to 802.11, and is necessary/desirable for the establishment/maintenance of a secure 802.11 link. However, the more general question of '802 scope' is valid and the 802 Executive Committee is in the process of defining, more precisely, what is in or out of scope for an 802 project. Pending that definition, if the 802 Executive Committee reaches a consensus that authentication algorithms should not be used in 802 standards in the way it has been done in the 802.11s draft, Jesse Walker will re-enter the same letter ballot comment in a future letter ballot. If on the other hand the EC consensus is that it is within scope, then the algorithm will remain."

  Geoff, Tony, Mat--do you think the above suggestion is OK to keep the 802.11s project on track?

  Regards,

  --Paul

Misc. concerns of 802 Chair

802.11 dominance allegations from MAR08—Bruce investigated, found nothing conclusive, but would continue discussion in 802.11. Pat was to follow up on his recommendations. What is the status of those discussions?

5. Summary Recommendation from WG11 chair Bruce Kraemer – affiliation Marvell Semiconductor, Inc 16JUL08

I do not believe that any of the observations thus far merit the declaration and identification of a voting bloc, terminating groups, unseating chairs, or rolling back prior accomplishments or votes. It would, however, be appropriate to better educate chairs to be alert to violations and have a thorough knowledge of remedies. It would also be logical to apply institutional changes via the P&P to reduce the incidence of common improprieties and remove the possibility of occurrences of the more egregious meeting behaviors. For example, it may be possible to use the electronic attendance system to reduce the likelihood of mid-meeting room migration where the intent is not to switch rooms due to a change in interest but rather to affect the outcome of a pending vote.

Further discussion on this topic within 802.11 beginning in the July 2008 Plenary meeting session as well as within the broader set of 802 Working Groups within LMSC is recommended.

Topics for discussion should include:

- Is there an adequately clear definition of dominance and criteria for determination
- What meeting behaviors are contributing to reported problems
- What meeting behaviors can be modified/corrected at each level: TG , WG, LMSC, SA
- Where would chairs' guidance or education be adequate and where do P&Ps need to change.

IEEE Staff Introductions

1.	Michelle Turner	Program Manager, Document Development
2.	Michael Kipness:	Program Manager, Technical Program Development
3.	Kathryn Cush:	Program Manager, Technical Program Development
4.	Sue Vogel:	Director, Technical Committee Programs
5.	Susan Tatiner:	Associate Managing Director Technical Program Development and 802 Ombudsman
6.	Edward Rashba:	Director, New Business Ventures

IEEE-SA/802 Task Force

- Wednesday 1-3pm
- Tentative Agenda

1. ISO/IEC JTC1 WG1 status update – Kipness
2. SA Strategic Plan--what is the plan to communicate it to the sponsors?– Vogel
3. Copyright Policy changes – Law
4. Ombudsman update – Tatiner
5. GetIEEE802 2010 budget – Nikolich
6. Patent Pool Tutorial feedback – Rashba
7. Certification Program update -- Rashba
8. Action item review – Nikolich
9. Adjourn

GetIEEE802 update

- Nikolich
- EC ad hoc Wed 10-11am?

SA Strategic Plan Overview

- Vogel

802 attendance SW update

- Gilb
  - Discuss during 802 task force meeting

Online training update

- Thaler

SA Staff Liaison Update

- Kipness

Treasurer

John Hawkins reports

LMSC Email Ballot Recap

	close date		yes/no/abs/dnv	
•	14FEB	IMT Adv press release	11/00/00/05	pass

Meeting Fee Waivers

- The following individuals have had their registration fees waived for this plenary session by the LMSC chair.
  - IEEE-SA Staff Participants (per previous slide)
  - Invited Participants
    - Lee Pucker, SDR Forum (requested by Mat Sherman for WS Tutorial)
    - Torey Bruno, Via Licensing (by Nikolich for Patent Pool Tutorial)

Tutorial Slot Schedule

Monday	Tuesday
1) Multi-Radio Power Conservation Management 6:30-8:00PM sponsor: V. Gupta	**3) White Space Tutorial** 6:30-9:00PM sponsor: M. Sherman
2) CFI 802.3 Support for IEEE 802.1AS Time and Synchronization 8:00-9:30PM sponsor: D. Law	**4) IEEE-SA Patent Pool Collaboration with Via Licensing** 9:00-10:00PM sponsor: P. Nikolich

ISO/JTC1 SC6 update

- Geoff Thompson
  - Further discussion during 802 task force meeting

P&P Update

- Mat Sherman

TV Whitespace ECSG report

- Mat Sherman

Electronic Meeting Experiment

- Mat Sherman

Status of Study Groups

- WG chairs to report
  - SGs?
    - 802.1-
    - 802.3 – 802.1as support
    - 802.11 -
    - 802.15 -
    - 802.16 -
    - 802.17 -
    - 802.18 -
    - 802.19 -
    - 802.20 -
    - 802.21 - emergency communications (2nd ext)
    - 802.22 –
    - 802 EC- TV White Space

IEEE802 Monday Plenary Agenda

- 11:00 Welcome — Nikolich
  - Financial Report (Hawkins),
  - Patent Policy (Thompson),
  - Membership Policy and P&P update (Sherman),
  - New Member/Mentoring update (Thaler),
  - general announcements (tutorials, new PARs, etc.-Rigsbee) - 20 minutes
  - Q&A on above topics - 10 minutes
- TV Whitespace ECSG Exec Summary (Sherman) - 5 minutes
- Electronic Participation Experiment Results (Sherman) +Q&A - 10 minutes
- Closing remarks, notices, adjourn - 5 minutes

nNA venue update

- Rigsbee
  - EC ad-hoc to refine survey Monday 3-4pm

Network Services Contract

- Rigsbee
  - EC ad-hoc ?

802 appeals update

- Gilb

ITU-R Update

- Mike Lynch
  - WP5D met in Seoul in October

Attendance Tools

- Gilb

EC meetings for the week
(held in Windsor)

- Monday 7-8pm — open
- Monday 8-9pm — open

- Tuesday 9-noon — reserved (Nikolich)
- Tuesday noon-1pm — open
- Tuesday 1-2pm — open
- Tuesday 3-5pm — open
- Tuesday 6:30-8pm — open
- Tuesday 8:00-10pm — open

- Wed 12:30-1:30 — Electronic Participation Experiment feedback (Sherman)
- Wed 1:30-3pm — 802 Task Force (Nikolich)
- Wed 3-4pm — 802 future budget discussion (Hawkins)
- Wed 4-5pm — open
- Wed 5-6 — EC Retreat Planning (Thompson/Rigsbee)

- Thursday 10-noon — open
- Thursday noon-1pm — open
- Thursday 1-2pm — open
- Thursday 5-7pm — open

EC Retreat

- Set aside 2 days between plenary/interim sessions for EC members to address issues such as consensus/dominance, perceived problems with EC members, etc.
- Continue discussion during Tony's ad hoc on plenary restructuring

End of Opening EC Meeting
Start of Plenary Meeting

IEEE802 Monday Plenary Agenda

- 11:00 Welcome — Nikolich
  - Financial Report (Hawkins),
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IEEE 802 ORGANIZATION

EXECUTIVE COMMITTEE (EC)

CHAIR
Paul Nikolich

WORKING GROUP/TAG CHAIRS

802.1 **BRIDGING/ARCH** **Tony Jeffree**	**802.3** **CSMA/CD** **David Law**	**802.11** **WLAN** **Bruce Kraemer**	**802.18 TAG** **Radio Regulatory** **Mike Lynch**
802.15 **WPAN** **Bob Heile**	**802.16** **BWA** **Roger Marks**	**802.17** **ResPackRing** **John Lemon**	**802.19 TAG** **Coexistence** **Shellhammer**
802.20 **MBWA** **Mark Klerer**	**802.21** **Handoff** **Vivek Gupta**	**802.22** **WRAN** **Carl Stevenson**	

APPOINTED OFFICERS

1st VICE CHAIR **Mat Sherman**	**2nd VICE CHAIR** **Pat Thaler**
EXECUTIVE SECY **Buzz Rigsbee**	**RECORDING SECY** **James Gilb**
TREASURER **John Hawkins**	**MEMBER EMERITUS** **Geoff Thompson**

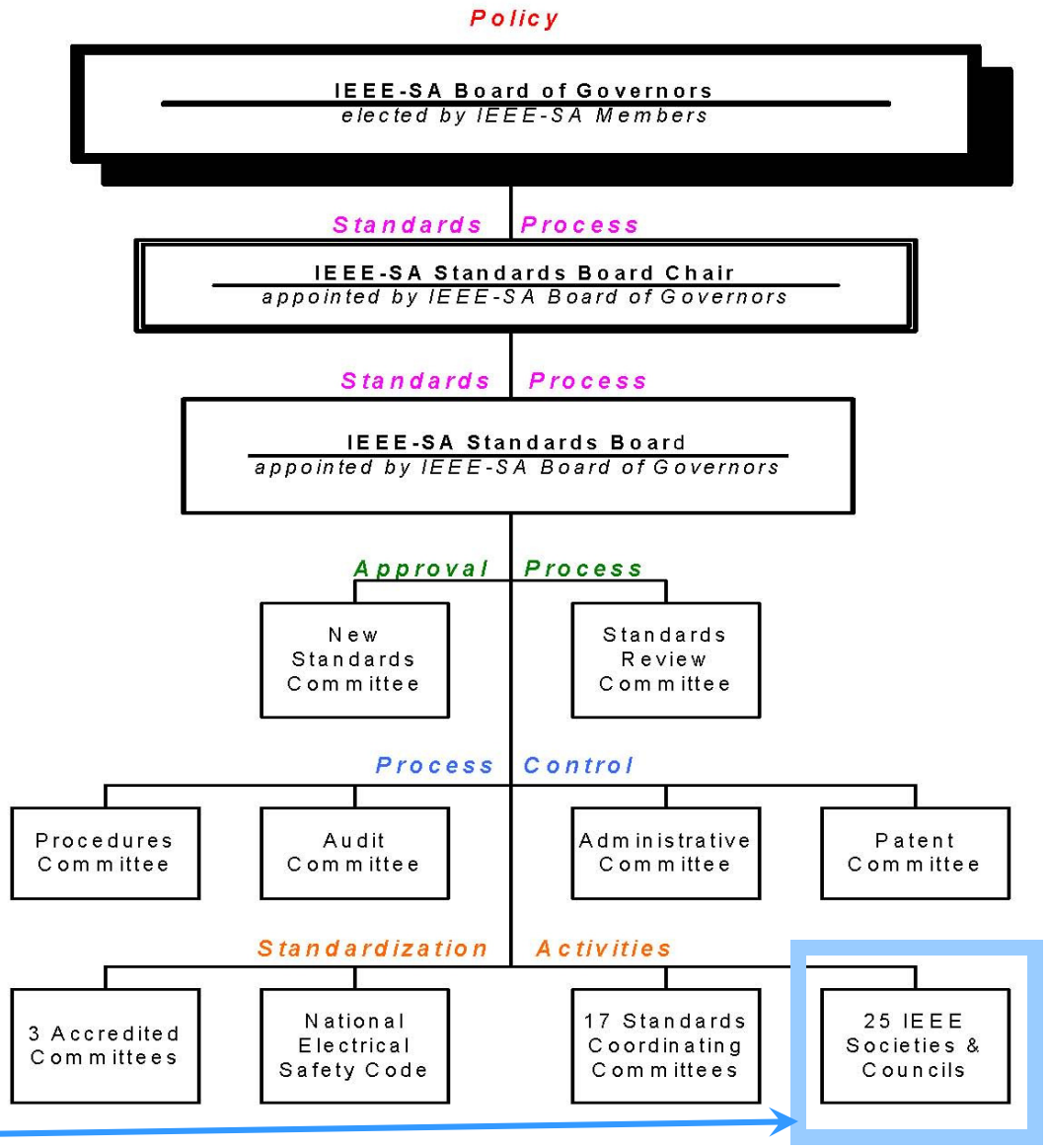
HIBERNATION

802.2 LLC (Dave Carlson)
802.12 Demand Priority (Pat Thaler)

DISBANDED

802.4 Token Bus
802.6 DQDB
802.7 Broadband TAG
802.8 Fiber Optic TAG
802.9 ISLAN
802.10 Security
802.14 CATV
802.5 Token Ring

IEEE Standards Organization



IEEE 802 is here:

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4.	Sue Vogel:	Director, Technical Committee Programs
5.	Susan Tatiner:	Associate Managing Director Technical Program Development and 802 Ombudsman
6.	Edward Rashba:	Director, New Business Ventures

Awards

IEEE Std 802.11k-2008 (Pub12 June 2008)

Stuart J. Kerry
Joseph Kwak
Richard H. Payne
Harry R. Worstell
Bernard Aboba
Simon Barber
Simon Black
Darwin Engwer
Peter Eclessine
Roger Durand

IEEE Std 802.11y-2008 (Pub 6 November 2008)

Bruce Kraemer
Peter Eclessine

IEEE Std 802.11r-2008 (Pub15 July 2008)

Stuart J. Kerry
Clint F. Chaplin
Bill Marshall
Michael Montemurro
Harry R. Worstell
Nancy Cam-Winget
Lily Chen
Jon Edney
Rajneesh Kumar
Jouni Malinen
Henry Ptasinski
Dorothy Stanley

Patent Policy

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**

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.

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Treasurer's report

- Hawkins

Policy and Procedure update

Mat Sherman update

On Line Training

- Pat Thaler

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- Thursday 5-7pm — open

TV Whitespace

- Mat Sherman

Q&A

- Please step up to one of the microphones set up in the aisles to ask your questions

Experiment Participation Experiment

- Sherman

Closing Remarks

- Nikolich

End of Opening Plenary Meeting

Paul Nikolich - IEEE 802 Chair

- EMAIL: p.nikolich@ieee.org
- Phone: 857.205.0050 (mobile)
- Independent consultant in technology and new ventures working with YAS Broadband Ventures, LLC. in Boston MA

Backup slides

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)

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

IEEE-SA Standards Board Operations Manual

http://standards.ieee.org/guides/opman/sect6.html#6.3

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