
IEEE 802.3 Working Group Opening Plenary 15 March 2004

Robert M. Grow
Chair, IEEE 802.3 Working Group
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Introductions & Agenda

- 802.3 Web Site – www.ieee802.org/3
- Officers
 - 802.3 Chair: Bob Grow (bob.grow@ieee.org)
 - 802.3 Vice Chair: David Law (david_law@3com.com)
 - 802.3 Secretary: Steve Carlson (scarlson@esta.org)
 - 802.3ah EFM: Howard Frazier (millardo@dominetsystems.com)
 - 802.3an 10GBASE-T: Brad Booth (bradley.booth@intel.com)
 - Backplane Ethernet SG: Adam Healey (ahealey@agere.com)
 - 10GMMF SG: Bruce Tolley (btolley@cisco.com)
- Attendee introductions
- Approve agenda

Published Standards

- IEEE Std 802.3TM-2002*
- IEEE Std 802.3aeTM-2002*
- IEEE Std 802.3afTM-2003*
- IEEE Std 802.3ajTM-2003
- IEEE Std 802.3akTM-2004
- IEEE Std 1802.3TM-2001*
- Available through Get IEEE 802TM
<http://standards.ieee.org/getieee802/802.3.html>

Book Distribution

- Web based book distribution
 - Look for the announcement for 802.3aj and 802.3ak
 - Eligible people must respond and provide mailing information

Current WG Documents

- P802.3ah/D3.1, EFM (10 Feb 2004), Sponsor recirculation ballot
- Interpretations and Maintenance requests posted
- 802.3 minutes posted
 - Approval of November minutes

Attendance

- Membership requirements (acquiring or retaining 802.3 voter status)
 - 75% attendance at 2 of last 4 plenary meetings (an interim may be substituted for one plenary)
 - Request to become member during 802.3 potential voter agenda item
 - Maintain valid contact information (on 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 (signed in during last year)
 - New attendees & update contact information
 - Review membership lists – potential voters
-
-

802.3 Members (voters) p.1

Abaye, Ali	Bhatt, Vipul	Claessen, Guss
Adriaennsens, Luc	Bohbot, Michel	Claseman, George
Alderrou, Don	Booth, Brad	Cobb, Terry
Aronson, Simcha	Bradshaw, Peter	Cohen, Larry
Artman, Doug	Braga, Al	Cook, Charles I
Babanezhad, Joseph N	Brand, Richard	Cravens, George
Barnea, Eyal	Brown, Benjamin	Daines, Kevin
Barrass, Hugh	Brown, Kevin	Dallesasse, John
Baumer, Howard	Busse, Robert	Dawe, Piers
Beaudoin, Denis	Cain, Jeff	De Andrea, John
Beck, Michaël	Carlo, James T.	Debbasch, Bernard O.
Beili, Edward	Carlson, Steve	Di Minico, Chris
Below, Randy J.	Chen, Xiaopeng	Diab, Wael
Bemmel, Vincent	Cheong, Kok-Wui	Dineen, Thomas
Bennett, Mike	Chow, Jacky	Dove, Dan

802.3 Members (voters) p.2

Easley, J. Craig	Grow, Robert M.	Kasturia, Sanjay
Eckert, Edward J.	Gummalla, Ajay	Kenny, John J.
Egan, John	Gustafsson, Jonas	Khermosh, Lior
Eisler, George	Gyurek, Russ	Kim, Chan
Ewen , John F.	Hansen, Chris	Kim, Jin H.
Fanfoni, Sabina	Haran, Onn	Kimpe, Marc
Flatman, Alan	Healey, Adam	King, Neal
Frazier, Howard	Heckroth, Jim	Koenen, David J.
Fujimoto, Yukihiro	Horvat, Michael	Kolesar, Paul
Gaglianello, Robert D	Jackson, Steve	Kramer, Glen
Gaither, Justin	Jiang, Wenbin	Lackner, Hans
George, John	Jones, William W.	Langston, Daun
Gerhardt, Floyd	Jonsson, Ulf	Law, David
Goldis, Moty	Jørgensen, Thomas K.	Lawrence, Eric
Graham, Rich	Kaku, Shinkyō	LIM, Seyoun

802.3 Members (voters) p.3

Lynskey, Eric R.	Naidu, Hari	Rabinovich, Rick
MacLeod, Brian	Nguyen, Trung	Radcliffe, Jerry K.
Maislos, Ariel	Nishimura, Shinji	Rado, Ted
Marris, Arthur	Nojima, Kazuhiro	Raman, Naresh
Martin, David W.	Nordin, Ron	Remein, Duane
Mathey, Thomas	Noseworthy, Bob	Rezvani, Behrooz
McCormack, Michael S	Obara, Satoshi	Roth, Zeev
McGugan, Chris	Oberstar, John	Sala, Dolors
Mei, Richard Y.	O'Mahony, Barry	Sambasivan, Sam
Messenger, John	O'Rourke, Aidan	Saracino, Concita
Miao, Tremont	Parsons, Glenn	Savara, Raj
Miyoshi, Hidekazu	Pesavento, Gerry	Savi, Olindo
Muller, Shimon	Popescu, Petre	Seto, Koichiro
Murakami, Ken	Posthuma, Carl R.	Sheppard, Ben
Murphy, Thomas	Quackenbush, William	Shih, Cheng-Chung

802.3 Members (voters) p.4

Shohet, Zion

Shridhar, Avadhani

Simon, Scott

Soffer, Ran

Song, Jaeyeon

Sorbara, Massimo

Squire, Matthew B.

Stuart, Richard

Swanson, Steve

Tai-Lai, Tung

Tate, Mike

Thaler, Pat

Thatcher, R. Jonathan

Thompson, Geoffrey

Thorne, David

Tolley, Bruce

Toyoda, Hidehiro

Tsuji, Shinji

Tzannes, Marcos

Vaden, Sterling A.

van Doorn, Schelto

Vanderlaan, Paul Z.

Veerayah, Kumaran

Vergnaud, Gérard

Warren, Jeff

Wei, Dong

Weissberger, Alan

Winterton, Darin

Yoo, Tae-Whan

Yoshihara, Osamu

Yu, Hong

Zagalsky, Nelson

Zimmerman, George

Zivny, Pavel

Members in Peril

Arnold, Brian

Atias, Ilan

Bartur, Meir

Cam, Richard

Cullin, Chris

Darshan, Yair

Dwelley, David

Haas, Steven

Haddock, Stephen

Hirth, Ryan

Huynh, Thong

Jacobsen, Krista S

Jetzt, John

Jones, Chad

Karam, Roger

Le Goff, Yannick

Lee, Ying

Muir, Robert

Nadeau, Gerard

Naganuma, Ken

Nazari, Nersi

Oksman, Vladimir

Pannell, Don

Pietilainen, Antti

Reintjes, Maurice

Rennie, Lawrence

Rogers, Shawn

Ross, Floyd

Say-Otun, Sabit

Schindler, Fred

Sendelbach, Lee

Tatum, Jim

Thirion, Walter

Williamson, Erica

Zona, Bob

Potential Members (voters) p.1

AbuGhazaleh, Shadi
Armijo, Bert
Asbo, Magnus
Behtash, Saman
Chopra, Rahul
Chou, Joseph
Crepin, J. Francois
Dreyer, Steve
Dupuis, Joseph E.
Ellwanger, Eric
Fitzgerald, Paul
Freedman, Martin G
Garcia, Adolfo A.
Hammond, Bernie
Hazarika, Asif

Hurwitz, Walter K.
Jaeger, John
Juras, Walter
Kang, Tae Kyu
Kawaguchi, Kazuho
Keh, Raymond
Kim, Ajung
Kottapalli, Sreenivas
Lee, Hoon
Liu, Howard
Mahmood, Rehan
Muth, Jim
Nishi, Hiroaki
Onishi, Kazumi
Pease, Chris

Pivonka, Ed
Powell, Scott R.
Rao, Sailesh K.
Rodensky, Michael
Rybinski, Valerie
Sampson, Rod
Schneiderheinze,
Burkart
Schramm, Thomas
Seery, Mark
Shida, Yasunari
Shioiri, Satomi
Siemon, John
Spagna, Fulvio
Stanley, Patrick H.

Potential Members (voters) p.2

Sugawara, Mitsutoshi

Szostak, Tad

Telang, Vivek

Tellado, Jose

Venugopal, Padmabala

Wingard, Michael L.

Wirtz, Michael

Yoon, Chong Ho

Yousefi, Nariman

Yousuf, Farooq

Interim TF & SG meetings held

- Vancouver, BC, Canada, 12-15 Jan 2004

803.3 project ballots since Nov.

- Sponsor Ballots:
 - P802.3ah/D3.0 – Initial Sponsor ballot
 - P802.3ah/D3.1 – 1st Sponsor recirculation
 - P802.3ak/D5.3 – 3rd Sponsor recirculation
- Working Group Ballots:
 - P802.3ah/D2.2 – WG recirculation

December Standards Board

- Changes to Bylaws & Operations Manual
 - Interpretations, patents, appeals, committees, ballot groups, etc.
- Revision requirements still topic of discussion
- Approved standards
 - 802.1D revision
 - 802.3ak
 - 802.16 Conformance, 802.16.2 revision
- Withdrawn
 - 802.1B, 802.1E
 - 802.10

LMSC EC Report p.1

- Indemnification policy has been updated
- Meeting held with BOG to discuss
- Voting rules
 - At meeting: Y/Y+N
 - Via email: Y/members
 - Evaluating how this might impact LMSC operational procedures
- Elections
 - 802.3 on Thursday – Candidates
 - EC elections and confirmations on Friday

LMSC EC Report p.2

- Funded services – no progress
- LMSC P&P changes
 - Roll call votes
 - Procedure 1

LMSC Chair's Meetings

- Tues
 - 9:00-11:00 802 Reorganization
 - 2:00-3:00 802 Task Force
 - 3:00-4:00 CAG/Existing WG
 - 4:00-5:00 802 and China

Tutorials

- Monday Evening
 - 6:00 Wireless Performance Metrics
 - 7:30 Power Line Carrier
 - 9:00 EMS – P&P
- Tuesday Evening
 - 6:00 10 GbE on MMF
 - 7:30 Spread Spectrum Retrospective
 - 9:00 Appl. of mmWave PHY in WPAN

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 and prior to approval of the standard (or reaffirmation when a patent or patent application becomes known after initial approval of the standard). This assurance shall be a letter that is in the form of 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 shall apply, at a minimum, from the date of the standard's approval to the date of the standard's withdrawal and is irrevocable during that period.

Inappropriate Topics for IEEE WG Meetings

- 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 Patent Committee
Administrator at patcom@ieee.org or visit
<http://standards.ieee.org/board/pat/index.html>

Project Authorization Requests

- IEEE 802.3
 - 802.3ap “Backplane Ethernet”
(<http://www.ieee802.org/3/bladesg/index.html>)
 - 802.3aq “10G over FDDI Grade MMF”
(<http://www.ieee802.org/3/10GMMFSG/index.html>)
 - Targeted for NesCom March early consideration
- 802.1ag – Connectivity Fault Management
(<http://www.ieee802.org/1/files/public/docs2004/ConnectivityFaultPAR-v1.2a.doc>)

Project Authorization Requests

- 802.11
Wireless Access for the Vehicular Environment:
(provisionally 802.11 Task Group p)
Fast Roaming: (provisionally 802.11 Task Group r)
ESS Mesh Networking: (provisionally 802.11 Task
Group s)
802.11 Standard Maintenance - Task Group m
(change the existing PAR from a maintenance PAR
to a revision PAR)
All can be found at: <http://www.ieee802.org/11/PARs>

Project Authorization Requests

- 802.15.3b – addresses MAC corrections and clarifications for the 15.3 MAC
- 802.15.4a – addresses an alternate PHY for 15.4 with the goal of adding improved ranging capability, improved link margin (robustness and range), and mobility
- 802.15.4b – is a revision PAR to 15.4 which addresses a number of issues, including adding the newly approved 860 MHz bands in Europe to the existing PHY, overall simplifications, as well as corrections and enhancements based on a year's worth of market implementation experience.
- 802.15.5 – is a PAR to develop a Recommended Practice for WPAN mesh networking.
All can be found at: <http://ieee802.org/15/pending.html>

IEEE 802.3 CFI

- Tues 7:30 Data Center Ethernet
- Jonathan Thatcher, independent, (jonathan.thatcher@ieee.org)

New applications of Ethernet-interconnected cluster and grid computing present requirements for improvement in performance, efficiency, and reliability. Over the last decade, performance improvement simply meant increasing Ethernet's bandwidth by a factor of 10 every four years -- a dramatic outpacing of Moore's Law. 10-Gigabit Ethernet crashed into that wall in 2003 and is only now beginning to enter the market in a serious way. The time is opportune to investigate means to advance Ethernet's performance beyond what is possible at either 1-Gig or 10-Gig through protocol efficiency enhancements. It is proposed that a Study Group be created to investigate means to reduce latency, decrease congestion and inevitable packet loss, and provide features that allow upper layers to more effectively utilize Ethernet networks and thus enable an IEEE 802.3 compliant means to build next generation systems.

Continuing Agenda

- Liaison Reports
- 802 State of the Standard (Mr. Law)
- 802.3 Operating Rules (Mr. Law)
- Task Force & Study Group Reports
 - Interpretations (Mr. Law)
 - 802.3REVam Maintenance (Mr. Law)
 - 802.3ah Ethernet in the First Mile (Mr. Frazier)
 - 802.3ak 10GBASE-CX4 (Mr. Dove)
 - 10GBASE-T SG (Mr. Booth)
 - Backplane Ethernet SG (Mr. Healey)
 - 10GMMF SG (Mr. Tolley)
- Plan for the Week (Mr. Law)