IEEE 802.3 Working Group Opening Plenary 6 March 2006

Robert M. Grow

Chair, IEEE 802.3 Working Group

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Introductions & Agenda (p.1)

- Officers
  - 802.3 Chair: Bob Grow (bob.grow@ieee.org)
  - 802.3 Vice Chair: David Law (david_law@3com.com)
  - 802.3 Exec. Secretary: Steve Carlson (scarlson@esta.org)
  - 802.3 Secretary: Wael Diab (wdiab@broadcom.com)
  - P802.3an 10GBASE-T: Brad Booth (bbooth@ieee.org)
  - P802.3ap Backplane Ethernet: Adam Healey (ahealey@agere.com)
  - P802.3aq 10GMMF: David Cunningham (david_cunningham@avagotech.com)
  - P802.3ar Congestion Mgt: Kevin Daines (kevin.daines@wwp.com)
  - P802.3as Frame Expansion SG: Kevin Daines (kevin.daines@wwp.com)
  - P802.3at DTE Power via the MDI Enhancements: Mike McCormack (mike_mccormack@ti.com)
  - P802.3-2005/Cor1 (802.3au) Corrigendum 1 : David Law (david_law@3com.com)

Introductions & Agenda (p.2)

- Attendee introductions

  Each individual participant in IEEE Standards activities shall disclose his or her affiliations when requested. A person who knows, or reasonably should know, 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).   [IEEE-SA SB Bylaws, 5.2.1.1]

  Timely and adequate notice of any action to create, revise reaffirm, or withdraw a standard, and the establishment of a new consensus body shall be provided to all known directly and materially affected interests. Notice should include a clear and meaningful description of the purpose of the proposed activity and shall identify a readily available source for further information. In addition, the name, affiliation and interest category of each member of the consensus body shall be made available to interested parities upon request.

  "Affiliation" refers to the entity that the consensus body member* represents (which may or may not be that person's employer). If the consensus body member is serving in an individual capacity, then the name of the individual, that person's employer, sponsor and interest category should be available. Contact information is not required. [ANSI Essential Requirements, 2.1]

  *For the purposes of this requirement, "member" is the equivalent of an 802. participant."

- Approve agenda

WG Decorum

Press (i.e., anyone reporting publicly on this meeting) are to announce their presence (2006 Op Manual 5.3.15)

Photography or recording by permission only (5.3.14)

Cell phone ringers off

Published Standards

- IEEE Std 802.3-2005 (12 Dec 2005)†

- IEEE Std 1802.3Rev-2001*

* Available through Get IEEE 802
   http://standards.ieee.org/getieee802/802.3.html

† Superseded standards available through Get IEEE 802. CAUTION – there are substantive changes and corrections not included in the superseded standards

Reflectors and WG information

- IEEE 802.3 Working Group (stds-802-3@ieee.org) is a monitored reflector for announcements of WG business
  - Not a general discussion reflector
  - Subscription limited to members and observers
- IEEE 802 plenary meeting announcements (stds-802-all@.ieee.org)
- IEEE 802.3 interim meetings are announced on the 802.3 and relevant TF/SG reflector
- IEEE 802.3 TF/SG reflectors are the location for appropriate project related discussion
- Reflector subscription
  - http://listserv.ieee.org or instructions on the 802.3 web pages
- Web site
  - www.ieee802.org/3
  - Access information to private areas is announced by Vice Chair, TF/SG Chairs and in WG announcements

WG documents for March business

- P802.3an/D3.1 (10GBASE-T)
  - 1st recirculation Sponsor ballot comments
- P802.3ap/D2.3 (Backplane Ethernet)
  - 3rd recirculation WG ballot comments
- P802.3aq/D3.1 (10GBASE-LRM)
  - 1st recirculation Sponsor ballot comments
- P802.3ar/D1.1 (Congestion Management)
  - Task Force review comments & proposals for changes
- P802.3as/D2.4 (Frame Format Extensions)
  - 4th recirculation WG ballot comments
- P802.3-2005Cor1/D1.2 (Isolation corrigendum)
  - 2nd recirculation WG ballot comments
- Posted maintenance, interpretation and rules requests
- 802.3 minutes
  - Approval of November minutes

802.3 Finances

- Two meetings hosted by 802.3 Treasury
  - Austin meeting produced a surplus
  - Chandler meeting produced a deficit
- Treasury is solvent
  - Net balance $10,870
  - No receivables, payables in net balance
- Still looking for an 802.3 Treasurer

Austin meeting

Expenses		Income	
Discount	$ (2,189)	Registration Fees	$ 62,875
Meeting administration	$ (23,549)		
Networking	$ (5,000)		
Refreshments	$ (11,727)		
AV	$ (214)		
Shipping	$ (1,432)		
Equipment	$ (253)		
Other	$ (200)		
TOTAL	$ (44,566)	TOTAL	$ 62,875
		NET surplus/(deficit)	**$ 18,309**

Chandler meeting

Expenses

				Income			
Discount	$	(	0)	Registration Fees	$		0
Meeting administration	$	(	0)				
Networking	$	(	5,249)				
Refreshments	$	(	0)				
AV	$	(	1,593)				
Shipping	$	(	346)				
Equipment/supplies	$	(	134)				
Other	$	(	0)				
TOTAL	$	(	7,322)	TOTAL	$		0

NET surplus/(deficit) $ (7,322)

Attendance

- Membership requirements (acquiring or retaining 802.3 voter status)
  - 75% attendance at 2 of last 4 plenary meetings (a qualifying interim may be substituted for one plenary)
  - Request to become member during 802.3 potential voter agenda item
  - Maintain valid contact information (stds-802-3 reflector)
  - Participate in 2 of last 3 WG ballots
- Attendance books
  - Sign in each day, only for that day, only for yourself, and not for any other Working Group (no parallel sign-ins)
  - Two books
    - Members and observers (i.e., signed in during last year)
    - New attendees & update contact information
- Review membership lists – potential voters

802.3 Members (voters) p.1

Abaye, Ali

Abbott, John

Abler, Joe

Adriaennsens, Luc

Agarwal, Puneet

*Alexander, Jan

Alping, Arne

*Altman, Michael

Anderson, Stephen D.

Aronson, Lewis

Babanezhad, Joseph N

*Babla, Chet

Barrass, Hugh

Baumer, Howard

Beaudoin, Denis

Beck, Michaël

Beliaev, Alexei

Bennett, Mike

Bergmann, Ernest E.

Bhoja, Sudeep

Bhugra, Harmeet

Bonnamy, Jean-Michel

Booth, Brad

Bradshaw, Peter

Brand, Richard

Braun, Ralf-Peter

Brink, Robert D.

Brown, Kevin

Brown, Matt

Brownlee, Phillip

Brunn, Brian

Brunner, Robert

Busse, Robert

Cain, Jeff

Carlson, Steve

Chalupsky, David

Chang, Luke

*Cheong, Kok-Wui

Chin, David

Cho, Jae hun

Chopra, Rahul

Claseman, George

Cobb, Terry

Cohen, Larry

*Cornejo, Edward

802.3 Members (voters) p.2

Crepin, J. Francois

Cunningham, David

*Dabiri, Dariush

Daines, Kevin

Dallesasse, John

D'Ambrosia, John

Darshan, Yair

Dawe, Piers

DeNicholas, Joe

Di Minico, Chris

Diab, Wael

Dineen, Thomas

Dinh, Thuyen

Dove, Dan

*Dring, John

Dudek, Mike

Dupuis, Joseph E.

Eisler, George

Esmailian, Tooraj

Ewen, John F.

*Fallahi, Siavash

Feldman, Daniel

Feng, Feifei (Felix)

Flatman, Alan

Frosch, Richard

Fujimoto, Yukihiro

Gaither, Justin

Ganga, Ilango S.

Gao, Xiao Ming

Garner, Geoffrey M

George, John

Ghiasi, Ali

Ghoshal, Sajol

Goergen, Joel

*Golden, Glenn

Grow, Robert M.

*Gupta, Sandeep

*Gupta, Tanmay

Gyurek, Russ

Hammond, Bernie

Hazarika, Asif

Healey, Adam

*Hegde, Gopal

*Hill, Tricia

Hindi, Sammy

802.3 Members (voters) p.3

Hudson, Chuck

Hurwitz, Walter K.

Jaeger, John

James, David V.

Jimenez, Andrew C.

Johas Teener, Michael D.

Jolly, Cristopher

Jones, Chad

Jones, William W.

Joo, Seong-Soon

Jørgensen, Thomas K.

Jover, Juan

Kaku, Shinkyo

Kasturia, Sanjay

Kim, Yong

King, Jonathan

Kish, Paul

Koeman, Henriecus

Koenen, David J.

Kolesar, Paul

Koonce, Derek

*Krishnamurthy, Subi

Kundu, Aniruddha

Kwentus, Alan

Lackner, Hans

Landry, D. Matthew

*Langston, Daun

Lapak, Jeff

Law, David

Lerer, Michael

Lertniphonphun, Worayot

Lindsay, Tom

Lingle, Jr., Robert

Lobel, Martin

Lou, Dennis

Lynch, Jeffrey

Lynskey, Eric R.

Marris, Arthur

Mathey, Thomas

*McCarthy, Frank

McClellan, Brett

McConnell, Mike

McCormack, Michael S

McVey, James D.

Mei, Richard Y.

802.3 Members (voters) p.4

Mellitz, Richard	Parsons, Glenn	Rausch, Dan
Mezer, Amir	Patoka, Martin	Reintjes, Maurice
*Miao, Tremont	Peeters Weem, Jan P.	Reviriego, Pedro
Mick, Colin	Peker, Arkadiy	Rommel, Albrecht
Monson, John	Pepeljugoski, Petar	Rybinski, Valerie
Moore, Charles	Peters, William R.	Ryu, Hyunsurk (Eric)
Mueller, Wayne A.	Phanse, Abhijit	Savi, Olindo
Muller, Shimon	Piede, David	Sawyer, T. Shannon
*Naidu, Hari	Pimpinella, Rick	Schube, Scott
*Nishimura, Shinji	Plunkett, Timothy R.	Scull, Harvey R.
Nordin, Ron	Popescu, Petre	Seemann, Brian
Obara, Satoshi	Powell, Scott R.	*Seki, Katsutoshi
Oltmanns, Mike	Qian, Haoli	Sendelbach, Lee
Palkert, Tom	Rabinovich, Rick	Shanbhag, Abhijit
Panos, Bill	Rao, Sailesh K.	Shorthill, Larry

802.3 Members (voters) p.4

*Smith, Grant

Smith , Andrew

Spagna, Fulvio

Sparrowhawk, Bryan

Stanford, Clay

Swanson, Steve

Swenson, Norman

Szczepanek, Andre

Telang, Vivek

Tellado, Jose

Thaler, Pat

Thompson, Geoffrey

Thon, Lars E.

Tomaszewski, Peter

Toyoda, Hidehiro

*Traverso, Matt

Twu, Bor-long

Ungerboeck, Gottfried

Vaden, Sterling A.

Valliappan, Magesh

Van Bavel, Nicholas

van Doorn, Schelto

VanSchyndel, Andre

Vareljian, Albert

Von Herzen, Brian

*Wadekar, Manoj

Weiner, Nick

*Witt, Kevin

Woodruff, Bill

Yagil, Ariel

Zimmerman, George

*Zivny, Pavel

*Zona, Bob

*in peril of losing membership

Potential Members (voters) p.1

Ahmed, Taufique

Ahn, Kyehyun

Alderrou, Don

Bachar, Yuval

Balasubramonian, Venugopal

Barazande-Pour, Majid

♦Barnette, Jim

♦Barrick, Scott

Battaglia, Jim

♦Beia, Christian

Braun, Dori

Chang, Frank

Charny, Ben

●Collum, James

Conroy, Keith

Cummings, Uri

●Dalmia, Kamal

♦Delveaux, Bill

♦DeSanti, Claudio

Dwelley, David

Elzur, Uri

Galindo, Juan A.

Gattani, Amit

George, Matthew

Gray, Carl Thomas

Griggs, Brian

Halder, Bijit

Hallemeier, Pete

♦Hatab, Ziad

Hausauer, Bian

Hendrick, Matt

Hinrichs, Henry

Ho, Ricky Keang-Po

Hojabri, Pirooz

Inano, Shigeru

Jong Tak, Kim

Juknevicius, Gene

Jung, Hee won

Kang, Tae Kyu

♦Katzenberg, Boris

♦Kawashimo, Tatsuya

Kim, Jong Hee

Kincaid, Darin

●Ko, Mike

Potential Members (voters) p.2

Kondapalli, Raghu
Kothary, Piyush
●Krellner, Jan
Langner, Paul
●Lari, Ferdinando
LeCheminant, Greg
Lee, Hyeon-jae
Li, Julio
Liu, Cathy
Liu, Zhenyu
Magram, Luis
McCallum, David S.
Memorach, Bubil
♦Michaud, Sean

♦Mukhopadhyay, Suvhasis (Asis)
Nabili, Babak (Bobby)
Nielsen, Allan
♦Oganessyan, Gourgen
O'Hara, Steven
♦Oulundsen, III, George
Park, Taesang
Patel, Gautam
Perzow, John D.
♦Picard, John
Pillai, Velu C.
Puleo, Mario
Quilici, Jim
Quinn, Liam

Radhakrishnan, Prakash
♦Rautenberg, Peter
●Robbins, Steve
Sakakibara, Hiroshi
Savara, Raj
Shariff, Masood
Sheffield, Jimmy
Sigmon, Ned
Sirineni, Gopi
Stetter, Claus
Sun, Yu
Tazebay, Mehmet
Thompson, Joey
Tolley, Bruce
Tuck, Fred

Potential Members (voters) p.3

Umnov, Alexander
Vogel, David
Yang, Yaochao
Yoon, Chong Ho

♦ *Requested to become member (Monday)*

• *Requested to become member (Thursday)*

Interim TF & SG meetings held

- Chandler, AZ, USA, 10-13 Jan 2006
  - P802.3an, 10GBASE-T
  - P802.3ap, Backplane Ethernet
  - P802.3aq, 10GBASE-LRM
  - P802.3as, Frame Format Extensions
  - P802.3at, DTE Power Enhancements
  - Maintenance
- Milpitas, CA, USA, 17-18 Jan 2006
  - 802.1 meeting on Congestion Management
- San Diego, CA, USA, 2-3 Feb 2006
  - P802.3ap, Backplane Ethernet
- San Diego, CA, USA, 15 Feb 2006
  - P802.3as, Frame Format Extensions
- San Diego, CA, USA, 16 Feb 2006
  - 802.3au, Corrigendum 1

802.3 ballots since November

- Sponsor Ballot invitations:
  - P802.3-2005/Cor1, P802.3ap (closing 8 Mar)
- Working Group Ballots:
  - P802.3ap/D2.1, D2.2, D2.3 recirculation
  - P802.3-2005/Cor1/D1.0, D1.1 initial ballot and recirculation
  - P802.3as/D2.2, D2.3, D2.4 recirculation
  - P802.3-2005/Cor1 (802.3au) /D1.0, D1.1, D1.2 initial ballot and recirculation
- Sponsor Ballots:
  - P802.3an/D3.0, D3.1, initial ballot and recirculation
  - P802.3aq/D3.0, D3.1, initial ballot and recirculation

IEEE-SA Standards Board Bylaws on Patents in Standards

6. Patents

IEEE standards may include the known use of essential patents and patent applications provided the IEEE receives assurance from the patent holder or applicant with respect to patents whose infringement is, or in the case of patent applications, potential future infringement the applicant asserts will be, unavoidable in a compliant implementation of either mandatory or optional portions of the standard [essential patents]. This assurance shall be provided without coercion. The patent holder or applicant should provide this assurance as soon as reasonably feasible in the standards development process. This assurance shall be provided no later than the approval of the standard (or reaffirmation when a patent or patent application becomes known after initial approval of the standard). This assurance shall be either:

a) A general disclaimer to the effect that the patentee will not enforce any of its present or future patent(s) whose use would be required to implement either mandatory or optional portions of the proposed IEEE standard against any person or entity complying with the standard; or

b) A statement that a license for such implementation will be made available without compensation or under reasonable rates, with reasonable terms and conditions that are demonstrably free of any unfair discrimination.

This 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.

◆IEEE

Approved by IEEE-SA Standards Board – March 2003 (Revised February 2006)

Inappropriate Topics for IEEE WG Meetings

- Don't discuss the validity/essentiality of patents/patent claims

- Don't discuss the cost of specific patent use

- Don't discuss licensing terms or conditions

- Don't discuss product pricing, territorial restrictions, or market share

- Don't discuss ongoing litigation or threatened litigation

- Don't be silent if inappropriate topics are discussed… do formally object.

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

◆ IEEE

The WG is advised

- 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 disclosure of patents which may be essential for the use of standards under development is encouraged;

- Disclosures made of such patents may not be exhaustive of all patents that may be essential for the use of standards under development, and that neither the IEEE, the WG, nor the WG Chairman ensure the accuracy or completeness of any disclosure or whether any disclosure is of a patent that, in fact, may be essential for the use of standards under development.

December Standards Board (p. 1)

- ProCom recommendations
  - Operations manual text for establishing IEC Category D liaison
  - Consultants participation in the entity process (must not be representing another member)
  - Clear statement that editorial comments may be deferred to the publication editor
  - Official reporter removed from the process
  - Clarification of Standards Board voting rules
  - Changes to PatCom membership (staff and legal counsel become advisory)
- ProCom discussion items
  - Interpretations process (interpretations group)
  - Interest category definitions
  - Dominance
  - MyProject status (phased rollout)

December Standards Board (p. 2)

- PatCom discussion
  - Not enough consensus on ANSI patent policy changes yet
  - DoJ/FTC meeting, a business review letter will be sought before implemementing any policy changes (anti-trust concerns)
  - Proposed changes to policy – continuation of June discussion
    - Lawyers from multiple high tech companies present
    - If your employer cares about the IEEE patent policy, they should pay attention
  - Changes to the Letter of Assurance form
    - Form proposed to be mandatory (Oct SB ballot)
    - LoA withdrawl, obligations to sucessor
    - Inclusion of license terms (not to exceed)
  - Amendment of claims
  - Failure of participant to provide LoA
  - Applicability of LoA to other standards referencing IEEE standards

December Standards Board (p. 3)

- RevCom recommendations
  - All 802 projects approved

- RevCom discussion
  - Motion to remove stabilized standard failed

- NesCom recommendations
  - All 802 projects approved

- NesCom discussion
  - PAR form, WG Change form and signature page discussed, Official Reporter eliminated
  - PARs to be submitted via myProject effective 1 April 2006
  - NesCom role in "turf" conflicts and redundant/overlapping projects

December Standards Board (p. 4)

- Standards Board
  - All 802 projects approved
  - Changes adopted:
    - Clarification of SB voting
    - Changes in PatCom membership
  - Stabilized standards moved to an SASB ad hoc
- http://standards.ieee.org/board

LMSC EC Report p.1

- Budget
  - Significant expenditure for network equipment approved ($68.7k)
  - ~$100 of your meeting fee is for refreshments
- Get IEEE 802 status
  - On budget this year
  - 2007 may require a larger LMSC contribution, purchase revenues are trending down
- LMSC attendance software
  - Being driven by 802.11 and 802.15
  - Consistent practice would be required for use by other groups
  - Temporary solution will be provided for free by IEEE-SA, they want to do the final software also
- Training
  - New attendee training at plenaries – Monday AM
  - 3 hour on-line course
    - Beta test completed
    - Could be generally available next week

LMSC EC Report p.2

- Staff update
  - 2006 PAR form rollout 3 April
  - Web-based, with some auto-fill features
- European patent office request
  - Archival access to drafts
  - Issues on other groups drafts/standards, records retention policy, etc.
  - License agreement has been drafted
- Tutorials
  - Mon. 6:30 – 801.16 multihop relays
  - Mon. 8:00 – Integrity in IEEE standards
- JTC1/SC6 efforts (and conflict) continuing
- China Liaison
  - IEEE introduction in China
  - April rollout meetings planned

LMSC EC Report p.3

- P&P changes
  - Remove quorum requirement for WG meeting noticed 11 months in advance
  - Large editorial update going to ballot
  - Delete draft and project numbering clause
- EC election/confirmation
- Revised opening plenary – opinions?
- ITU-T as an international standardization path

LMSC Chair's Meetings

- Tues
  - 1:00-3:00   Attendance and document software
- Wed
  - 1:00-3:00   802 Task Force
  - 3:00-4:00   Get IEEE 802 budget review
  - 4:00-5:00   Appeal hearing (802.20)
- Thurs
  - 5:00-7:00   "Open office" (open door to talk to SA-SB Chair, LMSC Chair, SA Assoc. Managing Dir)

Project Authorization Requests

- P802.1AS   AV Bridges
- P802.15.3a   PAR withdrawl
- P802.16j   Mobile Multihop Relay
- P802.16k   Bridging amendment
- P802.19
- P802.20   PAR extension

March 2006 LMSC Elections

- IEEE 802 LMSC Chair
  - Current term runs through end of March plenary
  - Mr. Nikolich will stand for re-election as LMSC Chair
  - LMSC Chair will be elected by current Executive Committee on Friday
- IEEE 802.3 Chair and Vice Chair
  - Current term runs through end of March plenary
  - Mr. Grow is standing for re-election as Chair
  - Mr. Law is standing for re-election as Vice Chair
  - Other candidates are requested to announce their candidacy and consult with a member of the Executive Committee
  - All candidates are to assure they are eligible for confirmation at the March closing EC meeting

IEEE 802.3 Election Process (p.1)

- Opening 802.3 plenary meeting
  - Candidates may announce before or at the opening 802.3 plenary session
  - An alternate method of voting may be established by motion
- Closing 802.3 plenary meeting
  - Unannounced eligible candidates may be nominated from the floor
  - Candidates will be granted time for brief statements
  - Candidates will leave the room for discussion prior to the vote
  - Current Vice Chair will first conduct election of Chair, current Chair will conduct election of Vice Chair

IEEE 802.3 Election Process (p.2)

- Default method of voting is by show of hands with candidates absent from room
  - If no candidate receives a majority of votes cast, subsequent votes will be conducted
  - On each iteration the candidate with lowest vote count from the previous ballot is eliminated and may return to the room
  - Acting chair may allow limited discussion between ballots
- If a paper ballot is mandated by majority motion
  - Only announced candidates names will be printed on the ballot, only nominated candidates may be written in
  - Candidates may be present during voting
  - The Recording Secretary shall select two monitors to assist in the distribution and counting of ballots
  - Ballots shall be counted in the meeting room

Continuing Agenda

- Liaison Reports
- 802.3 State of the Standard (Mr. Law)
- 802.3 Operating Rules (Mr. Law)
- Task Force & Study Group Reports
  - Interpretations (Mr. Law)
  - Maintenance (Mr. Law)
  - 802.3an (Mr. Booth)
  - 802.3ap (Mr. Healey)
  - 802.3aq (Mr. Cunningham)
  - 802.3ar (Mr. Daines)
  - 802.3as (Mr. Daines)
  - 802.3at (Mr. McCormack)
  - Call for Interest