AGENDA & MINUTES (Unconfirmed) - IEEE 802 LMSC EXECUTIVE COMMITTEE MEETING

Monday, July 21, 2003 - 8:00 a.m.

Hyatt Regency Hotel– San Francisco, CA

1. MEETING CALLED TO ORDER

Paul Nikolich called the meeting to order at 8:00 am. Members in attendance were:

Paul Nikolich	- Chair, IEEE 802 LAN / MAN Standards Committee
Geoff Thompson	- Vice Chair, IEEE 802 LAN / MAN Standards Committee
Mat Sherman	- Vice Chair, IEEE 802 LAN / MAN Standards Committee
Buzz Rigsbee	- Executive Secretary, IEEE 802 LAN / MAN Standards Committee
Bob O'Hara	- Recording Secretary, IEEE 802 LAN / MAN Standards Committee
Bill Quackenbush	- Treasurer, IEEE 802 LAN/MAN Standards Committee
Tony Jeffree	- Chair, IEEE 802.1 - HILI Working Group
Bob Grow	- Chair, IEEE 802.3 - CSMA/CD Working Group
Stuart Kerry	- Chair, IEEE 802.11 - Wireless LANs Working Group
Bob Heile	- Chair, IEEE 802.15 – Wireless PAN Working Group
Roger Marks	- Chair, IEEE 802.16 – Broadband Wireless Access Working Group
Mike Takefman	- Chair, IEEE 802.17 – Resilient Packet Ring Working Group
Carl Stevenson	- Chair, IEEE 802.18 – Regulatory TAG
Jim Lansford	- Chair, IEEE 802.19 – Coexistence TAG
Mark Klerer	- Vice Chair, IEEE 802.20 – Mobile Broadband Wireless Access
Jerry Upton	- Vice Chair, IEEE 802.20 – Mobile Broadband Wireless Access

The meeting was attended by approximately 30 observers, as well as several IEEE Staff, including Karen Rupp, Mary Lynne Nielson, Christine Santos, Yvette Ho-Sang, and Jennifer Longman.

Proposed Agenda

DRAFT AGENDA - IEEE 802 LMSC EXECUTIVE COMMITTEE MEETING

Monday, July 21, 2003 - 8:00AM -10:30AM

Hyatt Em, San Francisco CA

1.00		**MEETING CALLED TO ORDER**	**-**	**Nikolich**	**1**	**08:00 AM**
2.00	**MI**	**APPROVE OR MODIFY AGENDA**	**-**	**Nikolich**	**4**	**08:01 AM**
3.00			**-**		**5**	**08:05 AM**
4.00	**II**	**TREASURER'S REPORT**	**-**	**Quackenbush**	**5**	**08:10 AM**
4.01			**-**			**08:15 AM**
	Category (* = consent agenda)					
		Stds Board items				
5.00	**II**	**March/June Stds Board Actions (approved projects, standards, withdrawals)**	**-**	**Nikolich**	**2**	**08:15 AM**
5.01	**II**	**Stds due for Maintainence and/or revision**	**-**	**Nikolich**	**2**	**08:17 AM**
5.02	**II**	**PARS to NesCom**	**-**	**Nikolich**	**2**	**08:19 AM**
5.03	**II**	**Drafts to Sponsor Ballot**	**-**	**Nikolich**	**2**	**08:21 AM**
5.04	**II**	**Drafts to Revcom**	**-**	**Nikolich**	**2**	**08:23 AM**
5.05			**-**			**08:25 AM**
5.06						**08:25 AM**

		SA items				08:25 AM
5.06	II	get IEEE 802 update	-	K. Rupp	5	08:25 AM
5.07	II	SA conformance to drafts policy	-	G. Thompson	5	08:30 AM
5.08	II		-			08:35 AM
5.09	II	802 Task Force update	-	Nikolich	5	08:35 AM
5.10	II	Funding Model Task Force update	-	J. Carlo	5	08:40 AM
5.11	II	Request to SA board to clarify recirc ballot rules (5.4.3.2 of Ops Manual)	-	Sherman	5	08:45 AM
5.12	II		-			08:50 AM
5.13	II	Balloting Pools and Groups Announcement	-	Santos	2	08:50 AM
5.14						08:52 AM
5.15						08:52 AM
		LMSC items				08:52 AM
5.16	MI	LMSC Meeting Fee Waivers	-	Nikolich	2	08:52 AM
5.17	II	Tutorial schedule	-	Thompson	5	08:54 AM
5.18	II	Education, Mentor, Support Background	-	Frazier	10	08:59 AM
5.19	II	Operating Rules update	-	M. Sherman	10	09:09 AM
5.20	II	802 enews letter/PR - status update	-	Klerer	5	09:19 AM
5.21	II	802 Handoff Executive Committee Study Group update	-	DJ Johnston	5	09:24 AM
5.22	II	802.18 Radio Regulatory TAG Status Update	-	Stevenson	2	09:29 AM
5.23	II	802.19 Coexistence TAG Status Update	-	Lansford	5	09:31 AM
5.24	II	802.1 Security PAR request update and 802.10 status	-	Jeffree	5	09:36 AM
5.25	II	802.1 change dot1aa and dot1z PARs to revisions of dot1X and dot1Q	-	Jeffree	2	09:41 AM
5.26	II	RAC meeting update	-	Jeffree	2	09:43 AM
5.27	II	802.11 High Throughput PAR update	-	Kerry	2	09:45 AM
5.28	II	802.15.1 Revision PAR update	-	Heile	2	09:47 AM
5.29	II	802.16 revised PARs update	-	Marks	2	09:49 AM
5.30	II	802.20 WG Update	-	Thompson	5	09:51 AM
5.31	II	802.20 Appeal Update	-	Thompson	5	09:56 AM
5.32	II	WG finances policy and procedure update	-	Quackenbush	10	10:01 AM
5.33	II	Network Services contract update	-	Quackenbush	5	10:11 AM
5.34	II	Database status	-	Rigsbee	5	10:16 AM
5.35	II	Banding Update	-	McCabe	2	10:21 AM
5.36	II	802.3 Update	-	Grow	2	10:21 AM
5.37	DT	Efficient Organization of SEC Business	-	Marks	5	10:23 AM
5.38	DT	SEC meeting schedule (rules, SA, etc.)	-	Nikolich	1	10:28 AM
5.39			-			10:29 AM
5.40			-			10:29 AM
5.41			-			10:29 AM
5.42						10:29 AM
5.43						10:29 AM
		ADJOURN SEC MEETING	-	Nikolich		10:29 AM
6.00	PL	IEEE 802 PLENARY MEETING STARTS	-	Nikolich	60	11:00 AM
6.01	PL	IEEE 802 PLENARY MEETING ENDS				12:00 PM

ME - Motion, External MI - Motion, Internal

DT- Discussion Topic **II - Information Item**

2.00	**MI**	**APPROVE OR MODIFY AGENDA**	**-**	**Nikolich**	**4**	**08:01 AM**

Motion: To approve the agenda.

Moved: Bob Grow, Seconded: Tony Jeffree

Passes: 12/0/0

3.00			**-**		**5**	**08:05 AM**

4.00	**II**	**TREASURER'S REPORT**	**-**	**Quackenbush**	**5**	**08:10 AM**

IEEE Project 802
Statement of Operations
March 2003 Plenary Meeting
DFW Airport Dallas, TX
As of June 30, 2003

Meeting Income				Actual	Budget	Deviation
	Net Registrations			1,146	900	246
687	Registrations	@ $300	206,100			
459	Registrations	@ $350	160,650			
35	Cancellation	@ $50	1,750			
0	Cancellations	@ $150	0			
1	Other	@ $100	100			
Registraion Subtotal			368,600	368,600	281,250	87,350
0	Deadbeat Payment	@ $300		0	0	0
Interest				104	150	(46)
Other				6,549	0	6,549
TOTAL Meeting Income				375,253	281,400	93,853

Meeting Expenses	Actual	Budget		Deviation
Audio Visual Rentals	7,981	10000		(2,019)
Audit	0	4508		(4,508)
Bank Charges	275	230		45
Copying	4,290	5500		(1,210)
Credit Card Discounts & Fees	9,742	7875		1,867
Equipment Expenses	0	7000		(7,000)
Get IEEE 802 Conttribution	85,050	67500		17,550
Insurance	2,767	3000		(233)
Meeting Administration	62,244	51775		10,469
Misc Expenses	12,260	500		11,760
Networking	10,363	25000		(14,638)
Phone & Electrical	1,534	2100		(566)
Refreshments	77,512	67500	(1)	10,012
Shipping	4,491	3000		1,491
Social	33,777	27000	(2)	6,777
Supplies	490	500		(10)
TOTAL Meeting Expense	312,777	282,988		29,788
NET Meeting Surplus/(Deficit)	62,476	(1,588)		64,064

Notes			
	(1) Refreshments per registration	68	75
	(2) Social per registration	29	30
	(3) Pre-Registration ratio	0.60	0.75

Reserve for unbilled expenses from prior meetings	0
Reserve for other outstanding commitments	1,750
Expenses prepaid for current meeting	9,200
March 2003 Operating Reserve	**220,344**

		Stds Board items				
5.00	**II**	**March/June Stds Board Actions (approved projects, standards, withdrawals)**	**-**	**Nikolich**	**2**	**08:15 AM**

March 2003 & June 2003 Stds Board Actions

Standards Approved

Reaffirmation (1):

P802.11-1999 Part11: Wireless LAN Medium Access Control (MAC) and Physical Layer (PHY) Specifications [Also: 802.11a-1999; 802.11b-1999; 802.11b-1999/Cor1-2001; and 802.11d-2001]

New (7):

P802a/D4 Overview and Architecture - Amendment 1: Ethertypes for Prototype and Vendor-Specific Protocol Development

P802.3af/D4.3 Standard Part 3: Carrier Sense Multiple Access with Collision Detection (CSMA/CD) Access Method and Physical Layer Specifications - Data Terminal Equipment (DTE) Power Via Media Dependent Interface (MDI)

P802.11F/D6 Trial-Use Recommended Practice for Multi-Vendor Access Point Interoperability Via an Inter-Access Point Protocol Across Distribution Systems Supporting IEEE 802.11 Operation

P802.11g/D8.2 Supplement to Standard Part 11: Wireless LAN Medium Access Control (MAC) and Physical Layer (PHY) Specifications: Further Higher Data Rate Extension in the 2.4 GHz Band

P802.15.2/D09 Recommended Practice for Part 15.2: Coexistence of Wireless Personal Area Networks with Other Wireless Devices Operating in Unlicensed Frequency Bands

P802.15.3/D17 Standard Part 15.3: Wireless Medium Access Control (MAC) and Physical Layer (PHY) Specifications for High Rate Wireless Personal Area Networks (WPAN)

P802.15.4/D18 Part 15: Wireless Medium Access Control (MAC) and Physical Layer (PHY) Specifications for Low Rate Wireless Personal Area Networks (WPAN)

March 2003 & June 2003 Stds Board Actions

Standards Deferred

P802.16.2a/D5 Amendment to IEEE Recommended Practice for Local and Metropolitan Area Networks - Coexistence of Fixed Broadband Wireless Access Systems - Amendment 1

At the Standards Board meeting, the following motion was approved:

"Resolved that IEEE P802.16.2a ballot submission be handled as follows:

1) Sponsor shall submit a revised PAR, indicating that the document is a revision. This PAR can be handled through NesCom Continuous Processing.

2) Sponsor shall send a ballot invitation to the balloting pool used for the previous amendment ballot.

[The invitation should outline the current situation in terms of unanimous approval of those who voted, but recognition that some individuals might have joined the previous balloting group if they had perceived the project as a revision effort instead of an amendment.]

3a) If no new members join the balloting group, the document is approved as submitted.

3b) If new members join the balloting group, an initial ballot shall be conducted on the current draft."

March 2003 & June 2003 Stds Board Actions

Projects Approved

New PARs (3):

P802.3ak Standard - Part 3: Carrier Sense Multiple Access with Collision Detection (CSMA/CD) Access Method and Physical Layer Specifications Amendment: Physical Layer and Management Parameters for 10 Gb/s Operation

P802.11ma Standard - Part 11: Wireless LAN Medium Access Control (MAC) and Physical Layer (PHY) specifications - Amendment x: Technical corrections and clarifications

P1802.16.3 Standard for Conformance to IEEE Standard 802.16 - Part 3: Radio Conformance Tests (RCT) for 10-66 GHz WirelessMAN-SC™ Air Interface

Revised PAR (1):

P802.3aj Standard - Part 3: Carrier Sense Multiple Access with Collision Detection (CSMA/CD) access method and physical layer specifications Maintenance #7

Changes in PAR numbers (3):

P1802.16.1 change in project number to P802.16/Conformance01-200x Standard for Conformance to IEEE Standard 802.16 - Part 1: Protocol Implementation Conformance Statement (PICS) Proforma for 10-66 GHz WirelessMAN-SC Air Interface

P1802.16.2 change in project number to P802.16/Conformance02-200x Standard for Conformance to IEEE Standard 802.16 - Part 2: Test Suite Structure and Test Purposes (TSS&TP) for 10-66 GHz WirelessMAN-SC Air Interface

P1802.16.3 change in project number to P802.16/Conformance03-200x Standard for Conformance to IEEE Standard 802.16 - Part 3: Radio Conformance Tests (RCT) for 10-66 GHz WirelessMAN-SC™ Air Interface

Reaffirmation Status

802.2-1989 (R1997) Logical Link Control
[also 802.2a-1993 (R1997) + 802.2b-1993 (R1997) + 802.2c-1997
+ 802.2d-1993(R1997) + 802.2e-1993 (R1997) + 802.2f-1997 + 802.2h-1997]
In SA recirculation ballot process;

802.5-1997 Token Ring Access Method and Physical Layer Specifications [also 802.5j-1997 + 802.5r-1997 + 802.5t-2000 + 802.5v-2001 + 802.5w-2000]
(I believe this was replaced by 8802-5 Third edition, 1998 and Third edition 1998 Amendment 1 Fiber Optic Media 1998)
In SA recirculation ballot process;

802.1Q-1998 IEEE Standards for Local and Metropolitan Area Networks:
Virtual Bridged Local Area Networks [Also 802.1s-2002 + 802.1u-2001 + 802.1v-2001]
{The following PARs might be affected: P802.1z and P802.1ad}
In process; pending EC approval before submission to RevCom

Standards Due for 5 year review end of 2003

Withdrawal approved by SEC 11/2002, request to RevCom 03/2003:
802.1B-1992 (R1998) Local and Metropolitan Area Network: LAN/MAN Management
[Also 802.1k-1993 (R1998)]

802.1E-1990 (R1998) Standard for Local Area Network: System Load Protocol
[Also 802.1m-1993 (R1998)]

802.1F-1993 (R1998) Local and Metropolitan Area Networks: Common Definitions and Procedures for IEEE 802 Management Information

In REAFFIRMATION PROCESS:
802.2-1989 (R1997) Local Area Networks: Logical Link Control
[Also 802.2a-1993 (R1997) + 802.2b-1993 (R1997) + 802.2c-1997 + 802.2d-1993 (R1997) + 802.2e-1993 (R1997) + 802.2f-1997 + 802.2h-1997 + 802.5p-1993]

802.5-1997 IEEE Standard for Local Area Networks: Token Ring Access Method and Physical Layer Specifications
[Also 802.5j-1997 + 802.5r-1997 + 802.5t-2000 + 802.5v-2001 + 802.5w-2000]

Pending Withdrawal by 802 EC:

802.10-1998 IEEE Standard for Interoperable LAN/MAN Security (SILS)
[Also 802.10a-1999 + 802.10c-1998]

Must provide reaffirm, revise, extend or withdraw recommendation by 10/21/2003

Expiring PARs

- none

Roger Marks reported that he has submitted a PAR to change 802.16.2a to a revision and has initiated an invitation for a sponsor ballot group.

Motion: To forward 802.16.2 revision to sponsor ballot
Moved: Roger Marks, Geoff Thompson
Passes: 12/0/0

5.01 II Stds due for Maintainence and/or revision - Nikolich 2 08:17 AM

Issues regarding 802.1f and its withdrawal and reference in other standards, as well as the 802 policies and procedures were discussed. 802.1 was asked to conduct a reaffirmation ballot. Geoff asked Tony and Bob Grow to discuss this issue and return with a recommendation at the Friday closing meeting.

5.02 II PARS to NesCom - Nikolich 2 08:19 AM

PARs to NesCom

- **802.1**
  - Revision PARs for 802.1Q and 802.1X
    - replace existing maintenance PAR P802.1z Virtual Bridged Local Area Networks - Amendment 4: Technical and Editorial Corrections
    - Repalce existing maintenance PAR 802.1aa Port Based Network Access Control - Amendment 1: Technical and Editorial Corrections
  - 802.1 AE MAC Security
- **802.11**
  - .11n MAC and PHY: Enhancements for Higher Effective Throughput
- **802.15**
  - 802.15.1a: incorporating changes of BLUETOOTH 1.1 => 1.2 in 802.15.1
- **802.16**
  - 802.16d (Revision) – consolidation (16base + 16a + 16c:2-11GHz Profiles)
  - 802.16.2a (Revision) - 2-11 GHz enhancement

5.03	**II**	**Drafts to Sponsor Ballot**	**-**	**Nikolich**	**2**	**08:21 AM**

Drafts to (or in) Sponsor Ballot

- Dot 1
  - 802a Ethertypes for prototype and vendor-specific protocol development
  - 802.1z Q corrections
  - 802.1aa Port Based Access corrections
- Dot 3
  - 802.3 ak 10GBASE-CX4
- Dot 11
  - 802.11e QoS Enhancement
  - 802.11h Spectrum Management of 802.11a
  - 802.11i MAC Security Enhancements
- Dot 15
  - 802.15.3a Enhanced Phy
- Dot 16
  - 802.16.2a Fixed Wireless Coexistence Amendment
  - 1802.16.2 Test Suite 10-66GHz

5.04	**II**	**Drafts to Revcom**	**-**	**Nikolich**	**2**	**08:23 AM**

Drafts to RevCom

- New
  - 802.3aj: maintenance #7
  - 802.16 conformance 1 PICs 10-66GHz
- Reaffirmation
  - none

Pending Withdrawal

802.10 family of standards (requests by Ken Alonge, chair of the 802.10 hibernating WG) :

1. Withdraw the proposed PAR that submitted on May 29th to revise IEEE Std 802.10-1998.

2. Have a motion made on 802.10 WG's behalf at the July Plenary to officially withdraw our three current standards, rather than reaffirm or revise them. These are:
- IEEE Std 802.10-1998
- IEEE Std 802.10a-1999
- IEEE Std 802.10c-1998

3. Have a motion made on 802.10 WG's behalf at the July Plenary to officially disband the 802.10 SILS working group.

Regarding the withdrawal of the 802.10 standards, Tony Jeffree was asked to determine if there are any IP letters associated with these standards, as well as whether the withdrawal will affect any current work in 802 and report on Friday.

5.05			**-**			**08:25 AM**
5.06						**08:25 AM**

5

		SA items				**08:25 AM**
5.06	**II**	**get IEEE 802 update**	**-**	**K. Rupp**	**5**	**08:25 AM**

Get IEEE 802 Program Update

- Karen Rupp
  - CY 2003 update
  - CY 2004 budget

IEEE

Get IEEE 802™ Update 7

IEEE Standards Association

Karen Rupp, Associate Managing Director

IEEE 802 SEC Meeting

21 July 2003

San Francisco, CA

Top Downloads (as of 1/7/03)

Downloads	2003 Totals	2002 Totals	2001 Totals	Grand Total
802.11b-1999.pdf	17,375	54,478	30,309	102,162
802.11-1999.pdf	32,038	33,689	29,093	94,820
802.11a-1999.pdf	16,090	22,364	28,732	67,186
802-1990.pdf	-	5,029	43,971	49,000
802.1Q-1998.pdf	10,307	14,230	23,744	48,281
802.3-2000.pdf	119	12,629	26,424	39,172
802.1D-1998.pdf	7,459	12,593	18,783	38,835
802.2-1998.pdf	5,840	10,492	19,045	35,377
802.3-2002.pdf	20,138	6,478	-	26,616
802.1B-1995.pdf	3,221	6,967	16,206	26,394
802.7-1989.pdf	2,042	5,878	14,314	22,234
802.1H-1997.pdf	1,710	4,980	15,356	22,046
802.10-1998.pdf	2,454	5,793	13,260	21,507
802.1X-2001.pdf	9,687	11,328	-	21,015
802.3-2002_part1.pdf	16,272	4,505	-	20,777
802.1F-1993.pdf	1,573	4,463	14,402	20,438
802.11d-2001.pdf	7,741	12,659	-	20,400
802.3-2000_part1.pdf	-	4,108	16,288	20,396
802.1G-1998.pdf	1,899	4,529	13,235	19,663
802.1E-1994.pdf	1,591	4,548	13,519	19,658
802.10a-1999.pdf	1,724	4,549	12,996	19,269
802.10c-1998.pdf	1,794	4,077	11,115	16,986
802-2001.pdf	13,403	2,952	-	16,355
802.5-1998.pdf	2,018	3,677	9,971	15,666
Total downloads	247,244	325,789	499,343	1,072,376

User Type

USER	APR	MAY	JUN
Academic/Student	25,002	22,538	18,026
Other	11,114	9,765	7,552
Network equipment manufacturer	7,476	6,849	6,028
Public network service provider	4,385	3,410	2,636
Standards Developer	2,657	2,512	1,719
Private network service provider	2,538	2,312	1,657
Government	2,030	1,854	1,707
Network silicon manufacturer	1,748	1,540	1,403
Journalist/Analyst/Author	-	-	210
Network Software Developer/Manufacturer	-	-	1,502
Systems Administrator	-	-	1,710
Total	**56,950**	**50,780**	**44,150**

Sponsors

- Wi-Fi Alliance – new
- Cisco Systems - renewal
- Broadcom Corp - renewal
- (Applied Micro Circuits Corp. (AMCC))

On Another Note

- New Drafts Delivery Service
  - Outsourcing draft sales to ILI 21 July
  - Instant posting, delivery and access
  - Overall better service
  - Digital Rights Management

  http://www.ili-info.com/ieee802drafts/
- 802 SEC commitment to provide IP
  - Working Group votes
    - Revisions/Versions
  - Sponsor ballots
    - Revisions/Versions

Going Forward

- Drafts submittal
- Refine User Type select box
- Increase sponsorships

Thank You!

A point was made that users from geographic portals are sent to vendors that do not show as credit for sales as accounted by the Get IEEE 802 program.

Paul suggested that a Wednesday, 9am meeting be held to discuss this and other program issues.

5.07	**II**	**SA conformance to drafts policy**	**-**	**G. Thompson**	**5**	**08:30 AM**
5.08	**II**		**-**			**08:35 AM**
5.09	**II**	**802 Task Force update**	**-**	**Nikolich**	**5**	**08:35 AM**

SA Conformance to Drafts Policy

- A new policy for addressing inappropriate vendor claims of conformance to drafts will be implemented.
- The procedures are as follows:
  - A) IEEE policy with respect to claims of compliance to drafts is outlined in the draft copyright statement, which states:
    - This document is an unapproved draft of a proposed IEEE Standard. As such, this document is subject to change. USE AT YOUR OWN RISK! Because this is an unapproved draft, this document must not be utilized for any conformance/compliance purposes.
  - B) The IEEE cannot prevent accurate claims of compliance or conformance. However, deceptive claims can be addressed.
    - If deceptive claims of compliance or conformance are found, the Sponsor (e.g., IEEE 802 SEC) should be informed.
    - The Sponsor will forward a letter describing the issues, along with evidence of such claims, to the Secretary of the IEEE-SA Standards Board.
    - The Secretary (Judith Gorman) will respond appropriately on behalf of the IEEE-SA.

SA Conformance to Drafts Policy

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    - If deceptive claims of compliance or conformance are found, the Sponsor (e.g., IEEE 802 SEC) should be informed.
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    - The Secretary (Judith Gorman) will respond appropriately on behalf of the IEEE-SA.

IEEE SA BoG
Funding Model Task Force Update

- Jim Carlo
  - Alternative sources of funding SA
    - Increase membership dues
    - Project initiation fee
    - Corporate membership dues

IEEE-SA/802 Task Force

- Meeting held June 11, 2003
  - Topics:
    - Standard “front matter”simplification **ACTION—EC to provide input
    - March 2005 LMSC/StdsBd co-located meeting
    - 802 and Intl submissions
    - PatCom letter: one set of rules regarding patents
    - IEEE 802 numbering and market place impact
    - EMS update
  - Participants:
    - 802- Paul, Geoff, Howard
    - BoG- Jim Carlo, Ray Hapeman
    - SA Staff- Karen Rupp, Jerry Walker, Yvette Ho-Sang, Susan Tatiner, Jennifer Longman, Catherine Berger, Terry DeCourcelle
  - Schedule a meeting this week:
    - recommend Wed 9-10AM?

Meeting to discuss "front matter" at 10am, Wednesday.

The March 2005 Standards Board will collocate with 802 if we meet in San Diego, Orlando, or Atlanta. They will meet beginning on Friday (PatCom, ProCom), followed by RevCom and NesCom on Saturday, and the Standards Board on Sunday.

The Standards Board wishes to standardize the process for submission of standards.

An objection was raise about the lack of providing the consolidated edition of 802.11 on the Get IEEE 802 program.

5.10 II Funding Model Task Force update - J. Carlo 5 08:40 AM

Task force in IEEE-SA examining funding, fairness and

1. Fee on all PAR submittals (~$2k), this received a lot of objection
2. Corporate advisory group is more popular creating corporate standards (battery standard is a good example). This has ~35 companies currently participating
3. Membership voting fee (pay to vote in sponsor ballots), this was decided not to be useful
4. Membership fee. This has been approved to increase to $35 annually.

5.11 II Request to SA board to clarify recirc ballot rules (5.4.3.2 of Ops Manual) - Sherman 5 08:45 AM

See agenda item 5.19.

5.12	**II**		**-**			**08:50 AM**
5.13	**II**	**Balloting Pools and Groups Announcement**	**-**	**Santos**	**2**	**08:50 AM**

Christine announced that she would be distributing lists of the current ballot pools to the individual working groups at their meetings. This material is generally not public and should not be published.
There will be a "MyBallot" system implemented by the first quarter of next year, where someone will be able to determine which ballots groups they belong to, join ballot groups, and remove themselves from ballot groups.

5.14						**08:52 AM**
5.15						**08:52 AM**
		LMSC items				**08:52 AM**
5.16	**MI**	**LMSC Meeting Fee Waivers**	**-**	**Nikolich**	**2**	**08:52 AM**

Meeting Fee Waivers
July 2003

- The following fees have been waived for the July 2003 meeting by the chair.
  - IEEE-SA Staff Participants
    - Karen Rupp, Jennifer Longman, Chris Santos, Mary Lynn Nielson, Yvette HoSang, Karen McCabe, Angela Landron, Bernie Wilder
  - Ethernet Retrospective Guests
    - Don Loughry, Houlin Zhao, Bob Metcalfe, David Boggs, Ron Crane, Bob Printis, Rich Siefert

5.17 II Tutorial schedule - Thompson 5 08:54 AM

Tutorial Schedule

Monday	**Tuesday**
Data Center Design (Grow) 6:30-8:00pm	open 6:30-8:00pm
Education, Mentoring &Support (Nikolich) 8:00-9:30pm	Ethernet Retrospective (Thompson) 8:00-9:30pm

Motion: To pay for the cost of dinner for the guests of the Ethernet retrospective.
Moved: Geoff Thompson, Seconded: Stuart Kerry
Passes: 11/0/0

5.18	**II**	**Education, Mentor, Support Background**	**-**	**Frazier**	**10**	**08:59 AM**

IEEE

EMS

Education, Mentoring, & Support

for the IEEE 802 LMSC

Problem Statement

- 802's batting average for projects submitted to RevCom is far below the norm
  - RevCom typically approves ~95% of submittals
  - 802's batting average over the last year is roughly .750
  - Dec '02: 1.000 (2 for 2)
  - Jan '03: 1.000 (1 for 1)
  - Mar '03: .000 (0 for 2)
  - Apr '03: .500 (1 for 2)
  - Jun '03 .888 (8 for 9), and it was V E R Y P A I N F U L
- The result is unnecessary delay, inefficiency, hard feelings, and the degradation of 802's reputation
- The commercial impact of delay can be huge

Typical Issues

- Failure to understand and follow IEEE SA rules for recirculating changes to drafts and unresolved negative comments
- Failure to satisfy the scope and purpose statements of the PAR
- Failure to deliver the type of document defined in the PAR
- Failure to follow the IEEE SA Style Manual

Solution - EMS

- **E**ducation
  - Regularly scheduled MANDATORY workshops for rookie chairs and editors
- **M**entoring
  - Every project gets a mentor
- **S**upport
  - Obtain highest level of support from the IEEE SA staff

Education

- Mandatory workshops held at each plenary meeting, with rotation of topics
  - IEEE SA Policies and Procedures
  - IEEE SA Style Manual and Framemaker
  - IEEE 802 P&P, RRoO & SG/WG/TF Operation and Management
- All chairs and editors must complete the rotation in order to retain their offices

Education

- Workshops held on Monday evenings
- Open to all, recommended for leaders, mandatory for rookies
- 1.5 hour sessions, 8:00 to 9:30 pm
- IEEE SA staff and veteran volunteer instructors
- Encourage leaders to attend IEEE SASB NesCom & RevCom meetings

Mentoring

- Every project is assigned a mentor at the time a Study Group is formed
- Mentors are appointed by the LMSC chair from a pool of veteran chairs and editors
- Mentors will closely monitor their projects, and provide timely *advice and guidance* on policies and procedures
- Mentors have no authority to make decisions, but their *advice and guidance* should be heeded

Mentoring

- Mentors serve as a first point of contact for questions and issues
- Mentors must be proactive in offering *advice and guidance*
- Mentors must be “kept in the loop” at all stages of a project
- Mentors receive an attractive gold pin after their first project is approved by the IEEE SASB

Support

- Various options, including
  - Combination of dedicated and shared services
  - Dedicated program management and editorial resources with enough “bandwidth” for the high volume & priority of our work
  - Priority access to shared services

Full Support Option
Dedicated Services

- Project/service management
- Web and site support
- Working Group asst
- NesCom submittal
- Procedural training
- Template training
- First draft review
- Sponsor draft review
- Sponsor ballot
- RevCom submittal
- Post approval editing
- Awards preparation
- Draft 0 preparation
- Public relations/media
- *Other (Quoted separately)*
  - *International adoption*
  - *E-News*
  - *Technical editor*
  - *Internet conferencing*

Support

- Institute a support program commensurate with the importance of our work
- Clear expectations for response times
- Encourage additional IEEE SA staff members to attend plenary and interim meetings on an ongoing rotating basis
- May require additional funding from 802

Conclusion

- The work of the IEEE 802 LMSC is important
  - To the members of the LMSC
  - To the IEEE-SA
  - To the industry
  - To the public
- We must commit ourselves to producing our standards in the best possible manner
- EMS is urgently needed

Meeting Wednesday, 1pm to discuss EMS implementation.

5.19	**II**	**Operating Rules update**	**-**	**M. Sherman**	**10**	**09:09 AM**

LMSC P&P Issues

Author:

Matthew Sherman
2nd Vice Chair, IEEE 802
mjsherman@att.com

Date: July 21, 2003

Purpose

- Review current LMSC P&P Issues

Outline

- Clarification to SA recirculation rules
- Issues with CS SAB P&P
- 802 LMSC P&P – current revision
- LMSC P&P revisions in progress
- Possible future revisions
- A new approach to the “rules”

Clarification to SA Recirculation Rules

Status

- March ’03 – Identified that current SA rules were unclear as to what “draft” or standard should be submitted to RevCom for approval
  - Some believed if most recently recirculated draft has less approval should submit prior version of draft
- March ’03 – Raised issue at ProCom. SA clearly intended that only most recent draft could be submitted
- June ’03 – Updated text submitted and approved by ProCom. Currently being balloted by SA SB

SA Balloted Change

IEEE-SA Standards Board Operations Manual

5.5 Submission of proposed standards to the IEEE-SA Standards Board

The Sponsor shall submit all required documentation, including a complete copy of the last balloted draft, in accordance with the most current version of the IEEE-SA Standards Board Working Guide for Submittal of Proposed Standards to the Secretary of the IEEE-SA Standards Board. This submittal shall be made prior to the submittal deadline specified. For the first three quarterly meetings of the year, the submittal deadline shall be at least 40 days before the meeting of the IEEE-SA Standards Board. For the last quarterly meeting of the year, the submittal deadline shall be at least 50 days before the meeting of the IEEE-SA Standards Board.

Issues with CS SAB P&P

Status

- In reviewing CS SAB P&P became aware of “conflicts” with LMSC P&P
- Have inquiry with Jim Moore (VP CS SAB)
  - No response yet

Issues

- When do LMSC P&P changes become effective?
  - CS SAB P&P seem to indicate they must first be balloted by CS SAB
    - See CS SAB P&P Sections 3.3 and 11.0
  - Would prefer P&P effective at end of Plenary when approved
- Which takes precedence – LMSC P&P or Roberts Rules?
  - CS SAB P&P places Robert's Rules are above Sponsor (LMSC) P&P (for instance 802's P&P)
    - See CS SAB P&P Section 2.0
  - Would prefer Robert's Rules placed below LMSC P&P
- Do we pass PARs to **par@computer.org**?
  - We should
    - See CS SAB P&P Section 6.3(d)

LMSC P&P
Current Revision

Status

- An updated revision of the 802 LMSC P&P is now available
  - Dated March 2003
- Does not include bookmarks
- Plan to have future version with bookmarks

LMSC P&P Revisions In Progress

Current P&P Revisions

- WG membership – In process
- Appeals process – In process
- EC Title change – In process
- Unpaid attendees – In process
- Min Sponsor ballot duration - Deferred

WG Membership Ballot

- Incorporated many comments
  - Review current revision for specific changes
- Change of tack
  - Focusing on bringing rules closer to CS SAB P&P
  - Results in almost same changes
- CS SAB has looser rules for initial 3 meetings
  - Similar to Study Group
    - Everyone votes
    - 6 months to develop PAR
  - Chair appointments by Sponsor good for up to 6 months
- CS SAB rules do not account for a new PAR in an existing WG
  - Hence 802 needs SG mechanism to deal with this issue
  - Makes sense to use SG to develop WG attendance since in CS SAB rules this is how it would work without Study Groups
  - Extend SG operating rules into WG if it forms before 3 SG meeting completed
    - Still do work but use SG officers and voting rules
- Trying to minimize peripheral issues incorporated
  - Hibernation, Interim accounting, Chair's discretion, etc

Appeals Process Ballot

- Incorporated most suggested changes
  - Not all of Bill's since felt moved away from intent
    - Will discuss separately with Bill
- Process based on SA SB OM process
- Could have based on CS SAB process
  - Already applicable to us
  - Do we need to define separate rules?
    - Appeals pool missing
    - Different timings
    - Other differences between CS and SA
- Many comments pull us further away from baseline
  - Do we really need requested changes?
- Reviewed 802.20 appeals process but saw no impact
- Do ANSI rules factor in?

EC Title Change Ballot

- Holding off on resolutions till face to face discussions
- Some rough stats
  - "Executive Committee" occurs about 150 times in current P&P
  - SEC occurs about 20
- Can save about 2500 character by using EC abbreviation
  - Roughly 5% of characters in Document
  - "Working Group" occurs more than 200 times
    - Using WG could save about 2100 characters or 4%
- CS SAB uses Sponsor Executive Committee generically
  - Also uses term Executive Committee without "Sponsor" attached
  - Some sponsor may have more than one EC
- Don't know of any conflict calling ourselves EC
  - More appropriate since could have EC over Sponsor Ballot groups (Sponsor EC) and Working Groups (WGEC/)
  - Using generic EC seems simplest and is encouraged by existing LMSC rules

Unpaid Attendees Ballot

- Defer to Bill

Min Sponsor Ballot Duration Ballot

- Defer to Bob Grow

Near term issues for LMSC P&P Revision Process

Current Problems for P&P Revisions

- Was unable to get enough time to review P&P Changes
  - 3 Hours +
  - Did Unpaid Attendees and WG Membership Revisions
  - Still have Appeals and EC Title change to review
  - Need to schedule more time
- Rules meeting conflicts with other meetings
  - Would like to schedule some non-overlapping time

Possible Future LMSC P&P Revions

Possible P&P Revisions

Improve procedures for rules change. Do we follow our current procedures? Current draft also lags behind current changes. Editing conflicts between changes
- Editorial license

Clarify treasury rules based on recent events

Should add references with web pointers similar to 802.11 rules
- Order of precedence
- Update figure 1 / description
- Update front material for reporting structure etc.

Clarify procedural votes

Balloting groups within Working Groups

Clarify Working Group formation process.
- Procedure? Does SAB form, or SEC. Is SAB approved PAR required, or SEC approved?

Clarify procedure for coming out of hibernation
- Officer elections? Membership? etc.

Clarify that numerical votes must be required on any matter brought before the SEC by a WG, SG, or TAG

Rules in general for sponsor ballot

Suspend SEC voting privileges if certain core responsibilities not performed
- Progress reports, Input for project plan etc., failing to respond to ballots

Check usage of Session and meeting
- A Session is a set of meetings per Robert's Rules
- Look particularly at WG membership rules

Abstentions in the Denominator- Required by NY State Law. Howard Frazier ID'ed as issue

In EC e-mail ballot, does chair have the right to extend the length of the ballot, and under what constraints.

Add abbreviations section

rewrite rules around SA model rules

rewrite rules around CS SAB model

A New Approach to the LMSC P&P: Less is More

Current Process and P&P

- Many short comings in current P&P
- Current update process unwieldy
  - Takes forever to make changes
- Ballot form for last set of ballots not effective
  - People did not always uses
    - Sometime made up their own form
  - Put crimp on email dialogue for ballots
  - May try format that is more e-mail friendly
- Need to look into ways of reducing the amount of effort going into rules changes

How to scale back rules efforts?

- Live with it?
  - How many of the changes are really necessary?
- Complete rewrite of P&P?
  - Start with SA model or CS SAB?
  - Assistance from IEEE staff?
  - What do we keep what do we discard from existing rules?
  - How do we keep rules simple?
    - Don't want to get back to where we are today
- How can we improve the update process?
  - Grant editorial licence?
  - Wrap up revisions?
  - Shorter revision cycles?
  - Other ideas?

Meeting Wednesday, 7am to continue Rules change discussions.

5.20	**II**	**802 enews letter/PR - status update**	**-**	**Klerer**	**5**	**09:19 AM**

Has some preliminary PR updates. Final releases are due 7/30.

5.21	**II**	**802 Handoff Executive Committee Study Group update**	**-**	**DJ Johnston**	**5**	**09:24 AM**

802 Handoff ECSG SEC Report

David Johnston

david.johnston@ieee.org

dj.johnston@intel.com

First Session of 802 Handoff ECSG Launched, May 2003

- Attendance
  - Monday – 30
  - Tuesday – 19
  - Thursday – 22
- Total Attendance – 45
- 29 Separate organizations represented

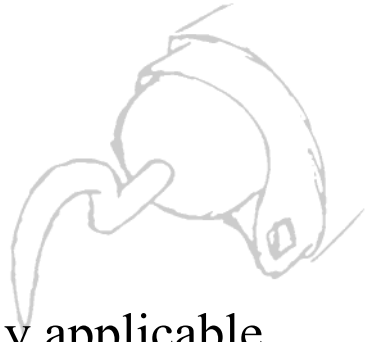
Officers

- Chair
  - David Johnston, Intel
- Reluctant Recording Secretary
  - Paul Lin, Intel
- Vice Chair
  - None, volunteers welcome

Activities

- Technical presentations received
  - DoCoMo, Intel (4), Lucent, Boeing
    - Addressed
      - Mobile IP interdependencies with L2 methods (E.G. L2 Triggers
      - Feasibility of handoff timing
      - Technical aspects of solutions
      - PAR text
- Worked on definitions of problem, scope and PAR
  - To be completed

Solution Space



- Proposed Elements of Solution Include:
  - Layer 2 Triggers, semantics and interface
    - Meets needs of mobile IP handoffs but are generally applicable
  - Handoff decision data
    - Data accessible to mobile stations to enable good and timely handoff decisions
      - May include authentication services required, QoS capabilities, upper layer services present, neighbor AP information, vendor proprietary etc.
      - Needs structure and interface
  - Potential for backbone signalling (no consensus)
  - Does **not** include handoff signalling primitives
    - Handoff-Req/Handoff-Resp etc.

Targets

- Fill out technical issues this session
- Consensus on text for PAR & 5C text by end of September Interim
- Consensus on Placement Issue by end of September Interim
- Submit PAR & Coverletters, Recommendations etc. shortly after September interim

Placement

- Correct placement is non obvious
  - Feedback from SEC sought
- 802.1[xy]
  - For:
    - May not look out of place in 802.1
  - Against:
    - Predominantly wireless issues not the main focus of 802.1 constituency
    - Makes Co-location with wireless groups difficult
    - 802.1 busy with linksec?
- 802 WG
  - For
    - Suitable co-location can be arranged (11/15/16/20)
    - Access to higher concentration of relevant expertise
  - Against
    - Covers wired and wireless, but wireless is the main problem space. Solving for wireless solves for the general case

Continuation

- Request that the SEC re-approve the 802 Handoff ECSG.

DJ will bring a motion on Friday to continue the ECSG through the next plenary.

5.22 II 802.18 Radio Regulatory TAG Status Update - Stevenson 2 09:29 AM

There are some letters that need to be sent from this meeting. The FCC is raising some concern about whether passive scanning is sufficient, as it is used in 802.11d. WRC'03 did grant the 5 GHz allocation.

5.23 II 802.19 Coexistence TAG Status Update - Lansford 5 09:31 AM

Project: IEEE P802.19 Coexistence TAG

Submission Title: Activities/Plans at May 2003 Plenary Meeting in San Francisco
Date Submitted: 21 July 2003
Source: Jim Lansford, Company Mobilian Corporation
Address 7431 NW Evergreen Pkwy, Hillsboro, OR 97124
Voice:+1 405 377 6170, FAX: +1 425 671 6099, E-Mail: jim.lansford@mobilian.com

Re:

Abstract: Review of activities since the May 2003 interim and plans for the July 2003 plenary

Purpose: For discussion

Notice: This document has been prepared to assist the IEEE P802.19. It is offered as a basis for discussion and is not binding on the contributing individual(s) or organization(s). The material in this document is subject to change in form and content after further study. The contributor(s) reserve(s) the right to add, amend or withdraw material contained herein.

Release: The contributor acknowledges and accepts that this contribution becomes the property of IEEE and may be made publicly available by P802.19.

July 2003 Summary and Plans

Jim Lansford, Chair
802.19 Coexistence TAG
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Summary

- Coexistence Guideline document updated
  - Document 03/007r4
- Created ad hoc group to develop coexistence usage models for 802.15.3a
  - Held bi-weekly confernce calls
  - Document 03/020
  - Goal is to develop “most likely” coexistence conflicts in residential, enterprise, kiosk/hot spot, and mobile scenarios
- Charter and operating rules finalized
  - Documents 03/001r3 and 03/002r3
  - Chair has asked for 802 vice-chair (Mat) to review
- Liaison with TIA-41 (cordless phones)
- Liaison with HTSG/802.11n usage ad hoc group

Plans for this week

- Joint session with 802.15.3a
  - Review coexistence usage model document
- Joint session with HTSG/802.11n
  - Review coexistence issues with usage models
- Revise Coexistence Guideline document
  - Goal to complete in September, ratify in November
- Charter and Operating Rules
  - Review by 802?
- Vice chair election

5.24 II 802.1 Security PAR request update and 802.10 status - Jeffree 5 09:36 AM

The security PAR was distributed via email the EC. This is the first of probably 2 or 3 PARs that will come out of this study group. Comments are due 5pm Tuesday.

5.25 II 802.1 change dot1aa and dot1z PARs to revisions of dot1X and dot1Q - Jeffree 2 09:41 AM

The 802.1aa and 802.1z maintenance PARs are going to be changed to full revision PARs. 802.1aa is making significant changes to 802.1X. 802.1z is going to remove references to withdrawn standards and making updates to MAC bridging.

5.26 II RAC meeting update - Jeffree 2 09:43 AM

Thursday, 6pm, is the annual face to face meeting of the RAC.

5.27 II 802.11 High Throughput PAR update - Kerry 2 09:45 AM

PAR and five criteria were sent in March. Comments are due Tuesday at 5pm. The designated chair is Matthew Shoemake.

5.28 II 802.15.1 Revision PAR update - Heile 2 09:47 AM

PAR was distributed five weeks ago. Comments due Tuesday 5pm.

5.29 II 802.16 revised PARs update - Marks 2 09:49 AM

802.16d is a revision PAR to consolidate the base standard and all its amendments. Comments are due Tuesday 5pm.

5.30 II 802.20 WG Update - Thompson 5 09:51 AM

802.20 has been operating with Mark Klerer and Jerry Upton as co-vice chairs, since Geoff's company would not support his acting as chair of 802.20. There will be a requirement to have voters declare their affiliation, which is not necessarily their employer. This is an "ANSI essential requirement" for standards development. There was a request that we implement this requirement and IEEE legal staff concurred.

Gang Wu read a short statement regarding the election of 802.20 officers and appeals process:

COMPUTER SOCIETY STANDARDS ACTIVITIES BOARD

APPEAL BRIEF ON BEHALF OF APPELLANT GANG WU

Submitted July __, 2003

I. INTRODUCTION

Gang Wu was elected to the office of Procedural Vice-Chair by the 802.20 Working Group on March 13, 2003. Despite Mr. Wu's sterling qualifications for the position, the IEEE 802 Sponsor Executive Committee ("SEC") voted the next day not to confirm his election in an extraordinary and unprecedented maneuver that was riddled with major procedural violations and arbitrary decision-making. This submission on Mr. Wu's behalf details the SEC's myriad violations and questionable conduct in the course of the confirmation proceedings. As a result of these improprieties, the non-confirmation vote must be set aside, and Mr. Wu seated in the office to which he was fairly elected, and from which he has been unfairly excluded.

The first section will discuss the factual background of Mr. Wu's election and subsequent non-confirmation. The second section will detail the procedural and substantive violations that occurred in the confirmation proceedings of March 14, 2003. The final sections will discuss the adverse effects of the non-confirmation vote and the appropriate remedy under the circumstances.

II. FACTUAL BACKGROUND

On December 11, 2002, the IEEE-SA Standards Board approved the establishment of IEEE 802.20, the Mobile Broadband Wireless Access Working Group ("802.20 WG").[1] Pursuant to its authority under section 3.1(b) of the Operating Rules of IEEE Project 802 LAN MAN Standards Committee ("802 Operating Rules"), the SEC appointed Mark Klerer to serve as its Interim Chair in November 2002 until the 802.20 WG could hold its own officer elections. *See* 802 Operating Rules, § 3.1(b), attached as Exhibit A. Those elections were scheduled for March 13, 2003 at the Plenary Session in Dallas, Texas.

Mr. Klerer drafted the rules governing the election process. *See* Nominations and Elections of Officers for IEEE Working Group 802.20 at the March 10-13, 2003 Meeting ("802.20 Officer Election Rules"), attached as Exhibit B. The 802.20 Officer Election Rules established various requirements. For example, 802.20 voting rights in the upcoming election would only be established after participation in 75% of the 802.20 WG session meetings. The 802.20 Officer Election Rules also established a

[1] As stated on its website, "the mission of IEEE 802.20 is to develop the specification for an efficient packet based air interface that is optimized for the transport of IP based services. The goal is to enable worldwide deployment of affordable, ubiquitous, always-on and interoperable multi-vendor mobile broadband wireless access networks that meet the needs of business and residential end user markets."

single eligibility requirement for the office of Procedural Vice-Chair: 802.20 membership. Notably, the 802.20 Officer Election Rules impose *no further eligibility requirements* for this office. Finally, the 802.20 Officer Election Rules established that voting would be by secret ballot.

Candidates for the 802.20 elections were nominated prior to the day of the elections pursuant to the 802.20 Officer Election Rules. Candidates included, for Chair: Mark Klerer and Jerry Upton; for Procedural Vice Chair: Gang Wu, Farrokh Khatibi, and Arif Ansari; and for Liaison Vice-Chair: Eshwar Pittampalli, Scott Migaldi and Joanne Wilson. *See* Meeting Minutes of the 802.20 Meeting #1, March 10-13, 2003, Dallas, Texas ("802.20 Draft Meeting Minutes"), pp. 5-6, attached as Exhibit C.

Paul Nikolich, the Chair of the SEC, chaired the 802.20 officer elections with the assistance of other SEC members. Mr. Nikolich read out the 802.20 Officer Election Rules to the assembled 802.20 WG, and distributed voting tokens to qualifying individuals. The candidates then addressed the meeting attendees, providing 802.20 WG members with an opportunity to evaluate the qualifications of the competing candidates. The voting proceeded by secret ballot, and neither the attending SEC members nor WG members made any objections whatsoever to the election or balloting procedures. The winners of the elections were as follows: Jerry Upton - Chair; Gang Wu - Procedural Vice-Chair; and Eshwar Pittampalli - Liaison Vice-Chair. *See* 802.20 Draft Meeting Minutes, pp. 7-9, attached as Exhibit C.[2]

On March 14, 2003, the SEC met to confirm the results of the 802.20 elections. One of the meeting attendees was Mr. Klerer, who had just lost the election for Chair. Despite Mr. Klerer's obvious conflict of interest in considering whether to approve an election that he had just lost, the SEC did not request that Mr. Klerer abstain from the confirmation proceedings. Instead, Mr. Klerer proceeded to give a presentation to the SEC regarding why the 802.20 elections he had just lost should not be confirmed. Mr. Klerer called the propriety of the election process into question by pointing out that a large number of individuals from major 3G companies gained membership in the 802.20 WG without prior Study Group participation, and that these newly minted 802.20 WG members had likewise voted for candidates who did not have prior Study Group experience in 802.20. (As a matter of fact, Mr. Wu *had* participated in the 802.20 Study Group, in addition to his other 802 activities). Following further discussion regarding the elections, Mr. Klerer then made a motion to confirm the election results, spoke against his own motion, and then voted. The final vote on confirmation was: 2 in favor, 4 against, and 8 abstentions. *See* Draft Agenda & Minutes – IEEE 802 LMSC Executive Committee Meeting, March 14, 2003, Dallas Texas ("SEC Draft Meeting Minutes"), pp. 18-20, attached in relevant part as Exhibit D.

[2] The results of the vote were as follows: Chair - Jerry Upton (90) Mark Klerer (80); Procedural Vice-Chair First Vote – Gang Wu (60) Arif Ansari (59) Farrokh Khatibi (52); Procedural Vice-Chair First Runoff - Gang Wu (82) Arif Ansari (82); Procedural Vice-Chair Second Runoff – Gang Wu (92) Arif Ansari (68); Liaison Vice-Chair First Vote - Eshwar Pittampalli (75) Joanne Wilson (53) Scott Migaldi (35); Liaison Vice-Chair First Runoff - Eshwar Pittampalli (87) Joanne Wilson (68). *See* 802.20 Draft Meeting Minutes, pp. 8-9.

According to the SEC Draft Meeting Minutes and subsequent statements from Mr. Nikolich, SEC members have provided two reasons for not confirming the 802.20 officer elections: (1) as initially argued by Mr. Klerer, it was unclear whether the rules for gaining membership at the formation of the 802.20 WG had been appropriately interpreted and followed; and, (2) the candidates did not appear to be qualified due to a lack of sufficient 802 experience. *See* SEC Draft Meeting Minutes, pp. 18-20; SEC e-mails regarding 802.20 election, attached as Exhibit E. Messrs. Upton, Wu and Pittampalli immediately appealed the SEC non-confirmation decision to Mr. Nikolich, who defended his body's decision. *See* Appeals Correspondence, attached as Exhibit F.

In response to concerns regarding the manner in which 802.20 WG membership had been granted prior to the officer elections, the SEC held a formal vote in April to determine whether initial WG membership guidelines had been properly interpreted. On April 30, 2003, Mr. Nikolich announced that the SEC had passed the ballot measure re-affirming the interpretation of initial WG membership rules that had been used to determine membership for purposes of voting in the 802.20 elections. *See* SEC e-mail Ballot re Motion for WG Initial Membership Interpretation, dated April 30, 2003, attached as Exhibit G. Although the SEC had thus approved the manner in which initial WG membership rules had been interpreted in the 802.20 elections, the SEC refused to reconsider its position regarding confirmation. In fact, the SEC has recently been taking steps to hold new elections to seat 802.20 officers, including the position of Procedural Vice-Chair, at the upcoming July Plenary session in San Francisco, despite the serious questions raised in this still-pending appeal.

Pursuant to Section 9.4 of the IEEE Computer Society Standard Activities Board Policies and Procedures ("SAB Policies and Procedures") (attached as Exhibit H), Mr. Wu now requests that the Computer Society Standards Activities Board Appeals Panel remedy the procedurally and substantively flawed non-confirmation vote for the reasons set forth below.

III. ARGUMENT

A. The Non-Confirmation Must Be Voided Due To Procedural Errors.

The SEC has the burden of demonstrating that it complied with all applicable procedures in deciding not to confirm the 802.20 officer elections. *See* SAB Policies and Procedures, § 9.6, attached as Exhibit H. The SEC cannot meet this burden, however, because the non-confirmation vote was rife with procedural violations. For example, a key participant in the confirmation proceedings, Mark Klerer, was not in fact a qualified member of the SEC, and therefore should not have been allowed to make motions or vote on the confirmation. Mr. Klerer's confirmation motion and presentation against confirmation were also invalid because under the applicable procedural rules, a member cannot speak against his own motion. Finally, the SEC (and Mr. Klerer) violated the IEEE Code of Ethics by failing to limit Mr. Klerer's participation in the confirmation proceedings due to Mr. Klerer's personal conflict of interest in determining whether to confirm an election that he had just lost. Each procedural violation, described in more

detail below, provides a separate and independent basis for voiding the SEC's non-confirmation vote.

1. Mark Klerer Was Not a Valid SEC Member Due to his Interim Status.

The Standards Activities Board (SAB) has mandated that SECs operate according to Robert's Rules of Order Revised ("RRO"): "CSSCs [SECs] shall operate under Robert's Rules of Order, Newly Revised." *See* SAB Policies and Procedure, § 4.2, attached as Exhibit H. The RRO provides the basic rule that only "members" are permitted to make motions and vote. *See* RRO, Art. 1, §§ 1-4; Art. VIII, §§ 46-48, attached in relevant part as Exhibit I. Consequently, bonafide membership in the SEC is a prerequisite for making motions and voting on matters during SEC meetings.

Membership requirements in the SEC are set out in Section 3.2 of the 802 Operating Rules (Exhibit A): "Executive Committee membership, including all rights and responsibilities thereof, is acquired by Working Group … Chairs upon appointment to the position of Chair of a Working Group … *and confirmed by the members of the Working Group*…." (Emphasis added). Thus, to acquire all the rights of SEC membership, such as the right to make motions and vote on SEC matters, one must, logically enough, be an SEC member. And, where SEC membership is premised on one's status as a WG Chair, then *confirmation by the WG is a prerequisite to bonafide membership* under Section 3.2 of the 802 Operating Rules.

Although Mr. Klerer purported to act as a member of the SEC with full rights to make motions and vote on SEC matters, he was only an "*interim*" chair of the 802.20 WG, and was *never* confirmed by the members of the 802.20 WG. Thus, Mr. Klerer was never qualified as a SEC member under the SEC's own rules. As he was not a qualified member of the SEC due to his interim status, his actions at the SEC meeting on March 13, 2003 - moving to confirm and then voting on the elections - are void.

The RRO states: "No motion is in order that conflicts with … the assembly's constitution or by-laws, and if such a motion is adopted, even by a unanimous vote, *it is null and void*." (RRO, Art. VIII, §47) (emphasis added). The Bylaws of the SAB state that "meetings of the IEEE-SA Standards Board shall be run in accordance with the parliamentary procedures of Robert's Rules of Order." IEEE-SA Standards Board Bylaws, § 5.1, attached as Exhibit J. Since the RRO limits the right to make motions and vote to "members" only, the non-confirmation vote is null and void since it was brought to the floor upon the motion of a non-member (Mr. Klerer), and then voted on by the same non-member. RRO, Art. 1, §§ 1-4; Art. VIII, §§ 46-48.

Notably, the SEC's response to this major procedural violation has been remarkably inadequate. When Mr. Wu brought this error to Mr. Nikolich's attention in earlier appeals correspondence, Mr. Nikolich replied by relying on section 5.2.1 of the 802 Operating Rules, which simply states, "temporary appointments to fill vacancies…shall be valid until the end of the next plenary session." *See* Appeals

Correspondence, letter dated May 9, 2003 from Paul Nikolich to Gang Wu, p. 2, attached as Exhibit F. While this section addresses the *duration* of the interim appointment, it says nothing about an interim chair's ability to circumvent the requirement in section 3.2 that SEC members be "confirmed by members of the Working Group." Indeed, the section of the 802 Operating Rules Mr. Nikolich relies on, section 5.2.1, addresses *Working Group matters*, and does not govern the subject in dispute, *SEC membership requirements*.[3] Mr. Nikolich has thus far provided *no authority whatsoever* for his proposition that an Interim Chair, who has never been confirmed by its WG, has the right to make motions and vote on SEC matters. Accordingly, since a non-SEC member both moved for the vote, and then voted, on the 802.20 election confirmation, the SEC non-confirmation vote is null and void.

2. Mark Klerer Was Not Permitted to Speak Against his Own Motion.

As stated above, the SAB has mandated that "CSSCs [SECs] shall operate under Robert's Rules of Order, Newly Revised." *See* SAB Policies and Procedure, § 4.2, Exhibit H. The RRO states clearly: "The maker of a motion, though he can vote against it, *cannot speak against his own motion*." RRO, Art. VII, § 42 (emphasis added), Exhibit I. Under this rule, assuming Mr. Klerer was a qualified member of the SEC (which he was not), Mr. Klerer could have either (1) made the motion to confirm the 802.20 elections or (2) spoken against confirmation, but he could not have done both (1) and (2), i.e., spoken against his own motion. Because Mr. Klerer was the moving sponsor of the confirmation vote, he was therefore forbidden from speaking against it. However, Mr. Klerer gave a presentation to the SEC on why the 802.20 elections should not be confirmed. Mr. Klerer called the propriety of the election process into question by pointing out that a large number of individuals from major 3G companies gained membership in the 802.20 WG without prior Study Group participation, and that this new group of 802.20 WG members had likewise voted for candidates who did not have prior Study Group experience in 802.20. As this was a primary reason SEC members have given as to why they either abstained from, or voted against, the confirmation motion, there can be no doubt as to intentions underlying Mr. Klerer's presentation.[4] *See* SEC e-mails regarding the 802.20 election, attached as Exhibit E. Since Mr. Klerer spoke against his own motion, both the motion and his presentation were procedurally out of order as a violation of Art. VII, § 42 of the RRO.

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[3] In his response, Mr. Nikolich also relied on section 5.1.4.3e and Procedure 9 of the 802 Operating Rules. These sections are equally irrelevant as they describe the WG's ability to limit the discretionary power of its Chair by imposing a "Directed Position" on the Chair regarding specific issues. At issue here are not the actions a WG must take to limit the power of its Chair, but rather t*he actions an Interim Chair must take to act on behalf of its WG in the SEC,* i.e., confirmation by the WG.

[4] Mr. Klerer's presentation during the confirmation proceedings was even cited subsequently by SEC members as a basis for questioning the propriety of the 802.20 elections. *See* e-mail from Mike Takefman dated March 18, 2003, attached at Exhibit E ("In my opinion, the sheet shown by Mr. Klerer at the SEC meeting is proof enough that something was up.").

3. Mr. Klerer Tainted The SEC Confirmation Process By Making A Motion And Voting On A Matter In Which He Had A Direct Personal Interest.

Since Mr. Klerer lost the 802.20 elections, he had a direct personal interest in making sure that the election he had just lost would not be confirmed. Accordingly, Mr. Klerer should not have been permitted to make a confirmation motion or vote on an election he had just lost. His direct participation in the confirmation voting process violated the ethical and voting guidelines relating to bias and conflicts of interest.

Rules against conflicts of interest exist in various levels of IEEE policies and operating guidelines. For example, the RRO states: "It is a general rule that no one can vote on a question in which he has a direct personal or pecuniary interest." Art. VIII, § 46. The rule against acting out of a conflict of interest is stated even more broadly in § 7.8 of the IEEE Code of Ethics (Exhibit K), which states: "IEEE members agree … to avoid real or perceived conflicts of interest whenever possible." *See also,* 802 Operating Rules, § 3.4.1 (SEC members must vote as "professionals"); RRO, Art VII, § 43 ("It being a general rule that no member should be present in the assembly when any matter relating to himself is under debate.").

These authorities stand for the well-established rule that no IEEE member shall act on a matter in which the member has a direct personal interest. It cannot be disputed, however, that Mr. Klerer had a strong and direct personal interest in the results of the election he had just narrowly lost for the 802.20 Chair position.[5] Since Mr. Klerer was himself an unsuccessful candidate in the 802.20 elections, he was an interested party in the vote to confirm the elections, and therefore should have been precluded from participating in the confirmation proceedings. The confirmation vote is therefore tainted and invalid because Mr. Klerer brought the confirmation vote to the floor, and then voted on it, despite his disqualifying conflict of interest.

B. The Non-Confirmation Of Mr. Wu Was Improper Because The SEC Has Acted Arbitrarily In Failing To Provide A Reasonable Basis For Its Decision.

Mr. Wu has the burden of demonstrating that the actions of the SEC in the non-confirmation vote were "improper." *See* SAB Policies and Procedures, § 9.6, attached as Exhibit H. The SEC's non-confirmation was improper not only because of the procedural violations outlined above, but also because the SEC has failed to provide a reasonable basis for its decision.[6] In defending the SEC's decision not to confirm Mr. Wu, Mr. Nikolich concluded that "there was an absence of any evidence that the

[5] The defeat may have been especially difficult given Mr. Klerer's incumbent advantage as Interim Chair of the 802.20 WG.

[6] It is in fact unclear that the SEC even has the discretion not to confirm the election given the mandatory language in Section 5.1.2 of the 802 Operating Rules, which states: "LMSC Working Group Chairs and Vice-Chairs *shall be* elected by the Working Group and confirmed by the LMSC Executive Committee." Given this imperative language, any discretion the SEC did possess, if at all, would be narrow and its reasons for non-confirmation well-supported by compelling reasons.

decision was arbitrary." *See* Letter from Paul Nikolich to Gang Wu dated May 9, 3003, p. 4, attached as Exhibit F. In fact, the decision was entirely arbitrary since it was unsupported by any reasonable rationale.[7]

According to the SEC draft meeting minutes and subsequent statements from Mr. Nikolich and other SEC members, SEC members voted not to confirm Mr. Wu for three reasons: (1) it was unclear whether the rules for gaining membership at the formation of the 802.20 WG had been appropriately followed; (2) the winning candidates lacked sufficient 802 experience, and (3) there were allegations of block voting. None of these rationales are reasonable under the circumstances.[8]

1. Questions Regarding The Process Used To Gain Membership At The Formation Of The 802.20 WG Cannot Justify Non-Confirmation Of The Election Because The SEC Has Now Formally Approved That Process Following The Elections.

During and after the confirmation proceedings, SEC members voiced concern that there may have been improprieties in the manner in which 802.20 WG membership was granted prior to the officer elections. *See* SEC Draft Meeting Minutes, Exhibit D; SEC e-mails Regarding the 802.20 Elections, Exhibit E.[9] As the attached documents show, these "alleged improprieties" persuaded SEC members to either abstain from, or vote against, confirmation.

Membership was determined, however, strictly in accordance with the rules drafted by Mr. Klerer himself. More significantly, the *SEC subsequently approved* the manner in which the membership rules for the 802.20 WG were interpreted in determining membership for purposes of voting in the 802.20 elections. *See* SEC e-mail Ballot re Motion for WG Initial Membership Interpretation, dated April 30, 2003, attached as Exhibit G. Having now approved the manner in which membership in the initial 802.20 WG was determined, the SEC can no longer credibly rely on concerns over the initial membership process as a rationale for not confirming the elections. In other words, the SEC cannot base its non-confirmation decision on a membership voting procedure that the SEC itself has blessed as a proper interpretation of existing rules.

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[7] Black's Law Dictionary, the standard in the legal community, defines the term "arbitrary" as: "without fair, solid and substantial cause; … without consideration and regard for facts and circumstances presented;…without adequate determining principle." *See* Black's Law Dictionary, West Publishing Co., 1990, 6th Ed., pp. 104-5, attached as Exhibit L.

[8] In one of Mr. Nikolich's responses, he stated that "there is no official reason for the lack of confirmation." *See* Appeal Correspondence, letter dated May 7, 2003 from Paul Nikolich to Jerry Upton, p. 2, attached as Exhibit F. If the SEC 802 was in fact unwilling to state a rationale for its decision to throw out what were otherwise properly conducted elections, then this position would perhaps best illustrate the arbitrary and capricious nature of the decision.

[9] In fact, during SEC proceedings just prior to the confirmation vote, SEC members attempted (unsuccessfully) to change the membership rules governing newly formed WGs, and to have those rules applied retroactively to the 802.20 elections. See SEC Draft Meeting Minutes, p. 10, Exhibit D.

2. The Allegations Of Block Voting Were Baseless And Should Have Been Immediately Dismissed As Unsupported By Any Evidence.

SEC members also voted against confirmation due to apparent concerns regarding the presence of "block voting" (voting according to corporate rather than individual interests) during the 802.20 elections. *See, e.g., e-mail* from Matt Sherman to Roger Marks dated March 16, 2003 ("the issues of block voting were discussed extensively [at the confirmation hearing]"). (*See* Exhibit E.) Had the SEC taken even the briefest amount of time to analyze the voting patterns in the 802.20 elections, it would have found conclusive proof that there had been *no block voting during the elections*.

According to the block voting allegations, major 3G companies were pitted against emerging companies (membership in these groups was conveniently listed by Mark Klerer in his presentation to the SEC during the confirmation proceedings, attached at Exhibit D, p. 18C). Yet if there really was a conspiracy to elect candidates from major 3G companies, then why would two candidates from major 3G companies *have run against each other* for the Procedural Vice-Chair position (Mr. Wu from DoCoMo and Mr. Khatibi from Qualcomm) and the Liaison Vice-Chair position (Mr. Pittampalli from Lucent and Mr. Migaldi from Motorola)? If there really had been a plan to vote according to major 3G corporate interests (which of course there was not), then running candidates from the same block against each other would obviously have split the vote for the major 3G candidates, and left the emerging company candidates (Mr. Ansari/Nextel running for Procedural Vice-Chair and Ms. Wilson/Arraycomm running for Liaison Vice-Chair) in a strategically advantageous position.

The distribution of votes in the runoff rounds for the Vice Chair positions presents an even more obvious demonstration that there was never any block voting. In the initial round of voting for each of the two Vice Chairs, a candidate from a major 3G company finished last and was therefore disqualified from participating in the subsequent runoff. For Procedural Vice-Chair, Mr. Khatibi (of Qualcomm) finished last with 52 votes, while for Liaison Vice-Chair, Mr. Migaldi (of Motorola) finished last with 35 votes. If there had been block voting, then those who had voted for Messrs. Khatibi and Migaldi in the initial round would have cast their votes in the runoff for another Major 3G candidate (Mr. Wu/DoCoMo for Procedural Vice-Chair and Mr. Pittampalli/Lucent for Liaison Vice-Chair) rather than for emerging company candidates (Mr. Ansari/Nextel for Procedural Vice-Chair and Ms. Wilson/Arraycomm for Liaison Vice-Chair). In fact, nothing of the sort occurred. Rather, the votes for the Major 3G candidates who dropped out *split evenly* between the remaining Major 3G candidate and the emerging company candidate. For example, in the first run-off for Procedural Vice-Chair, Mr. Wu increased his vote tally by 22 votes, while Mr. Ansari increased his vote tally by 23 votes. Likewise, in the run-off for Liaison Vice-Chair, Mr. Pittampalli increased his vote tally by 12 votes while Ms. Wilson increased her vote tally by 15 votes. *See* 802.20 Draft Meeting Minutes, pp. 8-9, Exhibit C.

Since conclusive evidence existed at the time of the confirmation hearings that dismissed the possibility of block voting in the election of Mr. Wu, it is highly disturbing

that the SEC members indulged the block voting rumors rather than engaged in a dispassionate review of the relevant voting patterns. Indeed, it is altogether unclear why the SEC declined to consider these readily available facts during the confirmation proceedings.[10]

3. The SEC's Decision Not To Confirm Mr. Wu's Election Based On A Lack Of Sufficient 802 Experience Was Arbitrary And Unfair.

The SEC voted not to confirm the 802.20 election results in part because the SEC did not believe the candidates had sufficient experience in 802 activities. *See* SEC e-mail Regarding 802.20 Elections, Exhibit E. Significantly, however, the 802.20 Officer Election Rules governing the eligibility requirements for 802.20 Procedural Vice-Chair include only 802.20 WG membership, and *place no requirements whatsoever on the experience level needed to be eligible for the office of Procedural Vice-Chair*. *See* Officer Candidate Eligibility, 802.20 Officer Election Rules, attached as Exhibit B. Of course, Mr. Wu does have experience in both 802 specifically, and the field of wireless communications generally.[11] Yet the SEC never provided Mr. Wu an opportunity to defend his qualifications since it *never* invited Mr. Wu to address the SEC regarding his background or experience. Rather, the SEC summarily ruled in one sweeping motion not to confirm *any* of the elected candidates without considering the merits of Mr. Wu's qualifications or experience on an *individual basis*. The SEC not only failed to provide Mr. Wu the opportunity to defend his entitlement to office, *it never even reviewed Mr. Wu's 802 experience* during the confirmation proceedings. *See* e-mail from Roger Marks, dated March 17, 2003, attached as Exhibit E.[12] How can a decision-making body

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[10] At least one SEC member has openly questioned whether the block voting rumor was simply used by opponents to overturn an undesirable election result. *See* e-mail from Bob O'Hara to Mike Takefman, dated March 19, 2003, attached as Exhibit E:

"I would be very hard to convince that the roughly 25 people [employed by major 3G companies] in the left hand column [of Mark Klerer's March 14, 2003 presentation to the SEC] could be considered to "dominate" a working group [the 802.20 WG] that had a voting membership of more than 180. *Had the folks in the right-hand column won the day, would we be considering if they "dominate" the working group? I very much doubt it*. As I said in my first e-mail in this topic, NO EVIDENCE was presented to support the allegations made at the closing SEC meeting." (emphasis added).

[11] Mr. Wu's considerable research experience includes over 80 reviewed publications and 20 patents in the area of wireless communications. Mr. Wu is a senior member of the IEEE (a member of computer, communication, and vehicular technology societies) and has served as vice chair of the 2003 IEEE Wireless Communications and Networking Conference and GLOBECOM'03. Further, Mr. Wu participated in three 802 meetings including the most recent 802.20 study group meeting. Mr. Wu participated in the Interim Meeting in Monterey, California in September 2002 (802.11 TGi, TGe, WNG meetings), he participated in the Interim Meeting in Florida in January 2003 (802.20 meetings and 802.11 TGi, TGk, WNG meetings), and he participated in 802.11 TGi's ad hoc meetings in Seattle in February 2003.

[12] In his e-mail, Mr. Marks states: "I don't recall hearing any discussion of the candidates for the two Vice-Chair positions, only that there were three candidates for each. I don't know which, if any, of the six Vice-Chair candidates had 802 experience. Perhaps some SEC members knew more about this, but I don't recall the SEC probing the issue in the meeting."

disqualify a duly elected officer for a factual reason which the body never properly investigated and which, in any event, is incorrect?

Notably, the SEC had a full day's notice of Mr. Wu's candidacy prior to the elections. If the SEC was truly concerned about Mr. Wu's experience level, (rather than simply seeking an excuse to overturn an undesired election outcome), the SEC could have notified Mr. Wu that he was not a qualified candidate *prior to the election*. Instead, it was only *after Mr. Wu had won the election* that the SEC decided that Mr. Wu had never been a qualified candidate in the first place. This disturbing *ex-post facto* reasoning is offensive to due process and eminently unfair to both Mr. Wu and the WG members that elected him.[13]

Thus, to the extent the SEC relied on "lack of sufficient experience in 802" as a basis for not confirming Mr. Wu, the SEC *arbitrarily* developed a new requirement for officer eligibility *after the election was over*, and then applied it *retroactively* to Mr. Wu, without ever providing Mr. Wu the opportunity for an individualized determination regarding his qualifications for the Procedural Vice-Chair position. At stake here are the basic principles of fairness and due process. The SEC cannot simply reject the results of a fairly run election based on an eligibility criterion that it introduces *after* the election. Moreover, it cannot simply declare a candidate-elect unfit for the position without ever providing the candidate-elect an opportunity to defend his entitlement to office. Accordingly, the SEC's decision not to confirm Mr. Wu's election to the position of Procedural Vice-Chair must be reversed because it was arbitrary, unfair, and contrary to the most basic principles of due process.

C. Adverse Effect and Damages

As a result of the SEC's dubious decision not to confirm Mr. Wu's election as Procedural Vice-Chair, Mr. Wu has suffered a number of adverse effects. As you can appreciate, Mr. Wu's non-confirmation has left him in the awkward position of having to explain to the professional community why he was removed from an officer position at the IEEE after winning an election. This has hurt Mr. Wu's personal and professional reputation in the global standards community. The only official statement by any SEC member, made by Mr. Nikolich, was that in his personal view, Mr. Wu had little substantive experience in 802. As noted above, this is not true, and if even if it were true, it would be irrelevant since experience has never been a criterion for election in 802 rules.

In addition to damage to Mr. Wu, the SEC's non-confirmation decision has also compromised the reputation of the IEEE as a fair and open venue for global standards development. The troubling decision by the SEC not to confirm the fairly-run elections for arbitrary and unsupported reasons sets a precedent for future such decisions within 802 and possibly within the IEEE overall. Given its now notorious decision not to confirm, confidence in the SEC as an appropriate entity for the proposed 802.20

[13] Indeed, the Appeals Panel must ask itself what sort of election oversight committee finds a candidate unqualified for office only *after* the candidate has been elected.

specifications work has also been damaged. Finally, the uncertainty of leadership defocuses members of 802.20 from important work, while the SEC's statements regarding new officer elections promote a divisive atmosphere.

D. Remedy

The SEC's non-confirmation vote is null and void as a result of the procedural and substantive violations described above. The Appeals Panel must therefore craft a remedy that is fair and equitable to Mr. Wu. The only remedy that will satisfy this requirement is for the Appeals Panel to deem Mr. Wu confirmed for the position of Procedural Vice-Chair effective immediately, and permit him to assume the office to which he was fairly elected.[14]

It has now been four months since the 802.20 WG elected Mr. Wu to office. His term will soon expire at the first plenary session of 2004. Mr. Wu has won the right to serve his WG, and any more delay will only compound the unfairness to Mr. Wu by further eclipsing the time in which he can serve out his term of office.

Finally, the SEC should not be permitted to hold new 802.20 officer elections as a way of "creating facts on the ground" until this appeal is resolved. Mr. Wu's right to assume his office should be decided by the deliberative process of this Appeals Panel and not by further maneuvering by the SEC.

Submitted by:

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[14] It bears noting that the Appeals Panel has broad discretion to fashion an appropriate remedy, including the nullification of the SEC's non-confirmation, and the confirmation of Mr. Wu as Procedural Vice-Chair. *See* SAB Polices and Procedures, § 9.7, attached as Exhibit H ("Consideration may be given to [certain listed] positions, *among others*, in formulating the decision.") (emphasis added).

If an election is held and the appeal is successful, what happens next? If that occurs, the officers that may be elected and confirmed at this meeting will need to relinquish their positions.

5.31	**II**	**802.20 Appeal Update**	**-**	**Thompson**	**5**	**09:56 AM**

5

This item covered in item above.

5.32	**II**	**WG finances policy and procedure update**	**-**	**Quackenbush**	**10**	**10:01 AM**

Report on LMSC WG Financial Operations

Bill Quackenbush, LMSC Treasurer
July 21, 2003

Subject to the following requirements, LMSC Working Groups have been allowed to have non-IEEE hosts for interim sessions without being required to file financial reports.

The non-IEEE host is responsible for the logistical and financial operation of the session and may contract with a meeting planner to do the actual work.

A registration fee may be collected from session attendees to cover the expenses of the session.

The host is responsible for any deficit or surplus from the session.

The hosted WG(s) shall have no beneficial interest in or claim on the session surplus.

At the March 2003 Plenary session, there were indications that one or more of the LMSC Working Groups were not complying with the above interim session hosting rules.

802.11 and 802.15 hold joint interim sessions with a single host and common financial operations

An investigation of 802.11 and 802.15 interim session financial operations has revealed that the two groups began operating with joint treasury after their September 2002 interim session.

> September 2002 interim session surplus of $50.8k and an Operating Reserve of $58.9k at the end of 2002
>
> Entered into a contract, with a duration of multiple months, for a software application and used the operating reserve to make some of the contract payments.

802.11 and 802.15 have subsequently failed to comply with IEEE, Computer Society and LMSC financial reporting requirements, IEEE and Computer Society bank account requirements and IEEE audit requirements.

802.11 and 802.15 have also violated their own Operation Rules on financial operations.

A subcommittee of the LMSC has required that 802.11 and 802.15

> provide reports on their financial operations beginning with their January 2002 interim session to the IEEE, Computer Society and the LMSC,
>
> submit their financial records for 2002 to the IEEE for auditing and
>
> move their funds to a bank account that complies with IEEE, Computer Society and LMSC requirements.

802.17 has also been determined to have begun operation with treasury during 2002.

> Operating reserve of $10.5k at the end of 2002

802.17 subsequently failed to comply with IEEE, Computer Society and LMSC financial reporting requirements and IEEE and Computer Society bank account requirements.

802.17 has not violated any of their Operating Rules on financial operations.

802.17 has also be required to

> provide reports on their financial operations beginning with their January 2002 interim session to the IEEE, Computer Society and the LMSC,
>
> submit their financial records for 2002 to the IEEE for auditing and
>
> move their funds to a bank account that complies with IEEE, Computer Society and LMSC requirements.

The 802.11, 802.15 and 802.17 failures to report their financial operations potentially jeopardize the “not for profit” status of the IEEE.

The LMSC Treasurer has generated and will propose this week a set of changes to the LMSC P&P dealing with Working Group financial operations that place a number of requirements on the financial operations on LMSC Working Groups.

The LMSC Treasurer will commence regularly providing guidance to the Chairs and Treasurers of WG on WG financial operations.

Has the accumulation of funds in 802.11, 802.15, and 802.17 caused 802 to misrepresent our finances to IEEE? This is not a black and white issue. Under the rules that we have, a "small" surplus from an interim meeting could be passed from one interim meeting to another. What is "small"? But these accounts were not represented to the IEEE in the most recent audit package.

A point was made that the members of 802.11 and 802.15 passed motions to increase the meeting fees for specific purposes, such as network improvements. All that has been found in the minutes is a straw poll in the September 2002 minutes.

Another point was made that it is not whether the membership was aware of the issue, but whether the proper financial oversight and reporting was conducted, in order to not endanger the not for profit status of the IEEE.

Moved: To hold an executive session after the EMS tutorial (from 10pm to midnight) to consider disciplinary actions regarding working group financial operations including Karen Rupp and Jim Carlo as observers.
Moved: Bob Grow, Seconded: Geoff Thompson

LMSC operates with a level of privilege that is not provided to other groups. It would be very bad if that privilege were removed because we were seen not to be responsible enough to warrant the privileges.

Passes: 9/0/2

5.33	**II**	**Network Services contract update**	**-**	**Quackenbush**	**5**	**10:11 AM**

LMSC has signed a contract with IDEAL Technologies, in the amount of $15,000 per meeting, $4.5k between meetings, and $4.5k startup fees.

5.34	**II**	**Database status**	**-**	**Rigsbee**	**5**	**10:16 AM**

No update.

5.35	**II**	**Branding Update**	**-**	**McCabe**	**2**	**10:21 AM**

Presentations at each working group will be made.

5.36	**II**	**802.3 Update**	**-**	**Grow**	**2**	**10:21 AM**

802.3aj is expected to go to sponsor ballot.

5.37	**DT**	**Efficient Organization of SEC Business**	**-**	**Marks**	**5**	**10:23 AM**

Roger summarized his point that the way we conduct EC email ballots is totally out of control and needs to be fixed.

5.38	**DT**	**SEC meeting schedule (rules, SA, etc.)**	**-**	**Nikolich**	**1**	**10:28 AM**

SEC Chair's Meetings

TIME	Purpose	Who	Location
MON			
5p-7p			
10p-mid	WG finances—executive session	Nikolich	Boardroom A
TUES			
7a-9a			
9a-11a			
11a-1p			
1p-3p			
3p-5p			
5p-7p			
10p-mid			
WED	7a-9a Rules comment resolution	Sherman	
9a-10a	Get802 discussion	Nikolich/Rupp	Boardroom A
10a-11a	Front Matter discussion	Nikolich/Longman	Boardroom A
11a-1p			
1p-2p	EMS implementation discussion	Nikolich/Frazier	Boardroom A
3p-5p			
THU			
7a-9a			
9a-11a			
11a-1p			
1p-3p			
3p-5p			
5p-7p			
7p-9p			
9p-11p			

5.39	**-**		**10:29 AM**
5.40	**-**		**10:29 AM**
5.41	**-**		**10:29 AM**
5.42			**10:29 AM**
5.43			**10:29 AM**
ADJOURN SEC MEETING	**-**	**Nikolich**	**10:29 AM**

Motion to adjourn

Moved: Carl Stevenson, seconded: Bob Grow

Passes: 9/0/0

6.00	**PL**	**IEEE 802 PLENARY MEETING STARTS**	**-**	**Nikolich**	**60**	**11:00 AM**

IEEE802 Monday Plenary Agenda

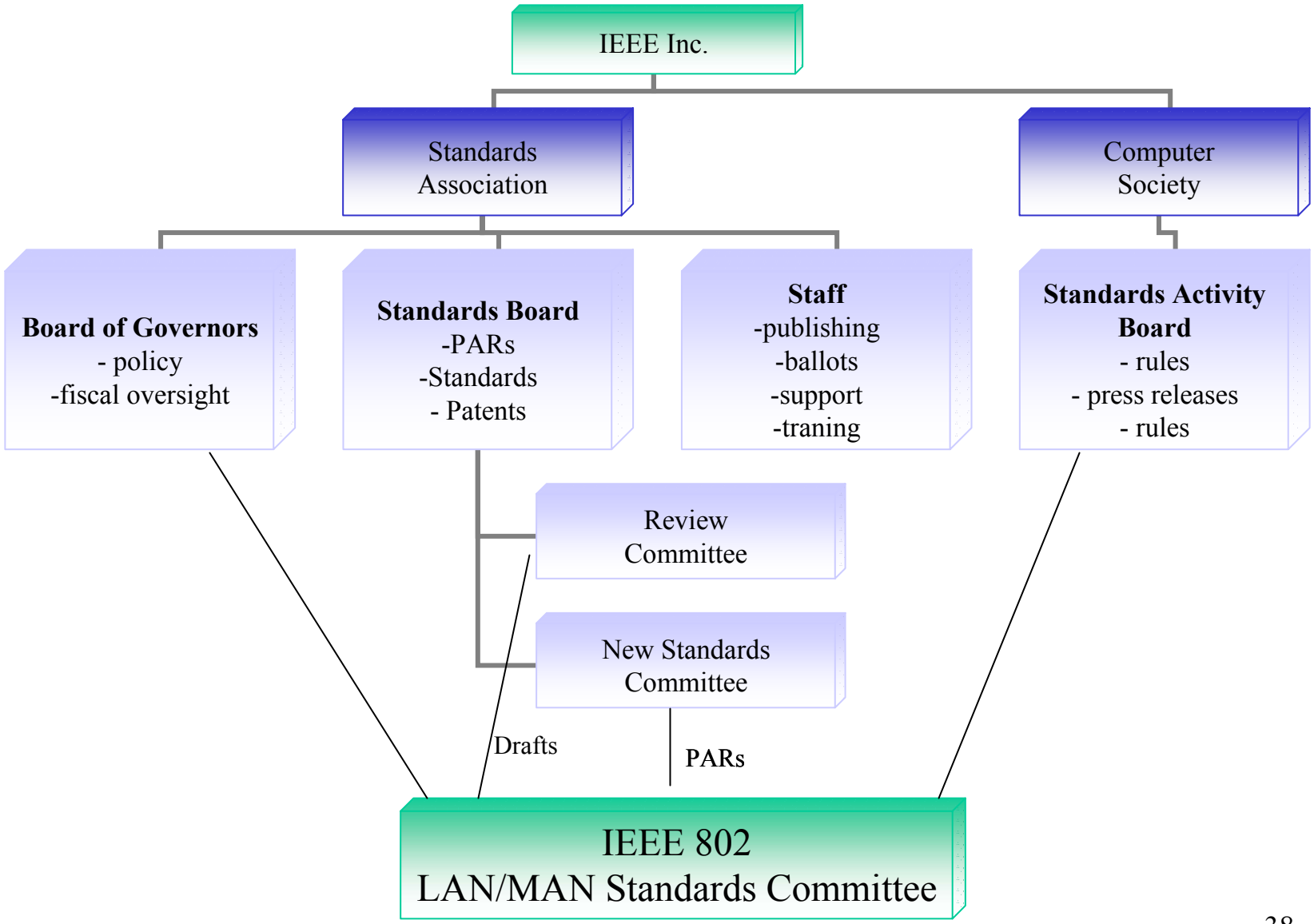
- 11:00 Welcome — Nikolich
- 11:02 Patent Policy and Membership Rules — Thompson
- 11.04 IEEE 802 Operating Rules changes — Sherman
- 11:06 Treasurer's Report — Quackenbush

- 11:10 802.1 Architecture & Interworking — Jeffree
- 11:15 802.3 CSMA/CD (Ethernet) — Grow
- 11:20 802.11 WLAN (Wireless Local Area Network) — Kerry
- 11:25 802.15 WPAN (Wireless Personal Area Network) — Heile
- 11:30 802.16 BWA (Broadband Wireless Access) — Marks
- 11:35 802.17 RPR (Resilient Packet Ring) — Takefman
- 11:40 802.18 Radio Regulatory TAG — Stevenson
- 11:45 802.19 Coexistance TAG — Lansford
- 11:50 802.20 Mobile BWA — Thompson
- 11:55 ECSG 802 Handoff — Johnston

- 11:55 Tutorials — Nikolich
- 11:57 Meeting Arrangements — Rigsbee
- 12:00 ADJOURN
- www.ieee802.org **closing SEC Meeting: 1-6pm, Friday**

Welcome to San Francisco

- Lots of work!
  - Over 30 projects and activities in process


IEEE Inc.
Standards Association
Computer Society
Board of Governors
- policy
-fiscal oversight
Standards Board
-PARs
-Standards
- Patents
Staff
-publishing
-ballots
-support
-traning
Standards Activity Board
- rules
- press releases
- rules
Review Committee
New Standards Committee
Drafts
PARs
IEEE 802
LAN/MAN Standards Committee

IEEE 802 ORGANIZATION

SPONSOR EXECUTIVE COMMITTEE (SEC)

CHAIR
Paul Nikolich

WORKING GROUP/TAG CHAIRS

802.1
BRIDGING/ARCH
Tony Jeffree

802.3
CSMA/CD
Bob Grow

802.11
WLAN
Stuart J. Kerry

802.15
WPAN
Bob Heile

802.16
BWA
Roger Marks

802.17
ResPackRing
Mike Takefman

802.18 TAG
Radio Regulatory
Carl Stevenson

802.19 TAG
Coexistance
Jim Lansford

802.20
MBWA
open

ECSG
Handoff
DJ Johnston

APPOINTED OFFICERS

1st VICE CHAIR
Geoff Thompson

2nd VICE CHAIR
Mat Sherman

EXECUTIVE SECY
Buzz Rigsbee

RECORDING SECY
Bob O'Hara

TREASURER
Bill
Quackenbush

HIBERNATION

802.2 LLC (Dave Carlson)
802.4 Token Bus (Paul Eastman)
802.10 Security (Ken Alonge)
802.5 Token Ring (Bob Love)
802.9 ISLAN (D. Vaman)
802.12 Demand Priority (Pat Thaler)

DISBANDED

802.6 DQDB
802.7 Broadband TAG
802.8 Fiber Optic TAG
802.14 CATV

Patent Policy (from Jan 2002 SA Bylaws)

6. Patents

IEEE standards may include the known use of patent(s), including patent applications, provided the IEEE receives assurance from the patent holder or applicant with respect to patents essential for compliance with both mandatory and optional portions of the standard. This assurance shall be provided without coercion and prior to approval of the standard (or reaffirmation when a patent 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 the proposed IEEE standard against any person or entity using the patent(s) to comply with the standard or

b) A statement that a license 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.

IEEE 802 Membership

5.1.3 Membership
All persons participating in the initial meeting of the Working Group become voting members of the Working Group. Thereafter, voting membership in a Working Group is established by participating in the meetings of the Working Group at two out of the last four Plenary sessions, and (optionally) a letter of intent to the Chair of the Working Group. Membership starts at the third Plenary session. One duly constituted interim Working Group or task group meeting may be substituted for the Working Group meetings at one of the two Plenary sessions (See 5.1.3.5 Meetings and Participation).

Members of the Working Group who have not achieved voting status are known as observers. Liaison members are those designated individuals who provide liaison with other working groups or standards bodies.

LMSC P&P Issues

Author:

Matthew Sherman
2nd Vice Chair, IEEE 802
mjsherman@att.com

Date: July 21, 2003

Purpose

- Review current LMSC P&P Issues

Outline

- Clarification to SA recirculation rules
- Issues with CS SAB P&P
- 802 LMSC P&P – current revision
- LMSC P&P revisions in progress
- Possible future revisions
- A new approach to the “rules”

Clarification to SA Recirculation Rules

Status

- March ’03 – Identified that current SA rules were unclear as to what “draft” or standard should be submitted to RevCom for approval
  - Some believed if most recently recirculated draft has less approval should submit prior version of draft
- March ’03 – Raised issue at ProCom. SA clearly intended that only most recent draft could be submitted
- June ’03 – Updated text submitted and approved by ProCom. Currently being balloted by SA SB

SA Balloted Change

IEEE-SA Standards Board Operations Manual

5.5 Submission of proposed standards to the IEEE-SA Standards Board

The Sponsor shall submit all required documentation, including a complete copy of the last balloted draft, in accordance with the most current version of the IEEE-SA Standards Board Working Guide for Submittal of Proposed Standards to the Secretary of the IEEE-SA Standards Board. This submittal shall be made prior to the submittal deadline specified. For the first three quarterly meetings of the year, the submittal deadline shall be at least 40 days before the meeting of the IEEE-SA Standards Board. For the last quarterly meeting of the year, the submittal deadline shall be at least 50 days before the meeting of the IEEE-SA Standards Board.

Issues with CS SAB P&P

Status

- In reviewing CS SAB P&P became aware of “conflicts” with LMSC P&P
- Have inquiry with Jim Moore (VP CS SAB)
  - No response yet

Issues

- When do LMSC P&P changes become effective?
  - CS SAB P&P seem to indicate they must first be balloted by CS SAB
    - See CS SAB P&P Sections 3.3 and 11.0
  - Would prefer P&P effective at end of Plenary when approved
- Which takes precedence – LMSC P&P or Roberts Rules?
  - CS SAB P&P places Robert's Rules are above Sponsor (LMSC) P&P (for instance 802's P&P)
    - See CS SAB P&P Section 2.0
  - Would prefer Robert's Rules placed below LMSC P&P
- Do we pass PARs to **par@computer.org**?
  - We should
    - See CS SAB P&P Section 6.3(d)

LMSC P&P
Current Revision

Status

- An updated revision of the 802 LMSC P&P is now available
  - Dated March 2003
- Does not include bookmarks
- Plan to have future version with bookmarks

LMSC P&P Revisions In Progress

Current P&P Revisions

- WG membership – In process
- Appeals process – In process
- EC Title change – In process
- Unpaid attendees – In process
- Min Sponsor ballot duration - Deferred

WG Membership Ballot

- Incorporated many comments
  - Review current revision for specific changes
- Change of tack
  - Focusing on bringing rules closer to CS SAB P&P
  - Results in almost same changes
- CS SAB has looser rules for initial 3 meetings
  - Similar to Study Group
    - Everyone votes
    - 6 months to develop PAR
  - Chair appointments by Sponsor good for up to 6 months
- CS SAB rules do not account for a new PAR in an existing WG
  - Hence 802 needs SG mechanism to deal with this issue
  - Makes sense to use SG to develop WG attendance since in CS SAB rules this is how it would work without Study Groups
  - Extend SG operating rules into WG if it forms before 3 SG meeting completed
    - Still do work but use SG officers and voting rules
- Trying to minimize peripheral issues incorporated
  - Hibernation, Interim accounting, Chair's discretion, etc

Appeals Process Ballot

- Incorporated most suggested changes
  - Not all of Bill's since felt moved away from intent
    - Will discuss separately with Bill
- Process based on SA SB OM process
- Could have based on CS SAB process
  - Already applicable to us
  - Do we need to define separate rules?
    - Appeals pool missing
    - Different timings
    - Other differences between CS and SA
- Many comments pull us further away from baseline
  - Do we really need requested changes?
- Reviewed 802.20 appeals process but saw no impact
- Do ANSI rules factor in?

EC Title Change Ballot

- Holding off on resolutions till face to face discussions
- Some rough stats
  - "Executive Committee" occurs about 150 times in current P&P
  - SEC occurs about 20
- Can save about 2500 character by using EC abbreviation
  - Roughly 5% of characters in Document
  - "Working Group" occurs more than 200 times
    - Using WG could save about 2100 characters or 4%
- CS SAB uses Sponsor Executive Committee generically
  - Also uses term Executive Committee without "Sponsor" attached
  - Some sponsor may have more than one EC
- Don't know of any conflict calling ourselves EC
  - More appropriate since could have EC over Sponsor Ballot groups (Sponsor EC) and Working Groups (WGEC/)
  - Using generic EC seems simplest and is encouraged by existing LMSC rules

Unpaid Attendees Ballot

- Defer to Bill

Min Sponsor Ballot Duration Ballot

- Defer to Bob Grow

Near term issues for LMSC P&P Revision Process

Current Problems for P&P Revisions

- Was unable to get enough time to review P&P Changes
  - 3 Hours +
  - Did Unpaid Attendees and WG Membership Revisions
  - Still have Appeals and EC Title change to review
  - Need to schedule more time
- Rules meeting conflicts with other meetings
  - Would like to schedule some non-overlapping time

Possible Future LMSC P&P Revions

Possible P&P Revisions

Improve procedures for rules change. Do we follow our current procedures? Current draft also lags behind current changes. Editing conflicts between changes
- Editorial license

Clarify treasury rules based on recent events

Should add references with web pointers similar to 802.11 rules
- Order of precedence
- Update figure 1 / description
- Update front material for reporting structure etc.

Clarify procedural votes

Balloting groups within Working Groups

Clarify Working Group formation process.
- Procedure? Does SAB form, or SEC. Is SAB approved PAR required, or SEC approved?

Clarify procedure for coming out of hibernation
- Officer elections? Membership? etc.

Clarify that numerical votes must be required on any matter brought before the SEC by a WG, SG, or TAG

Rules in general for sponsor ballot

Suspend SEC voting privileges if certain core responsibilities not performed
- Progress reports, Input for project plan etc., failing to respond to ballots

Check usage of Session and meeting
- A Session is a set of meetings per Robert's Rules
- Look particularly at WG membership rules

Abstentions in the Denominator- Required by NY State Law. Howard Frazier ID'ed as issue

In EC e-mail ballot, does chair have the right to extend the length of the ballot, and under what constraints.

Add abbreviations section

rewrite rules around SA model rules

rewrite rules around CS SAB model

A New Approach to the LMSC P&P: Less is More

Current Process and P&P

- Many short comings in current P&P
- Current update process unwieldy
  - Takes forever to make changes
- Ballot form for last set of ballots not effective
  - People did not always uses
    - Sometime made up their own form
  - Put crimp on email dialogue for ballots
  - May try format that is more e-mail friendly
- Need to look into ways of reducing the amount of effort going into rules changes

How to scale back rules efforts?

- Live with it?
  - How many of the changes are really necessary?
- Complete rewrite of P&P?
  - Start with SA model or CS SAB?
  - Assistance from IEEE staff?
  - What do we keep what do we discard from existing rules?
  - How do we keep rules simple?
    - Don't want to get back to where we are today
- How can we improve the update process?
  - Grant editorial licence?
  - Wrap up revisions?
  - Shorter revision cycles?
  - Other ideas?

IEEE Project 802
Statement of Operations
March 2003 Plenary Meeting
DFW Airport Dallas, TX
As of June 30, 2003

Meeting Income				Actual	Budget	Deviation
	Net Registrations			1,146	900	246
687	Registrations	@ $300	206,100			
459	Registrations	@ $350	160,650			
35	Cancellation	@ $50	1,750			
0	Cancellations	@ $150	0			
1	Other	@ $100	100			
Registraion Subtotal			368,600	368,600	281,250	87,350
0	Deadbeat Payment	@ $300		0	0	0
Interest				104	150	(46)
Other				6,549	0	6,549
TOTAL Meeting Income				375,253	281,400	93,853

Meeting Expenses	Actual	Budget		Deviation
Audio Visual Rentals	7,981	10000		(2,019)
Audit	0	4508		(4,508)
Bank Charges	275	230		45
Copying	4,290	5500		(1,210)
Credit Card Discounts & Fees	9,742	7875		1,867
Equipment Expenses	0	7000		(7,000)
Get IEEE 802 Conttribution	85,050	67500		17,550
Insurance	2,767	3000		(233)
Meeting Administration	62,244	51775		10,469
Misc Expenses	12,260	500		11,760
Networking	10,363	25000		(14,638)
Phone & Electrical	1,534	2100		(566)
Refreshments	77,512	67500	(1)	10,012
Shipping	4,491	3000		1,491
Social	33,777	27000	(2)	6,777
Supplies	490	500		(10)
TOTAL Meeting Expense	312,777	282,988		29,788
NET Meeting Surplus/(Deficit)	62,476	(1,588)		64,064

Notes			
	(1) Refreshments per registration	68	75
	(2) Social per registration	29	30
	(3) Pre-Registration ratio	0.60	0.75

Reserve for unbilled expenses from prior meetings	0
Reserve for other outstanding commitments	1,750
Expenses prepaid for current meeting	9,200
March 2003 Operating Reserve	**220,344**

The executive session of the EC was announced. After a question from a member, Bill clarified that the executive session is a closed session, open only to the EC and those invited to attend.

IEEE 802® Standards published since March 2003

- IEEE Std 802.16a™-2003 (April 1, 2003)
- IEEE Std 802.3af™-2003 (June 18, 2003)
- IEEE Std 802.11g™-2003 (June 27, 2003)
- IEEE Std 802.11F™-2003 (Week of July 14th)

Approved at June 2003 Standards Board meeting

- IEEE 802a™-2003
- IEEE 802.11™ (Reaffirmation)
- IEEE 802.11g™ –2003
- IEEE 802.11F™ –2003
- IEEE Std 802.15.2™-2003
- IEEE Std 802.15.3™-2003
- IEEE Std 802.15.4™-2003
- IEEE Std 802.16/Conformance01™-2003

802® Working Group Award Recipients

- IEEE 802.3af DTE Power
  - Darshan, Dwelley, Karam, Burton, Thaler, Nadeau, Thompson, Grow, Law, Carlson, McCormack, Jetzt, Jones
- IEEE 802.11g Higher speed 2.4GHz
  - Zyren, Terry, Webster, Coffey, Cole, Kerry, Shoemake, Andren, Halford, Heegard, Fischer
- IEEE 802.11F Inter-access point protocol
  - Arbaugh, Hayes, McCann, Moskowitz, Paine, Tsoulogiannis, Vollbrecht, Wu, Aboba, Anton, Kerry, Bagby, O'Hara, Rosdahl
- IEEE 802.16a 2-11GHz broadband wireless access
  - Marks, Roehr, Chang, Kiernan, Van Waes

802.1 – Activities & status

Tony Jeffree, 802.1 WG Chair

21st July 2003

Areas of work

- 802 Architecture
- Interworking between 802 technologies
  - "Technical Plenary" if needed
- MAC Bridging
  - "traditional" bridging
  - VLAN bridging
- Link Security
- LAN management (historical)
- Website: http://www.ieee802.org/1/

Officers

- Chair: Tony Jeffree
- Vice Chair: Neil Jarvis
- Recording Secretary: Michael Wright
- Interworking TG Chair: Mick Seaman
- Link Sec SG Chair: Dolors Sala
- Link Sec SG Secretary: Allyn Romanow
- Maintenance of Email exploder: Hal Keen

Status of current projects - (1)

- 802.1Q - VLANs
  - Reaffirmation ballot completed successfully
  - 2003 Edition of 802.1Q published – incorporates 802.1s, 802.1u, 802.1v
  - PAR for revising the standard will be raised this week (will replace P802.1z) – main work is general cleanup plus alignment with revisions to MAC Bridge standard (802.1D)

Status of current projects - (2)

- P802.1d – Revision of 802.1D (formerly P802.1y)
  - Sponsor ballot completed
  - Comment resolution this week
  - Recirculation ballot in July/Aug time frame
- P802.1aa – Maintenance items for 802.1X
  - WG ballot completed
  - Comment resolution this week
  - This project will be converted into a revision project rather than an amendment

Status of current projects - (3)

- P802a “Playpen Ethertypes”
  - Now published
- Llink layer discovery (P802.1AB)
  - Second Task Group ballot completed
  - New draft available on the 802.1 website
- MAC Service revision (P802.1ac)
  - Initial input generated based on ISO/IEC JTC1 standard 15802-1 plus ISS, E-ISS from 802.1D and 802.1Q

Status of current projects - (4)

- P802.1ad Provider Bridges:
  - PAR now approved
  - Work continuing on candidate mechanisms and input documents
- P802b registration procedures related to the use of OID arcs in 802:
  - Initial WG ballot passed
  - Expect Sponsor ballot in July/Aug timeframe

Status of current projects - (5)

- Link Security SG
  - PAR has been drafted for the development of a secure frame format

IEEE 802.3 Working Group
21 July 2003

Robert M. Grow
Chair, IEEE 802.3 Working Group
bob.grow@ieee.org

802.3 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)
- 802.3ak 10GBASE-CX4: Dan Dove (dan.dove@hp.com)
- 10GBASE-T Study Group: Brad Booth (bradley.booth@intel.com)

P802.3af DTE Power via the MDI

- Specifies power distribution over Ethernet UTP cabling
- June RevCom and Standards Board approval
- IEEE Std 802.3af-2003 published 18 June 2003
- Congratulations to a dedicated group of volunteers!

Will stimulate new applications

http://www.gibsonmagic.com/digitalguitar.html

P802.3ah Ethernet in the First Mile

- Extends Ethernet's capabilities for the access market.
  - 100Mb/s and 1000Mb/s point-to-point fiber
  - Local loop copper
  - Ethernet Passive Optical Network
  - Operations Administration and Maintenance
- Will be preparing for and requesting WG Ballot
  - P802.3af/D1.9 submitted for WG preview

P802.3aj Maintenance #7

- Implement changes to IEEE Std 802.3 per 802.3 change requests
- Sponsor ballot completed
  - P802.3aj/D3.1 sponsor ballot completed with no negatives
  - Only editorial coordination comments
- Process new change requests

P802.3ak 10GBASE-CX4

- Extend XAUI interface to become a 10 GbE PHY for operation over twinax cable
- In Working Group ballot
  - Will be resolving comments to first WG recirculation ballot on P802.3ak/D4.1
  - Prepare for recirculation ballot or sponsor ballot

10GBASE-T Study Group

- 10 GbE PHY for operation over twisted pair copper cable
- SG formed in November
- Meeting plan
  - Technical proposals
  - Work on objectives, PAR and 5 Criteria

Other Activities

- No calls for interest this meeting
- Interpretations, liaison matters, etc.
- 30 years of Ethernet!!!

IEEE 802.3 Standards

- IEEE Std 802.3-2002 (8 Mar 2002)*
- IEEE Std 802.3ae-2002 (30 Aug 2002)*
- IEEE Std 802.3af-2003 (18 Jun 2003)
- IEEE Std 1802.3Rev-2001*

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

This Week's Meetings

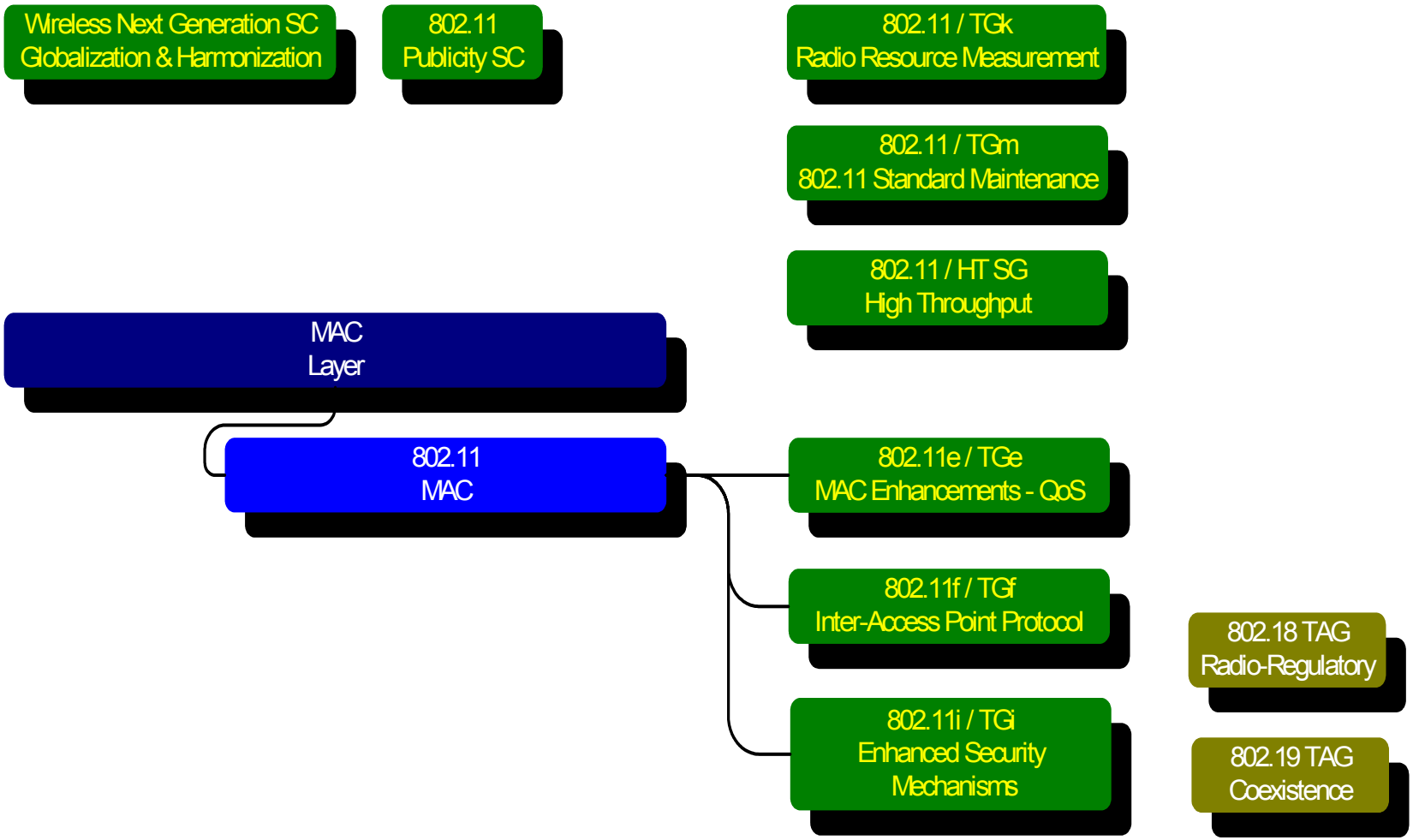
- Opening WG plenary starts at 1:00pm
- TF and SG meetings all day Tues and Wed, and Thurs morning
- Closing plenary Thursday 1:00pm
- 802.3 Web Site: www.ieee802.org/3

80th Session of the IEEE 802.11 WG

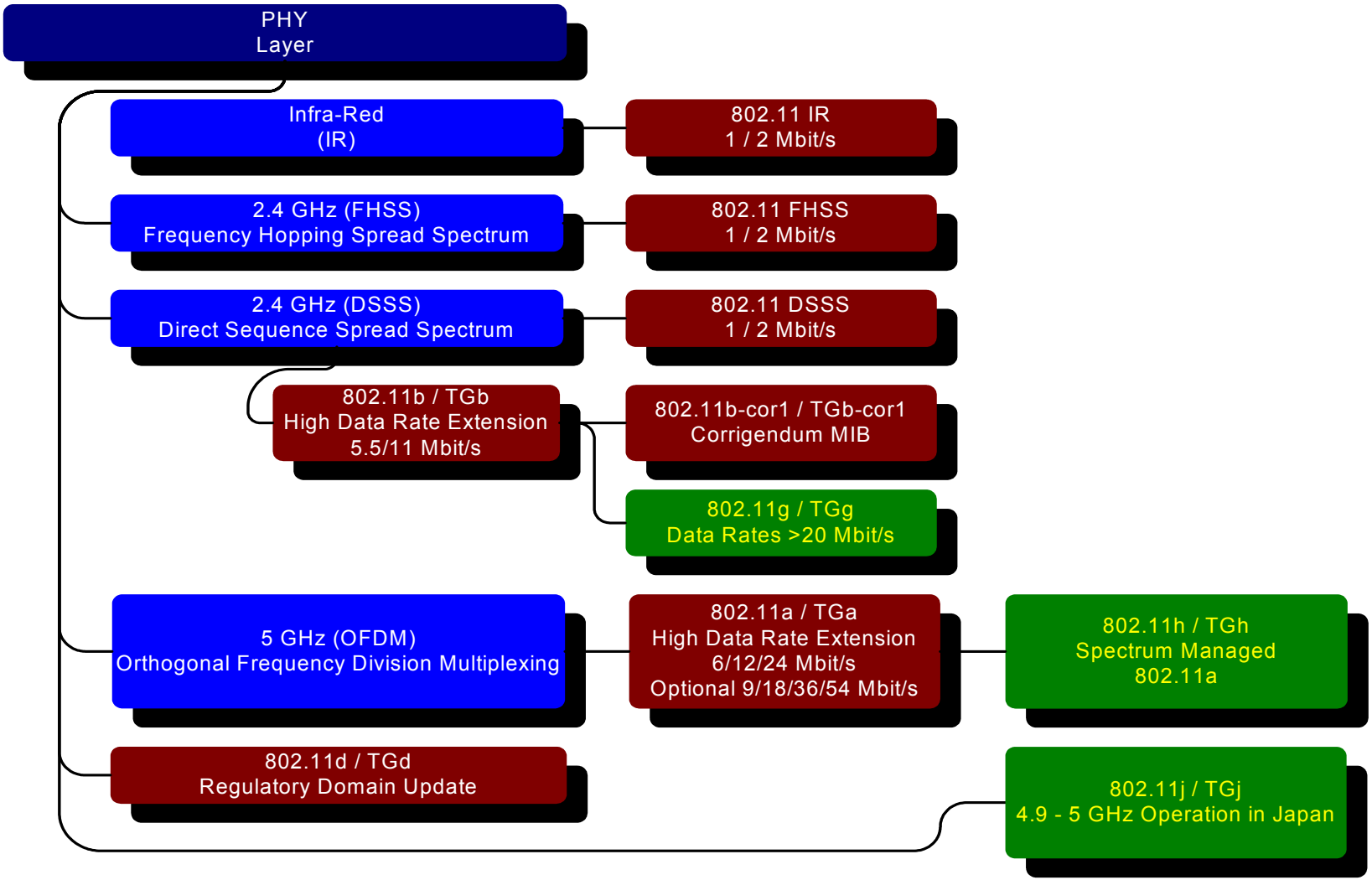
Wireless Local Area Networks

Stuart J. Kerry - Chair, IEEE 802.11 WLANs Working Group
stuart.kerry@philips.com

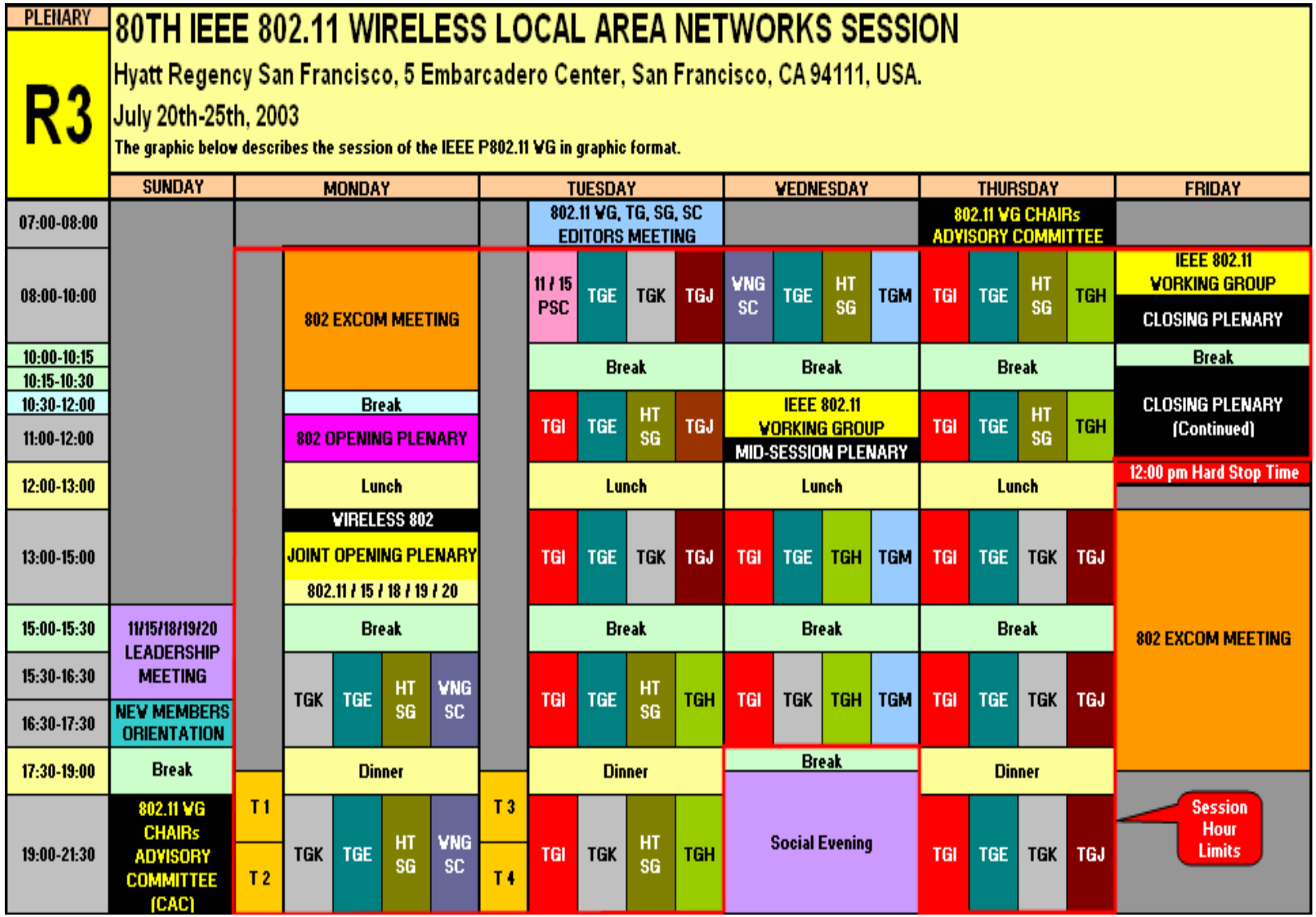
802.11 Activities MAC & Others



802.11 Activities PHY



802.11 Functional Organization Chart


PLENARY
R3
80TH IEEE 802.11 WIRELESS LOCAL AREA NETWORKS SESSION
Hyatt Regency San Francisco, 5 Embarcadero Center, San Francisco, CA 94111, USA.
July 20th-25th, 2003
The graphic below describes the session of the IEEE P802.11 WG in graphic format.
SUNDAY
MONDAY
TUESDAY
WEDNESDAY
THURSDAY
FRIDAY
07:00-08:00
08:00-10:00
10:00-10:15
10:15-10:30
10:30-12:00
11:00-12:00
12:00-13:00
13:00-15:00
15:00-15:30
15:30-16:30
16:30-17:30
17:30-19:00
19:00-21:30
802.11 WG, TG, SG, SC EDITORS MEETING
802.11 WG CHAIRs ADVISORY COMMITTEE
IEEE 802.11 WORKING GROUP
CLOSING PLENARY
802 EXCOM MEETING
Break
802 OPENING PLENARY
Lunch
WIRELESS 802
JOINT OPENING PLENARY
802.11 / 15 / 18 / 19 / 20
11/15/18/19/20 LEADERSHIP MEETING
NEW MEMBERS ORIENTATION
Dinner
802.11 WG CHAIRs ADVISORY COMMITTEE (CAC)
T 1
T 2
T 3
T 4
11 / 15 PSC
TGE
TGK
TGJ
TGI
TGH
TGM
VNG SC
HT SG
IEEE 802.11 WORKING GROUP
MID-SESSION PLENARY
Social Evening
12:00 pm Hard Stop Time
CLOSING PLENARY (Continued)
Session Hour Limits

802.11 WORKING GROUP OBJECTIVES FOR THIS SESSION

CHAIR - STUART J. KERRY /1ST VICE-CHAIR - AL PETRICK /2ND VICE-CHAIR - HARRY WORSTELL /SECRETARY - TIM GODFREY

- Update timeline chart for all 802.11 WG PARs & Projections for Completion
- IEEE 802.11 / ETSI BRAN and MMAC study groups administrative issues & co-ordination
- CAC Co-ordination with WG Chair
- IEEE 802.11-1999 Reaffirmation 2003 Update

TASK GROUP E OBJECTIVES FOR THIS SESSION

802.11 - MAC Enhancements - QoS

CHAIR - JOHN FAKATSELIS / VICE-CHAR - DUNCAN KITCHIN

- To resolve LB#51 comments, generate a new version of the draft and work towards submitting a recirculation Ballo

TASK GROUP H OBJECTIVES FOR THIS SESSION

802.11 - Spectrum Managed 802.11a

CHAIR - MIKA KASSLIN

- Review comments from Sponsor Recirculation Ballot
- Determine if another recirculation needs to be done
- If so, resolve comments, update draft and request recirculation ballot
- If not, affirm task groups approval of the draft
- Update on progress in related matters

TASK GROUP I OBJECTIVES FOR THIS SESSION

802.11 - Enhanced Security Mechanisms

CHAIR - DAVE HALASZ

- Address comments from re-circulation letter ballot 57.

TASK GROUP J OBJECTIVES FOR THIS SESSION

802.11 - 4.9 - 5 GHz Operation in Japan

CHAIR - SHEUNG LI

- Review Japanese Standards Activities
- Letter Ballot Comment Resolution
- Review Technical Presentations
- Update Draft Specification
- Decide Whether or Not to Issue New Letter or Recirculation Ballot as Appropriate

TASK GROUP K OBJECTIVES FOR THIS SESSION

802.11 - Radio Resource Measurements

CHAIR - RICHARD PAINE

- Final RRM Vision and Architecture Document
- Letter Ballot Work
- Technical Presentations

TASK GROUP M OBJECTIVES FOR THIS SESSION

802.11 - Standard Maintenance

CHAIR - BOB O'HARA

- Review any interpretation requests that have been received
- Solicit further interpretation requests
- Plan work schedule to address interpretation requests

PUBLICITY STANDING COMMITTEE OBJECTIVES FOR THIS SESSION

802.11 - Publicity

CHAIR - BRIAN MATHEWS

- Reports from industry groups
  Review draft press release for 802.11TGn
- Discuss press coverage of 802.11 & 802.15
- Discuss any needed communication improvements

WNG STANDING COMMITTEE OBJECTIVES FOR THIS SESSION

802.11 - Wireless LANs Next Generation

CHAIR - TEIK-KHEONG "TK" TAN / VICE-CHAIR - BRUCE KRAEMER

- Updates from WIG, ETSI-BRAN. MMAC, 802.18 and IAG, radio regulatory
- Liaison Updates
- Review and discuss WIG #3 activities and presentations
- Presentations from SDR Forum, ESS Adhoc, TIA-TR41, DSRC SG Proposal
- Prepare for IEEE Interim, September 2003

HT STUDY GROUP OBJECTIVES FOR THIS SESSION

802.11 - High Throughput

CHAIR - JON ROSDAHL

- Prepare final PAR and 5 criterea submission for ExCom Approval
  - Comments to be received by Tues 5 pm, Response Due to ExCom by Wed 5pm.
- Continue Selection criteria following 02-798r7 recommendations:
  - Identify and define usage models, channel models and related MAC and application assumptions
  - Initial usage models envisioned include hot-spot, enterprise and residential; others may be included

FUTURE SESSIONS					
For Year 2003	*Interim Sessions to be Allocated if Required*			**Session**	**Type**
July 20th-25th	Hyatt Regency San Francisco, San Francisco, CA, USA			80	Plenary
	802.11 WG, TGs, SGs & SC Combined Agendas includes the WG Objectives & WG Graphic	XLS			
	Recurring Agenda Information	PDF	or HTML		
	Session Announcement	PDF	or HTML		
	Session Registration	Register Here			
	Other Information:				
	July 2003 Opening 802 Plenary Presentation	*PPT (1)*			
	July 2003 802 Tutorial Agenda	*PDF (1)*	or *HTML (1)*		
	General Information:				
	802.11 WG New Participant Orientation	PDF			
	802.11 WG Current PAR Timelines	PDF			
	IEEE 802 Patent Policy	PDF			
September 14th-19th	Swissôtel The Stamford, Singapore			81	Interim*
	802.11 WG, TGs, SGs & SC Combined Agendas includes the WG Objectives & WG Graphic	*XLS (1)*			
	Recurring Agenda Information	PDF	or HTML		
	Online Session and Hotel Registration	*Register Here (1)*			
	Singapore Tourist Information	Click Here			
	SARS Update	Click Here			
	General Information:				
	802.11 WG New Participant Orientation	PDF			
	802.11 WG Current PAR Timelines	PDF			
	IEEE 802 Patent Policy	PDF			
November 9th-14th	Hyatt Regency Albuquerque, NM, USA			82	Plenary
For Year 2004	*Interim Sessions to be Allocated if Required*			**Session**	**Type**
January 11th-16th	The Fairmont Hotel Vancouver, Vancouver, BC, Canada			83	Interim*
March 14th-19th	Hyatt Orlando, Kissimmee, FL, USA			84	Plenary
May	*To Be Determined (2)*			85	Interim*
July 11th-16th	Portland Hilton & Executive Tower, Portland, OR, USA			86	Plenary
September	*To Be Determined (2)*			87	Interim*
November 14th-19th	Hyatt Regency San Antonio, TX, USA			88	Plenary

Archive, Mailing Lists, URL

- Web Page: http://www.ieee802.org/11/
- Technical Reflector: stds-802-11@ieee.org

- General Mailing List: stds-802-11-m@ieee.org
- Joint 802.11/15 List: stds-802-11-jt11-15@ieee.org
- CAC only List: stds-802-11-cac@ieee.org
- Voter/Nearly List: stds-802-11-voters@ieee.org

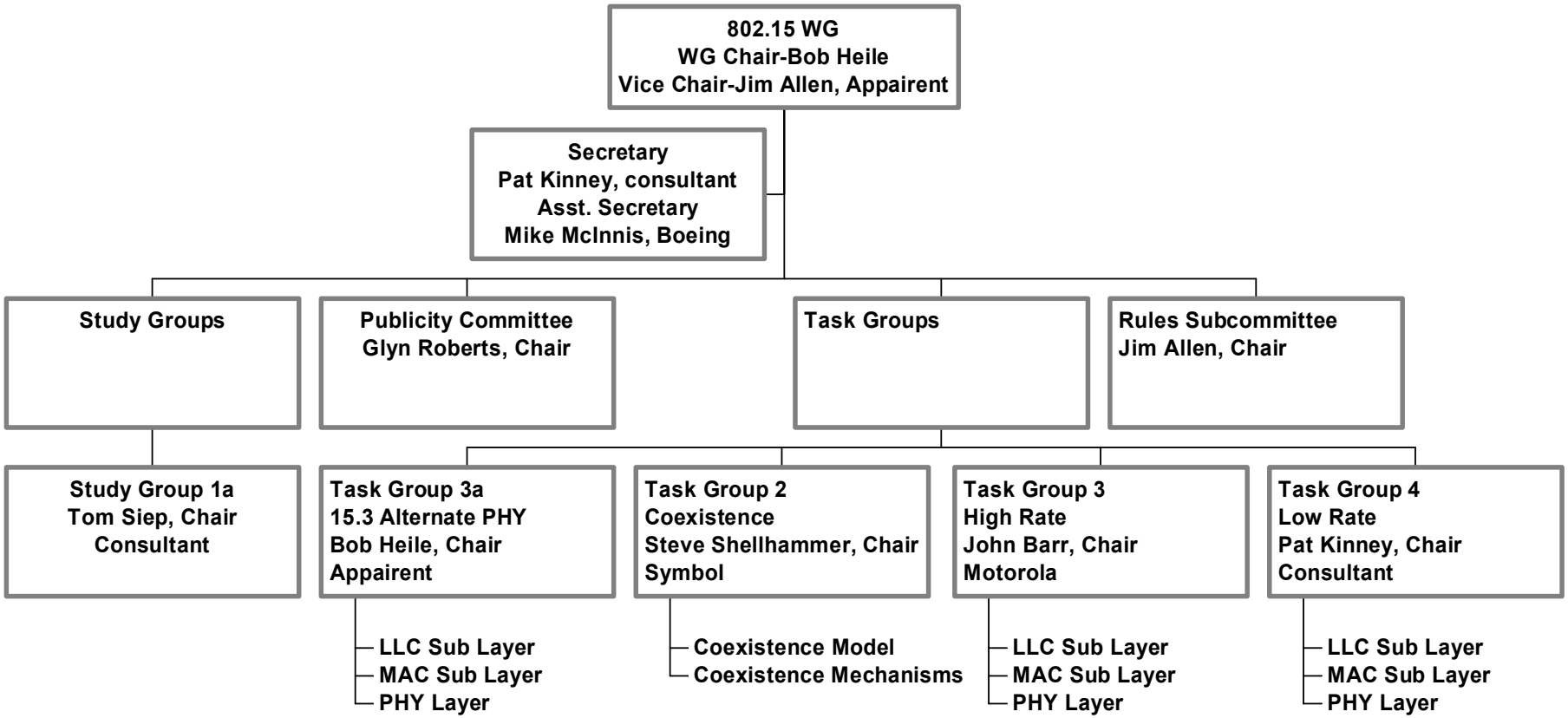
Lists restricted to those on the list to reduce SPAM. To send to the list you must use the exact email address on the list as the 'from' address. Alias addresses such as ieee.org will not work.

To add your name to the IEEE 802.11 WG mailing lists please send an e-mail to the WG 1st Vice-Chair: apetrick@icefyre.com

25th Session of meetings of the IEEE 802.15 Working Group for Wireless Personal Area Networks

July 20th-25th, 2003
Hyatt Regency
5 Embarcadero Center
San Francisco, CA 94111, USA.

802.15 Functional Organization Chart



Archive, Mailing List, URLs

- Web Page: http://www.ieee802.org/15/
- General Mailing List: stds-802-wpan@ieee.org
- Voter/Nearly List: stds-802-15@ieee.org
- TG2 list: stds-802-15-2@ieee.org
- TG3 list: stds-802-15-3@ieee.org
- TG4 list: stds-802-15-4@ieee.org
- TG3a list: stds-802-15-sg3a@ieee.org
- Lists restricted to those on the list to reduce SPAM. To send to the list you must use the exact email address on the list as the 'from' address. Alias addresses such as ieee.org will not work.

To add your name to IEEE mailing list please send an e-mail to alfvin@ieee.org

Objectives of the SFO Meeting
July 21-25, 2003

STUDY GROUP 1a OBJECTIVES FOR THE MEETING

1. SECURE APPROVAL FOR REVISION PAR

TASK GROUP 2 OBJECTIVES FOR THE MEETING

1. MEET WITH IEEE EDITORIAL STAFF

TASK GROUP 3 OBJECTIVES FOR THIS MEETING:

1. Conference call status, including approval of any ad hoc business

2. Review editorial changes required for final draft standard

3. Consider new work or maintenance required

Objectives of the SFO Meeting
July 21-25, 2003

TASK GROUP 3a OBJECTIVES FOR THIS MEETING:

Conduct PHY proposal down selection process

Other contributions (as required and time permits)

TASK GROUP 4 OBJECTIVES FOR THIS MEETING:

1. Review and approve the minutes from the 23rd Session in Dallas, March 2003

2. Review all editorial changes to be suggested to the IEEE SA

3. Consider new work or maintenance required such as Revision, Amendment, Corrigendum.

4. Review work done upon the SDL

SFO Meeting Graphic

R3

25rthIEEE 802.15 WPAN MEETING
Hyatt Regency San Francisco, 5 Embarcadero Center, San Francisco, CA 94111, USA.
July 20th-25th, 2003
The graphic below describes the weekly session of the IEEE P802.15 WG in graphic form

	SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY
07:00-07:30		802.15 AC MEETING			802.15 AC MEETING	
07:30-08:00						
08:00-08:30		802 SEC MEETING	PC with 802.11 / TG3a / TG4 / TG2	TG3a / 802.11 HT SG / TG4	TG3a / 802.11 HT SG / TG3	802.15 WG CLOSING
08:30-09:00						
09:00-09:30						
09:30-10:00						
10:00-10:30		Break	Break	Break	Break	Break
10:30-11:00		Break	TG3a / 802.11 HT SG / TG2	802.15 WG MEETING	TG4 / TG3a / 802.11 HT SG / TG3	802.15 WG CLOSING
11:00-11:30		802 PLENARY				
11:30-12:00		802 PLENARY				
12:00-13:00		Lunch	Lunch	Lunch	Lunch	Lunch
13:00-13:30	Optional	802.11 / 802.15 JOINT OPENING PLENARY	TG4 / TG3a / TG2	TG3a / TG4	TG4 / TG3a / TG3	802 SEC MEETING
13:30-14:00						
14:00-14:30						
14:30-15:00						
15:00-15:30	11 / 15 / R-REG LEADERSHIP MEETING	Break	Break	Break	Break	
15:30-16:00		802.11 HT SG / TG4 / TG3a	TG4 / TG3a / 802.11 HT SG / TG2	TG3a / TG4	TG4 / TG3a / TG3	
16:00-16:30						
16:30-17:00	NEW MEMBERS ORIENTATION					
17:00-17:30						
17:30-18:30	Dinner	Dinner	Dinner	Break	Dinner	
18:30-19:00	Optional Meeting Time	802.11 HT SG / SG1a / IG4a / Tut 1	Optional Meeting Time / 802.11 HT SG / Tut 3	Social	Optional Meeting Time / SG1a / IG4a	
19:00-19:30						
19:30-20:00		Tut 2	Tut 4			
20:00-20:30						
20:30-21:00						
21:00-21:30						

LEGEND

TG3a	Alt 15.3 PHY Task Group	WNG	Wireless Next Generation
TG2	Task Group 2 - COEXISTENCE	TUT	IEEE 802 Tutorials 1, 2, 3 and 4
TG3	Task Group 3 -HIGH RATE WPAN	SEC	802 SPONSOR EXECUTIVE COMMITTEE
TG4	Task Group 4 - LOW RATE		
AC	802.15 ADVISORY COMMITTEE		

Upcoming Meetings for 2003

- Interim-Singapore, Sept 15-19, 2003
- Plenary-Albuquerque, NM Nov 9-14, 2003
- Interim-Vancouver, BC Jan 13-17, 2004

IEEE 802.16 Working Group on Broadband Wireless Access

Roger Marks, Chair

IEEE 802.16
Working Group on
Broadband Wireless Access
(BWA)

802 LMSC Opening Plenary

21 July 2003

Hyatt Regency San Francisco

802.16 Sessions

- #25: 12-15 May 2003
  - Dallas, TX, USA
- #26: 21-24 July 2003
  - San Francisco, CA, USA
- #27: 8-11 September 2003
  - Denver, Colorado, USA
- #28: 9-14 November 2003
  - Albuquerque, NM, USA
- #29: 12-15 January 2004
  - Vancouver, BC, Canada

802.16 Membership

- 58 Members
- 35 Potential Members
- 20 Official Observers

802.16 Projects: 10-66 GHz

Air Interface

IEEE Standard
802.16
Publ: Apr 2002
- MAC
- 10-66 GHz PHY

802.16c (Profiles)
Publ: Jan 2003

Conformance

802.16/Conf01
(PICS)
Appr: June 2003

P802.16/Conf02
Passed WG LB;
to SB this week

P802.16/Conf03
Draft this week

P802.16/Conf04
PAR: future

Coexistence

IEEE Standard
802.16.2
Publ: Sep 2001

802.16 Projects: 2-11 GHz

Air Interface

802.16a
- 2-11 GHz PHY

Publ: April 2003

P802.16d (Profiles)
- PAR: Dec 2002
- WG Ballot open: April 2003
- Changing to Revision

P802.16e
- Mobile Extension
- PAR: Dec 2002
- WG Ballot: July 2003?

Conformance

Coexistence

802.16.2a
- 2-11 GHz
- RevCom: June 2003
- Not approved by IEEE-SA SB
- Changing to Revision

IEEE 802.16a:

- **Approved: 29 January 2003**
- **Published: 1 April 2003**

- **Award Plaques**
  - Working Group Chair
  - Brian Kiernan, Task Group Chair
  - Nico van Waes, Technical Editor
  - Dean Chang, WG/TG Secretary
  - Walt Roehr

Walt Roehr (1939-2002)

P802.16.2a

- **Phil Whitehead, Chair**

- **Coexistence (amendment to IEEE 802.16.2)**
- **RevCom approved draft in June 2003**
- **IEEE-SA Stds Board did not approve**
  - Concern that it should have been a Revision of 802.16.2, not an amendment to 802.16.2
  - IEEE-SA made a compromise offer
- **Reformulation as Revision**
  - 802.16 WG submitted revised PAR
  - Awaiting SEC action this Friday

P802.16d

- Gordon Antonello: Chair, Task Group d

- P802.16d (2-11 GHz System Profiles):
  - Amendment to base standard (802.16/a/c)
  - PAR approved 11 Dec
  - Completed initial WG Letter Ballot and recirc
  - Comment resolution this week
- 802.16 WG submitted PAR to convert project to a Revision
    - Awating SEC approval this Friday

P802.16e

- Brian Kiernan: Chair
- Shawn Taylor, Vice Chair

- 802.16e (Mobility):
  - PAR approved 11 Dec
  - Two Task Group Reviews cycles
    - Call for Comments
  - Comment resolutions this week
  - May agree this week to open WG Letter Ballot

Task Group C (TGC)

- **Ken Stanwood: Chair**
- **Projects renumbered by NesCom**
  - Ended "1802.16.X" format
- **P802.16/Conformance01 (10-66 GHz PICS):**
  - Approved by IEEE-SA Stds Board: 12 June 2003
- **P802.16/Conformance02 (10-66 GHz TSS&TP):**
  - Completed WG Letter Ballot
    - Including two recirculations (no Disapproves)
  - request SEC this Friday to open Sponsor Ballot
- **P802.16/Conformance03 (Radio Conformance Tests):**
  - PAR approved in March 2003
  - expect to open WG Letter Ballot on draft this week

"New Concepts" forum

- Today, 4-6 pm
  - Following Opening Plenary 1-3:30 pm

802.16 Leaders

- Chair: Roger Marks
- Vice Chair: Carl Eklund (resigned)
  - Election today
- Secretary: Dean Chang

- TGC Chair: Ken Stanwood
- TGd Chair: Gordon Antonello
- TGe Chair: Brian Kiernan
- TG2 Chair: Phil Whitehead

Resources

- local server:
  - http://mercury [10.0.1.16]
- permanently:
  - http://WirelessMAN.org

IEEE 802.17 Resilient Packet Ring

Session # 15

Michael Takefman, Chair

http://www.ieee802.org/17
stds-802-17@ieee.org

Officers of RPRWG

- Chair — Mike Takefman
- Vice-Chair — Bob Love
- Secretary — Vinay Bannai
- Editor In Chief — Tom Alexander
- Web-Master — John Hawkins

Current Projects

- 802.17
  - defines a Resilient Packet Ring Access Protocol for use in Local, Metropolitan and Wide Area Networks for transfer of data packets at rates scalable to many gigabits per second.
- 802.17a
  - amendment to 802.1D to add 802.17 support

Session Goals

- WG Ballot on D2.3 Passed
- Comment resolution on D2.3
- Authorize D2.4 & Recirculation
- Adhoc meeting on future work

802.17 Meeting Schedule

	Mon	Tues	Wed	Thurs
8-12			Plenary	Plenary
		CR-A	CR-A	
		CR-B	CR-B	
		CR-C	CR-C	
12-6	Plenary	CR-A	CR-A	
		CR-B	CR-B	
		CR-C	CR-C	
6-12		CR-A	CR-A	
		CR-B	CR-B	
		CR-C	CR-C	
	Fairness AH	Future Work		

Proposed Interim Sessions

- Dates and locations still fluid
  - One or Two interim's depending on ability to spin draft and run a recirculation
- Session 16a
  - August 25-28, 2003
  - San Jose
- Session 16b
  - September 22-25, 2003
  - Las Vegas

802.18 will be meeting after the joint wireless meeting and throughout the week. There are several items for which a response is required. Experts in 802.11d are requested to attend to respond to FCC concerns that have been expressed to various individuals.

Project: IEEE P802.19 Coexistence TAG

Submission Title: Activities/Plans at May 2003 Plenary Meeting in San Francisco
Date Submitted: 21 July 2003
Source: Jim Lansford, Company Mobilian Corporation
Address 7431 NW Evergreen Pkwy, Hillsboro, OR 97124
Voice:+1 405 377 6170, FAX: +1 425 671 6099, E-Mail: jim.lansford@mobilian.com

Re:

Abstract: Review of activities since the May 2003 interim and plans for the July 2003 plenary

Purpose: For discussion

Notice: This document has been prepared to assist the IEEE P802.19. It is offered as a basis for discussion and is not binding on the contributing individual(s) or organization(s). The material in this document is subject to change in form and content after further study. The contributor(s) reserve(s) the right to add, amend or withdraw material contained herein.

Release: The contributor acknowledges and accepts that this contribution becomes the property of IEEE and may be made publicly available by P802.19.

July 2003 Summary and Plans

Jim Lansford, Chair
802.19 Coexistence TAG
Jim.lansford@ieee.org
+1 405 377 6170

Summary

- Coexistence Guideline document updated
  - Document 03/007r4
- Created ad hoc group to develop coexistence usage models for 802.15.3a
  - Held bi-weekly confernce calls
  - Document 03/020
  - Goal is to develop “most likely” coexistence conflicts in residential, enterprise, kiosk/hot spot, and mobile scenarios
- Charter and operating rules finalized
  - Documents 03/001r3 and 03/002r3
  - Chair has asked for 802 vice-chair (Mat) to review
- Liaison with TIA-41 (cordless phones)
- Liaison with HTSG/802.11n usage ad hoc group

Plans for this week

- Joint session with 802.15.3a
  - Review coexistence usage model document
- Joint session with HTSG/802.11n
  - Review coexistence issues with usage models
- Revise Coexistence Guideline document
  - Goal to complete in September, ratify in November
- Charter and Operating Rules
  - Review by 802?
- Vice chair election

802.20 Status and Session #3 Activities Overview

- Three e-mail Correspondence Groups formed during the May session:
  - Requirements: stds-80220-requirements@ieee.org
  - Channel and Traffic Models: stds-80220-ch-models@ieee.org
  - Evaluation Criteria: stds-80220-eval-criteria@ieee.org
- July Session Activities
  - Officer nominations (Monday) and elections (Thursday)
  - Readout and progression of Correspondence Group work:
    - Requirements (Tuesday)
    - Channel and Traffic Models (Tuesday – Wednesday)
    - Evaluation Criteria (Wednesday)
    - Potential drafting activities (Wednesday and Thursday)
- Local website: http://neptune/mbwa/index.html

802 Handoff ECSG Status & Activity Report

David Johnston, Chair

david.johnston@ieee.org
dj.johnston@intel.com

First Session of 802 Handoff ECSG, May 2003

- Attendance
  - Monday – 30
  - Tuesday – 19
  - Thursday – 22
- Total Attendance – 45
- 29 Separate organizations represented

Officers

- Chair
  - David Johnston, Intel
- Reluctant Recording Secretary
  - Paul Lin, Intel
- Vice Chair
  - None, volunteers welcome

Meeting Times & Places

- 10.30am – 12.00am
- Tuesday: PC H / PC I
- Wednesday: PC H/ PC I
- Thursday: Seacliff A

Activities

- Mobile IP interdependencies with L2 methods (E.G. L2 Triggers)
- Feasibility of handoff timing
- Technical aspects of solutions
- PAR text
- Definitions of problem, scope and PAR
- Placement

Solution Space

- Does **not** include handoff signalling primitives
  - Handoff-Req/Handoff-Resp etc.

- Proposed Elements of Solution Include:
  - Layer 2 Triggers, semantics and interface
    - Meets needs of mobile IP handoffs but are generally applicable
  - Handoff decision data
    - Data accessible to mobile stations to enable good and timely handoff decisions
      - May include authentication services required, QoS capabilities, upper layer services present, neighbor AP information, vendor proprietary etc.
      - Needs structure and interface
  - Potential for backbone signalling. More work required

Placement

- Correct placement is non obvious
  - Feedback from SEC sought
- 802.1[xy]
  - For:
    - May not look out of place in 802.1
  - Against:
    - Predominantly wireless issues not the main focus of 802.1 constituency
    - Makes Co-location with wireless groups difficult
    - 802.1 busy with linksec?
- 802 WG
  - For
    - Suitable co-location can be arranged (11/15/16/20)
    - Access to higher concentration of relevant expertise
  - Against
    - Covers wired and wireless, but wireless is the main problem space. Solving for wireless solves for the general case

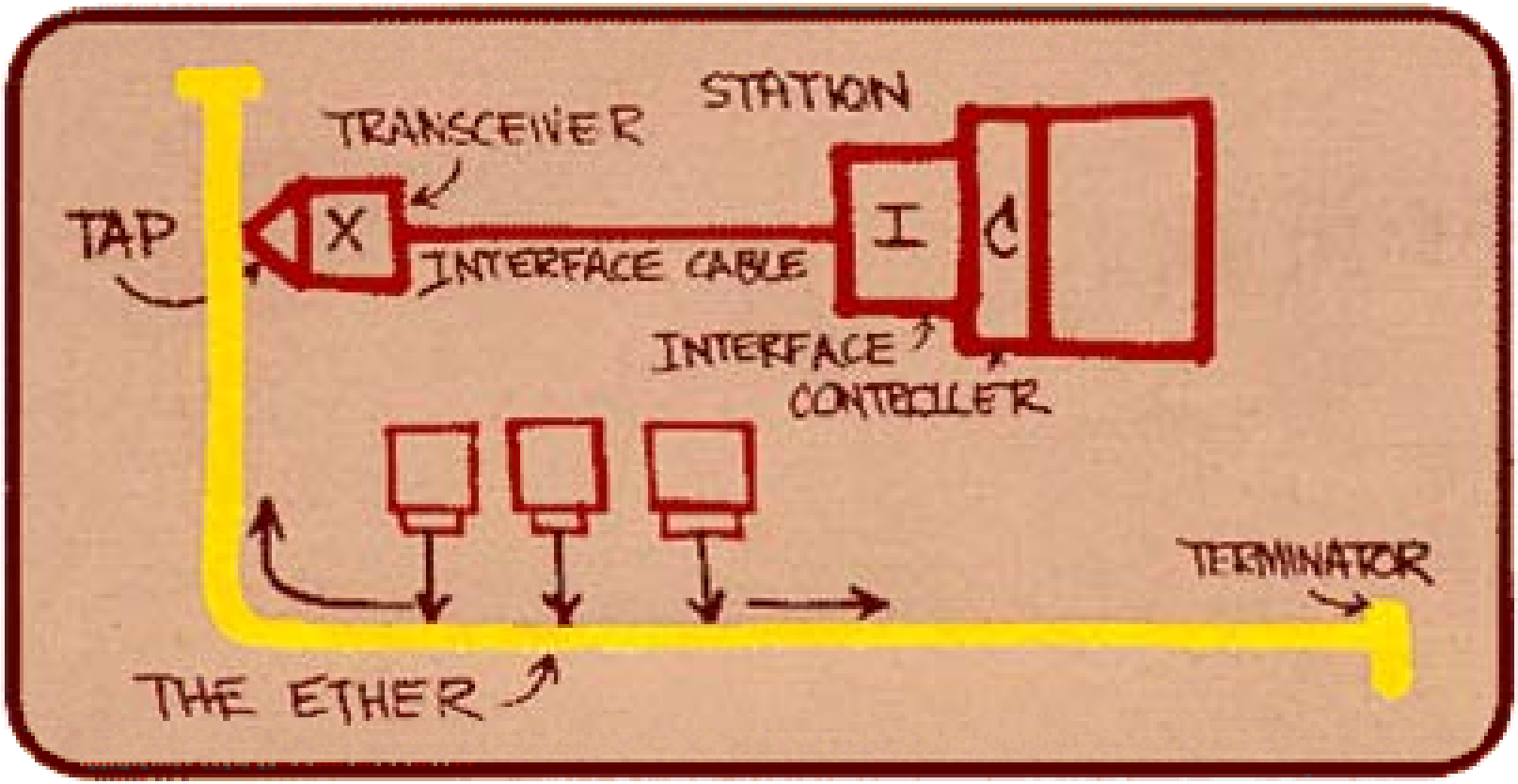
Targets

- Fill out technical issues this session
- Consensus on text for PAR & 5C text by end of September interim
- Consensus on placement issue by end of September interim
- Submit PAR and related documents based on SG approval during September interim

Tutorial Schedule

Monday	**Tuesday**
Data Center Design (Grow) 6:30-8:00pm	open 6:30-8:00pm
Education, Mentoring &Support (Nikolich) 8:00-9:30pm	Ethernet Retrospective (Thompson) 8:00-9:30pm

Ethernet in 1973



e @ 30+
Ethernet Retrospective

Tuesday evening event

8:00 to 9:30 PM

Speakers:

- Ethernet Invention, Early Dev. & Deploym't
  - Bob Metcalfe
  - Dave Boggs
  - Ron Crane
- Ethernet: Early 802 Stds Development
  - Bob Printis (Xerox at the time)
  - Gary Robinson (DEC at the time)
  - Rich Seifert (DEC at the time)

6.01 PL IEEE 802 PLENARY MEETING ENDS 12:00 PM

5 The meeting was adjourned at 12:25pm

Respectfully Submitted,
Bob O'Hara
Recording Secretary