

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

Monday, March 15, 2004 – 8:00 a.m.

Hilton Hotel, Walt Disney World, Orlando, FL

- 5 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
- Bill Quackenbush - Treasurer, IEEE 802 LAN/MAN Standards Committee
- 10 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
- 15 Mike Takefman - Chair, IEEE 802.17 – Resilient Packet Ring Working Group
- Carl Stevenson - Chair, IEEE 802.18 – Regulatory TAG
- Steve Shellhammer - Acting Chair, IEEE 802.19 – Wireless Coexistence TAG
- Jerry Upton - Chair, IEEE 802.20 – Mobile Broadband Wireless Access
- DJ Johnston - Chair, EC Study Group – Media Independent Handover

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<b>1.00</b>	<b>MEETING CALLED TO ORDER</b>	- Nikolich	<b>1</b>	<b>08:00 AM</b>
<b>2.00</b>	<b>MI APPROVE OR MODIFY AGENDA</b>	- Nikolich	<b>4</b>	<b>08:01 AM</b>
<b>3.00</b>	<b>APPROVE / MODIFY MINUTES OF PREVIOUS MEETING</b>	- Nikolich	<b>0</b>	<b>08:05 AM</b>
<b>4.00</b>	<b>II TREASURER'S REPORT</b>	- Quackenbush	<b>5</b>	<b>08:05 AM</b>
	<b>Stds Board items</b>			
<b>5.00</b>	<b>II Nov03, Feb04 Stds Board Actions (approved projects, standards, withdrawals)</b>	- Nikolich	<b>2</b>	<b>08:10 AM</b>
<b>5.01</b>	<b>II Stds Board items</b>	- Nikolich	<b>2</b>	<b>08:12 AM</b>
<b>5.02</b>	<b>II PARS to NesCom</b>	- Nikolich	<b>2</b>	<b>08:14 AM</b>
<b>5.03</b>	<b>II Drafts to Sponsor Ballot</b>	- Nikolich	<b>2</b>	<b>08:16 AM</b>
<b>5.04</b>	<b>II Drafts to Revcom</b>	- Nikolich	<b>2</b>	<b>08:18 AM</b>
<b>5.05</b>		-		<b>08:20 AM</b>
<b>5.06</b>				<b>08:20 AM</b>
	<b>SA items</b>			<b>08:20 AM</b>
<b>5.06</b>	<b>II 802 Task Force update</b>	- Nikolich	<b>5</b>	<b>08:20 AM</b>
<b>5.07</b>	<b>II IEEE Staff Introductions</b>	- Yvette	<b>5</b>	<b>08:25 AM</b>
<b>5.08</b>	<b>II Indemnification update</b>	- Kenney	<b>10</b>	<b>08:35 AM</b>
<b>5.09</b>	<b>II Get IEEE802 program update</b>	- Kenney	<b>5</b>	<b>08:40 AM</b>
<b>5.10</b>	<b>II CAG/2.5Gbps project update</b>	- Nikolich	<b>5</b>	<b>08:45 AM</b>
<b>5.11</b>	<b>II SA voting rules</b>	- Nikolich	<b>10</b>	<b>08:55 AM</b>
<b>5.12</b>		-		<b>08:55 AM</b>
<b>5.13</b>		-		<b>08:55 AM</b>
<b>5.14</b>				<b>08:55 AM</b>

5.15						08:55 AM
		LMSC items				08:55 AM
5.16	MI	LMSC Meeting Fee Waivers	-	Nikolich	2	08:57 AM
5.17	II	Tutorial schedule	-	Nikolich	5	09:02 AM
5.18	II	Officer reelection process	-	Nikolich	5	09:07 AM
5.19	II	Operating Rules update	-	M. Sherman	5	09:12 AM
5.20	II	Rules change on roll call votes	-	Takefman	5	09:17 AM
5.21	II	802.17 Drafts to RevCom/Sponsor Ballot		Takefman	2	09:19 AM
5.22	II	802 enews letter/PR	-	Klerer	5	09:24 AM
5.23	II	802.18 Radio Regulatory TAG Status Update	-	Stevenson	5	09:29 AM
5.24	II	802.19 Coexistence TAG Status Update	-	Shellhammer	5	09:34 AM
5.25	MI	802.10 Disbanding	-	Jeffree	5	09:39 AM
5.26	II	802.15 PAR announcements: 802.15.3b, 802.15.4a, 802.15.4b, 802.15.5	-	Heile	4	09:43 AM
5.27	II	802.11 PAR announcements: 802.11p, 802.11r, 802.11s	-	Kerry	3	09:46 AM
5.28	II	802.11 PAR change announcement: 802.11ma	-	Kerry	1	09:47 AM
5.29	II	802.11 Study Group announcements (2)	-	Kerry	2	09:49 AM
5.30	II	802.3 PAR announcements: 802.3ap, 802.3aq	-	Grow	2	09:51 AM
5.31	II	802.21 Officer Elections Announcement	-	Johnston	1	09:52 AM
5.32			-			09:52 AM
5.33	II	802 Reorganization	-	Nikolich	10	10:02 AM
5.34	II	Posting of IEEE meeting announcements	-	Sherman		10:02 AM
5.35	II	Plan to re-up the 802.18 SG	-	Stephenson		10:02 AM
5.36			-			10:02 AM
5.37			-			10:02 AM
5.38			-			10:02 AM
5.39			-			10:02 AM
5.40			-			10:02 AM
5.41			-			10:02 AM
5.42			-			10:02 AM
5.43			-			10:02 AM
5.44	DT	SEC meeting schedule (rules, SA, etc.)	-	Nikolich	3	10:05 AM
		ADJOURN SEC MEETING	-	Nikolich		10:05 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

1.00 MEETING CALLED TO ORDER - Nikolich 1 08:00 AM

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

5 Motion to approve the agenda - Moved Stuart, Second Carl,  
Vote: 12/0/0

3.00 APPROVE / MODIFY MINUTES OF PREVIOUS MEETING - Nikolich 0 08:05 AM

3.01 Approve/Modify Minutes of November 10, 2003 - Nikolich 0 08:05 AM

Motion to postpone approval of previous minutes till Friday - Moved Geoff, Second Bill  
vote 12/0/0

There is currently a surplus that is larger than the target reserve.

**IEEE Project 802  
Statement of Operations  
November 2003 Plenary Meeting  
Albuquerque, NM  
As of February 29, 2004**

<b>Meeting Income</b>	<b>Actual</b>	<b>Budget</b>	<b>Deviation</b>
<b>Net Registrations</b>	<b>1,149</b>	1,050	99
642 Registrations @ \$300	192,600		
507 Registrations @ \$350	177,450		
24 Cancellation @ \$50	1,200		
0 Cancellations @	0		
0 Other @ \$100	0		
Registraion Subtotal	<u>371,250</u>	332,325	38,925
0 Deadbeat Payment @ \$350	0	0	0
Interest	85	60	25
Other	<u>9,659</u>	<u>0</u>	9,659
<b>TOTAL Meeting Income</b>	<u><b>380,994</b></u>	<u><b>332,385</b></u>	<b>48,609</b>
<b>Meeting Expenses</b>	<b>Actual</b>	<b>Budget</b>	
Audio Visual Rentals	12,766	10,000	(2,766)
Audit	0	0	0
Bank Charges	244	278	35
Copying	3,086	3,500	414
Credit Card Discounts & Fees	9,939	8,973	(966)
Equipment Expenses	298	7,000	6,702
Get IEEE 802 Contrtribution	85,950	78,750	(7,200)
Insurance	0	0	0
Meeting Administration	64,925	64,025	(901)
Misc Expenses	10,510	16,000	5,490
Networking	39,483	35,888	(3,595)
Phone & Electrical	1,835	2,000	165
Refreshments	60,355	73,500 (1)	13,145
Shipping	4,324	4,000	(324)
Social	30,764	33,600 (2)	2,836
Supplies	<u>562</u>	<u>500</u>	(62)
<b>TOTAL Meeting Expense</b>	<u><b>325,041</b></u>	<u><b>338,014</b></u>	<b>12,973</b>
<b>NET Meeting Surplus/(Deficit)</b>	<u><b>55,954</b></u>	<u><b>(5,629)</b></u>	<b>61,582</b>
<b>Notes</b>			
(1) Refreshments per registration	53	70	17
(2) Social per registration	27	32	5
(3) Pre-Registration ratio	0.56	0.75	
<b>Reserve for uninvoiced expenses for this session</b>	<b>8314.00</b>		

**IEEE Project 802  
Statement of Operations  
January 2004 Interim Session  
Vancouver, BC Canada  
As of February 29, 2004**

Meeting Income	Actual	Budget	Deviation
Net Registrations	1,021	900	121
552 Registrations @ \$300	165,600	180,900	(15,300)
469 Registrations @ \$350	164,150	103,950	60,200
21 Cancellation @ \$50	1,050		
0 Cancellations @	0		
2 Other @ \$100	200		
Registraion Subtotal	331,000	284,850	46,150
0 Deadbeat Payment @ \$350	0	0	0
Interest	0	0	0
Other	3,617	0	3,617
<b>TOTAL Meeting Income</b>	<b><u>334,617</u></b>	<b><u>284,850</u></b>	<b>49,767</b>
Meeting Expenses	Actual	Budget	
Audio Visual Rentals	13,117	10000	(3,117)
Audit	0	0	0
Bank Charges	0	0	0
Copying	660	600	(60)
Credit Card Discounts & Fees	9,038	7691	(1,347)
Equipment Expenses	0	0	0
Get IEEE 802 Conttribution	0	0	0
Insurance	0	0	0
Meeting Administration	55,122	59401	4,279
Misc Expenses	652	500	(152)
Networking	29,682	35888	6,206
Phone & Electrical	2,170	2000	(170)
Refreshments	125,023	135945 (1)	10,922
Shipping	6,403	5000	(1,403)
Social	32,864	27726 (2)	(5,138)
Supplies	62	500	438
<b>TOTAL Meeting Expense</b>	<b><u>274,792</u></b>	<b><u>285,251</u></b>	<b>10,459</b>
<b>NET Meeting Surplus/(Deficit)</b>	<b><u>59,825</u></b>	<b><u>(401)</u></b>	<b>60,226</b>
Notes (1) Refreshments per registration	122	151	29
(2) Social per registration	32	31	(1)
(3) Pre-Registration ratio	0.54	0.67	
Reserve for uninvoiced expenses for this session	9,452		
Reserve for contested expenses for this session	2,000		
Reserve for uninvoiced expenses for prior session	8,314		
Reserve for other outstanding commitments	1,750		
Prepaid expenses for current session	9,200		
<b>March 2004 Operating Reserve</b>	<b>319,976</b>		

## LMSC Budget

	2003					2004				
	January .1/.3 Interims	March	July	Nov	Year	January 802 Interims	March	July	Nov	Year
	<i>Vancouver Actual</i>	<i>Dallas (DFW) Actual</i>	<i>San Francisco Actual</i>	<i>Albuquerque Actual</i>		<i>Vancouver Actual 0.780</i>	<i>Lake Buena Vista, FL Budget</i>	<i>Portland Budget</i>	<i>San Antonio Budget</i>	
<b>Exchange Rate</b>										
<b>Meeting Income:</b>										
Registrations	277	1,148	1,381	1,149		1,021	1,100	1,050	1,000	
Pre-registration fee	275	300	300	300		300	300	300	300	
Registration fee	325	350	350	350		350	350	350	350	
Average Fee	292	322	326	323		324	320	320	320	
<b>Subtotal</b>	<b>80,775</b>	<b>369,300</b>	<b>449,750</b>	<b>371,250</b>	<b>1,271,075</b>	<b>331,000</b>	<b>352,000</b>	<b>336,000</b>	<b>320,000</b>	<b>1,339,000</b>
Bank Interest	0	104	67	85	256	0	60	60	60	180
Other	1,386	6,549	20	9,659	17,614	3,617	0	0	0	3,617
<b>TOTAL Income</b>	<b>82,161</b>	<b>375,953</b>	<b>449,837</b>	<b>380,994</b>	<b>1,288,945</b>	<b>334,617</b>	<b>352,060</b>	<b>336,060</b>	<b>320,060</b>	<b>1,342,797</b>
<b>Meeting Expenses:</b>										
Audio Visual Rentals	2,083	7,981	9,614	12,766	32,444	13,117	15,000	15,000	15,000	58,117
Audit	0	0	4,509	0	4,509	0	6,000	0	0	6,000
Bank Charges	30	275	219	244	768	0	278	278	278	834
Copying	77	4,290	2,571	3,086	10,025	660	3,500	3,500	3,500	11,160
Credit Card Discounts	2,111	9,742	11,405	9,939	33,196	9,038	9,504	9,072	8,640	36,254
Equipment Purchase/Repair	0	0	3,309	298	3,607	0	9,000	9,000	9,000	27,000
IPF/Escrow/Free 802 Stds	0	85,050	102,675	85,950	273,675	0	82,500	78,750	75,000	236,250
Insurance	0	2,767	0	0	2,767	0	3,000	0	0	3,000
Meeting Planners	18,813	62,244	71,665	64,925	217,648	55,122	68,025	65,638	63,250	252,034
Misc Expenses	0	12260	3,984	10,510	26,754	652	500	500	500	2,152
Network	1,699	10,363	33,126	39,483	84,671	29,682	34,388	34,388	34,388	132,847
Phone & Electrical	283	1,534	1,823	1,835	5,475	2,170	2,100	2,100	2,100	8,470
Refreshments	39,296	77,512	105,191	60,355	282,354	125,023	91,300	71,400	80,000	367,723
Shipping	892	4,491	2,446	4,324	12,153	6,403	5,000	3,100	4,500	19,003
Social	0	33,777	93,497	30,764	158,038	32864	31,680	29,400	28,000	121,944
Supplies	235	490	788	562	2,074	62	500	500	500	1,562
<b>TOTAL Meeting Expense</b>	<b>65,518</b>	<b>312,777</b>	<b>446,821</b>	<b>325,041</b>	<b>1,150,157</b>	<b>274,792</b>	<b>362,275</b>	<b>322,626</b>	<b>324,656</b>	<b>1,284,350</b>
<b>NET to Operating Reserve</b>	<b>16,643</b>	<b>63,176</b>	<b>3,016</b>	<b>55,954</b>	<b>138,788</b>	<b>59,825</b>	<b>(10,215)</b>	<b>13,434</b>	<b>(4,596)</b>	<b>58,447</b>
<b>Opening Reserve</b>	<b>152,785</b>	<b>169,428</b>	<b>232,604</b>	<b>235,620</b>		<b>291,574</b>	<b>351,399</b>	<b>341,183</b>	<b>354,617</b>	
<b>Projected Closing Reserve</b>	<b>169,428</b>	<b>232,604</b>	<b>235,620</b>	<b>291,574</b>		<b>351,399</b>	<b>341,183</b>	<b>354,617</b>	<b>350,021</b>	
<b>Projected Closing Cash</b>		<b>230,604</b>	<b>233,620</b>	<b>289,574</b>		<b>349,399</b>	<b>339,183</b>	<b>352,617</b>	<b>348,021</b>	
<b>Meeting Contracts Liability</b>	<b>20,397</b>	<b>124,544</b>	<b>164,209</b>	<b>90,091</b>		<b>38,766</b>	<b>106,120</b>	<b>107,876</b>		
<b>Pre-Registration rate</b>	<b>0.668</b>	<b>0.598</b>	<b>0.487</b>	<b>0.538</b>		<b>0.516</b>	<b>0.600</b>	<b>0.600</b>	<b>0.600</b>	
<b>Credit Card Fee/Discount rate</b>	<b>2.61%</b>	<b>2.64%</b>	<b>2.54%</b>	<b>2.68%</b>		<b>2.73%</b>	<b>2.70%</b>	<b>2.70%</b>	<b>2.70%</b>	
<b>Refreshments per registration</b>	<b>142</b>	<b>68</b>	<b>76</b>	<b>53</b>		<b>122</b>	<b>83</b>	<b>68</b>	<b>80</b>	
<b>Social per registration</b>	<b>0</b>	<b>29</b>	<b>68</b>	<b>27</b>		<b>32</b>	<b>29</b>	<b>28</b>	<b>28</b>	
<b>Surplus/Deficit per registrator</b>	<b>60.08</b>	<b>55.03</b>	<b>2.18</b>	<b>48.70</b>		<b>58.59</b>	<b>(9.29)</b>	<b>12.79</b>	<b>(4.60)</b>	

4.01		-		08:10 AM
	<b>Category (* = consent agenda)</b>			
	<b>Stds Board items</b>			
	Nov03, Feb04 Stds Board Actions (approved projects, standards,			
5.00	II		- Nikolich	2 08:10 AM
	withdrawals)			

# IEEE 802 ORGANIZATION

## SPONSOR EXECUTIVE COMMITTEE (SEC)

**CHAIR**  
Paul Nikolich

### WORKING GROUP/TAG CHAIRS

**802.1**  
BRIDGING/ARCH  
Tony Jeffree

**802.3**  
CSMA/CD  
Bob Grow

**802.11**  
WLAN  
Stuart J. Kerry

**802.15**  
WPAN  
Bob Heile

**802.16**  
BWA  
Roger Marks

**802.17**  
ResPackRing  
Mike Takefman

**802.18 TAG**  
Radio Regulatory  
Carl Stevenson

**802.19 TAG**  
Coexistence  
Jim Lansford

**802.20**  
MBWA  
Jerry Upton

**802.21**  
Handoff  
DJ Johnston

### APPOINTED OFFICERS

**1<sup>st</sup> VICE CHAIR**  
Geoff Thompson

**2<sup>nd</sup> VICE CHAIR**  
Mat Sherman

**EXECUTIVE SECY**  
Buzz Rigsbee

**RECORDING SECY**  
Bob O'Hara

**TREASURER**  
Bill  
Quackenbush

### HIBERNATION

802.2 LLC (Dave Carlson)

802.4 Token Bus (Paul Eastman)

802.10 Security (Ken Alonge)

802.5 Token Ring (Bob Love)

802.9 ISLAN (D. Vaman)

802.12 Demand Priority (Pat Thaler)

### DISBANDED

802.6 DQDB

802.7 Broadband TAG

802.8 Fiber Optic TAG

802.14 CATV



# December 2003 and February 2004 Stds Board Actions

## Standards Approved

### **Reaffirmation:**

**802.1Q-1998** Virtual Bridged Local Area Networks, **802.2-1989 (R1997)** Logical Link Control, **802.5-1997** Token Ring Access Method and Physical Layer Specifications

### **New:**

**P802.3ak/D5.3** Carrier Sense Multiple Access with Collision Detection (CSMA/CD) Access Method and Physical Layer Specifications Amendment: Physical Layer and Management Parameters for 10 Gb/s Operation, Type 10GBASE-CX4

**P802.16/Conformance02/D4 (C/LM)** Standard for Conformance to IEEE Standard 802.16 - Part 2: Test Suite Structure and Test Purposes (TSS&TP) for 10-66 GHz WirelessMAN-SC Air Interface

### **Revision:**

**P802.1D/D4** Standard for Local and Metropolitan Area Networks: Media Access Control (MAC) Bridges

**P802.16.2/D8** Recommended Practice for Local and Metropolitan Area Networks - Coexistence of Fixed Broadband Wireless Access Systems

### **Administrative Withdrawals:**

**802.1B-1992** LAN/MAN Management, **802.1E-1990** System Load Protocol, **802.10-1998** (also 802.10a-1999 and 802.10c-1998) Interoperable LAN/MAN Security

# December 2003 and February 2004 Stds Board Actions

## Projects Approved

### **New PARs:**

**P802.1af** Standard for Local and Metropolitan Area Networks -Port-Based Network Access Control - Amendment 1: Authenticated Key Agreement for Media Access Control (MAC) Security

**P802.3an** Carrier Sense Multiple Access with Collision Detection (CSMA/CD) Access Method and Physical Layer Specifications Amendment: Physical Layer and Management Parameters for 10 Gb/s Operation, Type 10GBASE-T

**P802.21** Standard for Media Independent Handover Services

### **PAR for the Revision of Standard:**

**P802.3-REVam** Carrier Sense Multiple Access with Collision Detection (CSMA/CD) Access Method and Physical Layer Specifications



From Paul

# PARs to NesCom

- 802.1ag Connectivity Fault Management
- 802.3ap Ethernet Operation over Electrical Backplanes
- 802.3aq 10GbE for FDDI grade MMF
- 802.11p Wireless Access for the Vehicular Environment
- 802.11r Fast Roaming
- 802.11s ESS Mesh Networking
- 802.11m Maintenance (change from Amendment to Revision)
- 802.15.3b MAC corrections and clarifications for 802.15.3
- 802.15.4a Alternate PHY for 802.15.4
- 802.15.4b Revision of 802.15.4
- 802.15.5 Recommended Practice for WPAN Mesh

5.03 II Drafts to Sponsor Ballot  
802.1ab (conditional), 802.11e, 802.11j, 802.17a

- Nikolich 2 08:16 AM

5.04 II Drafts to Revcom

- Nikolich

2

08:18 AM

802.1rev (conditional) , 802.3ah (conditional) , 802.11i (conditional),  
802.15.1a (possibly conditional), 802.16-REVd, 802.16.conformance03,  
802.17 (possibly)

5.05			-			08:20 AM	
5.06						08:20 AM	
		SA items					08:20 AM
5.06	II	802 Task Force update	-	Nikolich	5	08:20 AM	



# IEEE-SA/802 Task Force

- Meeting held December 7, 2003
  - Topics:
    - Drafts for sale continues to not operate effectively
    - Funded Services for 802
    - GetIEEE 802 program transition from pilot to regular program
    - Attendance records policy—should not contain private info
    - Problems with people not receiving invitations to join ballot groups
    - Presubmittal of PARs to NesCom
  - Participants:
    - 802- Paul, Geoff
    - BoG- Jim Carlo, Ray Hapeman
    - SA Staff- Karen Kenney, Jennifer Longman, Angela Oritz, JerryWalker
  - Schedule a meeting this week:
    - Recommend Wednesday 4-5

A spreadsheet of IEEE SA staff members and their area of responsibility will be distributed to the SEC (Andrew Ickowicz is the primary contact)

5

## Staff Contacts for IEEE Standards Development

Issues	Internet Resources/General Email Aliases	IEEE 802 Working Group										
		802	802.1	802.3	802.11	802.15	802.16	802.17	802.18	802.19	802.20	802.21
<b>Primary Contact</b> Andrew Ickowicz <a href="mailto:a.ickowicz@ieee.org">a.ickowicz@ieee.org</a> (732) 562 3810	<a href="http://standards.ieee.org/resources/development/index.html">http://standards.ieee.org/resources/development/index.html</a>	Andrew Ickowicz										
<b>Project Authorization Requests (PARs)</b> <b>NesCom</b>	<a href="http://standards.ieee.org/resources/development/initiate/index.html">http://standards.ieee.org/resources/development/initiate/index.html</a> <a href="http://standards.ieee.org/board/nes/index.html">http://standards.ieee.org/board/nes/index.html</a>	Jodi Haasz										
<b>Process Support</b> Working Group Development (activities within WGs) Standards Development Procedures Balloting Procedures Ballot Submissions Appeals	<a href="http://standards.ieee.org/resources/development/index.html">http://standards.ieee.org/resources/development/index.html</a> <a href="http://standards.ieee.org/resources/development/wg_dev/index.html">http://standards.ieee.org/resources/development/wg_dev/index.html</a> <a href="http://standards.ieee.org/guides/opman/index.html">http://standards.ieee.org/guides/opman/index.html</a> <a href="http://standards.ieee.org/guides/opman/sect5.html#5.4">http://standards.ieee.org/guides/opman/sect5.html#5.4</a> <a href="http://standards.ieee.org/resources/development/balloting/index.html">http://standards.ieee.org/resources/development/balloting/index.html</a>	Andrew Ickowicz										
<b>Editorial/Publishing</b> Standards Style Draft Development Publishing Tools Mandatory Editorial Coordination Publication Schedule	<a href="http://standards.ieee.org/resources/development/writing/index.html">http://standards.ieee.org/resources/development/writing/index.html</a> <a href="http://standards.ieee.org/guides/style/index.html">http://standards.ieee.org/guides/style/index.html</a> <a href="http://standards.ieee.org/resources/development/writing/index.html">http://standards.ieee.org/resources/development/writing/index.html</a> <a href="http://standards.ieee.org/resources/development/writing/templates.html">http://standards.ieee.org/resources/development/writing/templates.html</a> <a href="http://standards.ieee.org/resources/development/balloting/pre-ballot.html">http://standards.ieee.org/resources/development/balloting/pre-ballot.html</a>	Don Messina	Michelle Turner	Savoula Amanatidis/ Michael Fisher	Don Messina	Michelle Turner	Don Messina	Michelle Turner	Michael Fisher			
<b>Balloting</b> Joining an Invitation Pool Initiating a Ballot Invitator Initiating a Sponsor Ballot Data Errors in the Ballot System Requests for Ballot Information by WG Chairs	<a href="http://standards.ieee.org/resources/development/balloting/index.html">http://standards.ieee.org/resources/development/balloting/index.html</a> <a href="http://standards.ieee.org/resources/development/balloting/invitation.html">http://standards.ieee.org/resources/development/balloting/invitation.html</a> <a href="http://standards.ieee.org/resources/development/balloting/sponsor.html">http://standards.ieee.org/resources/development/balloting/sponsor.html</a> <a href="mailto:sa-ballot@ieee.org">sa-ballot@ieee.org</a> <a href="http://sa-ballot@ieee.org">sa-ballot@ieee.org</a>	Andrew Ickowicz  Christina Santos										
<b>RevCom</b> Policies Submission Information	<a href="http://standards.ieee.org/board/rev/index.html">http://standards.ieee.org/board/rev/index.html</a> <a href="http://standards.ieee.org/guides/revguide.html">http://standards.ieee.org/guides/revguide.html</a> <a href="http://standards.ieee.org/cgi-bin/revcom_submittal">http://standards.ieee.org/cgi-bin/revcom_submittal</a>	David Ringle										
<b>Intellectual Property</b> Patents Copyrights Trademarks Licenses	<a href="http://standards.ieee.org/board/pat/index.html">http://standards.ieee.org/board/pat/index.html</a>	David Ringle  Claudio Stanzola										
<b>International Adoptions or Submissions</b> Notification of submission to ISO/IEC for adoption Adopting another organization's document Establishing a category liaison with ISO/IEC Agreements with International organizations Dual logo submissions		Claudio Stanzola  Theresa deCourcelle										
<b>Standards Governance</b> Board of Governors Standards Board Awards Program	<a href="http://standards.ieee.org/sa/bog/index.html">http://standards.ieee.org/sa/bog/index.html</a> <a href="http://standards.ieee.org/board/index.html">http://standards.ieee.org/board/index.html</a> <a href="http://standards.ieee.org/sa/aw/index.html">http://standards.ieee.org/sa/aw/index.html</a>	Rona Gertz  Theresa Steenweg										
<b>Marketing, Membership, and Public Relations</b>	<a href="http://standards.ieee.org/sa-mem/index.html">http://standards.ieee.org/sa-mem/index.html</a> <a href="http://standards.ieee.org/announcements/index.html">http://standards.ieee.org/announcements/index.html</a>	Karen McCabe										
<b>Financial Issues</b> Funded Programs <b>Get IEEE 802</b>	<a href="http://standards.ieee.org/sds/index.html">http://standards.ieee.org/sds/index.html</a> <a href="http://standards.ieee.org/getieee802/support.html">http://standards.ieee.org/getieee802/support.html</a>	Karen Kenney  Jerome Walker										
<b>Registrations</b> Registration Authority	<a href="http://standards.ieee.org/regauth/index.html">http://standards.ieee.org/regauth/index.html</a>	Bernard Wilder										

## IEEE Staff Contact Information

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Andrew Ickowicz	<a href="mailto:a.ickowicz@ieee.org">a.ickowicz@ieee.org</a>	(732) 562 3814
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Christina Santos	<a href="mailto:c.santos@ieee.org">c.santos@ieee.org</a>	(732) 562 5540
Claudio Stanziola	<a href="mailto:c.stanziola@ieee.org">c.stanziola@ieee.org</a>	(732) 562 3804
David Ringle	<a href="mailto:d.ringle@ieee.org">d.ringle@ieee.org</a>	(732) 562 3806
Don Messina	<a href="mailto:d.messina@ieee.org">d.messina@ieee.org</a>	(732) 465 6462
Jerome Walker	<a href="mailto:j.t.walker@ieee.org">j.t.walker@ieee.org</a>	(732) 562 3823
Jodi Haasz	<a href="mailto:j.haasz@ieee.org">j.haasz@ieee.org</a>	(732) 562 6367
Karen Kenney	<a href="mailto:k.kenney@ieee.org">k.kenney@ieee.org</a>	(732) 562 3822
Karen McCabe	<a href="mailto:k.mccabe@ieee.org">k.mccabe@ieee.org</a>	(732) 562 3824
Michael Fisher	<a href="mailto:m.fisher@ieee.org">m.fisher@ieee.org</a>	(732) 562 3835
Michelle Turner	<a href="mailto:m.d.turner@ieee.org">m.d.turner@ieee.org</a>	(732) 562 3825
Rona Gertz	<a href="mailto:r.gertz@ieee.org">r.gertz@ieee.org</a>	(732) 562 3808
Savoula Amanatidis	<a href="mailto:s.amanatidis@ieee.org">s.amanatidis@ieee.org</a>	(732) 562 3831
Theresa deCourcelle	<a href="mailto:t.decourcelle@ieee.org">t.decourcelle@ieee.org</a>	(732) 562 3807
Theresa Steenweg	<a href="mailto:t.steenweg@ieee.org">t.steenweg@ieee.org</a>	(732) 562 3836

**5.08 II Indemnification update - Kenney 10 08:35 AM**

5 Karen Kenney gave an updated on the Indemnification issue. The IEEE SA board of governors received the document. No significant changes to the document were made as a result of the comments from the SEC. Changes to the IEEE bylaws are being considered. Karen to send a copy of document to SEC

**5.09 II Get IEEE802 program update - Kenney 5 08:40 AM**

GET IEEE  
802™

The background features a large, light gray diamond shape containing a white IEEE logo. The logo consists of a stylized 'I' and 'E' intertwined, with a vertical line through the center and a horizontal line across the middle. The text is centered over this logo.

***Get IEEE 802™  
Update 9***

**IEEE Standards Association  
Karen Kenney, Associate Managing Director  
Business Administration  
IEEE 802 SEC Meeting  
15 March 2004  
Orlando, FL**



*Get IEEE 802™ Update 9*

# **This Meeting Objectives**

- **Program Update**
- **Other items**



Get IEEE 802™ Update 9

# Downloads

- Program to date 1,398,534
- Year to date 86,837
- Weekly average 8,684
- Most requested
  - 802.11, .11b, .11a
  - 802.1Q
  - 802.3
  - 802.16

Get IEEE 802™ Update 9

# User Type (4/03-2/04)

USER	PTD Total
Academic/Student:	208,140
➤ Other:	83,857
Network equipment manufacturer:	59,806
Public network service provider:	35,686
Network Software Developer/Manufacturer	28,546
Systems Administrator:	25,763
Standards Developer:	19,404
Network silicon manufacturer:	19,023
Private network service provider:	18,934
Government:	16,613
Journalist/Analyst/Author	5,583
<b>Total</b>	<b>521,355</b>

Get IEEE 802™ Update 9

## Program Entries

### Nov 2003 - Mar 2004

- | <u>Std</u>    | <u>On or about</u> |
|---------------|--------------------|
| • 801.1Q      | 7 November 03      |
| • 802.3af     | 17 December 03     |
| • 802.11g     | 27 December 03     |
| • 802.16 Conf | 4 February 04      |
| • 802.11F     | 14 February 04     |
| • 802.15.2    | 28 February 04     |

### Mar 2004 - Jul 2004

- | <u>Std</u>    | <u>On or about</u> |
|---------------|--------------------|
| • 802a        | 18 March 04        |
| • 802.3aj     | 26 March 04        |
| • 802.15.3    | 29 March 04        |
| • 802.15.4    | 1 April 04         |
| • 802.11h     | 14 April 04        |
| • 802.11bCor1 | 23 April 04        |
| • 802.3ak     | 1 July 04          |

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# Reminders

- **Drafts Delivery Service**  
<http://www.ili-info.com/ieee802drafts/>
- **Standards Delivery Services**  
<http://shop.ieee.org/store/default.asp?tabtype=stand>
- **SEC commitment to provide drafts thru ballot upload function**
  - **Working Group votes**
    - Revisions/Versions
  - **Sponsor ballots**
    - Revisions/Versions

*Get IEEE 802™ Update 9*

## Other

- No more approved drafts after 1 June 2004
  - Shorter publication periods
    - Average down to 4-6 weeks
    - Redirect effort to drafts and standards
  - Revenue doesn't justify effort
- No more Open Order Plans effective 31 December 2003
  - Number of subscribers has dwindled
  - Movement toward online subscriptions
  - Reduced expenses on print and Cus Svc



# Update on BoG 802/CAG meeting

- Meeting held Friday Feb 27
- Issue: Sponsorship of rejected projects
  - If Sponsor rejects a project, should another Sponsor (in this case the CAG) be authorized to approve it?
- Objective: to air the issue and promote discussion
- Detailed discussion on Tuesday 3-4pm
  - Jim Carlo (BoG president) will participate

5 Paul gave an overview of the new voting rules from IEEE BOD. In-meeting votes required a majority of those voting either yes or no, abstains are not included in the vote total. In email ballots a majority of **all voting members** must approve. SA staff state that WG email ballots are not binding, therefore they do not have to follow this rule. Note that WG letter ballots to forward a draft are often confirmed in session.



# December 2003 Stds Board Voting Rules Guidance

- The new voting rules were explained to the group as follows:
- Since the last IEEE-SASB meeting, the IEEE BOD approved a Bylaw change *I300.4 (item4)* whereby the IEEE-SASB and the committees that report to it, will compare yes's against no's and determine which is greater. Abstentions do not count.
- **The second change covers votes taken via email. Any email ballot needs to receive approval from a majority of voting members (all official members of your group) to allow an action to be taken. It should be noted that unofficial actions, such as straw polls, do not need to follow this rule.**
- Problem for 802 WG email ballots to forward a draft to Sponsor Ballot
  - Current rule: minimum 50% return rate, with 75% approval of those voting
  - SA Staff response: WG email ballot not binding, therefore don't have to follow rule

5.12			-			08:55 AM	
5.13			-			08:55 AM	
5.14						08:55 AM	
5.15						08:55 AM	
		LMSC items					08:55 AM
5.16	MI	LMSC Meeting Fee Waivers	-	Nikolich	2	08:57 AM	

# Meeting Fee Waivers

- The following fees have been waived for the March 2004 meeting by the LMSC chair.
  - IEEE-SA Staff Participants
    - Karen Kenney, Jennifer Longman, Yvette HoSang, Andy Ickowicz, Bernie Wilder
  - Invited Participants
    - Jim Carlo (by Paul Nikolich)
    - Mike Marcus (by Roger Marks)
    - Vic Hayes (by Carl Stevenson/Roger Marks)
    - Harry Perlow (by Carl Stevenson)

Each WG/TAG needs to have someone attend the Financial Workshop

5

# Tutorial Schedule

<b>Monday</b>	<b>Tuesday</b>
<b>Wireless Performance Metrics</b> 6:00-7:30PM	<b>10Gb Enet on MMF</b> 6:00-7:30PM
<b>Power Line Carrier</b> 7:30-9:00PM	<b>Spread Spectrum Retrospective</b> 7:30-9:00PM
<b>Education, Mentoring &amp; Support Policy and Procedures</b> 9:00-10:30PM	<b>Application of mmWave PHY in WPAN</b> 9:00-10:30PM
<b>WG/TAG Financial Workshop</b> 9-10:30PM	

Paul would like to get letters of endorsement for the WG/TAG vice chair positions, in addition to the chair positions.

5

# Officer Re-election Process

- EC re-affirmation process
  - Current Working Group Chairs should announce to their Working Groups that normal two-year elections are being held per the operating rules, inform the Working Group if they wish to be considered as a candidate for re-election and solicit new candidates.
  - A formal election within the Working Group should occur during the plenary week and a statement on the Working Groups selection for Chair and Vice Chair(s) be reported to the SEC at their plenary closing meeting upon which they must be confirmed by the SEC.
  - The newly elected/affirmed occupants of positions will formally take responsibility at the end of the March plenary session.
  - Each Working Group should also elect a Vice Chair or Vice Chair(s). A Working Group may have more than one Vice Chair, if circumstances warrant and to provide more leadership candidates.
  - If there are additional candidates for IEEE 802 LMSC Chair they should notify Bob O'Hara, the recording secretary by Monday morning, March 15, in order that the process proceed smoothly in an open manner.

# Officer Re-election Process

- Elected/appointed officers to remain in office until Mar-2006
- All WG Chairs are elected/reaffirmed in Mar-2004 by their WGs
  - 802.1, 802.3, 802.11, 802.15, 802.16, 802.17, 802.18, 802.19, 802.20, 802.21
- EC Chair (elected) and appointees (affirmed) by the SEC
  - Elected Nominee: Chair-Paul Nikolich,
  - Appointed Nominees: 1st Vice Chair-Mat Sherman, 2nd Vice Chair-Howard Frazier, Exec Secy-Buzz Rigsbee, Recording Secy-Bob O'Hara, Treasurer-Bill Quackenbush
- Elected/affirmed SEC members assume offices at the close of the March 2004 Plenary Session



Matthew suggested a moratorium for two plenary cycles while the 802 P&P be rewritten along the lines of the current SA Model P&P. We decided not to develop 802 bylaws.

5

# LMSC Operating Rules Update

## Author:

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

**Date:** March 15<sup>th</sup>, 2004

# Where are the rules?

- The “Rules” of IEEE 802 LMSC are called Policies and Procedures (P&P)
- The LMSC P&P can be found at
  - <http://grouper.ieee.org/groups/802/devdocs.html>
- Other key documents
  - Referenced on web site for LMSC P&P
  - Referenced by LMSC P&P

# Rules Change Activities

- In process ballots (To be voted for approval Friday)
  - Roll Call Votes (Mike Takefman)
  - LMSC Financial Operations (Bill Quakenbush)
- Met with Rules Subcommittee 3/14/04
  - Conducted resolution on both ballots
  - Further resolution on Roll Call Votes suggested

# Recently Suggest Potential Rules Changes

- Noted that we need a P&P Rev for “Affiliations”
- P&P Rev on “Pre-submittal of PARs to NESCOM”
- Letter of Endorsements for Vice Chairs
- Changes for Coexistence

# SOW to SA for P&P Support

- Draft SOW distributed to EC for comment
  - Comments from Howard only
    - Total time to complete / more interaction with EC
    - Have modified current plan to account
- Draft SOW distributed to SA
  - SA has not had time to Evaluate
- Will move forward with initial stage of process (editorial reformat) independent of SA
  - Will still seek to involve SA later in process

# Planned P&P Rev activities

- Effort to restructure existing P&P
  - Will focus on reorganization of existing rules along current SA Model P&P
  - Editorial in nature
    - If someone objects to specific change won't do it
  - Present draft changes at next Plenary
- Forthcoming ballots
  - Just restructure P&P Rev!
  - Moratorium on all other P&P changes this cycle

# Longer Term P&P Rev activities

- Ballot reformatted P&P (March 04)
- Involve SA in P&P Rev process (July 04)
  - Need SOW
- Add material missing from SA model P&P (July 04)
- Remove material to ByLaws / Chair's Guideline (November 04)



# EMS LMSC P&P Tutorial

- Monday 3/15/04 9 PM Tutorial on LMSC P&P

**5.20 II Rules change on roll call votes**

- Takefman 5 09:17 AM

Mike reviewed the proposed P&P change for roll call vote.

5

5.21	II	802.17 Drafts to RevCom/Sponsor Ballot		Takefman	2	09:19 AM
5.22	II	802 enews letter/PR	-	Klerer	5	09:24 AM

Reports should be available within three days of the end of the Plenary session. Roger is not going to submit since nothing was done with the reports last time. Paul requires that all WG/TAG chairs supply their report by the time they are due.

5

5.23	II	802.18 Radio Regulatory TAG Status Update	-	Stevenson	5	09:29 AM
5.24	II	802.19 Coexistence TAG Status Update	-	Shellhammer	5	09:34 AM
		Roger suggested the interference prediction document be an IEEE Guide				
5.25	MI	802.10 Disbanding	-	Jeffree	5	09:39 AM

Motion to disband 802.10 WG.  
 Moved Tony Jeffree, second Carl Stephenson.  
 Vote 11/0/1. Motion carries.

10

Thank Ken for chairing the WG for many years.

5.26	II	802.15 PAR announcements: 802.15.3b, 802.15.4a, 802.15.4b, 802.15.5	-	Heile	4	09:43 AM
5.27	II	802.11 PAR announcements: 802.11p, 802.11r, 802.11s	-	Kerry	3	09:46 AM
5.28	II	802.11 PAR change announcement: 802.11ma	-	Kerry	1	09:47 AM
5.29	II	802.11 Study Group announcements (2)	-	Kerry	2	09:49 AM

802.11 will be bring motions on two study groups at the Friday SEC meeting: wireless internetworking with other networks and wireless network management.

15

5.30	II	802.3 PAR announcements: 802.3ap, 802.3aq	-	Grow	2	09:51 AM
5.31	II	802.21 Officer Elections Announcement	-	Johnston	1	09:52 AM

DJ will not be standing for the chair position, but AJ Rajkumar will be standing for chair. He is currently the vice-chair

5.32			-			09:52 AM
5.33	II	802 Reorganization	-	Nikolich	10	10:02 AM

20

Two alternatives: keep it together as it is, split into two groups (wireline and wireless). Hold a meeting on Tuesday 9 - 11 AM.

5.34	II	Posting of IEEE meeting announcements	-	Sherman		10:02 AM
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We will not be posting meeting announcements for non-802 meetings.

5.35	II	Plan to re-up the 802.18 SG	-	Stephenson		10:02 AM
5.36			-			10:02 AM
5.37			-			10:02 AM
5.38			-			10:02 AM
5.39			-			10:02 AM
5.40			-			10:02 AM
5.41			-			10:02 AM
5.42			-			10:02 AM
5.43			-			10:02 AM
5.44	DT	SEC meeting schedule (rules, SA, etc.)	-	Nikolich	3	10:05 AM
		Will post				
		ADJOURN SEC MEETING	-	Nikolich		10:05 AM

25

# 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

**Motion to adjourn.**  
**Moved by DJ, seconded by Carl**  
**Vote: 13/0/0**

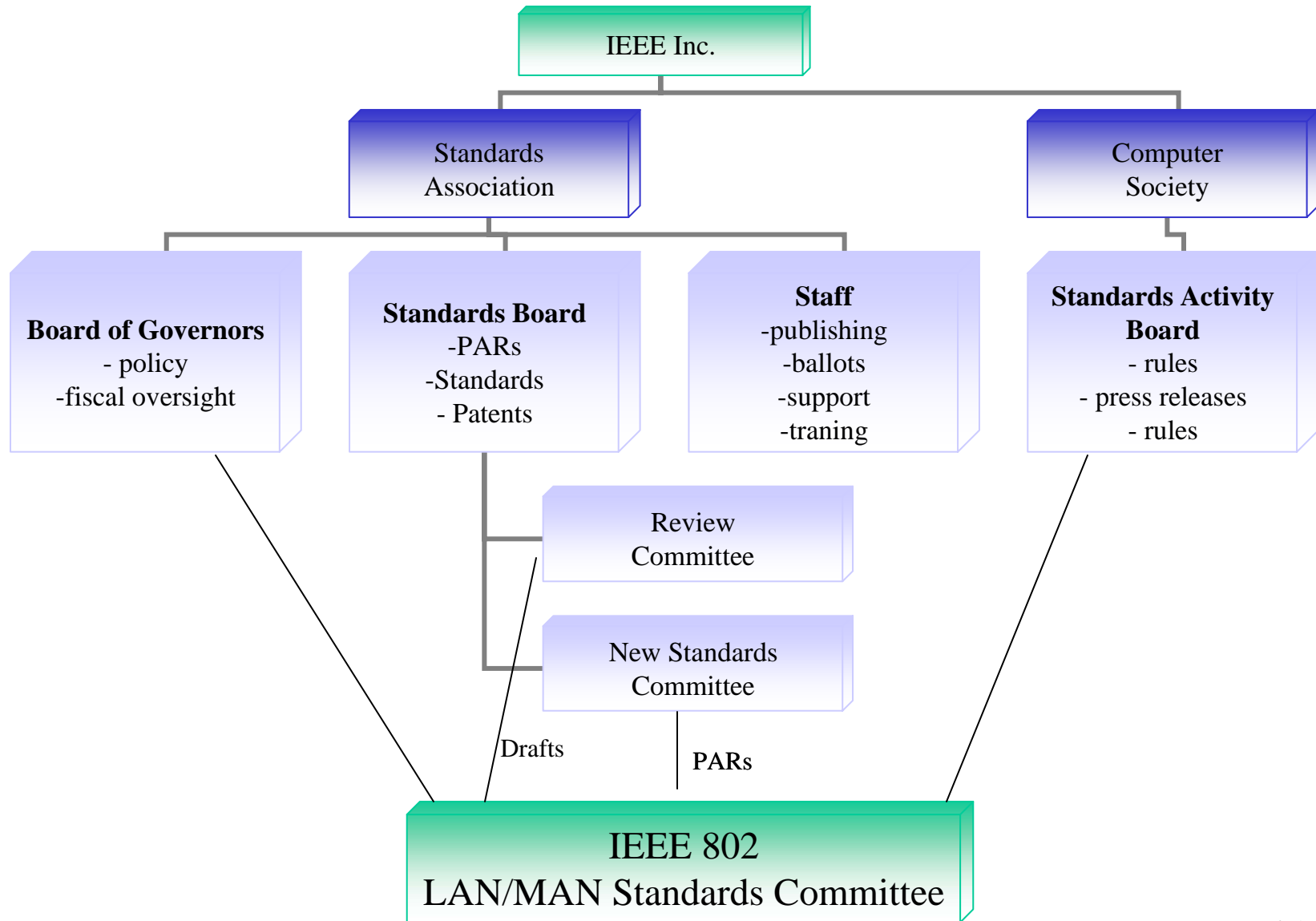
**Minutes taken By Steve Shellhammer in the absence of the Recording Secretary.**

**6.00 PL IEEE 802 PLENARY MEETING STARTS**

**- Nikolich 60 11:00 AM**

# IEEE802 Monday Plenary Agenda

- 11:00 Welcome Nikolich
- 11:01 March 2004 Election/Confirmation Process 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 Shellhammer
- 11:50 802.20 Mobile BWA Upton
- 11:55 802.21 Handoff Johnston
  
- 11:55 Tutorials Nikolich
- 11:57 Meeting Arrangements Rigsbee
- 12:00 ADJOURN Plenary





# IEEE 802 ORGANIZATION

## SPONSOR EXECUTIVE COMMITTEE (SEC)

**CHAIR**  
Paul Nikolich

### WORKING GROUP/TAG CHAIRS

**802.1**  
**BRIDGING/ARCH**  
Tony Jeffree

**802.3**  
**CSMA/CD**  
Bob Grow

**802.11**  
**WLAN**  
Stuart J. Kerry

**802.15**  
**WPAN**  
Bob Heile

**802.16**  
**BWA**  
Roger Marks

**802.17**  
**ResPackRing**  
Mike Takefman

**802.18 TAG**  
**Radio Regulatory**  
Carl Stevenson

**802.19 TAG**  
**Coexistence**  
Jim Lansford

**802.20**  
**MBWA**  
Jerry Upton

**802.21**  
**Handoff**  
DJ Johnston

### APPOINTED OFFICERS

**1<sup>st</sup> VICE CHAIR**  
Geoff Thompson

**2<sup>nd</sup> VICE CHAIR**  
Mat Sherman

**EXECUTIVE SECY**  
Buzz Rigsbee

**RECORDING SECY**  
Bob O'Hara

**TREASURER**  
Bill  
Quackenbush

### HIBERNATION

802.2 LLC (Dave Carlson)

802.4 Token Bus (Paul Eastman)

802.10 Security (Ken Alonge)

802.5 Token Ring (Bob Love)

802.9 ISLAN (D. Vaman)

802.12 Demand Priority (Pat Thaler)

### DISBANDED

802.6 DQDB

802.7 Broadband TAG

802.8 Fiber Optic TAG

802.14 CATV

# Officer Re-election Process

- Elected/appointed officers to remain in office until Mar-2006
- All WG Chairs are elected/reaffirmed in Mar-2004 by their WGs
  - 802.1, 802.3, 802.11, 802.15, 802.16, 802.17, 802.18, 802.19, 802.20, 802.21
- EC Chair (elected) and appointees (affirmed) by the SEC
  - Chair Nominee: Paul Nikolich,
  - Appointed Nominees:
    - 1st Vice Chair-Mat Sherman,
    - 2nd Vice Chair-Howard Frazier,
    - Exec Secy-Buzz Rigsbee,
    - Recording Secy-Bob O'Hara, Treasurer-Bill Quackenbush
- Elected/affirmed SEC members assume offices at the close of the March 2004 Plenary Session

# Paul Nikolich - IEEE 802 Chair

- EMAIL: p.nikolich@ieee.org
- Phone: 857.205.0050 (Cellular)
- Fax: 781.334.2255
- Independent consultant in technology and new ventures working with YAS Broadband Ventures, LLC. in North Andover MA
- Goals for IEEE 802 – 2004-2006
  - Encourage the development of new standards work
  - Maintain IEEE802's outstanding track record of developing data communications standards that benefit society.
  - Ensure the imperative principals of due process, consensus, openness, balance and rights of appeal are implemented.
  - Increase the efficiency of the standards development process

# Instructions for the WG Chair

- **At Each Meeting, the Working Group Chair shall:**
- **Show slides #1 and #2 of this presentation**
- **Advise the WG membership that:**
  - The IEEE's Patent Policy is consistent with the ANSI patent policy and is described in Clause 6 of the *IEEE SA Standards Board Bylaws*;
  - Early disclosure of patents which may be essential for the use of standards under development is encouraged;
  - Disclosures made of such patents may not be exhaustive of all patents that may be essential for the use of standards under development, and that neither the IEEE, the WG nor the WG Chairman ensure the accuracy or completeness of any disclosure or whether any disclosure is of a patent that in fact may be essential for the use of standards under development.
- **Instruct the WG Secretary to record in the minutes of the relevant WG meeting:**
  - that the foregoing advice was provided and the two slides were shown;
  - that an opportunity was provided for WG members to identify or disclose patents that the WG member believes may be essential for the use of that standard;
  - any responses that were given, specifically the patents and patent applications that were identified (if any) and by whom.



# IEEE-SA Standards Board Bylaws on Patents in Standards

## 6. Patents

IEEE standards may include the known use of essential patents and patent applications provided the IEEE receives assurance from the patent holder or applicant with respect to patents whose infringement is, or in the case of patent applications, potential future infringement the applicant asserts will be, unavoidable in a compliant implementation of either mandatory or optional portions of the standard [essential patents]. This assurance shall be provided without coercion and prior to approval of the standard (or reaffirmation when a patent or patent application becomes known after initial approval of the standard). This assurance shall be a letter that is in the form of either:

- a) A general disclaimer to the effect that the patentee will not enforce any of its present or future patent(s) whose use would be required to implement either mandatory or optional portions of the proposed IEEE standard against any person or entity complying with the standard; or
- b) A statement that a license for such implementation will be made available without compensation or under reasonable rates, with reasonable terms and conditions that are demonstrably free of any unfair discrimination.

This assurance shall apply, at a minimum, from the date of the standard's approval to the date of the standard's withdrawal and is irrevocable during that period.

# Inappropriate Topics for IEEE WG Meetings

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

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

# IEEE 802 Membership

Paul explained to the assembly their WG/TAG chairs will cover membership criteria in detail during their sessions.

# Operating Rules Update

## Author:

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

**Date:** March 15<sup>th</sup>, 2004



# Rules Change Activities

- In process ballots (To be voted for approval Friday)
  - Roll Call Votes (Mike Takefman)
  - LMSC Financial Operations (Bill Quakenbush)
- Met with Rules Subcommittee 3/14/04
  - Conducted resolution on both ballots
  - Further resolution on Roll Call Votes suggested
- Straw poll for Opposition to current ballots
- Noted that we need a P&P Rev for “Affiliations”
- P&P Rev on “Pre-submittal of PARs to NESCOM”
- Letter of Endorsements for Vice Chairs

# SOW to SA for P&P Support

- Draft SOW distributed to EC for comment
  - Comments from Howard only
    - Total time to complete / more interaction with EC
    - Have modified current plan to account
- Draft SOW distributed to SA
  - SA has not had time to Evaluate
- Will move forward with initial stage of process (editorial reformat) independent of SA
  - Will still seek to involve SA later in process

# Planned P&P Rev activities

- Forthcoming ballots
  - NONE!
  - Moratorium for 2 plenary cycles
    - Straw poll – Explicit text required for P&P change?
- Effort to restructure existing P&P
  - Will focus on reorganization of existing rules along current SA Model P&P
  - Editorial in nature
    - If someone objects to specific change won't do it
  - Present draft changes at next Plenary

# Longer Term P&P Rev activities

- Ballot reformatted P&P (July 04)
- Involve SA in P&P Rev process (July 04)
  - Need SOW
- Add material missing from SA model P&P (Nov 04)
- Remove material to ByLaws / Chair's Guideline (March 05)
  - Straw poll on Bylaws, should we have them?

# EMS LMSC P&P Tutorial

- Monday 3/15/04 9 PM Tutorial on LMSC P&P

**IEEE Project 802  
Statement of Operations  
November 2003 Plenary Meeting  
Albuquerque, NM  
As of February 29, 2004**

<b>Meeting Income</b>	<b>Actual</b>	<b>Budget</b>	<b>Deviation</b>
<b>Net Registrations</b>	<b>1,149</b>	1,050	99
642 Registrations @ \$300	192,600		
507 Registrations @ \$350	177,450		
24 Cancellation @ \$50	1,200		
0 Cancellations @	0		
0 Other @ \$100	0		
Registraion Subtotal	<u>371,250</u>	332,325	38,925
0 Deadbeat Payment @ \$350	0	0	0
Interest	85	60	25
Other	<u>9,659</u>	<u>0</u>	9,659
<b>TOTAL Meeting Income</b>	<u><b>380,994</b></u>	<u><b>332,385</b></u>	<b>48,609</b>
<b>Meeting Expenses</b>	<b>Actual</b>	<b>Budget</b>	
Audio Visual Rentals	12,766	10,000	(2,766)
Audit	0	0	0
Bank Charges	244	278	35
Copying	3,086	3,500	414
Credit Card Discounts & Fees	9,939	8,973	(966)
Equipment Expenses	298	7,000	6,702
Get IEEE 802 Contrtribution	85,950	78,750	(7,200)
Insurance	0	0	0
Meeting Administration	64,925	64,025	(901)
Misc Expenses	10,510	16,000	5,490
Networking	39,483	35,888	(3,595)
Phone & Electrical	1,835	2,000	165
Refreshments	60,355	73,500 (1)	13,145
Shipping	4,324	4,000	(324)
Social	30,764	33,600 (2)	2,836
Supplies	<u>562</u>	<u>500</u>	(62)
<b>TOTAL Meeting Expense</b>	<u><b>325,041</b></u>	<u><b>338,014</b></u>	<b>12,973</b>
<b>NET Meeting Surplus/(Deficit)</b>	<u><b>55,954</b></u>	<u><b>(5,629)</b></u>	<b>61,582</b>
<b>Notes</b>			
(1) Refreshments per registration	53	70	17
(2) Social per registration	27	32	5
(3) Pre-Registration ratio	0.56	0.75	
<b>Reserve for uninvoiced expenses for this session</b>	<b>8314.00</b>		

**IEEE Project 802  
Statement of Operations  
January 2004 Interim Session  
Vancouver, BC Canada  
As of February 29, 2004**

Meeting Income	Actual	Budget	Deviation
Net Registrations	1,021	900	121
552 Registrations @ \$300	165,600	180,900	(15,300)
469 Registrations @ \$350	164,150	103,950	60,200
21 Cancellation @ \$50	1,050		
0 Cancellations @	0		
2 Other @ \$100	200		
Registraion Subtotal	331,000	284,850	46,150
0 Deadbeat Payment @ \$350	0	0	0
Interest	0	0	0
Other	3,617	0	3,617
<b>TOTAL Meeting Income</b>	<b><u>334,617</u></b>	<b><u>284,850</u></b>	<b>49,767</b>
Meeting Expenses	Actual	Budget	
Audio Visual Rentals	13,117	10000	(3,117)
Audit	0	0	0
Bank Charges	0	0	0
Copying	660	600	(60)
Credit Card Discounts & Fees	9,038	7691	(1,347)
Equipment Expenses	0	0	0
Get IEEE 802 Conttribution	0	0	0
Insurance	0	0	0
Meeting Administration	55,122	59401	4,279
Misc Expenses	652	500	(152)
Networking	29,682	35888	6,206
Phone & Electrical	2,170	2000	(170)
Refreshments	125,023	135945 (1)	10,922
Shipping	6,403	5000	(1,403)
Social	32,864	27726 (2)	(5,138)
Supplies	62	500	438
<b>TOTAL Meeting Expense</b>	<b><u>274,792</u></b>	<b><u>285,251</u></b>	<b>10,459</b>
<b>NET Meeting Surplus/(Deficit)</b>	<b><u>59,825</u></b>	<b><u>(401)</u></b>	<b>60,226</b>
Notes (1) Refreshments per registration	122	151	29
(2) Social per registration	32	31	(1)
(3) Pre-Registration ratio	0.54	0.67	
Reserve for uninvoiced expenses for this session	9,452		
Reserve for contested expenses for this session	2,000		
Reserve for uninvoiced expenses for prior session	8,314		
Reserve for other outstanding commitments	1,750		
Prepaid expenses for current session	9,200		
<b>March 2004 Operating Reserve</b>	<b>319,976</b>		

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

- IEEE Std 802.3ak-2004  
Robert M. Grow  
David J. Law  
Steven B. Carlson  
Howard A. Baumer  
Daniel J. Dove
- IEEE Std 802.15.2-2003  
Nada Golmie  
David Cypher
- IEEE Std 802.16/Conformance02-2003  
Roger B. Marks  
Ken Stanwood  
Carl Eklund



# 802.1 – Activities & status

Tony Jeffree, 802.1 WG Chair

15 March 2003

# Areas of work

- 802 Architecture
- Interworking between 802 technologies
  - “Technical Plenary” if needed
  - Joint 802.1/802.3 TP this week Weds 10:30 AM
- 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)
  - Has been approved by RevCom as 802.1D-2004
- P802.1X-Rev – Revision of 802.1X
  - Currently in Sponsor ballot (closes end of March)
  - Comment resolution to be done in May interim meeting

# Status of current projects - (3)

- Link layer discovery (P802.1AB)
  - WG ballot and recirculation completed
  - New draft available on the 802.1 website
  - Expect further recirc in March/April 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:
  - Approved by RevCom
  - Publication due in April

# Status of current projects - (5)

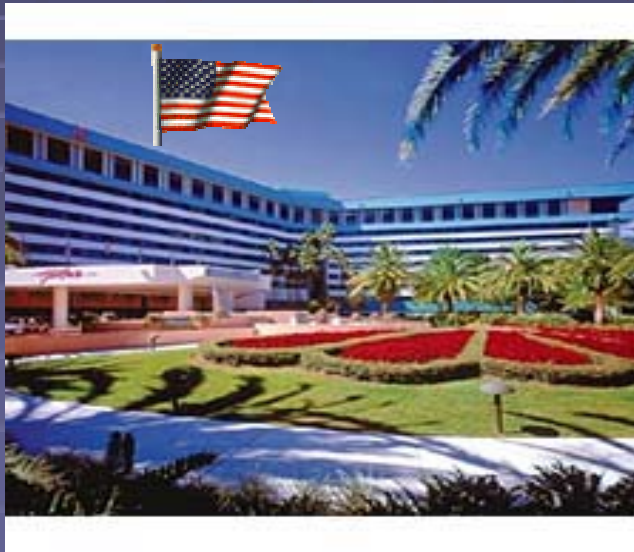
- Link Security Task Group
  - “Key Agreement” PAR (an amendment to 802.1X) approved as P802.1af
- New PAR to be discussed this week:  
P802.1ag “Connectivity Fault Management”
  - Draft PAR has been circulated for comment
  - Comments to 802.1 by end of Tuesday as per P&P



**84th Session of the IEEE 802.11 WG**

# **Wireless Local Area Networks**

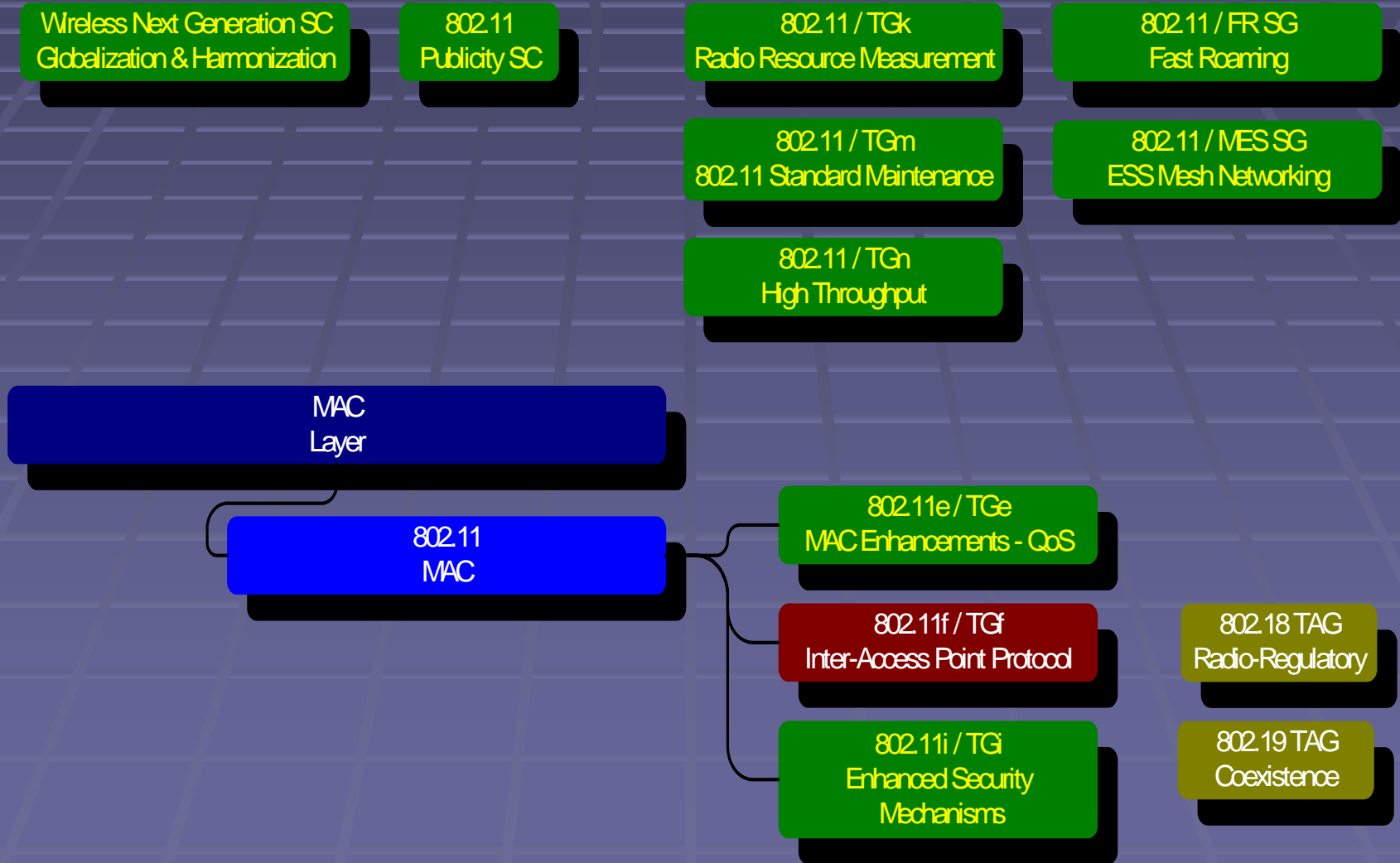
**March 14th-19th, 2004, Lake Buena Vista, FL, USA**



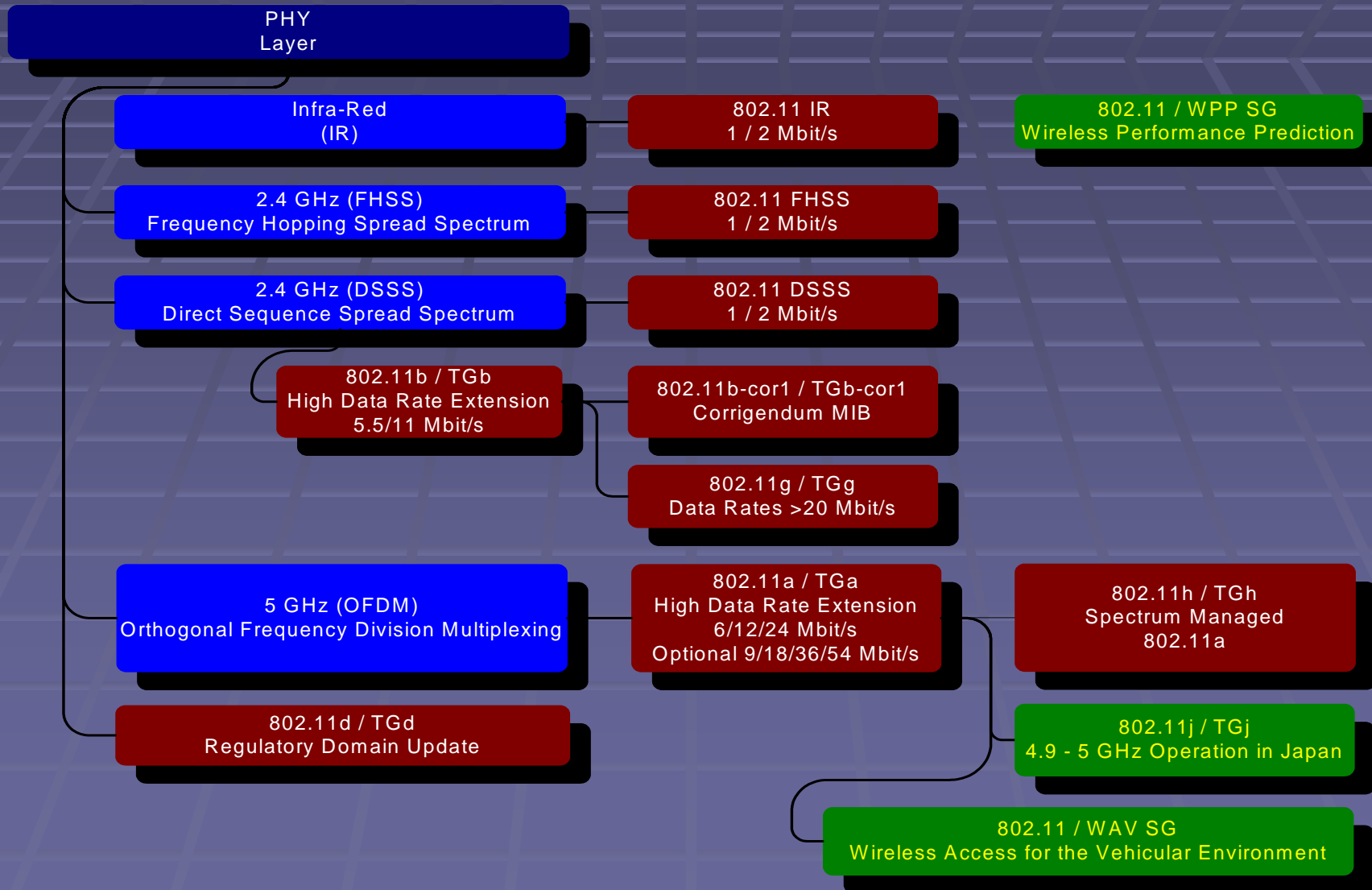
**[www.ieee802.org/11](http://www.ieee802.org/11)**

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

# 802.11 Activities MAC & Others



# 802.11 Activities PHY





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# 84th IEEE 802.11 WIRELESS LOCAL AREA NETWORKS SESSION

Hilton in WALT DISNEY WORLD Resort, 1751 Hotel Plaza Boulevard, Lake Buena Vista, FL 32830, USA.

PLENARY

March 14th-19th, 2004

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			
08:00-08:30		802 EC MEETING	PSC TGI TGE TGM TGK TGJ FR SG TGE MES SG WAY SG TGJ TGM TGE TGK TGI			IEEE 802.11 WORKING GROUP		
08:30-09:00						CLOSING PLENARY		
09:00-09:30								
09:30-10:00								
10:00-10:30				Break	Break	Break	Break	
10:30-11:00	EXTRA-ORDINARY 802.11 WG CHAIRS ADVISORY COMMITTEE (CAC)	802 OPENING PLENARY	TGM TGI TGE TGM TGK	IEEE 802.11 WORKING GROUP	TGJ TGM TGE TGK TGI	CLOSING PLENARY (Continued)		
11:00-11:30					MID-SESSION PLENARY			
11:30-12:00								
12:00-12:30					Lunch	Lunch	Lunch	12:30 pm Hard Stop Time
12:30-13:00								
13:00-13:30						802 EC MEETING		
13:30-15:30		WIRELESS 802 JOINT OPENING PLENARY 802.11 / 15 / 16 / 18 / 19 / 20	TGM TGI TGE TGM WNG SC TGJ FR SG TGI MES SG WAY SG TGJ TGM TGE TGK WPP SG					
15:30-16:00	11/15/16/18/19/20 LEADERSHIP MEETING	Break	Cancelled	Break	Break			
16:00-17:00		TGI TGK TGE TGN TGJ	TGM TGI TGE TGM WNG SC TGM WPP SG TGI MES SG WAY SG TGM FR SG WNG SC TGK WPP SG					
17:00-17:30		NEW MEMBERS ORIENTATION						
17:30-18:00								
18:00-18:30	Break	T1 Dinner	T4 Dinner	Break	Dinner			
18:30-19:00								
19:00-19:30	802.11 WG CHAIRS ADVISORY COMMITTEE (CAC)	T2	T5	Social Evening	TGM FR SG WNG SC TGK WPP SG	Session Hour Limits		
19:30-20:00		TGI TGK TGE TGN TGJ	TGM TGI TGE WAY SG MES SG					
20:00-20:30								
20:30-21:00								
21:00-21:30		T3	T6					
21:30-22:00								
22:00-22:30								

Cancelled

Session Hour Limits

## 802.11 WORKING GROUP OBJECTIVES FOR THIS SESSION

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

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

## TASK GROUP E OBJECTIVES FOR THIS SESSION

802.11 - MAC Enhancements - QoS

CHAIR - JOHN FAKATSELIS / VICE-CHAR - DUNCAN KITCHIN

- To resolve LB#65 comments, generate a new version of the draft
  - Work towards submitting a WG Recirculation Ballot or send to IEEE Sponsor Ballot

## TASK GROUP I OBJECTIVES FOR THIS SESSION

802.11 - Enhanced Security Mechanisms

CHAIR - DAVE HALASZ

- Address comments from IEEE Sponsor Ballot

## TASK GROUP J OBJECTIVES FOR THIS SESSION

802.11 - 4.9 - 5 GHz Operation in Japan

CHAIR - SHEUNG LI

- Review New Japanese Standards Activities
- Review Results of Recirculation Ballot
- Comment Resolution on Recirculation Ballot
- Issue Sponsor Ballot if Appropriate

## TASK GROUP K OBJECTIVES FOR THIS SESSION

802.11 - Radio Resource Measurements

CHAIR - RICHARD PAINE

- Signal Quality Measures
- Security of Measurement Frames
- 2nd Task Group Review
- Letter Ballot Vote

## TASK GROUP M OBJECTIVES FOR THIS SESSION

802.11 - Standard Maintenance

CHAIR - BOB O'HARA

- Respond to interpretation requests received
- Develop list of items for minor new functionality as part of standard revision
- Continue 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 - BRUCE KRAEMER

- Adopt usage models
- Adopt functional requirements
- Adopt comparison criteria
- Receive Presentations
- Review project timeline
- 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

- Updates from ETSI-BRAN, MMAC, radio regulatory
- Update – European 6th Framework
- Milimeter waves for WLANs
- Next Generation Requirements for WLANs
- Korean Spectrum Policy and Allocation
- Prepare for IEEE Interim May 2004

## FR STUDY GROUP OBJECTIVES FOR THIS SESSION

802.11 - Fast Roaming / Fast Handoff

CHAIR - CLINT CHAPLIN

- Address any comments on the PAR and 5 criteria
- Work on Roaming Timing Metrics



## MES STUDY GROUP OBJECTIVES FOR THIS SESSION

802.11 - ESS Mesh Networking

CHAIR - DONALD EASTLAKE 3RD

- Resolve concerns and comments about PAR and 5-Criteria from 802 Executive Committee and other 802 WGs
- Vote for permanent MES SG Secretary
- Presentations

## WAV STUDY GROUP OBJECTIVES FOR THIS SESSION

802.11 - Wireless Access for the Vehicular Environment

CHAIR - LEE ARMSTRONG

- Review existing ASTM E2212 standard
- Review proposal for 802.11 amendment

## WPP STUDY GROUP OBJECTIVES FOR THIS SESSION

802.11 - Wireless Performance Prediction

CHAIR - CHARLES R. WRIGHT

- Work on PAR and 5 Criteria, with the goal to approve to forward to the full WG
- Vote for permanent WPP SG Chair and Secretary



## IEEE 802.11 WLAN WORKING GROUP SESSIONS

All interested parties are welcome to attend our open Public meetings of the IEEE 802.11 Working Group, you do not have to be an IEEE member to attend. There is a registration fee, to defray the cost of the session. At Plenary sessions these are 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.

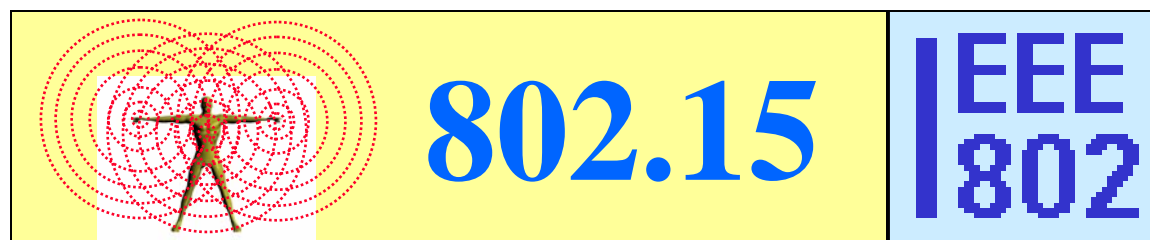
### FUTURE SESSIONS

For Year 2004	<i>Interim Sessions to be Allocated if Required</i>	Session	Type	
March 14th-19th	<a href="#">Hilton in the Walt Disney World Resort, Lake Buena Vista, FL, USA</a>	84	Plenary	
	<b>802.11 WG, TGs, SGs &amp; SC Combined Agendas</b> includes the WG Objectives & WG Graphic	<a href="#">XLS</a> Rev.2		
	Session Announcement	<a href="#">PDF</a> or <a href="#">HTML</a>		
	Session Hotel Booking	<a href="#">Click Here</a>		
	Session Registration	<a href="#">Register Here</a>		
	<u>Other Information:</u>			
	March 2004 Opening IEEE 802 Plenary Presentation	<a href="#">PPT</a>		
March 2004 IEEE 802 Tutorial Agenda	<a href="#">PDF</a>			
May 9th-14th	<a href="#">Hyatt Regency Orange County, CA, USA</a> - General Information	85	Interim*	
	<b>802.11 WG, TGs, SGs &amp; SC Combined Agendas</b> includes the WG Objectives & WG Graphic	<i>XLS<sup>(1)</sup></i> <i>Rev. TBD</i>		
	Session Announcement	<a href="#">PDF</a> or <a href="#">HTML</a>		
	Session Hotel Booking	<a href="#">Click Here</a>		
	Session Registration	<a href="#">Register Here<sup>(1)</sup></a>		
July 11th-16th	<a href="#">Portland Hilton, Portland, OR, USA</a> - General Information - Booking TBD	86	Plenary	
September 12th-17th	<a href="#">Estrel Hotel Berlin, Germany</a> - General Information - Booking TBD	87	Interim*	
November 14th-19th	<a href="#">Hyatt Regency San Antonio, TX, USA</a> - General Information - Booking TBD	88	Plenary	

# Archive, Mailing Lists, URL

- 802.11 Web Site: [www.ieee802.org/11/](http://www.ieee802.org/11/)
  - Members Site: [www.802wirelessworld.com](http://www.802wirelessworld.com)
  - Technical Reflector: [stds-802-11@listsev.ieee.org](mailto:stds-802-11@listsev.ieee.org)
  
  - General Mailing: [stds-802-11-m@listsev.ieee.org](mailto:stds-802-11-m@listsev.ieee.org)
  - Editors only: [stds-802-11-editors@listsev.ieee.org](mailto:stds-802-11-editors@listsev.ieee.org)
  - CAC members only: [stds-802-11-cac@listsev.ieee.org](mailto:stds-802-11-cac@listsev.ieee.org)
  - Voter / Nearly only: [stds-802-11-voters@listsev.ieee.org](mailto:stds-802-11-voters@listsev.ieee.org)
- 
- The Email Reflectors are closed and restricted to those on the list to reduce SPAM
  - Membership of all 802.11 reflectors is strictly controlled and adheres to the current WG Policies and Procedures
  - To send to the list you must use your exact email address that is subscribed as the 'From' address

To be added to the IEEE 802.11 WG mailing lists, please review  
[http://www.ieee802.org/11/Email\\_Subscribe.html](http://www.ieee802.org/11/Email_Subscribe.html)

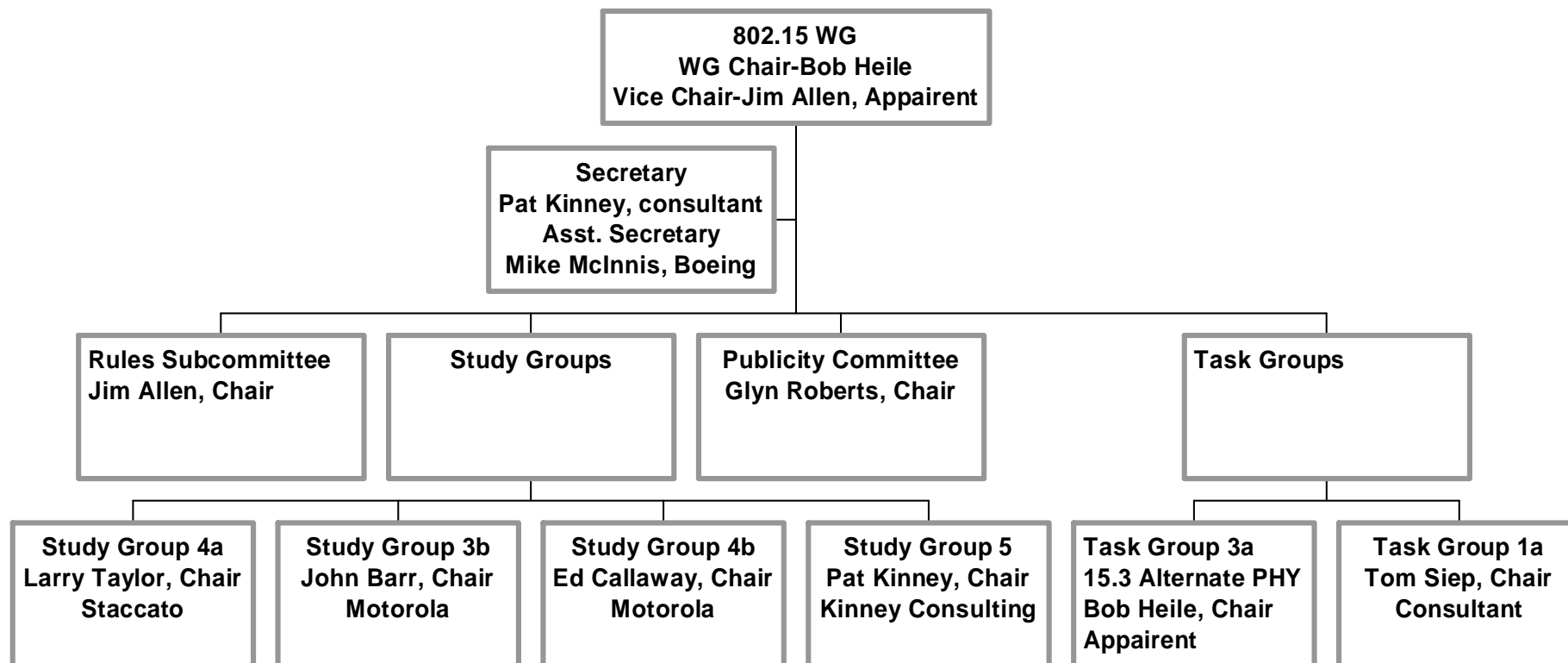


# 29th Session of meetings of the IEEE 802.15 Working Group for Wireless Personal Area Networks

**March 15-19, 2004**

**Hilton in the Walt Disney World Resort  
1751 Hotel Plaza Blvd.  
P.O. Box 22781  
Lake Buena Vista, FL. 32830**

# 802.15 Functional Organization Chart



To add your name to the WG/SG/TG reflectors  
please go to [www.ieee802.org/15](http://www.ieee802.org/15)

# Objectives of the MCO Meeting

## March 15-19, 2004

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

1. **Comment Resolution**

### **TASK GROUP 3a OBJECTIVES FOR THE MEETING**

1. **Conduct PHY proposal down selection process**
2. **Other contributions (as required and as down-selection process allows)**

### **STUDY GROUP 3b OBJECTIVES FOR THIS MEETING:**

1. **Resolve any Working Group issues with PAR and 5C documents**
2. **Organize, and begin evaluation of, proposed changes to 802.15.3-2003**

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

1. **Support the PAR & 5C Through IEEE Review**
2. **Drafting of Technical Requirements Document**

# Objectives of the MCO Meeting

## March 15-19, 2004

### **STUDY GROUP 4b OBJECTIVES FOR THIS MEETING:**

- 1. Resolve any Working Group issues with PAR and 5C documents**
- 2. Organize, and begin evaluation of, proposed changes to 802.15.4-2003**

### **STUDY GROUP 5 OBJECTIVES FOR THIS MEETING:**

- 1. Resolve any issues raised by other 802 WGs**
- 2. Review any presentations**
- 3. Discuss schedules, architectural framework**

# MCO Meeting Graphic

R1	29th IEEE 802.15 WIRELESS PERSONAL AREA NETWORKS SESSION															
	Hilton in WALT DISNEY WORLD Resort, 1751 Hotel Plaza Boulevard, Lake Buena Vista, FL 32830, USA. March 14th-19th, 2004															
The graphic below describes the weekly session of the IEEE P802.15 WG in graphic format.																
	SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY										
07:00-07:30					802.15 AC MEETING											
07:30-08:00																
08:00-08:30		802 SEC MEETING	PC with 802.11	TG3a	SG4b	SG3b	SG4a	SG5	SG4b	SG3b	TG3a	SG4a	IGmmW	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		Break														
11:00-11:30		802 PLENARY				802.15 WG MEETING									802.15 WG CLOSING	
11:30-12:00			TG3a	SG4b	SG3b											
12:00-12:30																
12:30-13:00		Lunch on Your Own				Lunch on Your Own									Lunch on Your Own	
13:00-13:30																
13:30-14:00																
14:00-14:30																
14:30-15:00																
15:00-15:30																
15:30-16:00															802 SEC MEETING	
16:00-16:30	11 / 15 / 18 / 19 / 20 LEADERSHIP MEETING															
16:30-17:00																
17:00-17:30	NEW MEMBERS ORIENTATION															
17:30-18:00																
18:00-18:30																
18:30-19:00	Dinner on your own	Dinner on your own		Dinner on your own												
19:00-19:30			Tut 1													
19:30-20:00																
20:00-20:30	Optional Meeting Time	TG3a														
20:30-21:00			TG1a													
21:00-21:30	802.15 AC MEETING		Tut 2													
21:30-22:00																
22:00-22:30																

LEGEND

TG1a  
TG3a  
SG3b  
SG4a  
SG4b  
SG5

Task Group 1a Bluetooth Revision Project  
Alt 15.3 PHY Task Group  
Study Group 3b -HIGH RATE MAC MODIFICATIONS  
Study Group 4a - Low Rate Alternative PHY  
Task Group 4b- LOW RATE REVISION  
Study Group 5 - MESH NETWORKING

AC  
PC  
TUT  
SEC  
mmWIG  
TG4

802.15 ADVISORY COMMITTEE  
Publicity Committee  
IEEE 802 Tutorials 1, 2, 3 and 4  
802 SPONSOR EXECUTIVE COMMITTEE  
millimeter wave Interest Group  
Task Group 4 - Low Rate



## Upcoming Meetings for 2004

- Interim-Vancouver, BC Jan 13-17, 2004
- Plenary-Orlando, March 15-19, 2004
- Interim-Anaheim, May 10-14, 2004
- Plenary-Portland, July 12-16, 2004
- Interim-Berlin, September 13-17, 2004
- Plenary-San Antonio, Nov 15-19, 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**

**15 March 2004**

**Orlando, FL, USA**

# 802.16 Membership

- **66 Members**
- **44 Potential Members**
- **48 Official Observers**
- **Registration for this session**
  - **140: Primary (last plenary: 88)**
  - **138: Secondary**

# 802.16 Projects: 10-66 GHz

Air Interface

Conformance

Coexistence

**IEEE Std 802.16**

**Publ: Apr 2002**

- MAC
- 10-66 GHz PHY

**IEEE Std**

**802.16/Conf01**

**(PICS)**

**Publ: Aug 2003**

**IEEE Std 802.16.2**

**Publ: Sep 2001**

**802.16c (Profiles)**

**Publ: Jan 2003**

**IEEE Std**

**802.16/Conf02**

**(TSS&TP)**

**Publ: 25 Feb '04**

**P802.16/Conf03**

**(RCT)**

**Sponsor Ballot:**

**closed; 100%**

# Newer 802.16 Projects

## Air Interface

### 802.16a

- 2-11 GHz PHY

Publ: April 2003

## Conformance

### P802.16/Conf04

PAR on NesCom  
agenda

## Coexistence

### IEEE Std

### 802.16.2-2004

- Revision
- Approved:  
09 Feb 2004

### P802.16-REVd

Revision

- Sponsor Ballot

### P802.16e

- Mobile Amendment
- Start: Dec 2002
- WG Letter Ballot

# P802.16-REVd

- **Gordon Antonello: Chair, Task Group d**
- **Itzik Kitroser, Technical Editor**
- **>800 pages**
- **Sponsor Ballot closed on 13 March**
- **Passed, pending comment resolution**
- **Comment resolution this week**

# P802.16e

- **Brian Kiernan: Chair**
- **Ron Murias, Editor**
- **PAR approved 11 Dec 2002**
- **Five “Call for Comments” Review cycles**
- **January:**
  - **Adopted draft**
  - **Agreed to open WG Letter Ballot**
- **Ballot passed, pending comment resolution**
- **Comment resolution this week**



# 802.16 Officers

- **Chair: Roger Marks**
- **Vice Chair: Ken Stanwood**
- **Secretary: Dean Chang**
  
- **Chair and Vice Chair elections today**

# 802.16 Sessions

- #29: 12-15 January 2004
  - Vancouver, BC, Canada
- #30: 15-18 March 2004
  - Orlando, FL, USA
- #31: 17-20 May 2004
  - Shenzhen, China
- #32: 12-15 July 2004
  - Portland, OR, USA
- #33: September 2004
  - tbd

# Resources

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



# IEEE 802.17 Resilient Packet Ring

## Session # 21

### Monday Plenary Start Time

### 1:15 pm





# Past Interims



- January 12-15, 2004
  - Vancouver
- February 18, 2004
  - 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.
  - Sponsor Ballot D3.0 92% approval
  - Sponsor Recirc D3.1 94% approval
    - Comment Resolution this week
  - Requesting Conditional Approval to Forward to Revcom



# Current Projects

- 802.17a
  - amendment to 802.1D to add support for 802.17
  - WG Ballot 100% approval
    - Some changes made to the draft
  - WG Ballot Recirculation 100% approval
    - Comment Resolution this week
  - Requesting Start for Sponsor Ballot





# 802.17 Meeting Schedule



	Mon	Tues	Wed	Thurs
8-12		CR aD1.1	CR D3.1	Plenary Start 9am
		CR D3.1		
12-6	Plenary Start 1:15pm	CR D3.1	CR D3.1	



# Proposed Interim Sessions



- April 22, 2004
  - Teleconference from Cisco Ottawa/SJ sites
  - CR on 802.17 D3.2, CR on 802.17a D2.0
- Mid May, 2004
  - Teleconference from Cisco Ottawa/SJ sites
  - CR on 802.17 D3.3, CR on 802.17a D2.1
- Determining need for a May Interim

# **IEEE 802.19 Wireless Coexistence TAG**

## **March 2004 Opening Report**

**Steve Shellhammer  
shellhammer@ieee.org**

# TAG Officer Elections

- **Chairman**
  - Steve Shellhammer
- **Vice Chairman**
  - Tom Siep
- **Editor/Secretary**
  - David Cypher

## Current TAG Activities

- Working on recommended changes to the LMSC policies and procedures to address coexistence between different IEEE 802 wireless standards
  - Detail at the various phases of standards development, what new steps need to be taken to ensure the new standard coexists with the other wireless standards.

## Current TAG Activities

- Develop a methodology for predicting interference between wireless systems developed according to different wireless standards.
  - Call for submissions was recently sent to the various wireless WG reflectors
  - IEEE 802.19-04-0007r3



802.21  
March 2004  
Officer Elections  
David Johnston  
david.johnston@ieee.org  
dj.johnston@intel.com

# Officer Elections

- Will be held during Thursday PM 802.21 meeting
- Election process posted
- [http://802-21-server/march04\\_meeting\\_docs/802.21\\_election\\_rules\\_r2.doc](http://802-21-server/march04_meeting_docs/802.21_election_rules_r2.doc)
  - comments on rules gratefully accepted





# EC meetings

- Tuesday 2-3pm: 802 Task Force
- Tuesday 3-4pm: CAG/802 discussions
- Tuesday 4-5pm: 802/SA/China SAC
  
- Tuesday 9-11am: 802 re-org discussion

# Tutorial Schedule

<b>Monday</b>	<b>Tuesday</b>
<b>Wireless Performance Metrics</b> 6:00-7:30PM	<b>10Gb Enet on MMF</b> 6:00-7:30PM
<b>Power Line Carrier</b> 7:30-9:00PM	<b>Spread Spectrum Retrospective</b> 7:30-9:00PM
<b>Education, Mentoring &amp; Support Policy and Procedures</b> 9:00-10:30PM	<b>Application of mmWave PHY in WPAN</b> 9:00-10:30PM
<b>WG/TAG Financial Workshop</b> 9-10:30PM	

The meeting was adjourned at 12:00 noon

5 Respectfully submitted,  
Bob O'Hara  
Recording Secretary

Minutes taken by Steve Shellhammer in the absence of the Recording Secretary.