



5.04	II	Drafts to Revcom	-	Nikolich	2	08:18 AM
5.05			-			08:20 AM
5.06						08:20 AM
SA items						
5.06	II	802 Task Force update	-	Nikolich	5	08:20 AM
5.07	II	Request to SA board to clarify recirc ballot rules (5.4.3.2 of Ops Manual)	-	Sherman	2	08:25 AM
5.08	II	Get IEEE802 program update	-	Walker	5	08:27 AM
5.09	II		-			08:32 AM
5.10	II		-			08:32 AM
5.11	II		-			08:32 AM
5.12	II		-			08:32 AM
5.13	II		-			08:32 AM
5.14						08:32 AM
5.15						08:32 AM
LMSC items						
5.16	MI	LMSC Meeting Fee Waivers	-	Nikolich	2	08:32 AM
5.17	II	Tutorial schedule	-	Thompson	5	08:34 AM
5.18	II	Education, Mentor, Support Update	-	Frazier	2	08:39 AM
5.19	II	Operating Rules update	-	M. Sherman	5	08:41 AM
5.20	II/MI	802 enews letter/PR	-	Klerer	5	08:46 AM
5.21	II	802 Handoff EC Study Group update (PAR announcement)	-	DJ Johnston	5	08:51 AM
5.22	II	802.18 Radio Regulatory TAG Status Update	-	Stevenson	5	08:56 AM
5.23	II	802.19 Coexistence TAG Status Update	-	Lansford	5	09:01 AM
5.24	II	802.17 to Sponsor Ballot/Vice chair election	-	Takefman	1	09:06 AM
5.25	II	802.16/Conformance02 to RevCom (presubmitted)	-	Marks	1	09:07 AM
5.26	II	802.16.2-REVa to RevCom	-	Marks	1	09:08 AM
5.27	II	802.16/Conformance03 to sponsor ballot	-	Marks	1	09:09 AM
5.28	II	802.16-REVD to sponsor ballot (conditional approval)	-	Marks	1	09:10 AM
5.29	II	802.1 Key Agreement PAR announcement	-	Jeffree	1	09:11 AM
5.30	II	802.3 10GBASE-T PAR announcement	-	Grow	1	09:12 AM
5.31	II	802.11e/802.11i to sponsor ballot	-	Kerry	1	09:13 AM
5.32	II	802.11 DSRC SG name change	-	Kerry	1	09:14 AM
5.33	II	802 Reorganization	-	Nikolich	10	09:15 AM
5.34	II		-		2	09:25 AM
5.35	II	WG finances policy and procedure update (compliance)	-	Nikolich	5	09:27 AM
5.36	II	Network Services contract update	-	Rigsbee	5	09:32 AM
5.37	II	Wireless bridge evaluation test	-	Rigsbee	1	09:37 AM
5.38	MI	Network services press release	-	Rigsbee	4	09:38 AM
5.39	MI	Interpretation of P&P on when officers assume their office	-	O'Hara	5	09:42 AM
5.40	II	802.20 Appeal Update	-	Nikolich	5	09:47 AM
5.41	MI	Confirmation of election of Jerry Upton as chair of 802.20	-	Nikolich	10	09:52 AM
5.42	MI	Confirmation of election of Gang Wu as vice-chair of 802.20	-	Nikolich	10	10:02 AM
5.43	MI	Confirmation of election of Eshwar Pittampalli as vice-chair of 802.20	-	Nikolich	10	10:12 AM
5.44	DT	SEC meeting schedule (rules, SA, etc.)	-	Nikolich	3	10:22 AM
		ADJOURN SEC MEETING	-	Nikolich		10:25 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

Special Orders

2.00	MI	APPROVE OR MODIFY AGENDA	-	Nikolich	4	08:01 AM
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5 Motion: to approve the agenda.  
Moved: Jeffree/Sherman

Passes: 11/0/0

3.00	*	APPROVE / MODIFY MINUTES OF PREVIOUS MEETING	-	Nikolich	0	08:05 AM
3.01	*	Approve/Modify Minutes of March 14, 2003	-	Nikolich	0	08:05 AM
3.02			-			08:05 AM
4.00	II	TREASURER'S REPORT	-	Quackenbush	5	08:05 AM

10

**IEEE Project 802  
Statement of Operations  
July 2003 Plenary Meeting  
San Francisco, CA  
As of October 31, 2003**

Meeting Income	Actual	Budget	Deviation
<b>Net Registrations</b>	<b>1,378</b>	1,100	278
691 Registrations @ \$300	207,300		
687 Registrations @ \$350	240,450		
17 Cancellation @ \$50	850		
0 Cancellations @	0		
1 Other @ \$100	100		
Registraion Subtotal	<u>448,700</u>	346,500	102,200
0 Deadbeat Payment @ \$350	0	0	0
Interest	67	150	(83)
Other	100	0	100
<b>TOTAL Meeting Income</b>	<u><u>448,867</u></u>	<u><u>346,650</u></u>	102,217
Meeting Expenses	Actual	Budget	
Audio Visual Rentals	9,614	10000	386
Audit	4,509	0	(4,509)
Bank Charges	215	278	64
Copying	2,571	5500	2,929
Credit Card Discounts & Fees	11,381	9356	(2,025)
Equipment Expenses	3,309	7000	3,691
Get IEEE 802 Contribution	102,675	82500	(20,175)
Insurance	0	0	0
Meeting Administration	71,289	60760	(10,529)
Misc Expenses	3,781	1000	(2,781)
Networking	33,126	30500	(2,626)
Phone & Electrical	1,823	2100	278
Refreshments	105,191	88000 (1)	(17,191)
Shipping	2,446	2000	(446)
Social	93,497	38500 (2)	(54,997)
Supplies	788	500	(288)
<b>TOTAL Meeting Expense</b>	<u><u>446,215</u></u>	<u><u>337,994</u></u>	(108,221)
<b>NET Meeting Surplus/(Deficit)</b>	<u><u>2,652</u></u>	<u><u>8,657</u></u>	(6,004)
Notes (1) Refreshments per registration	76	80	4
(2) Social per registration	68	35	(33)
(3) Pre-Registration ratio	0.50	0.75	
Reserve for unbilled expenses from prior meetings	0		
Reserve for other outstanding commitments	3,130		
Expenses prepaid for current meeting	9,200		
<b>November 2003 Operating Reserve</b>	<u><u>220,259</u></u>		

This meeting (Albuquerque plenary) will likely run a small deficit. We are not trying to build the operating reserve at this time.

There will be a working group financial operations tutorial this evening. Every working group is required to have at least one representative in attendance.

5

**4.01** - **08:10 AM**

<b>Stds Board items</b>
-------------------------

**5.00 II Sept Stds Board Actions (approved projects, standards, withdrawals) - Nikolich 2 08:10 AM**

# September 2003 Stds Board Actions

## Standards Approved

### **Reaffirmation (1):**

**802.1Q-1998** Virtual Bridged Local Area Networks [Also: 802.1s-2002; 802.1u-2001; 802.1v-2001]

### **New (2):**

**P802.3aj/D3.1** Part 3: Carrier Sense Multiple Access with Collision Detection (CSMA/CD) Access Method and Physical Layer Specifications - Maintenance #7

**P802.11h/D3.11** Part 11: Wireless LAN Medium Access Control (MAC) and Physical Layer (PHY) Specifications - Spectrum and Transmit Power Management Extensions in the 5 GHz Band in Europe

# September 2003 Stds Board Actions

## Projects Approved

### New PARs (2):

**P802.1AE** Standard for Local and Metropolitan Area Networks: Media Access Control (MAC) Security

**P802.11n** Amendment to STANDARD [FOR] Information Technology-Telecommunications and information exchange between systems-Local and Metropolitan networks-Specific requirements-Part 11: Wireless LAN Medium Access Control (MAC) and Physical Layer (PHY) specifications: Enhancements for Higher Effective Throughput

### PAR for the Revision of Standards (3):

**P802.16.2a** Local and Metropolitan Area Networks - Recommended Practice for Coexistence of Fixed Broadband Wireless Access Systems *Recommendation:* Approve revised PAR until December 2005, changing the project number to **P802.16.2-REVa**.

**P802.16d** Standard for Local and metropolitan area networks - Part 16: Air Interface for Fixed Broadband Wireless Access Systems *Recommendation:* Approve revised PAR until December 2006, changing the project number to **P802.16-REVd**

**P802.15.1a** Standard for Telecommunications and Information Exchange Between Systems -LAN/MAN Specific Requirements - Part 15.1a: Wireless Medium Access Control (MAC) and Physical Layer (PHY) specifications for Wireless Personal Area Networks (WPAN)] *Recommendation:* Approve PAR for the revision of a standard until December 2007, changing the project number to **P802.15.1-REVa** and removing the bracket at the end of the title.

5.01 II Stds due for Maintenance and/or revision

- Nikolich

2 08:12 AM



# Standards Due for 5 year review end of 2003

## Scheduled for Withdrawal at Dec 2003 Stds Board meeting:

**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)]

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

## Scheduled for REAFFIRMATION at Dec 2003 Stds Board meeting:

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

**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]



# PARs to NesCom

- **802.0 ECSG**
  - 802 Handover
- **802.1**
  - Key Agreement



# Drafts to (or in) Sponsor Ballot

- Dot 1
  - 802b O&A Ammendment 2: Registration of Object Identifiers
  - 802.1d
- Dot 3
  - 802.3 ak 10GBASE-CX4
- Dot 11
  - 802.11e QoS Enhancement
  - 802.11i MAC Security Enhancements
- Dot 16
  - 802.16/Conformance03
  - 802.16-REVd



# Drafts to RevCom

- New
  - 802.16 conformance02
  - 802.16.2-REVa
- Reaffirmation
  - none

5.05

-

08:20 AM

5.06

08:20 AM

5

SA items

08:20 AM

5.06 II

802 Task Force update

-

Nikolich

5

08:20 AM



# IEEE-SA/802 Task Force

- Meeting held September 10, 2003
  - Topics:
    - GetIEEE 802 program update
    - EMS update
    - Front matter update
    - Absentions in the denominator
    - Claims of compliance to Drafts
    - PAR numbering
  - Participants:
    - 802- Paul, Geoff, Howard
    - BoG- Jim Carlo, Ray Hapeman
    - SA Staff- Karen Rupp, Jennifer Longman, Greg James
  - Schedule a meeting this week:
    - recommend Wed 9-10AM?

802 Task Force discussion is Tuesday at 3pm.

**5.07 II Request to SA board to clarify recirc ballot rules (5.4.3.2 of Ops Manual) - Sherman 2 08:25 AM**

5 The SA operations manual was supposed to be changed to reflect our request at the June meeting. However, the changes do not appear on the SA web site, yet. Mat will check with Mary Lynne to determine the status of the change.

**5.08 II Get IEEE802 program update - Walker 5 08:27 AM**

2003 Get IEEE 802 TM Downloads				
Downloads	2003	2002	2001	Grand
	Totals	Totals	Totals	Total
1802.3-1991.pdf	0	7	10801	10808
1802.3d-1993.pdf	0	219	8893	9112
1802.3-2001.pdf	4058	3644	0	7702
802-1990.pdf	1	5029	43971	49001
802-2001.pdf	21654	2952	0	24606
802.10-1998.pdf	3908	5793	13260	22961
802.10a-1999.pdf	2820	4549	12996	20365
802.10c-1998.pdf	2902	4077	11115	18094
802.11-1999.pdf	49939	33689	29093	112721
802.11a-1999.pdf	25047	22364	28732	76143
802.11b-1999.pdf	27533	54478	30309	112320
802.11b-1999_Cor1-2001.pdf	16607	3770	0	20377
802.11d-2001.pdf	12797	12659	0	25456
802.12-1998.pdf	2299	3464	9706	15469
802.15.1-2002.pdf	6671	0	0	6671
802.15.1-2002_sectionone.pdf	2876	0	0	2876
802.15.1-2002_sectionthree.pdf	1241	0	0	1241
802.15.1-2002_sectiontwo.pdf	1406	0	0	1406
802.16-2001.pdf	16631	732	0	17363
802.16.2-2001.pdf	7374	4571	0	11945
802.16a-2003.pdf	1905			
802.16c-2002.pdf	2431			
802.1B-1995.pdf	5370	6967	16206	28543
802.1D-1998.pdf	12571	12593	18783	43947
802.1E-1994.pdf	2684	4548	13519	20751
802.1F-1993.pdf	2714	4463	14402	21579
802.1G-1998.pdf	3126	4529	13235	20890
802.1H-1997.pdf	2865	4980	15356	23201
802.1Q-1998.pdf	17255	14230	23744	55229
802.1X-2001.pdf	16001	11328	0	27329
802.1s-2002.pdf	1801			
802.1t-2001.pdf	4219	5560	0	9779
802.1u-2001.pdf	3477	5280	0	8757
802.1v-2001.pdf	4097	6036	0	10133
802.1w-2001.pdf	6701	6877	0	13578
802.2-1998.pdf	9528	10492	19045	39065
802.3-2000.pdf	740	12629	26424	39793
802.3-2000_part1.pdf	3	4108	16288	20399
802.3-2000_part2.pdf	0	2503	9638	12141
802.3-2000_part3.pdf	0	2496	9472	11968
802.3-2000_part4.pdf	0	2231	8836	11067
802.3-2000_part5.pdf	0	2207	9037	11244
802.3-2002.pdf	32563	6478	0	39041
802.3-2002_part1.pdf	25253	4505	0	29758
802.3-2002_part2.pdf	8424	1462	0	9886
802.3-2002_part3.pdf	7747	1360	0	9107
802.3ae-2002.pdf	10406	0	0	10406
802.4-1990.pdf	61	667	9526	10254
802.4h-1997.pdf	11	411	9807	10229
802.5-1998.pdf	3335	3677	9971	16983
802.5c-1991.pdf	1406	2181	8300	11887
802.5r_and_802.5j-1998.pdf	1491	2228	8236	11955
802.5t-2000.pdf	1448	2282	8656	12386
802.5v-2001.pdf	1764	489	0	2253
802.5w-2000.pdf	1554	2496	0	4050
802.6-1994.pdf	1265	2992	8790	13047
802.6j-1995.pdf	791	2629	8882	12302
802.7-1989.pdf	2056	5878	14314	22248
<b>Total downloads</b>	<b>402827</b>	<b>325789</b>	<b>499343</b>	<b>1221822</b>

GET IEEE  
802

TM



The background features a large, light gray watermark of the IEEE Standards Association logo, which is a diamond shape containing a stylized white arrow pointing upwards and a circular arrow around it.

***Get IEEE 802™  
Update 8***

**IEEE Standards Association**

**Jerry Walker, Director Business Development**

**IEEE 802 SEC Meeting**

**11 November 2003**

**Albuquerque, NM**



Get *IEEE 802™* Update 8

# This Meeting Objectives

- **Develop and Recommend 2005 Budget**
- **Recommend full use program**
- **Others?**

# User Type

USER	2003							PTD Total
	APR	MAY	JUN	JUL	AUG	SEP	OCT	
Academic/Student:	25,002	22,538	18,026	16,940	14,204	19,369	22,159	138,238
Other:	11,114	9,765	7,552	7,409	6,069	6,959	8,170	57,038
Network equipment manufacturer:	7,476	6,849	6,028	5,287	4,675	4,763	5,701	40,779
Public network service provider:	4,385	3,410	2,636	3,176	3,080	2,995	3,510	23,192
Standards Developer:	2,657	2,512	1,719	1,717	1,431	1,610	1,607	13,253
Private network service provider:	2,538	2,312	1,657	1,623	1,767	1,393	1,728	13,018
Government:	2,030	1,854	1,707	1,399	1,422	1,350	1,592	11,354
Network silicon manufacturer:	1,748	1,540	1,403	1,702	1,156	1,248	5,701	14,498
Journalist/Analyst/Author	-	-	210	786	606	536	743	2,881
Network Software Developer/Manufacturer	-	-	1,502	3,666	2979	3,439	3,539	15,125
Systems Administrator:	-	-	1,710	3,158	2,743	3,210	3,148	13,969
<b>Total</b>	<b>56,950</b>	<b>50,780</b>	<b>44,150</b>	<b>46,863</b>	<b>40,132</b>	<b>46,872</b>	<b>57,598</b>	<b>343,345</b>

# Initial 2005 Budget

2005 Proposed Program Budget with												
Revenues thru October 2003												
								<i>Approved</i>		<i>Proposed</i>		
<b>Medium/Source</b>	<i>2000(A)</i>	<i>2001(A)</i>	<i>2002(A)</i>	<i>2003(B)</i>	<i>2003(A)</i>	<i>2003(F)</i>	<i>2004(B)</i>		<i>2005 (B)</i>	<i>2005-20%</i>	<i>2005+20%</i>	
Print	\$ 192	\$ 82	\$ 41.8	\$ 38.0	\$ 24.8	\$ 28	\$ 60.0		\$ 60.0	48.0	72.0	
PDF	\$ 237	\$ 114	\$ 79.2	\$ 79.4	\$ 87.5	\$ 92	\$ 103.0		\$ 110.0	88.0	132.0	
Subscription	\$ 274	\$ 308	\$ 187.1	\$ 182.2	\$ 135.3	\$ 142	\$ 189.5		\$ 200.0	160.0	240.0	
Other Subscriptions				\$ 6.0	\$ 10.8	\$ 12	\$ 10.0		\$ 14.0	11.2	16.8	
<i>Subtotal</i>	\$ 703	\$ 504	\$ 308.1	\$ 305.6	\$ 258.4	\$ 274.0	\$ 362.5		\$ 384.0	\$ 307.2	\$ 460.8	
LMSC contributions	n/a	\$ 362	\$ 212.7	\$ 195.0	\$ 252.8	\$ 252.8	\$ 211.0		\$ 202.5	162.0	243.0	
Individual Sponsorship	n/a	\$ 2	\$ -	\$ 5.0		\$ -	\$ 10.0			0.0	0.0	
Corporate Sponsorship	n/a	\$ -	\$ 20.0	\$ 25.0	\$ 25.0	\$ 25	\$ 50.0		\$ 60.0	48.0	72.0	
<i>Total sponsorships</i>	\$ -	\$ 364	\$ 232.7	\$ 225.0	\$ 277.8	\$ 277.8	\$ 271.0		\$ 262.5	\$ 210.0	\$ 315.0	
<b>Total</b>	\$ 703	\$ 868	\$ 540.8	\$ 530.6	\$ 536.2	\$ 551.8	\$ 633.5		\$ 646.5	\$ 517.2	\$ 775.8	



## Approved 2004 Budget

with Thresholds				
Medium/Source	2004	2004-20	2004+20	
Print	\$ 60.0	\$ 48.0	\$ 72.0	
PDF	\$ 103.0	\$ 82.4	\$ 123.6	
Subscription	\$ 189.5	\$ 151.6	\$ 227.4	
Other Subscriptions	\$ 10.0	\$ 8.0	\$ 12.0	
<i>Subtotal</i>	\$ 362.5	\$ 290.0	\$ 435.0	
LMSC contributions	\$ 211.0	\$ 168.8	\$ 253.2	
Individual Sponsorship	\$ 10.0	\$ 8.0	\$ 12.0	
Corporate Sponsorship	\$ 50.0	\$ 40.0	\$ 60.0	
<i>Total sponsorships</i>	\$ 271.0	\$ 216.8	\$ 325.2	
<b>Total</b>	<b>\$ 633.5</b>	<b>\$ 506.8</b>	<b>\$ 760.2</b>	

# Reminder

- **New Drafts Delivery Service**
  - Outsourced draft sales to ILI
  - Instant posting, delivery and access
  - Digital Rights Management

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

Publishing of drafts do not appear to be working, even when drafts are provided and followed up. Making it simpler and more automatic for the drafts to be picked up, or maybe to have a central repository where drafts can be dropped off would be very desirable. There was a question as to why any draft that is already in the IEEE's hands, such as when it is in sponsor ballot, is not available. Outsourcing the process does not seem to be shortening the communication lines.

5

Digital rights management on drafts limits copies printed and limits the ability to send a draft to others.

<b>5.09</b>	<b>II</b>		-		<b>08:32 AM</b>
<b>5.10</b>	<b>II</b>		-		<b>08:32 AM</b>
<b>5.11</b>	<b>II</b>		-		<b>08:32 AM</b>
<b>5.12</b>	<b>II</b>		-		<b>08:32 AM</b>
<b>5.13</b>	<b>II</b>		-		<b>08:32 AM</b>
<b>5.14</b>					<b>08:32 AM</b>
<b>5.15</b>					<b>08:32 AM</b>

<b>LMSC items</b>
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**08:32 AM**

<b>5.16</b>	<b>MI</b>	<b>LMSC Meeting Fee Waivers</b>	-	<b>Nikolich</b>	<b>2</b>	<b>08:32 AM</b>
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10

# Meeting Fee Waivers

- The following fees have been waived for the November 2003 meeting by the chair.
  - IEEE-SA Staff Participants
    - Karen Rupp, Jennifer Longman, Jerry Walker, Angela Ortiz, Bernie Wilder



# Tutorial Schedule

<b>Monday</b>	<b>Tuesday</b>
<b>WG/TAG Financial Workshop</b> 5:30-6:30PM	<b>Use of mmWaves for WLANs</b> 6:00-7:30PM
<b>10GBASE-T Project Overview</b> 6:30-8:00PM	<b>Chirp Spread Spectrum</b> 7:30-9:00PM
<b>Education, Mentoring &amp; Support</b> 8:00-9:30PM	<b>Campus 802.11b Network</b> 9:00-10:30PM

**5.18 II Education, Mentor, Support Update - Frazier 2 08:39 AM**

5 The second installment of the EMS tutorial is on editing. Primarily, this will be of interest to new editors or editors new to Framemaker. Hands-on session using framemaker, style manual, and templates. Jennifer Longman, David Law, and David Safer will be doing the presentations.

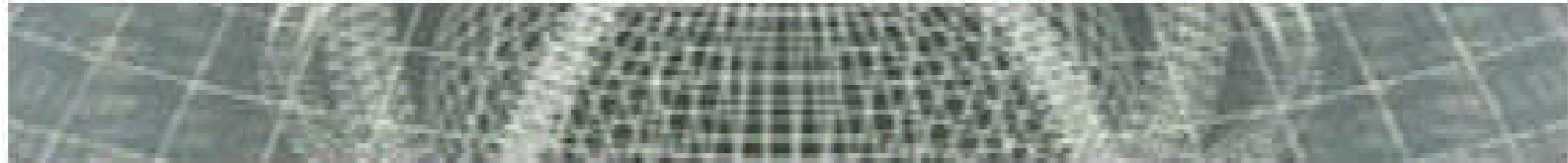
**5.19 II Operating Rules update - M. Sherman 5 08:41 AM**

10 Two ballots in process: precedence and WG financial operation. Resolution of these ballots is expected this week. A comment resolution meeting was held Sunday evening. A further meeting to resolve comments on WG financial operations will occur Thursday at noon. The next target for the P&P is to attempt to restructure them according to the SA model rules.

**5.20 II/MI 802 enews letter/PR - Klerer 5 08:46 AM**

# 802 News Bulletin

<http://standards.ieee.org/802news/>



**IEEE 802<sup>®</sup> NEWS  
STANDARDS BULLETIN**

Status of Projects in the  
IEEE Standards Association  
LAN/MAN Standards Committee

**H O M E P A G E**



# 802<sup>®</sup> News Bulletin

- The News Bulletin was launched in Nov. 2001 as a pilot
- Rationale: To give the press an impartial summary of actions taken at each Plenary and to position IEEE as the source for its 802 news.
- Five issues published online:
  - November 2001
  - July 2002
  - November 2002
  - March 2003
  - July 2003

# 802 News Bulletin

## Usage Statistics

- Results of the pilot program after nearly two years:
  - Jan. to Sept. 2002: 21,484 visits/month (avg.)
  - Jan. to Sept. 2003: 30,851 visits/month (avg.)
- The number of visitors go far beyond the 1,500 media informed of the bulletin.

# 802 News Bulletin

## Meeting the Needs of a Diverse Audience

The News Bulletin is now targeted at the information needs of three audiences:

- Media/editors
- 802 members
- Industry







# 802 Handoff ECSG EC Opening Plenary Report

David Johnston

david.johnston@ieee.org

dj.johnston@intel.com

# Activities last session



- Technical Work
  - Cellular-wlan coupling models
  - 802.16e alignment
- Reconsidered Placement wrt 802.1af and 802.21
  - Produced and agreed position statements
- Developed PAR and 5C that had universal support in the group
- Agreed a Title
  - Media Independent Handover

# Officer Volunteers



- Volunteers with employer support are available to take on officer positions
  - Existing officers all are willing to take on roles
    - David Johnston (chair)
    - Michael Williams (Editor)
    - Ajay Rajkumar (Vice chair/Secretary)

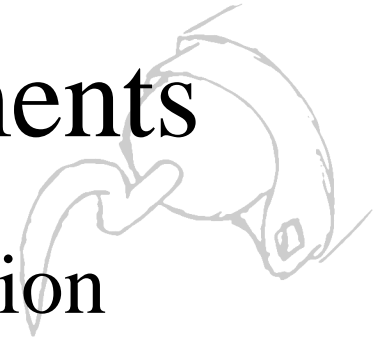


# Placement



- The group (11,0,0) unanimously re-approved recommending placing the work as a new working group
- 802 Reorganization might have an impact on the choice of WG/TG placement

# Placement Position Statements



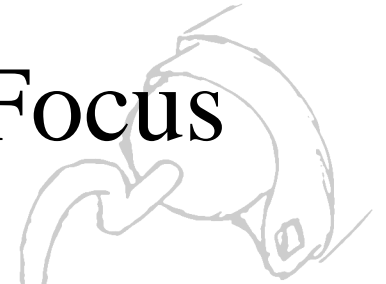
- EC Requested we address 802.1 option
- We went through the issues, asked the same question, got the same answer
- To move the debate on, we developed position statements that encapsulated the motivations of all individuals in the group for preferring WG status
- All agreed their opinions were represented
- None disagreed with any of the statements

# PPS #1 Type Of Standard



- 802.1 has concentrated on 802 level architectural standards, albeit not exclusively.
  - There appears to be a default mapping between 802 handover and 802.1 based on the media access independent nature of the 802 handover proposal.

# PPS #2 Wired and Wireless Focus



- 802.1 emphasized wired technology (E.G. 802.1X is a wired-focused standard).
- The handover standard will probably be used most commonly by wireless users, however it must necessarily address both the wired and wireless cases simultaneously.
- As a separate WG we are in a position to attract people with the skill to address both wired and wireless domains. 802.1 has a large majority of people with a wire oriented skill set.

# PPS #3 Liasons



- We believe a WG focused on handover issues as we currently understand them needs to have a focused and vigorous liaison process with other important standardization bodies. E.G. The IETF, 3GPP and 3GPP2.
- Liaison for this work need to be focused on specific IETF efforts and cellular standards that wouldn't normally interface with the wired focused standards groups in IEEE.

# PPS #4 Avoiding Imposition on 802.1



- We anticipate putting a significant amount of effort into working and communicating technical issues with other standards bodies both external and internal to the IEEE, particularly wireless groups.
- Since these interactions should be made at a WG level, this would imply a substantial increment to the workload in 802.1 while 802.1 is heavily occupied with LinkSec and HiLi.

# PPS #5 Interworking with IEEE Groups



- We expect in interim and ad hoc sessions we would be seeking to co-locate with other wireless groups in order to coordinate technically. E.G. 802.11, 802.16, 802.20.
- The organizational benefits from 802.1's meeting organization efforts are not felt by the handover group. We would be benefiting equally from the meeting organization efforts of other groups.
- Therefore one of the principle reasons for locating disjoint work within a WG (I.E. organizational effort sharing) does not apply.

# PPS #6 EC Representation



- A number of organizations attach high importance to these interworking efforts within the IEEE.
- It is felt that to achieve appropriate representation, EC representation is necessary to defend the interests of the group.



# PAR and 5 Criteria



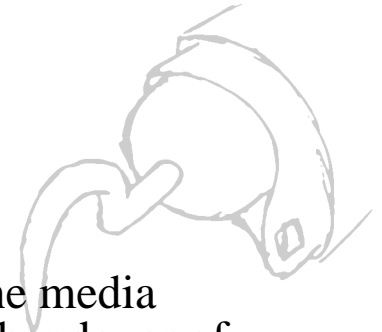
- Group voted unanimously (22,0,0) to approve a PAR and 5 Criteria for forwarding to the EC for review and approval

# Scope Issues



- Needed to address
  - The aspects of handover supported
  - Network detection and selection
  - All coupling models
  - Relationship to existing L2 handover mechanisms
  - Compatibility with 802 architectural model
- Needed to Prevent
  - Definition of security
- Needed to Allow
  - Necessary interaction with other 802 security mechanisms
- Needed to leave open
  - Coupling to backhaul services (other forums still in flux)
  - Precise mechanisms used (feasible mechanisms identified, but used only as feasibility proof, not agreement on the standard)

# Scope



- The scope of this project is to develop a standard that shall define media access independent mechanisms that enable the optimization of handover of handover-capable upper layer entities (e.g. Mobile IP sessions) between homogeneous or heterogeneous media types both wired and wireless.
- The standard shall also specify a means to detect and select network attachment points or optimize the detection and selection of network attachment points.
- The scope of the standard must address the full range of upper layer handover strategies in common use.
- Consideration will be made to ensure compatibility with the 802 architectural model including at least 802, 802.2, 802.1D, 802.1f, 802.1Q, and 802.1X.
- Consideration will be made to ensure that compatibility is maintained with 802 security mechanisms including 802.1X and that existing security is not compromised.
- Neither security algorithms nor security protocols shall be defined in the specification. This does not preclude the propagation of authentication or authorization information to support network detection and selection.

# Purpose



- Focused on improving user experience of mobile devices

# Purpose



- The purpose of the project is to enable mobile devices to handover between 802 networks whether or not they are of different media types, including both wired and wireless, where handover is not otherwise defined and to make it possible for mobile devices to perform seamless handover where the network environment supports it.
- A further purpose is to provide mechanisms that will also be useable by non 802 access networks, enabling handover between 802 and non 802 networks.
- This will improve the user experience of mobile devices by improving the available network coverage through the support of multiple media types, preventing the interruption of upper layer sessions during handover, preventing undesirable network attachment attempts and optimizing desirable network attachment attempts.

5.22 II 802.18 Radio Regulatory TAG Status Update - Stevenson 5 08:56 AM

5 Defers report until opening plenary.

5.23 II 802.19 Coexistence TAG Status Update - Lansford 5 09:01 AM

10 Jim has resigned as chair of the task group, due to a change in employment. One volunteer has stepped forward, Steve Shellhammer. Paul will announce the open position at the opening plenary and consider new volunteers. Paul has asked Steve to lead the group during the week.

10 Paul appoints Steve Shellhammer as chair pro tem of the TAG.

5.24 II 802.17 to Sponsor Ballot - Takefman 1 09:06 AM

15 At the end of the week, 802.17 will potentially ask for forwarding to sponsor ballot or conditional approval to go to sponsor ballot.

5.25 II 802.16/Conformance02 to RevCom (presubmitted) - Marks 1 09:07 AM

## IEEE 802.16 Issues for 802 LMSC SEC Meeting of Friday 14 November 2003



### Documentation for 802.16 Issues at 802 LMSC SEC Meeting of Friday 14 November 2003

Agenda Item	Agenda Type	Topic (click for documentation)	WG Approval	SEC Result ("Yes/No/Abstain")
5.?	ME	<a href="#">P802.16/Conformance03 to Sponsor Ballot</a>		
5.?	ME	<a href="#">P802.16-REVd to Sponsor Ballot (conditional approval)</a>		
5.?	ME	<a href="#">P802.16/Conformance02/D3 to RevCom</a>		
5.?	ME	<a href="#">P802.16.2-REVa to RevCom</a>		

\* = consent agenda

ME=Motion External; MI=Motion Internal; DT=Discussion Topic; II=Information Item

### **802 PARs For Approval**

Roger Marks ([r.b.marks@ieee.org](mailto:r.b.marks@ieee.org))  
 Chair, IEEE 802.16 Working Group on Broadband Wireless Access Standards

	5.26	II	802.16.2-REVa to RevCom	-	Marks	1	09:08 AM
5	See Item 5.25.						
	5.27	II	802.16/Conformance03 to sponsor ballot	-	Marks	1	09:09 AM
	See Item 5.25.						
	5.28	II	802.16-REVd to sponsor ballot (conditional approval)	-	Marks	1	09:10 AM
10	See Item 5.25.						
	5.29	II	802.1 Key Agreement PAR announcement	-	Jeffree	1	09:11 AM
15	802.1 will forward a PAR on key agreement (an amendment to 802.1X) to the SEC on Friday. Comments from WGs are expected to be submitted by Tuesday evening.						
	802.1 will be holding an election for vice chair this week.						
20	RAC meeting is Thursday evening at 6pm. This is a special meeting to address specific items brought to the RAC by various working groups.						
	5.30	II	802.3 10GBASE-T PAR announcement	-	Grow	1	09:12 AM
	802.3 will forward a PAR for 10GBASE-T to the SEC on Friday. Comments from WGs are expected to be submitted by Tuesday evening. There is a tutorial tonight on 10GBASE-T						
25	5.31	II	802.11e/802.11i to sponsor ballot	-	Kerry	1	09:13 AM
	802.11e will not go to sponsor ballot, but to WG recirculation ballot. 802.11i will be brought to the EC to forward to sponsor ballot.						
	5.32	II	802.11 DSRC SG name change	-	Kerry	1	09:14 AM
30	The study group on dedicated short range communications (DSRC) has changed its name to “wireless access in a vehicular environment”. A concern was expressed that the groups are losing distinct identity.						
	5.33	II	802 Reorganization	-	Nikolich	10	09:15 AM



# 802 Re-organization

- 802's success has resulted in significant growth
- Problem:
  - Logistics have become difficult and very time consuming
  - It is difficult for EC members to understand and track the number and scope of 802 projects
- Can re-organization improve our efficiency?
  - Reserve 2 hours this week to consider this topic in depth
  - Appoint Howard Frazier to chair the “re-org ad hoc”
    - Identify options and their pros and cons
    - Present a summary/recommendation to EC on Friday

An opinion was expressed that in addition to the items presented, there are two different and incompatible financial models in use in 802. A meeting will occur Tuesday 10am-noon.

**5.34 II 802.15 SG PR update - Heile 2 09:25 AM**

5 Postponed to Friday.

**5.35 II WG finances policy and procedure update (compliance) - Nikolich 5 09:27 AM**

EC has been copied on a report sent to Dan Begnini

Paul Nikolich  
Chair, IEEE 802 LMSC  
18 Bishops Lane  
Lynnfield, MA 01940  
cell: 857.205.0050  
p.nikolich@ieee.org

**To:** Daniel Benigni, Treasurer  
IEEE SA Board of Governors

**CC:** IEEE SA BoG  
IEEE 802 LMSC Exec Committee  
Karen Rupp, Assoc. Dir SA

**SUBJECT:** IEEE 802 LMSC WG Financial Operations Update

**DATE:** October 31, 2003

In March of 2003 it came to my attention that the 802.11 Working Group and the 802.15 Working Group were operating outside the bounds of Working Group, LMSC and IEEE policy and procedures with respect to their financial operations. I asked the 802 Treasurer to investigate the matter, at the conclusion he found that 802.11 and 802.15 had accrued a significant amount of surplus funds from the September 2002 Interim Session and the January Interim Session (approximately \$100k) to fund the development of attendance monitoring software.

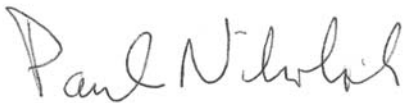
Since that time, the EC has also put in place a multi-step program to correct the immediate issues and ensure this problem does not occur again:

- a) 802.11 and 802.15 Working Group chairs formally reprimanded---DONE
- b) modify LMSC Policies and Procedures to include WG financial operating responsibilities, --IN PROCESS, SCHEDULED COMPLETION NOV 2003
- c) 802.11 and 802.15 have opened a checking account compliant with IEEE policies---IN PROCESS, awaiting final signature on certificate of authority from IEEE SA, --SCHEDULED COMPLETION NOV 2003
- d) have calendar year 2002 802.11 and 802.15 financial operations audited by IEEE Audit Operations--COMPLETE and PASSED
- e) the WGs are updating their policies and procedures to be consistent with operation with treasury---IN PROCESS, SCHEDULED COMPLETION NOV 2003
- f) to fully report the software development contract to the EC and the WGs --EC HAS CONTRACT, WG WILL HAVE WEB ACCESS TO CONTRACT NOV 2003
- g) obtain ratification of the software development agreement by the EC---PENDING MOTION AT NOV 2003 PLENARY SESSION

Note that each of the above actions are complete or almost complete.

A more detailed description of the problem and the resolutions are attached in the memo from the 802 Treasurer (Bill Quackenbush) and the minutes of the Executive Session where the formal reprimand was decided.

Regards,



--Paul Nikolich

attachments:

- Minutes of IEEE 802 LMSC July 2003 Exec Session;
- July 22, 2003 memo from IEEE 802 Treasurer Bill Quackenbush

**Attachement One: July 2003 Exec Session Minutes**

IEEE 802 LMSC SEC 7/21/2003 Page 1

Minutes of the Executive Session of the 802 LMSC Executive Committee  
Monday, July 21, 2003 – Hyatt Regency, San Francisco

The meeting was called to order at 10:01pm by Paul Nikolich.

Attending the meeting were the following persons:

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
Jim Carlo	- IEEE-SA President Elect
Karen Rupp	- IEEE Staff

WHEREAS, alleged financial irregularities have come to the attention of the Executive Committee (EC) of the LAN/MAN Standards Committee (LMSC); and these alleged irregularities have been studied by an investigative committee appointed by the LMSC Chair; and that investigative committee reports:

1. Mr. Kerry and Mr. Heile have respectively operated the 802.11 and 802.15 Working Groups with treasury;
2. Mr. Kerry and Mr. Heile have failed to conform to IEEE financial management procedures;
3. Mr. Kerry and Mr. Heile have failed to comply with IEEE policies for budgeting and audits;
4. Mr. Kerry and Mr. Heile have operated their Working Groups in violation of LMSC P&P financial reporting requirements;
5. Mr. Kerry and Mr. Heile have operated their Working Groups in violation of their Working Group rules on financial operations;
6. Mr. Kerry and Mr. Heile have jeopardized LMSC's relationship with superior bodies by not reporting the treasury to the LMSC Treasurer as required;
7. Mr. Kerry's and Mr. Heile's failure to provide financial reports has caused that significant financial matters were not properly reported to the Computer Society or IEEE-SA within the LMSC's annual financial report; and
8. Mr. Kerry and Mr. Heile have exceeded their authority as WG Chairs by entering into a software development agreement with an outside vendor with a minimum amount of \$75,000 that spans three sessions, and have done this without authorization of the Executive Committee.

WHEREAS, there is no allegation or evidence of misappropriation or malfeasance, Mr. Kerry and Mr. Heile have fully reported financial operations to their Working Groups, the actions taken by Mr. Kerry and Mr. Heile were with the consensus of their Working Groups, and Mr. Kerry and Mr. Heile have committed to do everything necessary to bring

the operation of their Working Groups into compliance in a timely way, including but not limited to:

1. open a checking account compliant with IEEE title and signatory policies and transfer all funds into that account;
2. file financial reports with the LMSC Treasurer for each interim session beginning with calendar year 2002;
3. have calendar year 2002 operations audited by IEEE Audit Operations;
4. seek modification of Working Group rules as necessary to be consistent with operation with treasury;
5. to fully report on the software development agreement to the EC and their Working Groups;
6. and to seek ratification of the software development agreement by the EC.

THEREFORE BE IT RESOLVED, the Executive Committee of the LAN/MAN Standards Committee does hereby formally reprimand Mr. Stuart Kerry, Chair of the IEEE 802.11 Working Group and Mr. Robert Heile, Chair of the IEEE 802.15 Working Group for breach of their fiduciary duties.

FURTHER RESOLVED, that Mr. Kerry and Mr. Heile are directed to bring their Working Groups into full compliance with LMSC P&P and with the requirements of all superior IEEE bodies by 31 August 2003.

FURTHER RESOLVED, that the LMSC Treasurer provide appropriate guidance for specific tasks required to meet the 31 August 2003 compliance date, and that the LMSC Treasurer report to the EC on the success or failure of Mr.

Kerry

and Mr. Heile to bring their Working Group operations into compliance.

FURTHER RESOLVED, that the LMSC EC reserves the right to take appropriate additional actions as justified by any

additional irregularities discovered, any insufficiency in mitigating the current situation or in bringing 802.11 and 802.15 operations into compliance.

Moved: Bob Grow

Seconded: Geoff Thompson

Passes: 10/0/0

Action item: Bill Quackenbush to update his plan of action memo for submission to the IEEE-SA BoG.

Action item: Bill Quackenbush to describe the status of each of the Working Groups (802.11, 802.15, and 802.17) in their process of complying with the action plan

Action item: Bill Quackenbush to propose P&P changes to address Working Group financial operations

Meeting was adjourned at 12:31am, July 22, 2003.

## Attachement 2: IEEE 802 LMSC Treasurer's Memo

**To:** LMSC Executive Committee  
**Subject:** LMSC Working Group Financial Issues  
**From:** Bill Quackenbush, Treasurer  
**Date:** revised July 22, 2003

Recent disclosures concerning the use of registration fees collected for 802.11 and 802.15 interim sessions suggest that the financial activities of these two Working Groups and their Chairs are in violation of the Working Groups' own Operating Rules, the LMSC Policies & Procedures, the IEEE Policies and perhaps the rules and/or policies of other superior IEEE entities.

### **LMSC Policies & Procedures**

The LMSC Policies & Procedures (<http://grouper.ieee.org/groups/802/rules.pdf>) contains the following provisions regarding Working Group/Technical Advisory Group financial activity.

**Section 5.1.4.4 Working Group Chair's Authority** among other things gives the WG Chair the authority to

“g) Collect fees to meet Working Group expenses”.

**Section 5.1.4.3 Working Group Chair's Responsibilities among other things requires that the WG Chair**

“d) Provide a full accounting to the LMSC Treasurer of all fees collected and retained, under authority of 5.1.4.4 Working Group Chair's Authority, to meet Working Group expenses, and the disposition of these funds.

**Section 5.2 LMSC Technical Advisory Groups (TAG)** requires that

“The function of a Technical Advisory Group is to provide assistance to Working Groups and/or the Executive Committee. The TAGs operate under the same rules as the Working Groups, with the following exceptions:” None of the exceptions apply to TAG financial activities.

Section 5.1.4.4 of the LMSC P&P explicitly gives the Working Group chair the authority to collect fees, but nowhere is the chair explicitly authorized to disburse or retain any of the collected fees. Section 5.1.4.3 appears to imply such authority, and the authority to collect fees makes no sense without a corresponding authority to disburse and/or partially retain such fees. Therefore, it is assumed that the chair of a Working Group has the authority to disburse and/or partially retain the fees the chair is authorized to collect. Section 5.2 imposes the same requirements on Technical Advisory Groups.

### **IEEE Policies**

Sections 10.2.6 through 10.2.8 of the IEEE Policies contain a number of requirements on the financial operations of all IEEE standards development groups ([http://www.ieee.org/portal/index.jsp?pageID=corp\\_level1&path=about/whatis/policies&file=index.xml&xsl=generic.xsl](http://www.ieee.org/portal/index.jsp?pageID=corp_level1&path=about/whatis/policies&file=index.xml&xsl=generic.xsl)).

#### **10.2.6 - STANDARDS MEETING BUDGETS**

The IEEE-SA Board of Governors and the IEEE Society, where applicable, shall receive the budgets for all IEEE standards development meetings when the budgeted meeting income or expenses exceeds US \$25,000 per meeting. A copy of the budget shall be sent to IEEE Conference Services at least a year in advance on an annual basis for approval as needed by the IEEE Executive Committee.

For these meetings, the following actions shall be taken:

The budget should provide all needed financial information and be consistent with analysis of the attendance and financial results of any preceding meeting on the same subject. Income, expenses, and reserve funds shall be reported to the IEEE-SA BOG annually, but no later than six months after the close of the fiscal year. All budgets shall be based on nondeficit expectations. However, if a series of meetings are organized, the series should be on a self-sustaining basis. The Sponsor committee, for sufficient reasons, may elect to budget a particular meeting on a deficit basis.

Such a deficit budget will be approved if properly related to the total fiscal picture of the Sponsor committee.

The Sponsor committee assumes the entire risk of deficit; i.e., if a deficit is incurred in the operation of a meeting, that deficit is chargeable against the Sponsor committee. Conversely, if a surplus results from the operation, the surplus will be credited to the Sponsor committee.

If substantial financial changes are made to previously approved budgets, a revised budget should be submitted.

For IEEE Standards meeting budgets that are greater than US \$25,000, failure to submit a budget may result in action from the IEEE-SA BOG.

For IEEE Standards meetings operating without a budget or with a minimal budget, the operating procedures of the committee shall apply.

#### **10.2.7 - STANDARDS MEETINGS BANK ACCOUNT SIGNATURES**

It is the policy of IEEE that all bank accounts for IEEE Meetings provide for the signatures of at least two volunteers and the signature of the IEEE Staff Director - Financial Services or designee. For IEEE Standards meetings, the IEEE Staff designee shall be the Managing Director of IEEE Standards. In addition, the term "IEEE-SA" or "IEEE" shall be included in any bank account description.

Bank accounts shall be closed six months after the standards development activity has ceased and if further projects are not planned. Closing bank statement(s) shall be submitted to the IEEE-SA BOG and the relevant IEEE Society with the final budget report (see 10.1.11).

#### **10.2.8 - AUDITING OF STANDARDS MEETINGS FINANCES**

All IEEE Standards Sponsor committees with actual or budgeted meeting income or expenses of US \$100,000 or more per year shall be audited by a professional independent source, outside the sponsoring organizational unit. The IEEE-SA BOG may select an outside accounting firm, another fully qualified resource, or the IEEE Operations Audit Department to arrange for and perform the audit. The selection of such auditors should avoid any conflict of interest with members of the relevant IEEE Standards Sponsor committees.

IEEE Standards Sponsor committees with more than US \$25,000 but less than US \$100,000 in meeting income or expenses per year will be audited on a rotational basis. The IEEE Operations Audit Department will schedule and arrange for the audits of these Standards activities. For those committees not scheduled for an Operations Audit review in a given year, an informal review should be conducted by a committee composed of individuals who have no direct or indirect responsibility for the financial transactions of the committee.

IEEE Standards meetings with a non-IEEE organizational unit, when the IEEE share of annual meeting revenues or expenses are expected to exceed US \$100,000 per year, are required to participate in the audit process. If the cooperating organizational units agree to the audit but refuse to share in the audit fee, the IEEE Sponsor will be assessed an audit fee of no more than 50% of the standard fee rate.

Audit fees shall be incorporated in the budgets of IEEE Standards Sponsor committees and displayed as a separate line on budget reports.

The IEEE Operations Audit staff will assure that committee financials are audited in accordance with the guidelines developed for this purpose.

Audit reports are to be received at IEEE Conference Services 45 days after the annual financial report is submitted.

## **802.11 and 802.15 Operating Rules**

The 802.11 and 802.15 Operating Rules contains the following sections on the financial operation of those Working Groups.

### **Section 2.3.5. Working Group Treasurer of the 802.11 Operating Rules:**

“802.11 WG operates without treasurer and without treasury unless specified by the Chair. Occasionally there may be a need for short-term funds associated with a particular meeting. Any debts and collections shall take place within that meeting. The sponsoring group or individual will be responsible for financing short-term expenses for interim meetings. It is the responsibility of the sponsoring group or individual to provide a statement of accounts if a meeting registration fee is levied on members and present to the WG at the next WG meeting.”

### **Section 2.2.5. Treasurer of the 802.15 Operating rules:**

“802.15 WG operates without treasurer and without treasury. Occasionally there may be a need for short-term funds associate with a particular meeting. Any debts and collections shall take place within that meeting. The sponsoring group/individual will be responsible for financing short-term expenses for interim meetings. It is the responsibility of the sponsoring group/individual to provide a statement of accounts if a meeting registration fee is levied on members”.

### **Section 8.5.11. Meeting Cost-Sharing of the 802.15 Operating rules:**

“To share the cost of the meeting, the host can charge the participants a "conference fee" of up to \$ 200 total for a 4 or 5 day meeting to bear the cost of:

- the breaks and lunches
- the audio-visuals equipment rental
- the copying and/or machine loan (if not born by the host)
- the meeting rooms (if not negotiated for "free" with the hotel for the business of the guest-rooms)

It is acceptable to assign a fixed cost for each participant, independent of the length of participation of the individual.

Arrange with the hotel for collection of the registration fee to make meeting fee payments easy by:

- Debiting the conference fee from the guest account of those staying at the hotel and crediting to the conference account
- Accepting conference fees from those not staying at the hotel (e.g. locals)
- If the hotel refuses to do so, the host has to go through the chore of collecting money from all participants and writing receipts

As we are not allowed to make a balance between meetings, we suggest that the host assumes a donation as a replacement of the saved travel and expenses cost. This allows the host to calculate a conference fee, so that we have a small shortage amounting to the fees to be paid by 2 to 3 participants. (Experience teaches that late, unexpected, arrivals will diminish this shortage) If at the end of the meeting there is, indeed, a negative balance, we must assume that the meeting coordinator will pay for that in full when undertaking this obligation at the onset.”



## **Working Group Interim Session Finances**

With the growth in size of LMSC Working Groups in combination with the weak economic climate, it has become very difficult if not impossible to find hosts for LMSC interim sessions that are willing to underwrite the entire cost of a session. As a consequence, it has become routine that interim session attendees are required to pay a registration fee that nominally covers the expenses of the session and the session host agrees only to guarantee the hotel commitment and cover any deficit.

The LMSC Treasurer has allowed registration fees to be charged for a Working Group or a Working Group sub group interim session without considering the Working Group to have a treasury or having to make a financial report to the LMSC Treasurer if **all** of the following conditions are met. These conditions were verbally conveyed to LMSC Working Chairs by the previous LMSC Treasurer, Bob Grow.

1. The Host is solely responsible for the logistical and financial planning and execution for the session. The host may contract with one or more meeting planners or similar entities to assist with and/or implement the Host's responsibilities. Such planning and execution is to be done in close consultation and coordination with the Working Group or Working Group sub group Chair(s).
2. The Host is responsible for all contracts and agreements for goods and services provided for the session. The Working Group, Working Group sub group or group Chair shall not be a party to any of these contracts or agreements and may not force the terms of any of these contracts or agreements.
3. The Host may charge session attendees a registration fee to offset the session expenses and thus minimize the financial liability of the Host. Such a registration fee may not be greater than that required for the session to nominally break even. The recommended budgeting approach is for the Host to budget a contribution to the session that is decreased or eliminated in the event of a surplus.
4. The Host is responsible for collecting the registration fees, if any, and paying the session expenses.
5. The Host is responsible for the session deficit and owns the session surplus. The Host may retain or dispose of a session surplus in any manner it chooses with the restriction that the Working Group, Working Group sub group and/or any member of the group shall not be granted any beneficial interest in the surplus.
6. The Working Group or Working Group sub group has no responsibility for any session deficit and no beneficial claim on any session surplus.
7. The Working Group or Working Group sub group does not maintain checking or merchant accounts in its own name or the name of any other IEEE entity and has no claim of ownership or beneficial interest in the funds in any other financial account.

If any these conditions are not met, and in particular if the Working Group claims any beneficial interest in any portion of interim session surplus funds, then the Working Group is operating with treasury and its financial operations must comply with its own rules, the Policies and Procedures of the LMSC and the rules and policies of all superior IEEE entities.

### **802.11 and 802.15 Financial Operation Issues**

It came to my attention during the March 2003 Plenary session that 802.11 and 802.15 jointly claimed ownership of surplus funds from their join interim sessions. This implies that 802.11 and 802.15 are operating with treasury.

Since these Working Groups have not reported their financial operations to the LMSC Treasurer, it appears that the Chairs of these Working Groups are in violation of the LMSC Policies and Procedures. In addition, it appears that these two groups and their Chairs are in violation of sections 10.2.6 STANDARDS MEETING BUDGETS, 10.2.7 STANDARDS MEETING BANK ACCOUNT SIGNATURES and 10.2.8 AUDITING OF STANDARDS MEETING FINANCES of the IEEE Policies.

It also came to my attention during the March 2003 Plenary session that the 802.11 and 802.15 Chairs had jointly entered into a contract with I.D.E.A.L Technologies for the development of a software application. It later came to my attention that the contract was for a period that spanned multiple sessions.

The first issue here is that it appears that the Chairs of 802.11 and 802.15 have no authority under their own Working Group Operation Rules to enter into agreements or contracts spanning multiple sessions and by doing so are in violation of their own rules. It also appears that a contract for a software application is not an allowed use of interim session fees under the 802.15 Operating Rules.

The second issue is the size of the registration fees for 802.11 and 802.15 interim sessions. The registration fee was \$350/\$400 for the September 2002 and January 2003 interim sessions and was \$400/\$500 for the May 2003 interim session. These clearly exceed the \$200 limit of the 802.15 Operating Rules.

According to the financial reports on the 802.15 web site, the surplus from the September 2002 interim session was \$53,016.15 on a net income of \$202,100 and the surplus from the January 2003 interim session was \$49,583.77 of a net income of \$165,800. The results for the May 2003 interim session are not yet known. It appears that the registration fees being charged are in excess of those required to cover the expenses associated with a single interim session.

A third issue is the claim by the 802.11 and 802.15 Chairs that their Working Groups approved the expenditure for the software application. I was told by the Chairs of both 802.11 and 802.15 that their groups were aware of the duration and cost of the contract with I.D.E.A.L. and that the groups had approved the expenditure of funds during the November 2002 Plenary session. A review of the minutes from the 802.11 and 802.15 November 2002 Plenary sessions indicates that the RFQs for the project were to be developed during the November 2002 Plenary week, but there was no motion or vote to approve such a project. The 802.11 minutes indicate in section 1.7.3 that both Work Groups voted at the September 2002 interim session to approve the development of a software application. A review of the minutes of the 802.11 and 802.15 September 2002 interim sessions indicate that a straw poll was taken in both groups on whether the groups should undertake a software project. Since the only recorded votes on the issue were a straw poll taken during September 2002 interim sessions and the RFQ for the project was to be developed during the November 2002 Plenary, it appears that the Working Groups did not know the actual cost or schedule of the contract and did not approve such a contract as a straw poll is informational only and not binding.

### **Proposed Corrective Actions**

The LMSC must take corrective actions of two types, those required to cure the current apparent violations of 802.11 and 802.15 and their Chairs and those that restructure the LMSC P&P with regard to WG/TAG financial operations with the goal of preventing future violations.

### **Proposed 802.11 and 802.15 Corrective Actions**

It is proposed that the financial operations of 802.11 and 802.15 shall be brought into compliance with the Policies & Procedures of the LMSC, the requirements of all superior IEEE entities and the requirements of the working Groups' own operating rules by August 31, 2003.

1. That 802.11 and 802.15 shall either vacate any beneficial claim to any surplus funds from fees collected at their interim sessions or request approval of the LMSC Executive Committee to open a bank account that complies with the requirements of Section 10.2.7 of the IEEE Policies and have all of such funds transferred into said account. Status: not completed
2. That 802.11 and 802.15 shall file with the LMSC Treasurer a financial report for each interim session held by them either jointly or individually during calendar 2002 at which a registration fee was collected. The reports shall use the format

used by the LMSC Treasurer to report the financial results of each LMSC Plenary session to the LMSC Executive Committee. Status: not completed

3. That 802.11 and 802.15 shall send to IEEE Audit Operations and the LMSC Treasurer an audit package for the 2002 calendar year that complies with the IEEE audit requirements. Status: completed July 19, 2003.
4. That 802.11 and 802.15 shall comply with the financial reporting requirements of the Computer Society and the IEEE-SA. Status: not completed
5. That any currently active or proposed contract or agreement between 802.11, and /or 802.15, and any other party for the provision of goods and/or services and whose duration is greater than one interim session shall be submitted to the LMSC Executive Committee for review and appropriate action. Status: not completed

### **Proposed LMSC P&P Changes**

In light of the results of this investigation, it is apparent that the LMSC P&P are insufficient with respect to the financial operations of its subgroups and require more specificity. A revision of the P&P is therefore required.

Two major considerations when proposing changes to the LMSC P&P are the incremental workload imposed on the LMSC Treasurer when an LMSC Working Group decides to operate with treasury and the degree of financial independence granted to a WG/TAG operating with treasury. I think a reasonable approach is that a WG/TAG operating with treasury be required to conduct its financial operations in a manner similar to that required for the LMSC.

The following changes are proposed.

1. That item d) of Section 5.1.4.3 Working Group Chair's Responsibilities and item g) of Section 5.1.4.4 Working Group Chair's Authority be deleted.
2. That a new sub section on interim sessions be added to Section 5.1 LMSC Working Groups and that the second paragraph of Section 5.1.3.5 Meetings and Participation be moved to this new section.

#### **“5.1.x Interim Sessions**

In addition to WG/TAG Plenary sessions, which are held as part of LMSC Plenary sessions, a WG/TAG or a WG/TAG sub group may hold interim sessions.

Interim sessions shall have as goals: 1) Reasonable notification (>4 weeks) in addition to any announcement given at a plenary, and 2) Few last minute shifts in location (<< 1 per year).

Each interim session shall have a session host that is responsible for the logistical and financial planning and operation of the session and for the expenses of the session. An interim session may be hosted by a non-IEEE entity, an LMSC WG/TAG or the LMSC. A WG/TAG sub group may not host an interim session, but a WG/TAG may host an interim session for one or more of its sub groups. Multiple WGs/TAGs and/or WG/TAG sub groups may hold a joint interim session with a common host.

A WG/TAG may sponsor an interim session if and only if the group has received

approved from the LMSC EC to operate with treasury.”

A registration fee may be collected from interim session attendees by the session host to cover the direct expenses of the session. If the host is a WG/TAG, the registration fee collected from the WG's/TAG's interim meeting attendees may also be used to cover other operating expenses of the WG/TAG.

3. That a new subsection on financial operations be added to Section 5.1 LMSC Working Groups.

#### **“5.1.y Working Group Financial Operations**

A WG/TAG that collects funds of any kind from its members and/or from the attendees of its interim sessions is said and is considered to be “operating with treasury”.

The primary reason a WG/TAG may wish or need operate with treasury is to allow the group to collect funds to cover the expenses of its interim sessions or the interim sessions of one or more of its sub groups. A WG/TAG may, with the approval of the LMSC EC, elect to operate with treasury.

A WG/TAG sub group shall not operate with treasury.

#### **5.1.y.1 WG Financial Operation with Treasury**

The financial operations of a WG/TAG operating with treasury shall comply with the following requirements. For the purposes of this section, the duration of an interim session is defined as being no longer than 7 consecutive calendar days.

1. The WG/TAG shall request and must receive LMSC EC approval to operate with treasury.
2. The WG/TAG shall have a Treasurer who shall oversee the collection, disbursement and retention of all Working Group funds.
3. The WG/TAG shall have an Executive Committee (WGEC/TAGEC) comprised of the following WG/TAG officers. The WG/TAG Chair shall be the Chair of the WGEC/TAGEC.

Chair  
All Vice Chairs  
All Secretaries  
Treasurer  
All Task Force Chairs

4. The WG/TAG shall open and maintain a WG/TAG bank account whose title shall begin with “IEEE” and include the identity of the WG/TAG. The account shall comply with the signature and title requirements of all applicable LMSC and superior IEEE entity rules and policies and in particular Section 10.2.7 STANDARDS MEETINGS BANK ACCOUNT SIGNATURES of the IEEE Policies. In addition, the LMSC Chair shall be an authorizer signer for the account. The LMSC Treasurer shall be notified of the bank, account number, account title and approved signers for the account.

5. The WG/TAG may open and maintain one or more WG/TAG merchant accounts, each linked to the WG/TAG bank account, whose title shall begin with "IEEE" and include the identity of the WG/TAG. The LMSC Treasurer shall be notified of each merchant account, account number and account title.
6. The WG/TAG shall maintain its own accounting and financial records under the supervision of the WG/TAG Treasurer.
7. The WG/TAG Treasurer shall submit a report to the LMSC Treasurer one week before each LMSC Plenary session summarizing all financial activity of the WG/TAG since the last such report. The report shall be in a format specified by the LMSC Treasurer. In addition, the following material shall be provided with each report.

Registration reports for each session since the last such report for which fees were collected.

Copies of all invoices received since the last such report

Copies of all checking and merchant bank statements received since the last such report

8. The WG/TAG Treasurer shall present a report to the WG/TAG membership at each Plenary session summarizing all financial activity of the WG/TAG since the last such report. The report shall be in a format specified by the LMSC Treasurer.
9. The WG/TAG Treasurer shall submit an audit package to the LMSC Treasurer by March 1 of each year that covers the financial activity of the WG/TAG during the previous calendar year. The package shall contain all material required by the LMSC Treasurer and IEEE Audit Operations for review by the LMSC Treasurer and audit by IEEE Audit Operations.
10. The WG/TAG may collect a registration fee from attendees of its interim sessions or the interim sessions of its sub groups.
11. The registration fee for each interim WG/TAG or WG/TAG sub group session shall be approved by the WGEC/TAGEC and shall be submitted to the LMSC EC for review.
12. If the WG/TAG is acting as the common host for a joint interim session with other WGs/TAGs, the registration fee collected from attendees that are not attendees of the host WG/TAG session may not be used for the operating expenses of the host WG/TAG that are not directly associated with the interim session.
13. The WG/TAG may collect other funds from its members if and only if approved by the LMSC EC
14. The budget for each interim session shall be submitted to the LMSC Treasurer for review at least two months before the start of the session or within one week of session notice, whichever occurs later, and upon any significant

revision of the budget.

15. The budgets for future sessions shall be submitted to superior IEEE entities as required and in particular as required by Section 10.2.6 STANDARDS MEETING BUDGETS of the IEEE Policies.
16. All funds collected by a WG/TAG shall be deposited into the WG/TAG bank account.
17. All funds retained by a WG/TAG shall be held in the WG/TAG bank account.
18. The WG/TAG may disburse and/or retain funds as appropriate to pay approved expenses and maintain an operating reserve.
19. The maximum and minimum size of the WG/TAG operating reserve shall be set by the LMSC EC.
20. All WG/TAG expenditures shall be approved by the WGEC/TAGEC with the sole exception that WGEC/TAGEC members may each be reimbursed from the WG/TAG treasury for up to \$200 of WG/TAG expenses incurred between WG/TAG sessions without specific approval of the WGEC/TAGEC.
21. All reasonable and appropriate expenses for goods and/or services associated entirely with a WG/TAG or WG/TAG sub group interim session and that are provided under agreement(s) or contract(s) whose duration is not greater than that of one interim session are approved when the WGEC/TAGEC approves the date and site for the interim session.
22. All contracts and agreements for the provision of goods and/or services whose value is greater \$5000 or whose duration is greater than one interim session require the approval of the WGEC/TAGEC and the LMSC EC.
23. All purchases of equipment shall be reported to the LMSC Treasurer.
24. Any financial authority not specifically granted to a WG/TAG is specifically prohibited.

### **5.1.y.2 WG Financial Operation with Joint Treasury**

Two or more WGs/TAGs that have been individually approved by the LMSC EC to operate with treasury may, with the approval of the LMSC EC, elect to operate with a joint treasury. WGs/TAGs that operate with a joint treasury shall have no other treasury.

The operation of a joint treasury is subject to the same requirements as a WG/TAG operating with treasury with the following exceptions.

1. The Joint Executive Committee overseeing the joint treasury shall be a union of the WG/TAG Executive Committees of the WGs/TAGs operating with the joint treasury. The Chair of the Joint EC shall be selected by the Joint Executive Committee and shall be the Chair of one of the participating WGs/TAGs.

2.

### **5.1.y.3 WG Operation without Treasury**

A registration fee may be collected from the attendees of a WG/TAG or WG/TAG sub group interim session without the WG/TAG or parent WG/TAG needing authorization to operate with treasury or having to having to make a financial report to the LMSC Treasurer if the WG/TAG is **not** the session host and **all** of the following conditions are met.

1. The Host is solely responsible for the logistical and financial planning and operation for the session. The host may contract with one or more meeting planners or similar entities to assist with and/or implement the Host's responsibilities. Such planning and execution shall be done in close consultation and coordination with the WG/TAG or WG/TAG sub group Chair(s).
2. The Host is responsible for all contracts and agreements for goods and services provided for the session. Neither the WG/TAG, WG/TAG sub group nor any member of the group shall be a party to any of these contracts or agreements and may not force the terms of any of these contracts or agreements.
3. The Host may charge session attendees a registration fee to offset the session expenses directly associated with the session, but not other operating expenses of a WG/TAG or WG/TAG sub group, to minimize the financial liability of the Host. Such a registration fee may not be greater than that required for the session to nominally break even. The recommended budgeting approach is for the Host to budget a contribution to the session that is decreased or eliminated in the event of a surplus.
4. The Host is responsible for collecting the registration fees, if any, and paying the session expenses.
5. The Host is responsible for the session deficit and owns the session surplus. The Host may retain or dispose of a session surplus in any manner it chooses with the restriction that the WG/TAG, WG/TAG sub group and/or any member of the group shall not be granted any beneficial interest in the surplus. The host may offer any portion of or the entire surplus to the Host on the next interim session to partially offset the direct expenses of that session.
6. The WG/TAG or WG/TAG sub group has no responsibility for any session deficit and no beneficial claim on any session surplus.
7. The WG/TAG or WG/TAG sub group does not maintain checking or merchant accounts in its own name or the name of any other IEEE entity and has no claim of ownership or beneficial interest in the funds in any other financial account.

If any these conditions are not met, and in particular if the Working Group claims any beneficial interest in any portion of interim session surplus funds, then the Working Group is operating with treasury and its financial operations must comply with the rules for a WG/TAG operating with treasury.”



**5.36 II Network Services contract update - Rigsbee 5 09:32 AM**

Contract is signed and sent to IEEE for approval.

5

A question was asked as to why it was not known that there would be no high speed at the convention center until very shortly before the plenary, causing the entire agenda to be reshuffled. A point was made that we are paying for world class network support and don't seem to be getting it. Buzz responded that we had told the supplier not to do an on site survey for planning purposes.

10

**5.37 II Wireless bridge evaluation test - Rigsbee 1 09:37 AM**

We have arranged to have a supplier bring a high speed wireless bridge for our evaluation this week.

**5.38 MI Network services press release - Rigsbee 4 09:38 AM**

## 5.38 Motion

- To approve the 802/I.D.E.A.L joint press release on network services contract award.
- Moved: Rigsbee

**Moved: Rigsbee/Quackenbush**

The time for the special orders arrived and business proceeded to the next item.

5

5.39 MI Interpretation of P&P on when officers assume their office - O'Hara 5 09:42 AM

Bill Quackenbush read a statement and has left the meeting.

He was joined by Mat Sherman, Bob Heile, and Tony Jeffree. Each stating that they are departing for the same reason.

Given that

- (1) the issue of 802.20 officer election confirmation is controversial and
- (2) Ms Gorman's statement in response to Paul Nikolich's question on IEEE indemnification was sufficiently conditional that I do not judge that it ensures indemnification by the IEEE even if one believes one's actions and/or statements are legal, rational and non abusive,

I am leaving this LMSC EC meeting before the discussion and voting on the 802.20 officer confirmation issue, as I am unwilling to compromise my family's financial security for the luxury of discussing and voting what I believe to be rational positions on this issue.

I request that my departure from this meeting and the reasons for my departure be recorded in the meeting minutes.

Bill Quackenbush  
Treasurer, IEEE 802  
November 10, 2003

# Motion

Whereas,

The intent of the members of the LMSC Executive Committee is to encourage the smooth and efficient transfer of leadership when a Working Group or Technical Advisory Group elects new officers, and

There is a conflict in the Policies and Procedures of the LMSC that can prevent the smooth and efficient transfer of the leadership of a Working Group or Technical Advisory Group when the confirmation of the Working Group or Technical Advisory Group officers by the LMSC Executive Committee takes place at any other time than the closing meeting of the Executive Committee during a plenary session,

Therefore,

It is resolved that the interpretation of the LMSC Policies and Procedures is that an officer of a Working Group or Technical Advisory Group shall assume their office immediately upon confirmation by the Executive Committee, according to section 3.2 of the Policies and Procedures. If such confirmation is of a Working Group or Technical Advisory Group chair, the chair shall immediately be seated as a member of the Executive Committee. The term of any prior officer shall terminate upon confirmation of an officer for the same position by the Executive Committee.

Moved: Bob O'Hara

Seconded:

**Moved: O'Hara/Stevenson**

A friendly amendment was suggested to remove the second paragraph. The amendment was not accepted.

5

**Passes: 4/3/1**

5.40 **II** **802.20 Appeal Update** - **Nikolich** **5** **09:47 AM**

Paul presented the following material.

# 802.20 Confirmation of Officers

- 0) Motion to resolve ambiguity with respect to when a confirmed officer takes office (O'Hara).
- 1) any non-confirmation vote that does not have a rationale attached will not be counted. (an abstain vote will not be counted)
- 2) it is up to the voter to decide how to accompany their rationale with their vote for non-confirmation. A valid ballot must contain an unambiguous vote (yes/no/abstain). A valid non-confirmation vote must include a rationale that can be read by the tally taker.
- 3) A motion is made and seconded to confirm a candidate, the candidate will be invited to give a statement on their behalf (no more than 2 minutes), the EC will be given 5 minutes for Q&A and discussion, the EC members submit their vote via paper ballot, IEEE-staff members will tally the ballots and announce the result (3 minutes).
- 4) if an officer is not confirmed, the non-confirmation rationale(s) will be given to the recording secretary for entry into the minutes.
- 5) The ballots will be destroyed by IEEE-staff

A point was made that the process described does not respond to the requirements of the appeals board, that no EC rationale is provided as a result of this process, only a collection of individual rationales.

5 An objection to the conduct of a secret ballot was expressed. The opinion expressed was that the members of the EC are responsible to the membership and secret ballots do not fulfill that responsibility.

Paul said that he believes that the only way to comply with the requirement of the appeals board is to write the reasons down. This requires a written ballot.

10

5.41 MI Confirmation of election of Jerry Upton as chair of 802.20 - Nikolich 10 09:52 AM

**Motion: To confirm the election of Jerry Upton as chair of 802.20.**  
**Moved: O'Hara/Stevenson**

15 A brief statement was made by Jerry Upton regarding his qualifications for the position.

Mark Klerer read a statement into the minutes.



Despite the fact that the Executive Committee did not publicly state any reason for its refusal to confirm the March 2003 802.20 elections, as was its right, I believe the Executive Committee had adequate justification for its refusal to confirm the 802.20 elections. This was true in March and remains true in November.

The IEEE Policies and Procedures are designed to comply with the ANSI accreditation requirements which in turn are designed to meet anti-trust law requirements. However, even the best written procedures can not assure this openness unless they are also accompanied by actions that uphold these rules when there is good reason to believe that the standards setting process has been subverted. I believe that this is a reason the Executive Committee has been given the power to confirm or not confirm officer election results.

Reasons for not allowing the March 2003 election results to stand are related to voting irregularities during the March election. The evidence that irregularities and violations of IEEE rules have occurred is statistical. It is the same kind of evidence on the basis of which the FDA approves drug applications. It is the same kind of evidence on which the SEC launches stock market manipulation investigations.

“Ballot Stuffing”: The MBWA SG prior to the March 2003 session had average attendance of approximately 50 individuals. The first working session of 802.20 was held in January 2003 and again was only attended by 61 individuals. For the March 2003 session, when initial voting rights were granted, attendance mushroomed to 238 individuals, more than 4 times the previous average, and with 185 individuals having gained voting rights for the election. The attendance was composed of multiple individuals attending from the same organization with some organizations having supplemented their own staff by the use of consultants. (This is based on self-identification of several consultants at a subsequent meeting). The next session, an interim session, held in May at exactly the same venue as the March meeting was attended by only about 65 of the individuals that had gained voting rights. This is clear circumstantial evidence of an “invisible” hand at work in stuffing the ballot boxes.

“Block Voting”: Both Jerry Upton and Eshwar Pittampalli had never attended an MBWA/802.20 meeting before. They presented no paper during the 4 day session, they made no technical comments during the 4 day session

and asked no technical questions. Not until their nomination did either candidate say anything. Yet these candidates were elected; such a result is strong evidence of block voting.

“Voting rights improperly obtained”: In addition to the above there were numerous individuals that had signed in to 802.20 while also having signed into other WGs for the same time interval. (In at least one case, an individual who signed in to 802.20 is mentioned in the minutes of another WG as being there during the same time interval, participating in the discussion and being the mover on a motion). These instances were frequent enough that these individuals would not have been voting members in 802.20 if they had not signed in to both groups. The number of instances was sufficient to influence the voting outcome. Indeed the balloting on Gang Wu’s candidacy was a tie during one round.

I believe that the above provides sufficient reason that the elections results cannot and should not be confirmed.

The Executive Committee is challenged with the task of assuring that the IEEE 802 process stays open and is the final IEEE LMSC internal defense mechanism against process abuses. Confirmation of results of an election that was subject to so many irregularities will only encourage further irregularities in the future. The executive committee’s decision not to confirm the March 2003 election was clearly reasonable, as it is based entirely on the rules of the IEEE and is consistent with enforcement of the minimum ANSI accreditation requirements. The executive committee reacted appropriately to a severely flawed election and thereby preserved the integrity of the standard-setting process in the 802.20 working group. The reasons were applicable then and are still true now. The election of all three candidates should, therefore, not be confirmed.

Moved: to call the question by Stevenson

Motion to call the question: fails 3/5/0

There being no more discussion, the main motion is moved.

5 **Main motion Passes: 5/3/0**

5.42 **MI Confirmation of election of Gang Wu as vice-chair of 802.20 - Nikolich 10 10:02 AM**

10 **Motion: to confirm the election of Gang Wu as vice chair of 802.20.**

**Moved: Marks/Stevenson**

A brief statement was made by Gang Wu regarding his qualifications for the position.

15 **Main motion passes: 6/3/0**

5.43 **MI Confirmation of election of Eshwar Pittampalli as vice-chair of 802.20 - Nikolich 10 10:12 AM**

**Motion: to confirm the election of Eshwar Pittampalli as vice chair of 802.20.**

**Moved: Stevenson/Rigsbee**

20

A brief statement was made by Eshwar Pittampalli regarding his qualifications for the position.

**Main motion passes: 6/2/1**

25

5.44 **DT SEC meeting schedule (rules, SA, etc.) - Nikolich 3 10:22 AM**

# SEC Chair's Meetings

TIME	Purpose	Who	Location
<b>MON</b>			
5:30p-6:30p	WG/TAG Financial Operations Workshop	Quackenbush	Enchantment
<b>TUES</b>			
7a-9a			
9a-11a			
10a-NOON	802 Re-organization discussion	Nikolich/Frazier	TBD (>30 people)
1p-3p			
3p-4p	802 Task Force	Nikolich/IEEE staff	Boardroom
4p-5p			
5p-6p	Get802 discussion	Nikolich/Walker	Boardroom
<b>WED</b>			
9a-10a			
10a-11a			
11a-1p			
1p-3p			
3p-5p			
<b>THU</b>			
7a-9a			
9a-11a			
11a-NOON			
NOON-3p	Financial Operations Rules Ballot Resolution	Quackenbush	Boardroom
3p-5p			
6p-8p	FYI: RAC meeting	Jeffree	Boardroom
7p-9p			
9p-11p			

- 5 **Motion to adjourn.**  
**Moved: Stevenson/Kerry**  
**No objections.**

Meeting adjourned at 10:34am

**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 Coexistence TAG tbd
- 11:50 802.20 Mobile BWA Upton
- 11:55 ECSG 802 Handoff Johnston
  
- 11:55 Tutorials Nikolich
- 11:57 Meeting Arrangements Rigsbee
- 12:00 ADJOURN

# IEEE-SA Standards Board Bylaws on Patents in Standards

## 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.





# Inappropriate Topics for IEEE WG Meetings

- Don't discuss licensing terms or conditions
- Don't discuss product pricing, territorial restrictions or market share
- Don't discuss ongoing litigation or threatened litigation
- Don't be silent if inappropriate topics are discussed... do formally object.

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



Geoff presented the slides above at the meeting, without modification.

# 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.

# 802<sup>®</sup> Working Group Award Recipients

- IEEE 802a
  - Tony Jeffree, Mick Seaman
- IEEE 802.3aj
  - Grow, Law, Carlson, Berger
- IEEE 802.11h
  - Kerry, Cole, Kasslin, Myles, Black, Petrick, Ecclesine, Hansen, Soomro, Green
- IEEE 802.15.2
  - Heile, Shellhammer, Golmie, Lansford, Cypher, Arunachalam
- IEEE 802.15.3
  - Heile, Gilb, Allen, Barr,
- IEEE 802.15.4
  - Heile, Kinney, Jamieson, Gutierrez, Naeve, Callaway, Bourgeois, Moridi, Gorday, Cypher, Poor

# Operating Rules Update

## Author:

Matthew Sherman  
2<sup>nd</sup> Vice Chair, IEEE 802  
BAE Systems - CINR  
Matthew.Sherman@BAESystems.com

**Date:** November 10<sup>th</sup>, 2003

- In process ballots (To be voted for approval Friday)
  - Precedence (Matthew Sherman)
  - WG Financial Operations (Bill Quakenbush)
  
- Met with Rules Subcommittee 11/9/03
  - Conducted resolution on both ballots
  - Further resolution on Financial Operations required
    - Session for Thursday (See Bill Quakenbush)

- Forthcoming ballots
  - NONE!
- Effort to restructure existing P&P
  - Will focus on complete rewrite of existing rules along current SA Model P&P
  - Recommended modifications to be presented at next plenary meeting

**IEEE Project 802  
Statement of Operations  
July 2003 Plenary Meeting  
San Francisco, CA  
As of October 31, 2003**

Meeting Income	Actual	Budget	Deviation
<b>Net Registrations</b>	<b>1,378</b>	1,100	278
691 Registrations @ \$300	207,300		
687 Registrations @ \$350	240,450		
17 Cancellation @ \$50	850		
0 Cancellations @	0		
1 Other @ \$100	100		
Registraion Subtotal	<u>448,700</u>	346,500	102,200
0 Deadbeat Payment @ \$350	0	0	0
Interest	67	150	(83)
Other	100	0	100
<b>TOTAL Meeting Income</b>	<u><u>448,867</u></u>	<u><u>346,650</u></u>	102,217
Meeting Expenses	Actual	Budget	
Audio Visual Rentals	9,614	10000	386
Audit	4,509	0	(4,509)
Bank Charges	215	278	64
Copying	2,571	5500	2,929
Credit Card Discounts & Fees	11,381	9356	(2,025)
Equipment Expenses	3,309	7000	3,691
Get IEEE 802 Contribution	102,675	82500	(20,175)
Insurance	0	0	0
Meeting Administration	71,289	60760	(10,529)
Misc Expenses	3,781	1000	(2,781)
Networking	33,126	30500	(2,626)
Phone & Electrical	1,823	2100	278
Refreshments	105,191	88000 (1)	(17,191)
Shipping	2,446	2000	(446)
Social	93,497	38500 (2)	(54,997)
Supplies	788	500	(288)
<b>TOTAL Meeting Expense</b>	<u><u>446,215</u></u>	<u><u>337,994</u></u>	(108,221)
<b>NET Meeting Surplus/(Deficit)</b>	<u><u>2,652</u></u>	<u><u>8,657</u></u>	(6,004)
Notes (1) Refreshments per registration	76	80	4
(2) Social per registration	68	35	(33)
(3) Pre-Registration ratio	0.50	0.75	
Reserve for unbilled expenses from prior meetings	0		
Reserve for other outstanding commitments	3,130		
Expenses prepaid for current meeting	9,200		
<b>November 2003 Operating Reserve</b>	<u><u>220,259</u></u>		



# 802.1 – Activities & status

Tony Jeffree, 802.1 WG Chair

11 November 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 TG Chair: Dolores Sala
- Link Sec TG Secretary: Allyn Romanow
- Maintenance of Email exploder: Hal Keen

# Status of current projects - (1)

- 802.1Q - VLANs
  - PAR for revising the standard (P802.1Q-Rev) has been approved – main work will be general cleanup plus alignment with revisions to MAC Bridge standard (802.1D)

# Status of current projects - (2)

- P802.1D-Rev – Revision of 802.1D (formerly P802.1y)
  - Sponsor recirculation ballot in progress
- P802.1X-Rev – Revision of 802.1X
  - WG recirc ballot completed
  - Comment resolution to be done this week

# Status of current projects - (3)

- Link layer discovery (P802.1AB)
  - Third Task Group ballot completed
  - New draft available on the 802.1 website
  - Expect WG ballot in November/December timeframe
- 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:
  - Work continuing on candidate mechanisms and input documents
  - Further interim draft generated
  - Working on the development of a second PAR to address aspects of OAM, provisionally entitled “Link Layer Transport Fault Management”, to support provider bridging.
- P802b registration procedures related to the use of OID arcs in 802:
  - Sponsor ballot completed; minor corrections to be made
  - Recirculation during Nov/Dec followed by submission to Rev Com

# Status of current projects - (5)

- Link Security Task Group
  - MAC Security PAR now approved
  - Expecting to submit a second “Key Agreement” PAR this week as an amendment to 802.1X



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# **IEEE 802.3 Working Group**

## **10 November 2003**

Robert M. Grow  
Chair, IEEE 802.3 Working Group  
[bob.grow@ieee.org](mailto: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)

# P802.3ah 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
- In Working Group ballot
  - Will be processing WG 1<sup>st</sup> recirculation ballot comments
  - Prepare for WG 2<sup>nd</sup> recirculation ballot

# P802.3ak 10GBASE-CX4

---

- Extend XAUI interface to become a 10 GbE PHY for operation over twinax cable
- In Sponsor ballot
  - Will be resolving comments to 2nd Sponsor recirculation ballot on P802.3ak/D5.2
  - Prepare for 3<sup>rd</sup> Sponsor recirculation ballot

# 10GBASE-T Study Group

---

- 10 GbE PHY for operation over twisted pair copper cable
- Meeting plan
  - Technical presentations
  - PAR approval

# Other Activities

---

- Three Tuesday evening calls for interest
  - 6:30 10Gbps on FDDI grade MM fiber
  - 7:30 Backplane Ethernet
  - 8:30 2.5 Gb/s
- Interpretations, liaison matters, etc.
- Revision of IEEE Std 802.3

# IEEE 802.3 Standards

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- 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 802.3aj-2003 (26 Sep 2003)
- IEEE Std 1802.3Rev-2001\*

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

# This Week's Meetings

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- Opening WG plenary starts at 1:00pm
- TF and SG meetings Tues morning through Thurs noon
- Closing WG plenary Thursday 1:00pm
- Both 802.3 plenary and most TF/SG meetings at convention center
- 802.3 Web Site: [www.ieee802.org/3](http://www.ieee802.org/3)



82nd Session of the IEEE 802.11 WG

# Wireless Local Area Networks

November 9th-14th, 2003, Albuquerque, NM



[www.ieee802.org/11](http://www.ieee802.org/11)

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

# 802.11 Activities MAC & Others

Wireless Next Generation SC  
Globalization & Harmonization

802.11  
Publicity SC

MAC  
Layer

802.11  
MAC

802.11 / TGk  
Radio Resource Measurement

802.11 / TGm  
802.11 Standard Maintenance

802.11 / TGn  
High Throughput

802.11 / FR SG  
Fast Roaming / Fast Handoff

802.11e / TGe  
MAC Enhancements - QoS

802.11f / TGF  
Inter-Access Point Protocol

802.11i / TGi  
Enhanced Security  
Mechanisms

802.18 TAG  
Radio-Regulatory

802.19 TAG  
Coexistence

# 802.11 Activities PHY

PHY  
Layer

Infra-Red  
(IR)

802.11 IR  
1 / 2 Mbit/s

2.4 GHz (FHSS)  
Frequency Hopping Spread Spectrum

802.11 FHSS  
1 / 2 Mbit/s

2.4 GHz (DSSS)  
Direct Sequence Spread Spectrum

802.11 DSSS  
1 / 2 Mbit/s

802.11b / TGb  
High Data Rate Extension  
5.5/11 Mbit/s

802.11b-cor1 / TGb-cor1  
Corrigendum MIB

802.11g / TGg  
Data Rates >20 Mbit/s

5 GHz (OFDM)  
Orthogonal Frequency Division Multiplexing

802.11a / TGa  
High Data Rate Extension  
6/12/24 Mbit/s  
Optional 9/18/36/54 Mbit/s

802.11h / TGh  
Spectrum Managed  
802.11a

802.11d / TGd  
Regulatory Domain Update

802.11j / TGj  
4.9 - 5 GHz Operation in Japan

802.11 / WAVE SG  
Wireless Access for the Vehicular Environment

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# 82nd IEEE 802.11 WIRELESS LOCAL AREA NETWORKS SESSION

Hyatt Regency Albuquerque, 330 Tijeras, Albuquerque, NM 87102, USA

PLENARY

November 9th-14th, 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			802.11 WG, TG, SG, SC EDITORS MEETING		802.11 WG CHAIRS ADVISORY COMMITTEE	
08:00-10:00		802 EC MEETING	TGK TGI TGE PSC FR SG TGN TGI TGK WNG SC TGM		WAV SG TGN TGE TGK WNG SC	IEEE 802.11 WORKING GROUP CLOSING PLENARY
10:00-10:30			Break	Break	Break	Break
10:30-11:00				IEEE 802.11 WORKING GROUP		
11:00-11:30		802 OPENING PLENARY	WAV SG TGI TGE TGN FR SG	MID-SESSION PLENARY	WAV SG TGN TGE TGK WNG SC	CLOSING PLENARY (Continued)
11:30-12:00						
12:00-12:30			Lunch	Lunch	Lunch	12:30 pm Hard Stop Time
12:30-13:30						
13:30-15:30		WIRELESS 802 JOINT OPENING PLENARY 802.11 / 15 / 18 / 19 / 20	TGM TGI TGE TGN FR SG TGN TGI TGK TGJ TGM	WAV SG TGI TGE TGK TGJ		802 EC MEETING
15:30-16:00	11/15/18/19/20 LEADERSHIP MEETING	Break	Break	Break	Break	
16:00-17:00		TGI TGK TGE TGN WNG SC	TGM TGI TGE TGN FR SG TGN TGI TGK TGJ TGM	WAV SG TGI TGE TGK TGJ		
17:00-18:00	NEW MEMBERS ORIENTATION			Break		
18:00-18:30	Break	Dinner	T3 Dinner	Social Evening	Dinner	
18:30-19:30						
19:00-19:30		T1				
19:30-20:00	802.11 WG CHAIRS ADVISORY COMMITTEE (CAC)		T4		WAV SG TGI FR SG TGK TGJ	Session Hour Limits
20:00-20:30		T2	TGM TGI TGE TGN FR SG			
20:30-21:00						
21:00-21:30						
21:30-22:00			15			
22:00-22:30						

## 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

## TASK GROUP E OBJECTIVES FOR THIS SESSION

802.11 - MAC Enhancements - QoS

CHAIR - JOHN FAKATSELIS / VICE-CHAR - DUNCAN KITCHIN

- Resolve LB#59 comments, generate a new version of the draft work towards submitting a recirculation Ballot
- Reconfirm 802.11e PAR

## TASK GROUP I OBJECTIVES FOR THIS SESSION

802.11 - Enhanced Security Mechanisms

CHAIR - DAVE HALASZ

- Address comments from re-circulation letter ballot.

## TASK GROUP J OBJECTIVES FOR THIS SESSION

802.11 - 4.9 - 5 GHz Operation in Japan

CHAIR - SHEUNG LI

- Review Japanese Standards Activities
- Review Technical Presentations
- Select Candidate Draft Proposal
- Complete Comment Resolution
- Decide Whether or Not to Issue Recirculation Ballot

## TASK GROUP K OBJECTIVES FOR THIS SESSION

802.11 - Radio Resource Measurements

CHAIR - RICHARD PAINE

- Technical Presentations
- Letter Ballot Work
- Letter Ballot Vote

## TASK GROUP M OBJECTIVES FOR THIS SESSION

802.11 - Standard Maintenance

CHAIR - BOB O'HARA

- Respond to interpretation requests received
- Solicit further interpretation requests
- Begin draft changes to standard to clarify areas identified in interpretation requests and list of work items developed

## TASK GROUP N OBJECTIVES FOR THIS SESSION

802.11 - High Throughput

CHAIR - MATTHEW SHOEMAKE

- Adopt channel models
- Adopt functional requirements
- Adopt comparison criteria
- Issue a call for proposals
- New Officer Elections

## PUBLICITY STANDING COMMITTEE OBJECTIVES FOR THIS SESSION

802.11 - Publicity

CHAIR - BRIAN MATHEWS

- Reports from industry groups
- Discuss press coverage of 802.11 & 802.15
- Discuss upcoming events requiring press release
- 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, radio regulatory
- Liaison Updates
- Review and discuss WIG #5 activities and presentations
- Presentations from Wireless Performance methodology, ESS Mesh Networking, WLAN Security Maintenance
- Prepare for IEEE Interim, January 2004

## FR STUDY GROUP OBJECTIVES FOR THIS SESSION

802.11 - Fast Roaming / Fast Handoff

CHAIR (INTERIM) - CLINT CHAPLIN

- Summarize existing state of fast roaming and fast handoff
- Discuss if Task Group is necessary
- Discuss and vote to reauthorize Study Group
- Take submissions & presentations on solutions to fast roaming & fast handoff to be used to justify Task Group formation
- Work on PAR and 5 Criteria, with the goal to approve to forward to the full WG



## WAVE STUDY GROUP OBJECTIVES FOR THIS SESSION

802.11 - Wireless Access for the Vehicular Environment (formerly DSRC)

CHAIR - LEE ARMSTRONG

- Updates from on-going DSRC program - ASTM, ISO, IEEE P1609 & P1556 WGs
- Review, edit, approval of PAR
- Review, edit, approval of criteria
- Organize, prepare for future Task Group effort

## IEEE 802.11 WLAN WORKING GROUP SESSIONS

All interested parties are welcome to attend the public meetings of the IEEE 802.11 Working Group sessions, for which there is a registration fee, to defray the cost of the session. At Plenary sessions this is administered by the IEEE 802 LMSC organization. Whereas, the Interim sessions are normally managed by our sponsoring host. This is in-addition to your individual hotel accommodation, and travel expenses. Click here to view an [Example Plenary and Interim Session Agenda](#), or review the latest Combined Tentative Agenda for the next IEEE 802.11 WG Session below.

### FUTURE SESSIONS

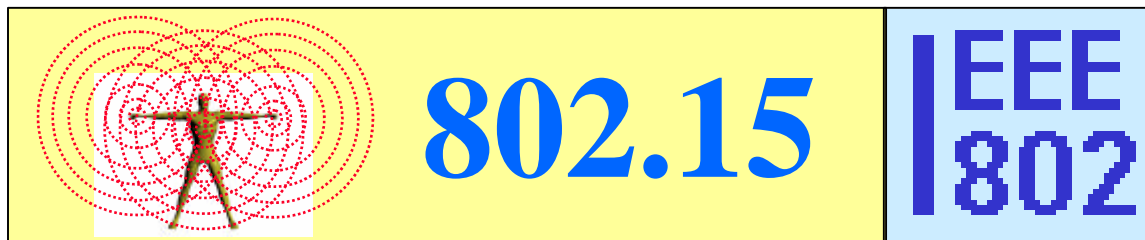
For Year 2003	<i>Interim Sessions to be Allocated if Required</i>	Session	Type
November 9th-14th	<a href="#">Hyatt Regency Albuquerque, NM, USA</a> 802.11 WG, TGs, SGs & SC Combined Agendas includes the WG Objectives & WG Graphic Recurring Agenda Information Session Announcement Session Hotel Booking Session Registration <u>Other Information:</u> November 2003 Opening 802 Plenary Presentation November 2003 802 Tutorial Agenda <u>General Information:</u> 802.11 WG New Participant Orientation 802.11 WG Current PAR Timelines 802.11 WG Policies & Procedures IEEE 802 Patent Policy	82  <a href="#">XLS</a> Rev.0  <a href="#">PDF</a> or <a href="#">HTML</a> <a href="#">PDF</a> or <a href="#">HTML</a> <a href="#">Click Here</a> <a href="#">Register Here</a>  <i>PPT</i> <sup>(1)</sup> <i>DOC</i> <sup>(1)</sup> or <i>HTML</i> <sup>(1)</sup>  <a href="#">PDF</a> <a href="#">PDF</a> <a href="#">PDF</a> <a href="#">PDF</a>	Plenary
For Year 2004	<i>Interim Sessions to be Allocated if Required</i>	Session	Type
January 11th-16th	<a href="#">The Fairmont Hotel Vancouver, Vancouver, BC, Canada</a>	83	Interim*
March 14th-19th	<i>Location To Be Determined</i> <sup>(3)</sup>	84	Plenary
May	<i>To Be Determined</i> <sup>(2)</sup>	85	Interim*
July 11th-16th	<a href="#">Portland Hilton &amp; Executive Tower, Portland, OR, USA</a>	86	Plenary
September	<i>To Be Determined</i> <sup>(2)</sup>	87	Interim*
November 14th-19th	<a href="#">Hyatt Regency San Antonio, TX, USA</a>	88	Plenary

# Archive, Mailing Lists, URL

- Web Page: [www.ieee802.org/11/](http://www.ieee802.org/11/)
- Technical Reflector: [stds-802-11@ieee.org](mailto:stds-802-11@ieee.org)
- General Mailing: [stds-802-11-m@ieee.org](mailto:stds-802-11-m@ieee.org)
- Joint 802.11/15: [stds-802-11-jt11-15@ieee.org](mailto:stds-802-11-jt11-15@ieee.org)
- CAC members only: [stds-802-11-cac@ieee.org](mailto:stds-802-11-cac@ieee.org)
- Voter/Nearly: [stds-802-11-voters@ieee.org](mailto: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.

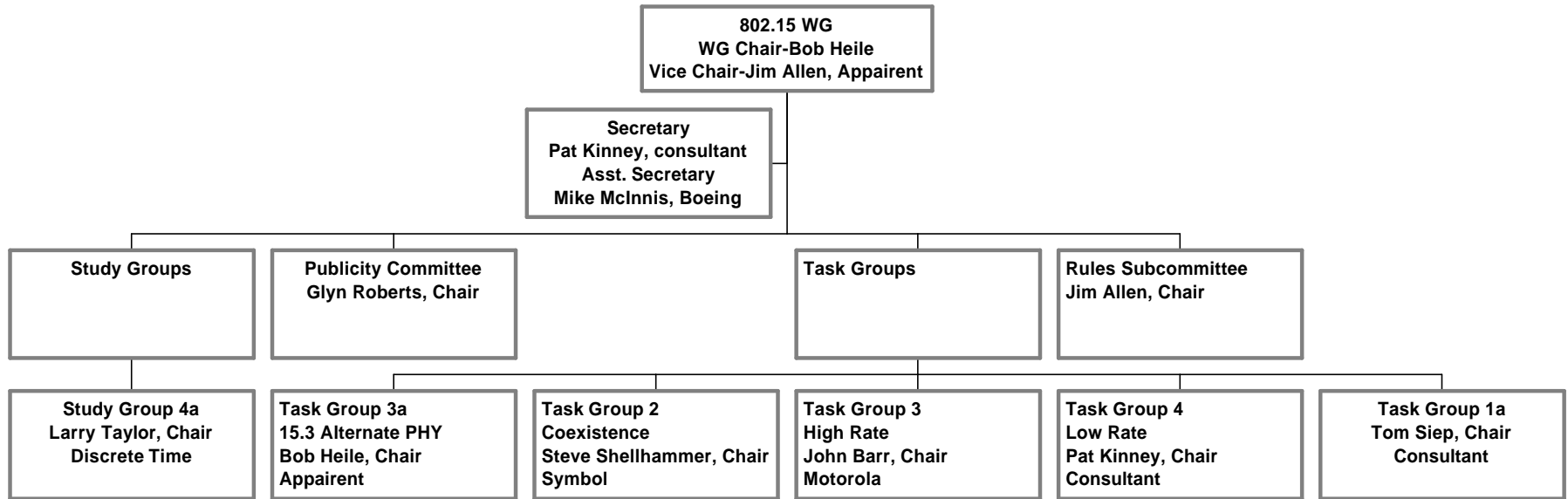
To add your name to the IEEE 802.11 WG mailing lists please send an e-mail to the WG 1<sup>st</sup> Vice-Chair: [\*\*apetrick@icefyre.com\*\*](mailto:apetrick@icefyre.com)



27th Session of meetings of the  
IEEE 802.15 Working Group for  
Wireless Personal Area Networks

**November 10-14, 2003**  
**Hyatt Regency Albuquerque**  
**330 Tijeras, Albuquerque, NM**  
**87102, 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](mailto:stds-802-wpan@ieee.org)
- Voter/Nearly List: [stds-802-15@ieee.org](mailto:stds-802-15@ieee.org)
- TG2 list: [stds-802-15-2@ieee.org](mailto:stds-802-15-2@ieee.org)
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- TG3a list: [stds-802-15-sg3a@ieee.org](mailto: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](mailto:alfvin@ieee.org)

# Objectives of the ABQ Meeting

## November 10-14, 2003

### **TASK GROUP 1a OBJECTIVES FOR THE MEETING**

1. **Review Draft and seek approval for Letter Ballot**

### **TASK GROUP 2 OBJECTIVES FOR THE MEETING**

1. **Not meeting**

### **TASK GROUP 3 OBJECTIVES FOR THIS MEETING:**

1. **Conference call status, including approval of any ad hoc business**
2. **Consider new work or maintenance required**
3. **Prepare Study Group Proposal as required**

### **TASK GROUP 3a OBJECTIVES FOR THIS MEETING:**

**Conduct PHY proposal down selection process**

**Other contributions (as required and time permits)**

# Objectives of the ABQ Meeting

## November 10-14, 2003

### **TASK GROUP 4 OBJECTIVES FOR THIS MEETING:**

- 1. Listen to presentations on proposed changes to security, 868-928 MHz modulation, GTS, MAC distributed clock.**
- 2. Listen to presentation on CSS dealing with resolutions from questions at San Francisco**
- 3. Listen to presentations on issues and ambiguities with current 802.15.4 standard**
- 4. Listen to presentation on slow frequency hopped PHY alternative.**
- 5. Prepare Study Group Proposal(s) as required**

### **TASK GROUP 4a OBJECTIVES FOR THIS MEETING:**

- 1. Develop list of unique capabilities to be addressed by an alternate PHY**
- 2. Listen to presentations arising from the Call for Applications**
- 3. Work on draft of the 5 Criteria**



# ABQ Meeting Graphic

R2	27th IEEE 802.15 WPAN MEETING Hyatt Regency Albuquerque, 330 Tijeras, Albuquerque, NM 87102, USA November 9th-14th, 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	TG3a	TG1a	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		802 PLENARY	TG3a	TG4	802.15 WG MEETING	TG3a	TG3	802.15 WG CLOSING								
11:00-11:30																
11:30-12:00																
12:00-12:30		Lunch	Lunch	Lunch	Lunch	Lunch										
12:30-13:00																
13:00-13:30																
13:30-14:00		802.11 / 802.15 JOINT OPENING PLENARY	TG3a	SG4a	TG3a	SG4a	TG3a	TG3								
14:00-14:30																
14:30-15:00																
15:00-15:30																
15:30-16:00	11 / 15 / R-REG LEADERSHIP MEETING	Break	Break	Break	Break	Break										
16:00-16:30	NEW MEMBERS ORIENTATION	TG3a	TG4	TG3a	TG1a	TG3a	SG4a	TG3a	TG3							
16:30-17:00																
17:00-17:30																
17:30-18:00																
18:00-18:30	Dinner	Dinner	Tut 1	Dinner	Tut 3	Break	Dinner	TG3a	SG4a	IGmmW						
18:30-19:00																
19:00-19:30																
19:30-20:00	Optional Meeting Time	TG3a	IGmmW	Optional Meeting Time	TG3a	Tut 4	Social	TG3a	SG4a	IGmmW						
20:00-20:30																
20:30-21:00																
21:00-21:30																
21:30-22:00					Tut 5											
22:00-22:30																

## Upcoming Meetings for 2004

- Interim-Vancouver, BC Jan 13-17, 2004
- Plenary-Orlando March 15-19, 2004
- Interim-TBD May 10-14, 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**

**10 November 2003**

**Hyatt Albuquerque**

# 802.16 Sessions

- #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

- **55 Members**
- **30 Potential Members**
- **25 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)**

Publ: Aug 2003

**P802.16/Conf02**  
Sponsor ballot  
done

**P802.16/Conf03**  
WG ballot done

**P802.16/Conf04**  
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

### P802.16-REVd Revision

- In Ballot
- Done early 2004 (?)

### P802.16e

- Mobile Extension
- Start: Dec 2002
- Draft to Ballot:  
Nov 2003?

## Conformance

## Coexistence

### 802.16.2-REVa Revision

- 2-11 GHz
- Sponsor Ballot  
Recirc done this  
week



# IEEE 802.16/Conformance01:

- **PICS for 10-66 GHz**
- **Approved: 12 June 2003**
- **Published: 18 August 2003**
  
- **Award Plaques (coming next time?)**
  - Working Group Chair
  - Ken Stanwood, Task Group Chair
  - Carl Eklund, Technical Editor

# P802.16-REVd

- **Gordon Antonello: Chair, Task Group d**
- **Itzik Kitroser, Technical Editor**
- **Was P802.16d (2-11 GHz System Profiles):**
  - **Amendment to base standard (802.16/a/c)**
- **Converted to Revision PAR**
- **Completed first round of WG Letter Ballot**
  - **~800 pages**

# P802.16e

- **Brian Kiernan: Chair**
- **Ron Murias, Vice Chair**
- **802.16e (Mobility):**
  - **PAR approved 11 Dec**
  - **Four Task Group Reviews cycles**
    - **Call for Comments**
  - **Comment resolutions this week**
  - **May agree this week to open WG Letter Ballot**

# 802.16 Leaders

- **Chair: Roger Marks**
- **Vice Chair: Ken Stanwood**
- **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 # 19

Michael Takefman, Chair

<http://www.ieee802.org/17>  
[stds-802-17@ieee.org](mailto: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



# Past Interims

- August 26-28, 2003
  - San Jose
- September 23-25, 2003
  - Las Vegas
- October 22-23, 2003
  - San Jose / Ottawa Teleconference



# 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

- 802.17 WG Ballot on D2.7 ends Wednesday
- Comment resolution on D2.7
  - Determine Sponsor Ballot readiness
    - Request EC (pre) authorization to begin Sponsor Ballot
- Review of 802.17a
  - Determine WG Ballot readiness



# 802.17 Meeting Schedule



	Mon	Tues	Wed	Thurs
8-12		CR D2.7	CR D2.7	Plenary Start 9am
			802.17a	
12-6	Plenary Start 2pm	CR D2.7	CR D2.7	
		802.17a	Plenary	



# Proposed Interim Sessions



- January 12-15, Vancouver, BC
- March 15-19, Orlando, FLA
- *April 2004, TDB*
- May 2004, TBD
- *June 2004, TDB*

802.18 has several NPRMs from the FCC to develop responses to. There are also inputs to UWB to discuss, as well as the Chinese WAPI standard, and 802.11d passive scanning mode.

Jim Lansford has resigned. Steve Shellhammer is appointed as chair pro tem. Paul is accepting volunteers for the position of chair of the 802.19 TAG.

Paul announced that Jerry Upton was confirmed as chair of 802.20 at this morning's meeting of the Executive Committee.

5

# **802.20 Session Overview**

## **November 10- 13, 2003**

**Jerry Upton- Chair**

[jerry.upton@ieee.org](mailto:jerry.upton@ieee.org)

**Gang Wu – Vice Chair**

**Eshwar Pittampalli – Vice Chair**

# 802.20 Status and Session #5 Activities Overview

- Four e-mail Correspondence Groups formed during the May session:
  - Requirements: [stds-80220-requirements@ieee.org](mailto:stds-80220-requirements@ieee.org)
  - Channel and Traffic Models: [stds-80220-ch-models@ieee.org](mailto:stds-80220-ch-models@ieee.org)
  - Evaluation Criteria: [stds-80220-eval-criteria@ieee.org](mailto:stds-80220-eval-criteria@ieee.org)
  - Coexistence Issues: [stds-80220-coexistence@ieee.org](mailto:stds-80220-coexistence@ieee.org)
- Local website: <http://neptune/mbwa/index.html>



# **802.20 Session #5 Activities Overview**

## **•November Session Activities**

### **•Readout and progression of Correspondence Group work:**

#### **•Requirements (Monday & Tuesday)**

##### **•Potential drafting group activities**

#### **•Channel and Traffic Models (Wednesday)**

#### **•Evaluation Criteria (Wednesday & Thursday)**

##### **•Potential drafting activities (Wednesday and Thursday on above topics)**

#### **•Coexistence group recommendation**

##### **•Potential drafting group activities**

#### **•Other Contributions and New Business:**

##### **•Adaptation Interface for Seamless Handover between 802.20MBWA/802.11/802.15**

##### **•Status of Current Mobile Wireless Access System Standards**



# 802 Handoff ECSG Nov-03 Opening Plenary Report

David Johnston

david.johnston@ieee.org

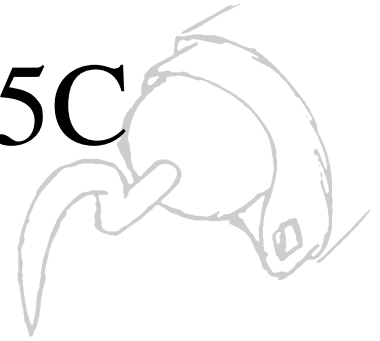
dj.johnston@intel.com

# PAR & 5C



- A PAR and 5C has been forwarded to the EC for review and approval
- This PAR and 5C goes to the WGs for approval
  - Feedback to the 802 Handoff ECSG by Tuesday 5.00pm
  - Responses to be returned to WGs by Wednesday 5.00pm
- Send to: **dj.johnston@intel.com** or **david.johnston @ieee.org**

# Accessing the PAR and 5C



- **<http://handover>**
- Click the top link **Nov 03 Meeting Documents and Document Submission**
- Select **Approved\_Handover\_PAR5C\_Sept\_03.zip**

# Tutorial Schedule

<b>Monday</b>	<b>Tuesday</b>
<b>WG/TAG Financial Workshop</b> 5:30-6:30PM	<b>Use of mmWaves for WLANs</b> 6:00-7:30PM
<b>10GBASE-T Project Overview</b> 6:30-8:00PM	<b>Chirp Spread Spectrum</b> 7:30-9:00PM
<b>Education, Mentoring &amp; Support</b> 8:00-9:30PM	<b>Campus 802.11b Network</b> 9:00-10:30PM

# EC Chair's Meetings

TIME	Purpose	Who	Location
<b>MON</b>			
5:30p-6:30p	WG/TAG Financial Operations Workshop	Quackenbush	Enchantment
<b>TUES</b>			
7a-9a			
9a-11a			
10a-NOON	802 Re-organization discussion	Nikolich/Frazier	TBD (>30 people)
1p-3p			
3p-4p	802 Task Force	Nikolich/IEEE staff	Boardroom
4p-5p			
5p-6p	Get802 discussion	Nikolich/Walker	Boardroom
<b>WED</b>			
9a-10a			
10a-11a			
11a-1p			
1p-3p			
3p-5p			
<b>THU</b>			
7a-9a			
9a-11a			
11a-NOON			
NOON-3p	Financial Operations Rules Ballot Resolution	Quackenbush	Boardroom
3p-5p			
6p-8p	FYI: RAC meeting	Jeffree	Boardroom
7p-9p			
9p-11p			

5 The meeting was adjourned at 12:00pm

Respectfully Submitted,  
Bob O'Hara  
Recording Secretary