

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

Monday, November 15, 2004 – 8:00 a.m.

San Antonio, TX

- 5 Paul Nikolich - Chair, IEEE 802 LAN / MAN Standards Committee
- To be filled - Vice Chair, IEEE 802 LAN / MAN Standards Committee
- Mat Sherman - Vice Chair, IEEE 802 LAN / MAN Standards Committee
- Bob O'Hara - Recording Secretary, IEEE 802 LAN / MAN Standards Committee
- Buzz Rigsbee - Executive Secretary, IEEE 802 LAN / MAN Standards Committee
- 10 John Hawkins - 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
- 15 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
- Steve Shellhammer - Chair, IEEE 802.19 – Wireless Coexistence TAG
- Jerry Upton - Chair, IEEE 802.20 – Mobile Broadband Wireless Access
- 20 Ajay Rajkumar - Chair, IEEE 802.21 – Media Independent Handover
- Carl Stevenson - Chair, IEEE 802.22 – Wireless Regional Area Networks

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

Paul Nikolich opened the meeting in a white shirt and conservative tie.

25 **2.00 MI APPROVE OR MODIFY AGENDA - Nikolich 4 08:01 AM**

**Motion: to approve the agenda as modified.
 Moved: Mat Sherman/Ajay Rajkumar
 Passes: 12/0/0**

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3.00	*	APPROVE / MODIFY MINUTES OF PREVIOUS MEETING	- Nikolich	0	08:05 AM
			-		08:05 AM
4.00	II	TREASURER'S REPORT	- Hawkins	10	08:05 AM
4.01			-		08:15 AM
		Category (* = consent agenda)			08:15 AM
		Std's Board items			08:15 AM
5.00	II	Std's Board Actions (approved projects, standards, withdrawals)	- Nikolich	2	08:15 AM
5.01	II		-		08:17 AM
5.02	II	PARS to NesCom	- Nikolich	2	08:17 AM
5.03	II	Drafts to Sponsor Ballot	- Nikolich	2	08:19 AM
5.04	II	Drafts to Revcom	- Nikolich	2	08:21 AM
5.05	II		-		08:23 AM
					08:23 AM

SA items				08:23 AM
6.00	II	802 Task Force update	- Nikolich	5 08:23 AM
6.01	II	Declaration Affiliation/Entity Balloting Tutorial preview	- Kenney	10 08:28 AM
6.02	II	Get IEEE802 program update	- Kenney	5 08:38 AM
6.03	II	Complimentary copies	- Kenney	5 08:43 AM
6.04	II	Online Training Update	- Ickowicz	5 08:48 AM
6.05	II	balloting update	- Ickowicz	5 08:53 AM
6.06	MI	802 News Bulletin - terminate or continue?	- Nikolich	10 09:03 AM
6.07	II		-	09:03 AM
6.08				09:03 AM
6.09				09:03 AM
LMSC items				09:03 AM
7.00	MI	Confirmation of Pat Thaler as 2nd VC	Nikolich	5 09:08 AM
7.01	MI	LMSC Meeting Fee Waivers	- Nikolich	2 09:10 AM
7.02	II	Tutorial schedule	- Nikolich	5 09:15 AM
7.03	II	P&P SA/CS conformance	- Sherman	5 09:20 AM
7.04	II	P&P Changes	- Shellhammer	5 09:25 AM
7.05	II	Status of 802.3 finances	- Grow	5 09:30 AM
7.06	MI	Member Emeritus Position - Geoff Thompson	- Nikolich	10 09:40 AM
7.07	II	Status update on Chinese activity in ISO/IEC SC6 WG1	- Kerry	5 09:45 AM
7.08	II	Architecture Group update	- Jeffree	5 09:50 AM
7.09	II	802.3 PARs (802.3ar, 802.3as)	- Grow	5 09:55 AM
7.10	II	802.1 PARs (802.1ah, 802.1ai, 802.1aj)	- Jeffree	10 10:05 AM
7.11	II	802.11 PARs (802.11u, 802.11v)	- Kerry	5 10:10 AM
7.12	II	802.16 PAR (802.16h)	- Marks	5 10:15 AM
7.13	II	802.17 PAR (802.17b)	- Takefman	5 10:20 AM
7.14	DT	Network Services RFP	- Heile	5 10:20 AM
7.15	II	APF Study Group	- Kerry	1 10:20 AM
7.16	II		-	10:20 AM
7.17	II		-	10:20 AM
7.18	II		-	10:20 AM
7.19	II		-	10:20 AM
7.20	II		-	10:20 AM
7.21	II		-	10:20 AM
7.22	II		-	10:20 AM
7.23	II		-	10:20 AM
7.24	II		-	10:20 AM
7.25	II		-	10:20 AM
7.26	II		-	10:20 AM
7.27	II		-	10:20 AM
7.28	II		-	10:20 AM
7.29	DT	SEC meeting schedule (rules, SA, etc.)	- Nikolich	3 10:23 AM
		ADJOURN SEC MEETING	- Nikolich	10:23 AM
8.00	PL	IEEE 802 PLENARY MEETING STARTS	- Nikolich	60 11:00 AM
8.01	PL	IEEE 802 PLENARY MEETING ENDS		12:00 PM

ME - Motion, External MI - Motion, Internal
DT- Discussion Topic II - Information Item

Special Orders

3.00	*	APPROVE / MODIFY MINUTES OF PREVIOUS MEETING	-	Nikolich	0	08:05 AM
			-			08:05 AM
4.00	II	TREASURER'S REPORT	-	Hawkins	10	08:05 AM

John recommended that working group chairs review the financial procedures to avoid beginning to work with a treasury when that is not intended. He asked the chairs to prepare attendance estimates and to send them to him.

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IEEE 802 LAN/MAN Std
Treasurer's Report
San Antonio, TX – November 2004

Treasurer: John Hawkins



Money Matters

- Transition from Bill Quackenbush complete:
 - My thanks to him
 - Books/records in very good order
- Rules for Interims:
 - Reminder to review Bill Q's procedures on financial ops
 - Lest you end up having a WG treasury when you didn't intend to
 - Always have a host
 - Sign contracts properly. Understand who agrees to what.
 - See me if you have questions
- Need your help working on the networking RFP
- I will be requesting attendance estimates in near future
- Future budgets will be needing approval – stay tuned



Now, let's do the numbers...

LMSC Budget

2004					
	January 802 Interims	March	July	Nov	Year
	<i>Vancouver Actual 0.780</i>	<i>Lake Buena Vista, FL Actual</i>	<i>Portland Actual</i>	<i>San Antonio Budget</i>	
Exchange Rate					
Meeting Income:					
Registrations	1,021	1,376	1,476	1,250	
Pre-registration fee	300	300	300	300	
Registration fee	350	350	350	350	
Average Fee	324	320	323	320	
Subtotal	331,000	440,450	476,850	400,000	1,648,300
Bank Interest	0	80	64	60	204
Other	3,617	0	7,644	0	11,261
TOTAL Income	334,617	440,530	484,558	400,060	1,659,765
Meeting Expenses:					
Audio Visual Rentals	13,117	19,537	14,948	15,000	62,602
Audit	0	0	6,083	0	6,083
Bank Charges	66	199	205	278	747
Copying	660	3,021	2,609	3,500	9,790
Credit Card Discounts	9,064	12,131	13,110	10,800	45,105
Equipment Purchase/Repair	0	20,405	17,574	9,000	46,979
IPF/Escrow/Free 802 Stds	0	102,225	110,025	93,750	306,000
Insurance	0	2,713	0		2,713
Meeting Planners	66,008	84,559	94,823	76,838	322,228
Misc Expenses	652	3,372	6,083	8,500	18,607
Network	29,682	27,026	39,166	66,388	162,262
Phone & Electrical	2,170	966	1,525	2,100	6,762
Refreshments	125,023	109,535	101,430	100,000	435,988
Shipping	7,264	6,580	4,921	4,500	23,265
Social	32,864	50,641	33,047	40,000	156,551
Supplies	62	1,093	696	500	2,351
TOTAL Meeting Expense	286,631	444,002	446,245	431,154	1,608,032
NET to Operating Reserve	47,986	(3,471)	38,313	(31,094)	51,734

IEEE Project 802
Statement of Operations
July 2004 Plenary Session
Portland, OR
As of November 14, 2004

Session Income	Actual	Budget	Deviation
Net Registrations	1,476	1,250	226
818 Registrations @ \$300	245,400	225,000	20,400
658 Registrations @ \$350	230,300	175,000	55,300
23 Cancellation @ \$50	1,150		
0 Cancellations @	0		
0 Other @ \$100	0		
Registraion Subtotal	<u>476,850</u>	<u>400,000</u>	76,850
0 Deadbeat Payme @ \$350	0	0	0
Interest	64	60	4
Other	<u>7,644</u>	<u>0</u>	7,644
TOTAL Session Income	484,558	400,060	84,498
Session Expenses	Actual	Budget	
Audio Visual Rentals	14,948	15,000	52
Audit	6,083	6,050	(33)
Bank Charges	205	278	74
Copying	2,609	3,500	891
Credit Card Discounts & Fees	13,110	10,800	(2,310)
Equipment Expenses	17,574	9,000	(8,574)
Get IEEE 802 Contribution	110,025	93,750	(16,275)
Insurance	0	0	0
Meeting Administration	94,823	75,463	(19,361)
Misc Expenses	6,083	500	(5,583)
Networking	39,166	34,388	(4,778)
Phone & Electrical	1,525	2,100	575
Refreshments	101,430	85,000	(16,430)
Shipping	4,921	3,100	(1,821)
Social	33,047	40,000	6,953
Supplies	<u>696</u>	<u>500</u>	(196)
TOTAL Session Expense	446,245	379,429	(66,816)
NET Session Surplus/(Deficit)	<u>38,313</u>	<u>20,631</u>	17,682
Analysis			
Refreshments per registration	69	68	(1)
Social per registration	22	32	10
Meeting Admin per registration	64	60	(4)
Surplus/(Loss) per registration	26	17	9
Pre-Registration ratio	0.55	0.60	
Reserve for uninvoiced expenses for prior sess	0		
Reserve for other outstanding commitments	1,750		
Expenses prepaid for Nov session	12,973		
Expenses prepaid for future sessions	0		
November 2004 Operating Reserve	359,565		

IEEE Project 802
Estimated Statement of Operations
November 2004 Plenary Session
San Antonio, TX
As of Nov 14, 2004

Meeting Income	<i>Estimate</i>	<i>Budget</i>	<i>Variance</i>
Registrations	1,475	1,250	225
Registration income	472,000	400,000	72,000
Deadbeat collections	0	0	0
Bank interest	75	60	15
Other income	0	0	0
TOTAL Meeting Income	472,075	400,060	72,015
Meeting Expenses	<i>Estimate</i>	<i>Budget</i>	<i>Variance</i>
Audio Visual Rentals	21,000	15,000	(6,000)
Audit	0	0	0
Bank Charges	285	278	(7)
Copying	3,500	3,500	0
Credit Card Discount	12,744	10,800	(1,944)
Equipment Expenses	15,000	9,000	(6,000)
Get IEEE 802 Contribution	110,625	93,750	(16,875)
Insurance	0	0	0
Meeting Administration	87,785	76,838	(10,947)
Misc Expenses	10,000	8,500	(1,500)
Network	90,000	66,388	(23,612)
Phone & Electrical	6,800	2,100	(4,700)
Refreshments	110,494	100,000	(10,494)
Shipping	4,500	4,500	0
Social	45,033	40,000	(5,033)
Supplies	500	500	0
TOTAL Meeting Expense	518,266	431,154	(87,112)
NET Meeting Income/Expense	(46,191)	(31,094)	(15,097)
Analysis			
Refreshments per registration	75	80	5
Social per registration	31	32	1
Meeting Administration per registration	60	61	2
Surplus/Deficit per registration	(31)	(25)	(6)
Pre-registration rate	0.600	0.600	
Estimated Other Liabilities	0		
Nov 2004 Operating Reserve	359,565		
Projected March 2005 Operating Reserve	313,374		

A question was asked as to what an appropriate value is for the operating reserve. John's response, after consulting with Buzz, was that perhaps \$400,000 would be needed to cover liabilities, particularly with international venues.

4.01		-		08:15 AM
	Category (* = consent agenda)			08:15 AM
			Stds Board items	08:15 AM
5.00	II	Stds Board Actions (approved projects, standards, withdrawals)	- Nikolich	2 08:15 AM

Sept and Nov 2004

SA Standards Board Actions

Standards Approved

New:

P802.11j/D1.6 (C/LM) Amendment: 4.9 GHz - 5 GHz Operation in Japan (Sept)

P802.17a/D2.1 (C/LM) Standard for Local and Metropolitan Area Networks: Media Access Control (MAC) Bridges - Amendment 3: Bridging of 802.17 (Sept)

Revision:

P802.1X/D11 (C/LM) Standard for Local and Metropolitan Area Networks - Port-Based Network Access Control (Nov)

Administrative Withdrawals: NONE

Reaffirmations: NONE

Aug and Sept 2004

SA Standards Board Actions

Projects Approved

P802.11.2 (C/LM) Recommended Practice for the Evaluation of 802.11 Wireless Performance (Aug)

P802.11p (C/LM) Wireless Access in Vehicular Environments Amendment (Sept)

PAR Extension: P802.11e (C/LM) Medium Access Method (MAC) Quality of Service Enhancements Amendment (Sept)

PAR Modification P802.16e (C/LM MTT) Amendment for Physical and Medium Access Control Layers for Combined Fixed and Mobile Operation in Licensed Bands (Sept)

P802.16f (C/LM) Air Interface for Fixed Broadband Wireless Access Systems - Management Information Base (Aug)

P802.16g Air Interface for Fixed and Mobile Broadband Wireless Access Systems - Management Plane Procedures and Services (Aug)

P802.16-2004/Cor 1 Corrigendum to IEEE Standard for Local and Metropolitan Area Networks - Part 16: Air Interface for Fixed Broadband Wireless Access Systems (Sept)

P802.22 (C/LM) Wireless Regional Area Networks (WRAN) - Specific requirements - Part 22: Cognitive Wireless RAN Medium Access control (MAC) and Physical Layer (PHY) specifications: Policies and procedures for operation in the TV Bands (Sept)

5.01	II		-		08:17 AM
5.02	II	PARS to NesCom	-	Nikolich	2 08:17 AM

PARs to NesCom

- 802.1ah Provider Backbone Bridges
- 802.1ai VLAN Multiple Registration Protocol
- 802.1aj VLAN Two port MAC relay

- 802.3ar Congestion Management
- 802.3as Frame Extension

- 802.11u Wireless Interworking with External Networks
- 802.11v Wireless Network Management

- 802.16h Improved Coexistence Mechanisms

- 802.17b RPR Amendment 1: Spatially Aware Sublayer

5.03 II Drafts to Sponsor Ballot

- **Nikolich 2 08:19 AM**

802.3REVam

5.04 II Drafts to Revcom

- **Nikolich 2 08:21 AM**

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802.1ab, 802.11e, 802.15.1REVa

5.05 II

- **08:23 AM**

IEEE Staff Introductions

- Karen Kenney, Associate Managing Director
- Jennifer McClain Longman, Manager, Industry and Information Standards Publishing
- Andy Ickowicz, Staff Liaison
- Michelle Turner, Editor
- Judy Gorman, Managing Director
- Christina Sahr, Balloting
- Others...

08:23 AM

SA items

08:23 AM

6.00 II

802 Task Force update

- Nikolich

5 08:23 AM

IEEE-SA/802 Task Force

- Meeting held 22 September, 2004 during SASB meetings
 - Topics:
 - 802 News Bulletin—not released promptly due to lack of WG Chair input
 - Individual vs Entity Balloting—will it make a difference?
 - Email Ballot Rule—continue business as usual, action item for Law and Nikolich to draft text for WG to follow
 - 802 Position Statement on Related Projects—Thompson to recommend P&P changes to ProCom in December (the only group that can amend a std sit the group that originated the base)
 - P&P Project Update—Dave Ringle is completing 802 P&P review
 - GetIEEE802—program on budget
 - OnLine Training Project—delayed due to change in Vice Chair
 - MyBallot Beta Testing—802.3 to volunteer
 - Cross-Sponsor Copyright release—(RPR in MSC)
 - Participants:
 - 802- Nikolich, Thomposn, Grow, Law, Booth, Barber, Parsons Klerer
 - SA Staff- Gorman, Kenney, Longman, Ickowicz, Tatiner, McCabe, Nielsen
 - Schedule a follow up meeting this week:
 - Recommend Wednesday 4-5

There was concern expressed by several EC members about the continued lack of resolution on the requirements for email balloting. Paul will add this item to the agenda for a meeting of the 802 Task Force, this week.

6.01 II Declaration Affiliation/Entity Balloting Tutorial preview - Kenney 10 08:28 AM

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The IEEE Standards Association (IEEE-SA) will present a tutorial that addresses the need for some new participation models in the IEEE standards developing community. The topic areas will include:

- 1) A comprehensive set of definitions of entities;
- 2) An overview of the corporate program in the IEEE-SA, (entity-sponsored projects);
- 10 3) A summary of issues relevant to a weighted voting process;
- 4) The value of/need for universal declarations of affiliation;
- 5) Protecting the IEEE brand.

15 The goals of this effort are to openly dialog on these subjects; reach a level of mutual understanding of the issues; socialize proposals that will introduce some new practices in the IEEE-SA; and enable the 802 EC to establish additional guidelines to ensure fair and efficient standards development activity in key technology areas.

6.02 II Get IEEE802 program update - Kenney 5 08:38 AM

Get **IEEE 802®**

Update 11

For LMSC November Plenary

Karen Kenney, Assoc. Managing Director,
Business Administration

15 November 2004, San Antonio, TX



Get IEEE 802® Update 11

Downloads (as of 7 Nov 2004)

- **Program to date** **1,748,936**
- **Year to date** **430,834**
- **Weekly average** **2,367**
- **Most requested**
 - **802.11™-1999, .11b-1999, .11a-1999, .11G-2003**
 - **802.3™-2002**

Get IEEE 802® Update 11

Downloads

Standard	2004	2003	2002	2001	Grand
	Totals	Totals	Totals	Totals	Total
802.11-1999.pdf	41,205	61,285	33,689	29,093	165,272
802.11b-1999.pdf	21,108	33,466	54,478	30,309	139,361
802.11a-1999.pdf	18,974	30,540	22,364	28,732	100,610
802.3-2002.pdf	35,535	39,767	6,478	-	81,780
802.1Q-1998.pdf	8,439	19,852	14,230	23,744	66,265
802.1D-1998.pdf	9,952	15,336	12,593	18,783	56,664
802.3-2002_part1.pdf	16,869	29,831	4,505	-	51,205
802.2-1998.pdf	8,535	11,615	10,492	19,045	49,687
802-1990.pdf	8	2	5,029	43,971	49,010
802.1X-2001.pdf	14,516	19,515	11,328	-	45,359
802-2001.pdf	14,745	25,927	2,952	-	43,624

Get IEEE 802® Update 11

User Type

USER	YTD Total	PTD Total	Monthly Avg
Academic/Student:	191,613	363,047	18,949
Other:	73,458	142,948	7,544
Network equipment manufacturer:	52,665	102,085	5,430
Public network service provider:	33,775	62,900	3,318
Network Software Developer/Manufacturer	36,056	57,292	3,327
Systems Administrator:	30,542	49,708	2,962
Standards Developer:	17,479	33,531	1,753
Private network service provider:	16,142	32,008	1,706
Network silicon manufacturer:	12,968	29,482	1,602
Government:	14,852	28,656	1,540
Journalist/Analyst/Author	6,575	10,694	641
Curious Citizen	74	74	74
Total	486,199	912,425	47,909

YTD=Year to date PTD=Program to date

Get IEEE 802® Update 11

Program Entries

Jul 2004 – Nov 2004

- | <u>Std</u> | <u>On or about</u> |
|-------------------|--------------------|
| • 802b™ | 21 Oct |
| • 802.3ak™ | 1 Sep |
| • 802.16™ Conf 02 | 25 Aug |
| • 802.16.2™ | 17 Sep |

Dec 2004 – Mar 2005

- | <u>Std</u> | <u>On or about</u> |
|-------------------|--------------------|
| • 802.1D™ | 9 Dec |
| • 802.3ah™ | 7 Mar |
| • 802.11i™ | 24 Jan |
| • 802.16™ Conf 03 | 25 Dec |
| • 802.17™ | 24 Mar |

Get *IEEE 802*® Update 11

September Approvals

- | <u>IEEE Std</u> | <u>Tentative Pub Date</u> |
|------------------------|----------------------------------|
| • 802.17a | 29 Oct |
| • 802.11j | 29 Oct |
| • Also | |
| • June - 802.16 | 1 Oct |
| • (December – 802.1x | 11 Dec) |

Get **IEEE 802®** Update 11

Reminders/Updates

- **Drafts Delivery Service**

<http://www.ili-info.com/ieee802drafts/>

Looking to take back

- **Shop IEEE improvements --> instant access**
- **Check out the new website**
- **SEC continuing commitment to provide drafts thru ballot upload function**
- **Plenary support for corporate sponsors**

Thank You
Questions?

Roger pointed out that there is no easy way to find standards that are for sale and not in the Get IEEE 802 yet. There is no pointer from the free download site to the site to purchase standards. The opinion was expressed that significant revenue from standard sales is being lost, because people can't find the standards not in the free download section.

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6.03 II Complimentary copies - Kenney 5 08:43 AM

Effective January 2005, distribution of complimentary copies of a standard to those who have contributed to the standard will be in PDF format only. An objection was raised that this was little enough to ask in return for the work of the volunteers and the contributions of 802 to the Get IEEE 802 program. This will be taken up in the 802 Task Force meeting.

10

6.04 II Online Training Update - Ickowicz 5 08:48 AM

Pat Thaler and Andy will be working together this week to reestablish the momentum in the project.

6.05 II balloting update - Ickowicz 5 08:53 AM

15

There will be a tutorial this week to describe this new program (MyBallot).

6.06 MI 802 News Bulletin - terminate or continue? - Nikolich 10 09:03 AM

The viability of this activity is in question. Timely input from the working group chairs is lacking. Paul indicated that for this to work the chairs need to provide their input to Karen McCabe by the end of the week. If we are not able to get timely input to Karen, the program is not worth continuing. Karen Kenney reported that this program costs approximately \$30,000 per year in freelance PR costs. Several members expressed the value of the program. One member suggested that a single link from the IEEE web site point to individual working group news sites and let the working groups manage there own bulletins.

25

Motion: To discontinue the news bulletin program.

Moved: Roger Marks / Tony Jeffree

Passes: 7/4/3

6.07 II - 09:03 AM

6.08 09:03 AM

6.09 09:03 AM

LMSC items

09:03 AM

7.00 MI Confirmation of Pat Thaler as 2nd VC Nikolich 5 09:08 AM

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Motion: To confirm Pat Thaler as the 2nd vice chair of the EC.

Moved: Jerry Upton / Carl Stevenson

Paul indicated that Pat would take the office immediately upon confirmation. Review of the Policies and Procedures clause 7.1.2 provides for this.

35

Passes: 14/0/0

7.01 MI LMSC Meeting Fee Waivers - Nikolich 2 09:10 AM

Meeting Fee Waivers

- The following individuals have had their registration fees waived for this plenary session by the LMSC chair.
 - IEEE-SA Staff Participants
 - Karen Kenney, Jennifer McClain Longman, Andy Ickowicz, Judy Gorman, Christina Sahr, Michelle Turner, Sue Vogel
 - Invited Participants
 - Don Wright (SASB Chair), Ben Johnson (former SA president), Dan Senese (IEEE Executive Director)

Paul asked for confirmation of the meeting fee waivers.

Motion: to approve meeting fee waivers for the individuals listed here: Karen Kenney, Jennifer Longman, Andy Ickowicz, Judy Gorman, Christina Sahr, Michelle Turner, Sue Vogel, Don Wright, Ben Johnson, Dan Senese.

5 **Moved: Buzz Rigsbee / Mat Sherman**

Passes: 15/0/0

7.02 II Tutorial schedule

- Nikolich

5 09:15 AM

Tutorial Schedule

Monday	Tuesday
1) Entity Balloting in IEEE Stds 6:30-8:00PM	3) MAC enhancements for RF 6:30-8:00PM
2) myBallot—IEEE Sponsor Ballot processing 8:00-9:30PM	4) Ethernet Congestion Mgmt 8:00-9:30PM
Power over Ethernet Call for Interest 6:30-8:00PM (not a tutorial)	
	16

LMSC Policy and Procedures Update

Author:

Matthew Sherman
1st Vice Chair, IEEE 802
BAE Systems - CINR
Matthew.Sherman@BAESystems.com

Date: November 15th, 2004

LMSC P&P Maintenance Activities

- In process ballots (To be voted for approval Friday)
 - Coexistence (Steve Shellhammer)
 - IEEE SA & CS Governance Conformance (Matthew Sherman)

- SOW to SA for P&P Support is approved


- Pending ballots
 - Streamlining (Matthew Sherman)
 - Will probably be several ballots

- “Operating Rules” Subcommittee meeting 9/14/04
 - Comment resolution on Coexistence P&P Revision
 - Comment resolution on SA & CS Conformance P&P Revision
 - Updates on SA and CS Governance
 - Discussions on Streamlining P&P Revision
 - Discussion on Entity based standards development
 - Discussion on “Member Emeritus” concept

Ballot On SA & CS Conformance

- Conducted Resolution
 - General consensus reached
 - New text to be circulated shortly
- If anyone objects to specific text
 - Please inform me so we can discuss

Restructuring Process

- Reformat to match Sponsor Model (1 Cycle)
 - Editorial in Nature
- Modify for conformance (1 Cycle)
 - Identify where requirements of SA and CS SAB not met
 - Introduce changes to bring into conformance
- Streamline (1 Cycle)  **YOU ARE HERE**
 - Implement “Less is More”
 - Fix any deficiencies specific to 802
 - Reduce backlog of P&P revisions
- Entire process to take roughly 1 year
 - May extend 4 months for streamlining

Streamlining P&P Revision

- Current rule are unwieldy
- Would like to reduce content
 - Similar process just completed by CS SAB
 - Incorporate by reference rather than explicit
 - Delegate down where appropriate
- Many P&P Revs in queue
 - Would like to combine less controversial changes into single “Super” rev to reduce backlog
 - More controversial issues must be dealt with independently

Current Backlog of P&P Revs

Rules change Issues 0411r2.txt

Other Governance Highlights

- SA Model P&P
 - Entity Sponsor Model in development
 - WG Model in development
 - Both Entity and Individual
- CS SAB has new P&P
 - Much simplified
 - Reduced oversight of IEEE802
- AUDCOM will review IEEE802 P&P

A question was asked about whether the prior requirement of CS SAB to review all changes to our P&P has been changed. Mat indicated that it is not clear that they have authority to review the changes and are relying on AUDCOM for that function.

7.04 II P&P Changes

- Shellhammer 5 09:25 AM

5

Revision of Proposed 802 P&P Changes

- The 802.19 TAG Reviewed EC letter ballot comments in September
- The proposed text was modified in Sept
 - 802.19-04/0032r1
- Resolutions to EC Comments
 - 802.19-04/0033r0
- Additional modification based on EC comments at Sunday's Rules Meeting
 - 802.19-04/0032r2
- EC vote on Friday

5 Bob Grow reported that 802.3 have signed no contracts, but our meeting planner had IEEE sign hotel contracts for our May and September meetings. The May meeting was enabled by the Cat 6 consortium and the September meeting by Nortel. In both cases the LMSC P&P requirements of a host were not met. Though both the Cat 6 consortium and Nortel made some contribution to the meeting, the financial liabilities were primarily IEEE (e.g., room block) and Face-to-Face events (e.g., ISP), so technically the meetings had joint hosts.

10 Both meetings were over \$25K and the total also over \$100K thus requiring on both single meeting and annual dollar thresholds that our operations be audited for CY2004 by IEEE Audit Operations.

802.3 will be considering the issue of operation with treasury this week and will report back to the EC at the Friday closing EC meeting.

Bob indicated that the meeting organizer went directly to IEEE to have them review and sign the contract. This is what has gotten 802.3 into the situation of requiring the 802.3 finances to be audited.

John Hawkins will present a draft of a meeting sponsor guidelines document on Friday.

5

7.06 MI Member Emeritus Position - Geoff Thompson - Nikolich 10 09:40 AM

Member Emeritus Position

- Chair desires the creation of a single “member emeritus” position on the EC
- Subject to the policies in the following slide and approval by the EC
- Chair nominates Geoff Thompson to provisionally occupy the position until March 2006
- Call for a motion to approve the above action

- Member Emeritus P&P:
-
- Scope: To provide advisory services and support to the EC on specific projects as needed. May act as an IEEE-SA standards board liaison representative and as a liaison with other organizations.
-
- Rights: Exactly the same as EC members, except it is a non-voting position. Cannot make or second motions.
-
- Responsibilities: Variable, depends on particular issues at hand, should be clearly defined by the EC chair.
-
- Retention: Honorary membership will be lost if 80% attendance requirement is not met. Must fulfill obligations as defined by the EC Chair.
-
- Appointment/Reconfirmation: Appointed by chair, confirmed by EC, must be reconfirmed at the 1st plenary session of even numbered years.
-
- Open Position: If the position is unoccupied, the Chair has the option of leaving the position open or recommending a person to fill it.

Paul would like to confirm the appointment Geoff Thompson to provisionally occupy an advisory position, tentatively called Member Emeritus, and described above, until March 2006.

5 Concern was expressed about the need for this position. Why is the position required? Would the perceived need be better served with a third vice chair? Paul indicated that there is a need to support the chair in several activities and venues, particularly external organizations. He desires not to lose the experience and counsel of some of the most experienced members. But, he does not want to increase the number of voting appointed positions on the executive committee.

10 Paul would have Geoff participate in the SC6 work with regard to the Chinese WAPI submission, representing 802 positions. He would have him work on making information on EC balloting more easily available. He would have him provide advice on other items of relevance to the EC.

Straw poll: 7 in favor of the position, none completely opposed.

15 There will be a meeting this week to discuss this further and to craft the motion for Friday.

7.07 II Status update on Chinese activity in ISO/IEC SC6 WG1 - Kerry 5 09:58 AM

IEEE 802 – JTC1/SC6 Overview

Bruce Kraemer

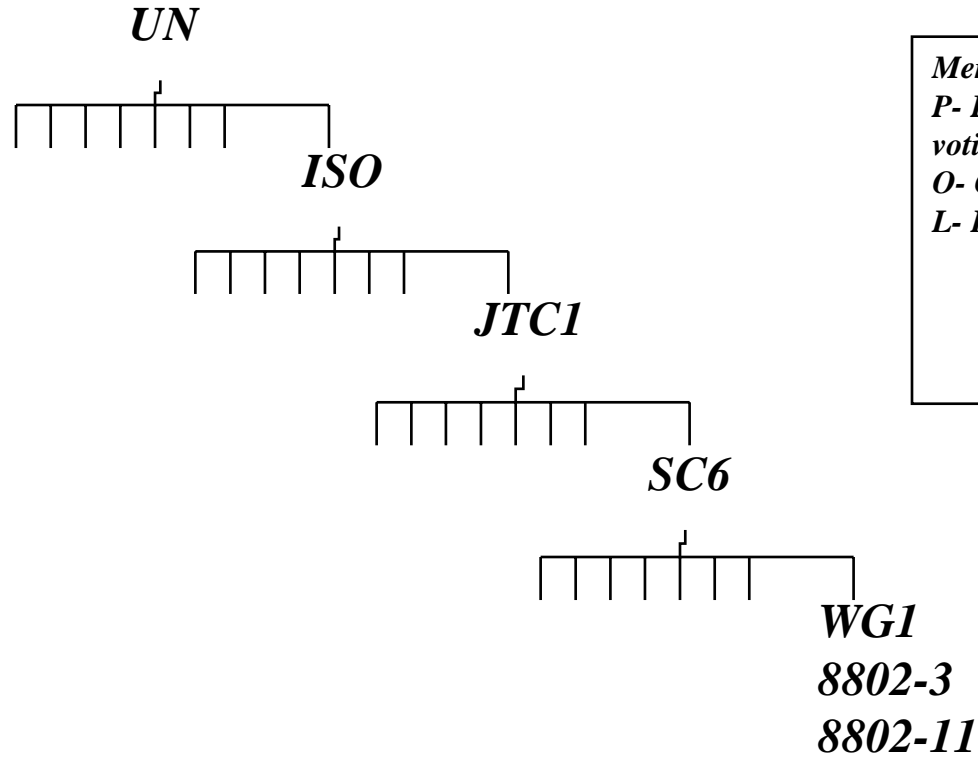
Jesse Walker

Al Petrick

Background

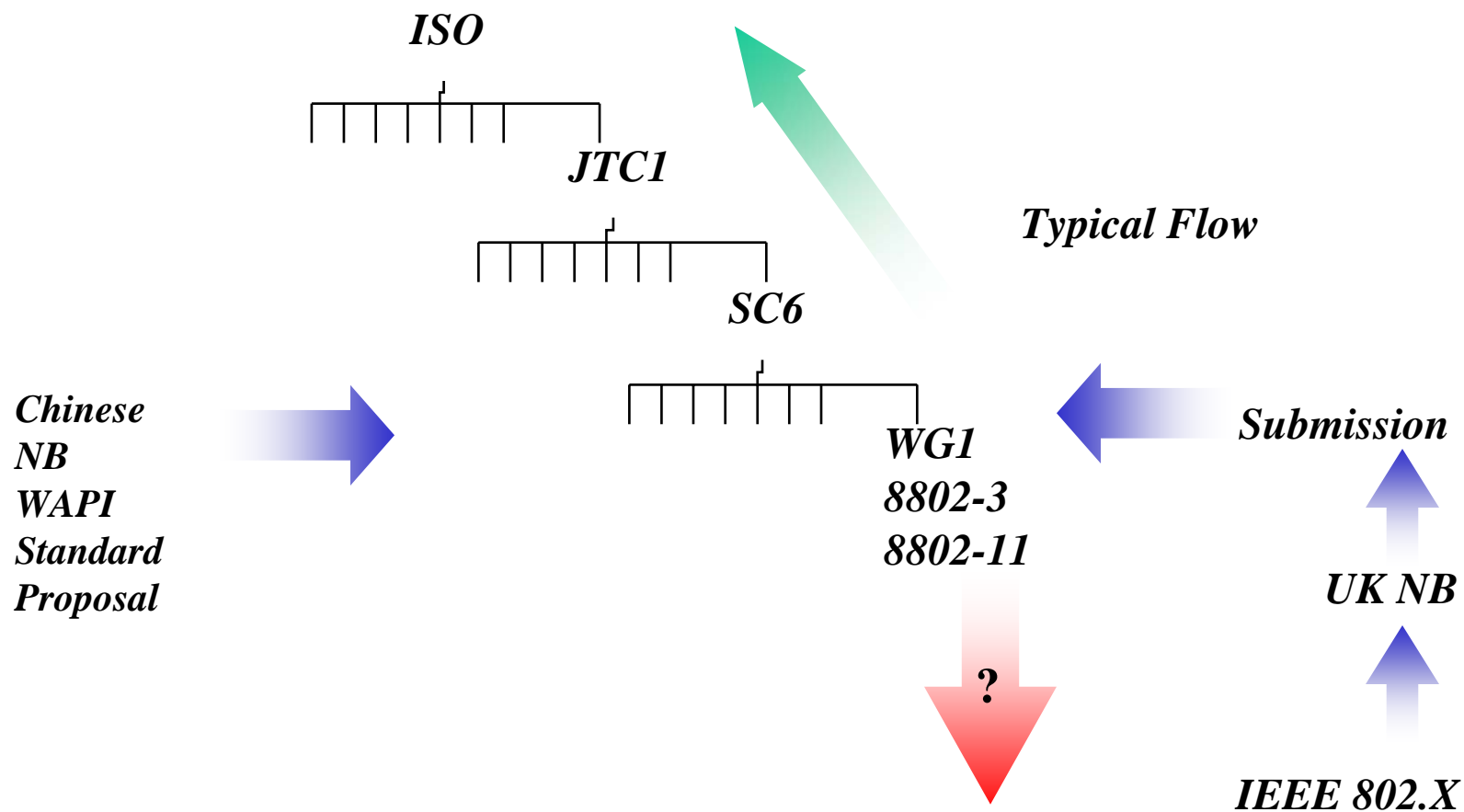
- IEEE 802 submits some standards and amendments to ISO for international approval, e.g. -1, -2, -3, -5, -6, -11
 - 802.3 pieces are known as 8802-3 xxx
 - 802.11 pieces are known as 8802-11 xxx
 - Some are currently in the approval pipeline e.g 802.11i – security amendment
- China has submitted an alternate security mechanism for use with 8802-11-1999 (N7506 also known as WAPI)
- ISO/JTC1/SC6/WG1 meeting held in Orlando week of Nov 8
- There was significant confusion within ISO over the proper procedure to handle this
 - Chinese delegation perceived ISO was fast tracking 11i and blocking WAPI
 - Question over the working relationship with IEEE 802

ISO Hierarchy



Membership
P- Participant - National Body Representatives - voting
O- Observer - National Body Representatives
L- Liaison
A- ETSI, ITU,...
B-
C- IEEE 802

Unusual Entry Point



How to :
Move work from ISO to IEEE802?
Guarantee & maintain integrity of WAPI Security?

End

ISO Flow

National Body – Requests New Project Work Item in SC6



Creation of Standard



Fast track Process



National Body Submits Previously Created Std



ISO Standard Approval Process

6 months

802 Architecture Group

Intent

- Improve alignment between WG projects and existing 802 architecture by:
 - Identifying current problems, omissions, conflicts, ramifications, and their potential resolution
 - Identifying potential refinements or changes to the architecture
 - Providing a regular forum in which such discussion can take place, in a lower pressure environment than is possible during the core Plenary cycle.

Mechanism

- A meeting per Plenary cycle
 - Chaired by 802.1 Chair
 - Time slot: 2-5 PM Sunday prior to Plenary
 - Participants: Initially, WG Chairs plus one (or more) “architects” or “technical leads”; long term, whoever the Chair determines is appropriate/willing
 - Meeting Topic: Architectural issues known to each WG & how they might be resolved
- First meeting: July 2004

Purpose

- To actually have a recurring discussion on architectural issues
- To improve cross-WG discussion/understanding
- To promote a common view

Outputs

- Not detail document oriented
- Consensus, frame of mind, consciousness raising
- Maybe slideware if appropriate
- Topics/thoughts for the focus of the next discussion
- Encouragement to WGs to fix identified problems in appropriate ways
- Simple architecture
- Preservation of layering

Actions

- SEC to formally establish the activity as a SEC standing committee.
- WG Chairs to appoint max 2 nominated participants per WG
 - Qualifications for participants: Capable of generating a durable architecture. Capable of knowing the difference between an architecture, a product, and a standard. Respected within their WG as subject matter experts.
- Report to SEC on status at each meeting.

Known issues – 802.1

- MAC Service definition (currently a revision PAR in place)
- QoS – could be better expressed
- Security expressed as a set of procedures after network entry
- Management – scope and interface
 - Commonality of MAC/PHI management interfaces
- MIB definition for service discovery
- Where work gets done – 802.1 vs 802.X
- Process – ensuring due diligence
- Max frame size
- Position/location awareness

Known issues – 802.3

- QoS/class of service
 - Timing, synchronous, guaranteed bandwidth, low jitter/latency, congestion management...
- Protocol definition vs scope
- Security/link agg
- Ethernet/TCP-IP interdependence
 - Do we care about anything non-TCP?
- Dual homing/resilience/robustness
- Link vs Mixing Segment
- Max frame size

Known issues – 802.11

- QoS/class of service
 - Timing, synchronous, guaranteed bandwidth, low jitter/latency, congestion management...
- Protocol definition vs scope
- Security
- Bridging compatibility – handling of multicasts
- LLC – acts as a block to passing additional (e.g., QoS) parameters
- Mesh
- What is the (future) .11 architecture
 - Structure of an AP
 - DS
 - ...etc
- (Signal) Power/channel management

Known issues – 802.15

- Are PANs different from WLANs?
 - We hope the answer is “No” (wrt the MAC service)
- Security
 - What functionality is needed
 - Who does what aspect
- Bridging compatibility – handling of multicasts, no clause 6 section for .1D
- LLC – acts as a block to passing additional (e.g., QoS) parameters
- Mesh (not the same as the .11 issue though)
- QoS
- Architectural consistency across three MACs
- (Signal) Power/channel management

Known issues – 802.16

- Security
 - has to roll its own EAP transport as .1X/AF
 - is above the LLC
 - No PKI model in .1X/AF
 - MBS – breaks security model
- Model
 - ISS definition is in flux in .1
- QoS
 - No standard way to pass upper layer QoS requirements through to MAC level QoS parameters
 - LLC acts as a block
- Bridging compatibility – handling of multicasts, no clause 6 section for .1D
- . MTU discovery
- Power/channel management

Known issues – 802.17

- Security
- Frame size
- SG – improve bridging for spatial re-use
- CoS/QoS & bridging

Known issues – 802.20

- Needs to support handoff – not clear how to deal with L2 handoff in current architecture
- Security
 - has to roll its own EAP transport as .1X/AF
 - is above the LLC
 - No PKI model in .1X/AF
- QoS
 - No standard way to pass upper layer QoS requirements through to MAC level QoS parameters
 - LLC acts as a block
- Compatibility between 802.20 frame and LLC frame

Known issues – 802.21

- QoS mapping across heterogeneous interfaces
- Authentication mechanisms – different mechanisms in different technologies
- Security – how do you re-establish the security context
- Service discovery
- Power/channel management

Known issues – 802.22

- May be in danger of all of the above

Proposals for resolution

- Due diligence issues – need to fix 802 procedures
 - TJ to propose to SEC that the rules for forwarding to SB & RevCom be strengthened
 - WGs should review projects against PAR/5C requirements during the development cycle
- Each WG:
 - Prioritize issues
 - Characterize the problem
 - Propose approach to resolve, or identify as intractable
 - Identify other groups (802 or external) that may be affected

Agenda for next meeting, Sunday March 13 2005, 2-5pm

- Further refinement and prioritisation of current issues list based on WG input (homework items from previous slide)
- Report back on issues that are currently being addressed
- Proposals for resolution of high priority issues that are not currently being addressed

7.09	II	802.3 PARs (802.3ar, 802.3as)	-	Grow	5	10:15 AM	
7.10	II	802.1 PARs (802.1ah, 802.1ai, 802.1aj)	-	Jeffree	10	10:13 AM	
7.11	II	802.11 PARs (802.11u, 802.11v)	-	Kerry	5	10:17 AM	
7.12	II	802.16 PAR (802.16h)	-	Marks	5	10:19 AM	
5	7.13	II	802.17 PAR (802.17b)	-	Takefman	5	10:20 AM
	7.14	DT	Network Services RFP	-	Heile	5	10:20 AM

Bob Heile reported that our contract with our current network provider is completed at the next wireless group interim meeting. There has been no RFP written for obtaining network services going forward. Pat Thaler is designated as the person responsible for delivering the RFP.

	7.15	II	APF Functionality	-	Kerry		10:20 AM
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This study group will not be renewed. The work is being taken to 802.11ma.

15	7.16	II		-			10:20 AM
	7.17	II		-			10:20 AM
	7.18	II		-			10:20 AM
	7.19	II		-			10:20 AM
	7.20	II		-			10:20 AM
	7.21	II		-			10:20 AM
	7.22	II		-			10:20 AM
	7.23	II		-			10:20 AM
	7.24	II		-			10:20 AM
	7.25	II		-			10:20 AM
	7.26	II		-			10:20 AM
	7.27	II		-			10:20 AM
	7.28	II		-			10:20 AM
	7.29	DT	SEC meeting schedule (rules, SA, etc.)	-	Nikolich	3	10:23 AM

EC meetings for the week at Hyatt, in Chula Vista Boardroom

- Tuesday 1:30-2:30 “names in the Front Matter” telecon
- Tuesday 3-4 JTC1 SC6 WG1 planning
- Wed 9-10 getIEEE 802 budget
- Wed 10-11 802 Task Force
- Wed 1-2 craft Member Emeritus motion

ADJOURN SEC MEETING

- Nikolich 10:28 AM

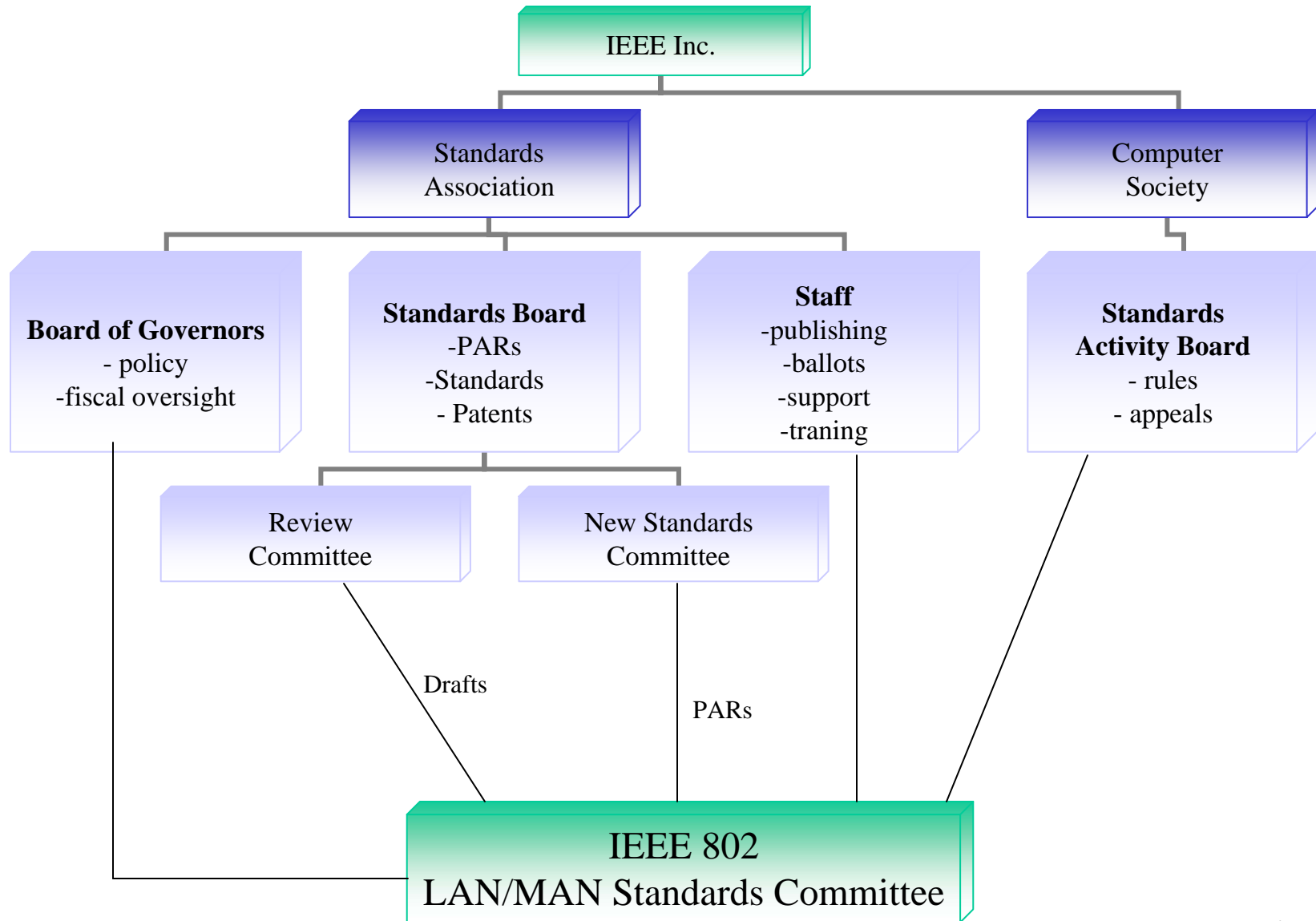
8.00 PL IEEE 802 PLENARY MEETING STARTS

- Nikolich 60 11:00 AM

IEEE802 Monday Plenary Agenda

- 11:00 Welcome Nikolich
- 11:02 Patent Policy and Membership Rules Thaler
- 11:04 IEEE 802 Operating Rules Update Sherman
- 11:06 Treasurer's Report Hawkins
- 11:08 Member Emeritus Thompson
- 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 Rajkumar
- 12:00 802.22 Unlicensed operation in TV bands Stevenson

- --- Tutorials Nikolich
- --- Meeting Arrangements Rigsbee
- 12:00 ADJOURN Plenary



IEEE 802 ORGANIZATION

SPONSOR EXECUTIVE COMMITTEE (SEC)

CHAIR
Paul Nikolich

WORKING GROUP/TAG CHAIRS

APPOINTED OFFICERS

802.1
BRIDGING/ARCH
Tony Jeffree

802.3
CSMA/CD
Bob Grow

802.11
WLAN
Stuart J. Kerry

802.18 TAG
Radio Regulatory
Carl Stevenson

1st VICE CHAIR
Mat Sherman

2nd VICE CHAIR
Thaler

802.15
WPAN
Bob Heile

802.16
BWA
Roger Marks

802.17
ResPackRing
Mike Takefman

802.19 TAG
Coexistence
Shellhammer

EXECUTIVE SECY
Buzz Rigsbee

RECORDING SECY
Bob O'Hara

802.20
MBWA
Jerry Upton

802.21
Handoff
AJ Rajkumar

802.22
Handoff
Stevenson
(interim)

TREASURER
John
Hawkins

HIBERNATION

802.2 LLC (Dave Carlson)
802.5 Token Ring (Bob Love)
802.12 Demand Priority (Pat Thaler)

DISBANDED

802.4 Token Bus
802.7 Broadband TAG
802.9 ISLAN
802.14 CATV
802.6 DQDB
802.8 Fiber Optic TAG
802.10 Security

IEEE Staff Introductions

- Judy Gorman
 - Managing Director
- Karen Kenney
 - Associate Managing Director
- Jennifer McClain Longman,
 - Managing Editor Standards Information and Industry Publications
- Andy Ickowicz,
 - Program Manager, Technical Program Development
- Michelle Turner
 - Project Editor
- Susan Vogel
 - Manager, Technical Committee Programs

Patent Policy

(see next three slides)

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 or visit <http://standards.ieee.org/board/pat/index.html>

IEEE 802 Membership

Pat explains membership criteria

Pending Rules Changes

Mat Sherman update

LMSC Policy and Procedures Update

Author:

Matthew Sherman
1st Vice Chair, IEEE 802
BAE Systems - CINR
Matthew.Sherman@BAESystems.com

Date: November 15th, 2004

LMSC P&P Maintenance Activities

- In process ballots (To be voted for approval Friday)
 - Coexistence (Steve Shellhammer)
 - IEEE SA & CS Governance Conformance (Matthew Sherman)

- SOW to SA for P&P Support is approved


- Pending ballots
 - Streamlining (Matthew Sherman)
 - Will probably be several ballots

- “Operating Rules” Subcommittee meeting 9/14/04
 - Comment resolution on Coexistence P&P Revision
 - Comment resolution on SA & CS Conformance P&P Revision
 - Updates on SA and CS Governance
 - Discussions on Streamlining P&P Revision
 - Discussion on Entity based standards development
 - Discussion on “Member Emeritus” concept

Ballot On SA & CS Conformance

- Conducted Resolution
 - General consensus reached
 - New text to be circulated shortly
- If anyone objects to specific text
 - Please inform me so we can discuss

Restructuring Process

- Reformat to match Sponsor Model (1 Cycle)
 - Editorial in Nature
- Modify for conformance (1 Cycle)
 - Identify where requirements of SA and CS SAB not met
 - Introduce changes to bring into conformance
- Streamline (1 Cycle)  **YOU ARE HERE**
 - Implement “Less is More”
 - Fix any deficiencies specific to 802
 - Reduce backlog of P&P revisions
- Entire process to take roughly 1 year
 - May extend 4 months for streamlining

Streamlining P&P Revision

- Current rule are unwieldy
- Would like to reduce content
 - Similar process just completed by CS SAB
 - Incorporate by reference rather than explicit
 - Delegate down where appropriate
- Many P&P Revs in queue
 - Would like to combine less controversial changes into single “Super” rev to reduce backlog
 - More controversial issues must be dealt with independently

Current Backlog of P&P Revs

Rules change Issues 0411r2.txt

Other Governance Highlights

- SA Model P&P
 - Entity Sponsor Model in development
 - WG Model in development
 - Both Entity and Individual
- CS SAB has new P&P
 - Much simplified
 - Reduced oversight of IEEE802
- AUDCOM will review IEEE802 P&P

Treasurer's report

- Hawkins

LMSC Budget

2004					
	January 802 Interims	March	July	Nov	Year
Exchange Rate Meeting Income:	<i>Vancouver Actual</i> 0.780	<i>Lake Buena Vista, FL Actual</i>	<i>Portland Actual</i>	<i>San Antonio Budget</i>	
Registrations	1,021	1,376	1,476	1,250	
Pre-registration fee	300	300	300	300	
Registration fee	350	350	350	350	
Average Fee	324	320	323	320	
Subtotal	331,000	440,450	476,850	400,000	1,648,300
Bank Interest	0	80	64	60	204
Other	3,617	0	7,644	0	11,261
TOTAL Income	334,617	440,530	484,558	400,060	1,659,765
Meeting Expenses:					
Audio Visual Rentals	13,117	19,537	14,948	15,000	62,602
Audit	0	0	6,083	0	6,083
Bank Charges	66	199	205	278	747
Copying	660	3,021	2,609	3,500	9,790
Credit Card Discounts	9,064	12,131	13,110	10,800	45,105
Equipment Purchase/Repair	0	20,405	17,574	9,000	46,979
IPF/Escrow/Free 802 Stds	0	102,225	110,025	93,750	306,000
Insurance	0	2,713	0		2,713
Meeting Planners	66,008	84,559	94,823	76,838	322,228
Misc Expenses	652	3,372	6,083	8,500	18,607
Network	29,682	27,026	39,166	66,388	162,262
Phone & Electrical	2,170	966	1,525	2,100	6,762
Refreshments	125,023	109,535	101,430	100,000	435,988
Shipping	7,264	6,580	4,921	4,500	23,265
Social	32,864	50,641	33,047	40,000	156,551
Supplies	62	1,093	696	500	2,351
TOTAL Meeting Expense	286,631	444,002	446,245	431,154	1,608,032
NET to Operating Reserve	47,986	(3,471)	38,313	(31,094)	51,734

**IEEE Project 802
Statement of Operations
July 2004 Plenary Session
Portland, OR
As of November 14, 2004**

Session Income	Actual	Budget	Deviation
Net Registrations	1,476	1,250	226
818 Registrations @ \$300	245,400	225,000	20,400
658 Registrations @ \$350	230,300	175,000	55,300
23 Cancellation @ \$50	1,150		
0 Cancellations @	0		
0 Other @ \$100	0		
Registraion Subtotal	<u>476,850</u>	<u>400,000</u>	76,850
0 Deadbeat Payme @ \$350	0	0	0
Interest	64	60	4
Other	<u>7,644</u>	<u>0</u>	7,644
TOTAL Session Income	484,558	400,060	84,498
Session Expenses	Actual	Budget	
Audio Visual Rentals	14,948	15,000	52
Audit	6,083	6,050	(33)
Bank Charges	205	278	74
Copying	2,609	3,500	891
Credit Card Discounts & Fees	13,110	10,800	(2,310)
Equipment Expenses	17,574	9,000	(8,574)
Get IEEE 802 Contribution	110,025	93,750	(16,275)
Insurance	0	0	0
Meeting Administration	94,823	75,463	(19,361)
Misc Expenses	6,083	500	(5,583)
Networking	39,166	34,388	(4,778)
Phone & Electrical	1,525	2,100	575
Refreshments	101,430	85,000	(16,430)
Shipping	4,921	3,100	(1,821)
Social	33,047	40,000	6,953
Supplies	<u>696</u>	<u>500</u>	(196)
TOTAL Session Expense	446,245	379,429	(66,816)
NET Session Surplus/(Deficit)	<u>38,313</u>	<u>20,631</u>	17,682
Analysis			
Refreshments per registration	69	68	(1)
Social per registration	22	32	10
Meeting Admin per registration	64	60	(4)
Surplus/(Loss) per registration	26	17	9
Pre-Registration ratio	0.55	0.60	
Reserve for uninvoiced expenses for prior sess	0		
Reserve for other outstanding commitments	1,750		
Expenses prepaid for Nov session	12,973		
Expenses prepaid for future sessions	0		
November 2004 Operating Reserve	359,565		

IEEE Project 802
Estimated Statement of Operations
November 2004 Plenary Session
San Antonio, TX
As of Nov 14, 2004

Meeting Income	<i>Estimate</i>	<i>Budget</i>	<i>Variance</i>
Registrations	1,475	1,250	225
Registration income	472,000	400,000	72,000
Deadbeat collections	0	0	0
Bank interest	75	60	15
Other income	0	0	0
TOTAL Meeting Income	472,075	400,060	72,015
Meeting Expenses	<i>Estimate</i>	<i>Budget</i>	<i>Variance</i>
Audio Visual Rentals	21,000	15,000	(6,000)
Audit	0	0	0
Bank Charges	285	278	(7)
Copying	3,500	3,500	0
Credit Card Discount	12,744	10,800	(1,944)
Equipment Expenses	15,000	9,000	(6,000)
Get IEEE 802 Contribution	110,625	93,750	(16,875)
Insurance	0	0	0
Meeting Administration	87,785	76,838	(10,947)
Misc Expenses	10,000	8,500	(1,500)
Network	90,000	66,388	(23,612)
Phone & Electrical	6,800	2,100	(4,700)
Refreshments	110,494	100,000	(10,494)
Shipping	4,500	4,500	0
Social	45,033	40,000	(5,033)
Supplies	500	500	0
TOTAL Meeting Expense	518,266	431,154	(87,112)
NET Meeting Income/Expense	(46,191)	(31,094)	(15,097)
Analysis			
Refreshments per registration	75	80	5
Social per registration	31	32	1
Meeting Administration per registration	60	61	2
Surplus/Deficit per registration	(31)	(25)	(6)
Pre-registration rate	0.600	0.600	
Estimated Other Liabilities	0		
Nov 2004 Operating Reserve	359,565		
Projected March 2005 Operating Reserve	313,374		

802[®] Working Group Award Recipients

- IEEE Std 802b-2004
Tony Jeffree
Mick Seaman
- IEEE Std 802.16/Conformance03-2004
Roger B. Marks
Kenneth Stanwood
Lars Lindh
- IEEE Std 802.1D-2004
Tony Jeffree
Mick Seaman
- IEEE Std 802.16.2-2004
Roger B. Marks
Philip Whitehead
Remi Chayer
(Paul, FYI--accent symbol on the "e" in
Remi)
G. Jack Garrison
James P. K. Gilb

EC meetings

- Tuesday nothing planned
- Wednesday 3-4pm: refine SA P&P proposal
- Wednesday 4-5pm: 802 Task Force
- Thursday 11am-noon: On-line training project proposal

Tutorial Schedule

Monday	Tuesday
1) Connectivity Fault Mgmt 6:30-8:00PM	3) Coexistence in Unlicensed Bands 6:30-8:00PM
2) EMS: Process, Policy, Procedure 8:00-9:30PM	4) 1394 and 802 8:00-9:30PM
	EMS: Advanced Framemaker 8:00-9:30PM (optional)
	CFI: Residential Ethernet 6:30-8:00PM (not a tutorial)

LUNCH

- Cash lunch available upstairs on Plaza level

802.1 – Activities & status

Tony Jeffree, 802.1 WG Chair

15th November 2004

Areas of work

- 802 Architecture and interworking between 802 technologies
 - Cross-802 Architecture group
 - “Technical Plenary” if needed
 - Joint meetings this week with 802.3, 802.11, 802.17
- MAC Bridging
 - “traditional” bridging
 - VLAN bridging
 - Provider bridging
- Link Security
 - Secure frame transmission
 - Key management

Officers

- Chair: Tony Jeffree
- Vice Chair: Paul Congdon
- Recording Secretary: Michael Wright
- Interworking and Link Sec TG Chair: Mick Seaman
- Link Sec TG Secretary: Allyn Romanow
- Maintenance of Email exploder: Hal Keen
- Maintenance of website: John Messenger
 - Website: <http://www.ieee802.org/1/>

Status of current projects - (1)

- Revision of 802.1Q - VLANs
 - Initial draft has been generated – main work is general cleanup plus alignment with revisions to 802.1D MAC Bridges
 - Necessary pre-cursor to ongoing amendments (Provider Bridging,...etc.)
 - Expect WG ballot in Nov/Dec timeframe
- Revision of 802.1X – Port access control
 - Sponsor ballot phase now complete
 - Awaiting final RevCom approval
 - Expected publication date December 2004

Status of current projects - (2)

- Llink layer discovery (P802.1AB)
 - About to complete second Sponsor recirc ballot
 - Ballot comment resolution this week if necessary
 - Expect submission to RevCom following this session
- 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 - (3)

- P802.1ad Provider Bridges:
 - An amendment to 802.1Q
 - D3 Task Group ballot issued in last 3 weeks
 - Comment resolution will take place this week

Status of current projects - (4)

- P802.1AE – MAC Security
 - Task group balloting ongoing
- P802.1af – Key Agreement
 - PAR (an amendment to 802.1X-REV) approved
- P802.1ag Connectivity Fault Management
 - PAR (an amendment to P802.1Q-REV) approved
 - Editor's second draft generated

New project proposals (PARs) under consideration this week

- P802.1ah – Provider Backbone Bridges
 - Proposed amendment to 802.1Q to provide further scaling characteristics in conjunction with P802.1ad in large provider networks
- P802.1ai – Multiple Registration Protocol
 - Proposed amendment to 802.1Q to improve the performance/scalability of GARP-based applications (GVRP, GMRP) in provider networks
- P802.1aj – Two-port MAC Relay
 - Proposed amendment to 802.1Q to define a relay device, commonly known as a “media converter”, that will assist the integration of 802 LAN technologies with emulated LAN services in use in the provider networking space.

IEEE 802.3 Working Group

15 November 2004

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

802.3 Officers

- 802.3 Chair: Bob Grow (bob.grow@ieee.org)
- 802.3 Vice Chair: David Law (david_law@3com.com)
- 802.3 Secretary: Steve Carlson (scarlson@esta.org)

- P802.3REVam: David Law (david_law@3com.com)
- P802.3an 10GBASE-T: Brad Booth (bradley.booth@intel.com)
- P802.3ap Backplane Ethernet: Adam Healey (ahealey@agere.com)
- P802.3aq 10GMMF: David Cunningham (david_cunningham@agilent.com)
- Congestion Management SG: Ben Brown (benjamin.brown@ieee.org)
- Frame Expansion SG: Kevin Daines (kevin.daines@www.p.com)
- Residential Ethernet SG: Steve Carlson (scarlson@esta.org)

IEEE 802.3 Standards

- IEEE Std 802.3-2002 (8 Mar 2002)*
- IEEE Std 802.3ae-2002 (30 Aug 2002)*
- IEEE Std 802.3af-2003 (18 Jun 2003)*
- IEEE Std 802.3aj-2003 (26 Sep 2003)*
- IEEE Std 802.3ak-2004 (1 March 2004)*
- IEEE Std 802.3ah-2004 (7 Sep 2004)

- IEEE Std 1802.3Rev-2001*

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

P802.3REVam

- Revision of IEEE Std 802.3
 - IEEE Std 802.3-2002
 - IEEE Std 802.3ae-2002
 - IEEE Std 802.3af-2003
 - IEEE Std 802.3aj-2003
 - IEEE Std 802.3ak-2004
 - IEEE Std 802.3ah-2004
 - Maintenance 8
 - Errata
- Meeting plan (Wed)
 - Respond to 1st WG Recirculation Ballot
 - Current draft P802.3REVam/D1.1
 - Plan to go to request sponsor ballot

P802.3an 10GBASE-T

- Extends Ethernet capabilities at 10 Gb/s
 - Operation over horizontal twisted pair
 - New physical layer to run under 803.2ae specified XGMII
- Meeting plan (Tues, Wed, Thu morn)
 - Technical presentations
 - Refine/add to current draft: P802.3an/D1.1

P802.3ap Backplane Ethernet

- Define Ethernet operation over electrical backplanes
 - 1Gb/s serial
 - 10Gb/s serial
 - 10Gb/s using XAUI based 4 lanes
 - Autonegotiation
- Meeting plan (Tues, Wed, Thu morn)
 - Technical presentations
 - Anticipate creation of P802.3ap/D1.0 out of this meeting

P802.3aq 10GBASE-LRM

- Extends Ethernet capabilities at 10 Gb/s
 - New physical layer to run under 803.2ae specified XGMII
 - Extends Ethernet capabilities at 10 Gb/s
 - Operation over FDDI-grade multi-mode fiber
- Meeting plan (Tues, Wed, Thu morn)
 - Technical presentations
 - Refine/add to current draft: P802.3an/D0.2

Congestion Management SG

- Evaluate advisability of standardizing enhanced Ethernet congestion management capability
- Meeting plan (Tue, Wed, Thu morn)
 - Technical presentations
 - Joint meeting with 802.1 (Tues 9-10:30, Wyndham, Travis)
 - Seek approval of P802.3ar PAR and Five Criteria

Frame Format Extensions Ad Hoc

- Increase the maximum Ethernet frame size for protocol header/trailer additions
 - Initiated at the request of 802.1 in support of protocols like MACSec and Provider Bridging
 - Determine practical maximum allowed by 802.3 specifications rather than the current 1522 byte maximum
- Meeting plan (Tue)
 - Seek approval of P802.3as PAR & Five Criteria
 - Review possible draft content

Other Activities

- Power over Ethernet Plus CFI
 - Monday, 6:30 Wyndham, Anacacho
- Congestion Management tutorial
 - Tuesday, 8:00pm, Convention Center, Ballroom C-#1,#2
- Maintenance (Tue), interpretations (Tue), liaison matters, etc.

This Week's Meetings

- Opening WG plenary starts Monday, 1:00pm – Wyndham, Anacacho
- TF and SG meetings, Tues morning through Thurs noon – Wyndham
- Closing WG plenary, Thursday 1:00pm – Convention Center, Ballroom C-#2
- 802.3 Web Site: www.ieee802.org/3

PLENARY

R1

88th Session of the **IEEE 802.11** WG

PLENARY

R1

Wireless Local Area Networks

November 14th-19th, 2004, San Antonio, TX, USA



www.ieee802.org/11

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

Wireless Next Generation SC
Globalization & Harmonization

802.11
Publicity SC

802.11 MAC & Other Activities

802.11 / TGk
Radio Resource Measurement

802.11 / APF SG (AHC)
Access Point Functionality

802.11 / TGm
802.11 Standard Maintenance

802.11 / WIEN SG
Wireless InterWorking with
External Networks

802.11 / ADS SG
Advanced Security

802.11 / WNM SG
Wireless Network Management

MAC
Layer

802.11
MAC

802.11e / TGe
MAC Enhancements - QoS

802.11.1 Recommended Practice
Inter-Access Point Protocol

802.11i Amendment
Enhanced Security Mechanisms

802.11 / TGr
Fast Roaming

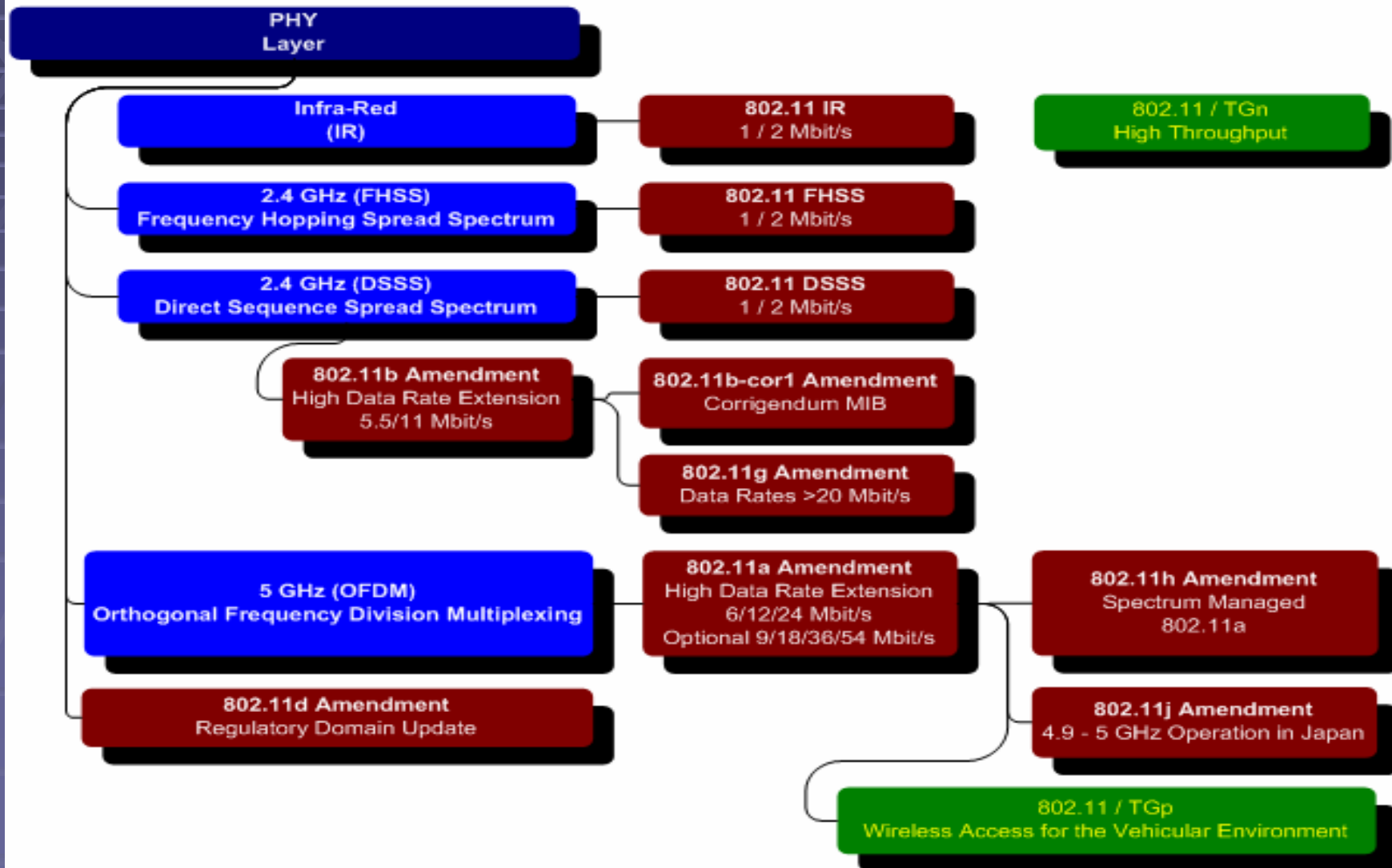
802.11 / TGs
ESS Mesh Networking

802.11.2 / TGT
Wireless Performance Prediction

802.18 TAG
Radio-Regulatory

802.19 TAG
Coexistence

802.11 PHY Activities





IEEE 802.11 WORKING GROUP OFFICERS

Name	Position	Work Phone	eMail
Stuart J. Kerry	IEEE 802.11 WG Chair Philips Semiconductors, Inc., 1109 McKay Drive, M/S 48A SJ, San Jose, CA 95131-1706, USA Fax:+1 (408) 474-5343	+1 (408) 474-7356	stuart.kerry@philips.com
Al Petrick	WG 1st Vice-Chair / Treasurer Policies & Treasury Communications & Reports (Temporary)	+1 (321) 235-3423	apetrick@icefyre.com
Harry R. Worstell	WG 2nd Vice-Chair / WNM SG Chair Attendance, Ballots, Documentation & Voting	+1 (973) 236-6915	hworstell@att.com
Tim Godfrey	WG Secretary Minutes	+1 (913) 664-2544	tim.godfrey@conexant.com
Terry Cole	WG Technical Editor Standard & Amendment(s) Coordination	+1 (512) 602-2454	terry.cole@amd.com
Teik-Kheong "TK" Tan	WNG SC Chair	+1 (408) 474-5193	tktan@ieee.org
John Fakatselis	TGe Chair	+1 (321) 327-6710	john.fakatselis@conexant.com
Duncan Kitchin	TGe Vice-Chair & ANA Lead	+1 (503) 264-2727	duncan.kitchin@intel.com
Sheung Li	TGj Chair	+1 (408) 773-5295	sheung@atheros.com
Richard H. Paine	TGk Chair	+1 (206) 854-8199	richard.h.paine@boeing.com
Bob O'Hara	TGm Chair	+1 (408) 635-2025	bob@airespace.com
Bruce P. Kraemer	TGn Chair	+1 (321) 327-6704	bruce.kraemer@conexant.com
Lee Armstrong	TGp Chair	+1 (617) 244-9203	LRA@tiac.net
Clint Chaplin	TGr Chair	+1 (408) 528-2766	cchaplin@sj.symbol.com
Donald E. Eastlake 3rd	TGs Chair	+1 (508) 786-7554	donald.eastlake@motorola.com
Charles R. Wright	TGt Chair	+1 (978) 268-9202	charles_wright@azimuthsystems.com
Jesse Walker	ADS SG Chair	+1 (503) 712-1849	dstanley@agere.com
Stephen McCann	WIEN SG Chair	+44 (1794) 833341	stephen.mccann@roke.co.uk
Dorothy Stanley	APF AHC Chair	+1 (630) 979-1572	dstanley@agere.com



88th IEEE 802.11 WIRELESS LOCAL AREA NETWORKS SESSION

Hyatt Regency San Antonio, 123 Losoya, San Antonio, TX 78205, USA

PLENARY

November 14th-19th, 2004

R1

The graphic below describes the session of the IEEE P802.11 Working Group

	SUNDAY (14th)	MONDAY (15th)	TUESDAY (16th)	WEDNESDAY (17th)	THURSDAY (18th)	FRIDAY (19th)	
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 TGT TGR TGP TGN WNM SG TGP TGT WNG SC WIEN SG TGM TGS APF AHC TGE TGP			IEEE 802.11 WORKING GROUP	
08:30-09:00						CLOSING PLENARY	
09:00-09:30				Break	Break	Break	Break
09:30-10:00							CLOSING PLENARY
10:00-10:30							(Continued)
10:30-11:00		802 OPENING PLENARY	TGE TGT TGR TGP TGN	IEEE 802.11 WORKING GROUP	TGM TGS TGT TGR TGP	CLOSING PLENARY	
11:00-11:30			MID-SESSION PLENARY				12:00 pm Hard Stop Time
11:30-12:00			Lunch Break	Lunch Break	Lunch Break		
12:00-12:30							
12:30-13:00							
13:00-13:30							
13:30-15:30		IEEE 802.11 WORKING GROUP OPENING PLENARY & JOINT INTER-CHANGE	TGE TGK TGR TGS TGN TGE TGK TGM TGN TGS	TGM TGK TGT TGR TGN		802 EC MEETING	
15:30-16:00	11/15/18/19/20/21 LEADERSHIP MEETING	Break	Break	Break	Break		
16:00-17:00		TGE TGM TGR TGP APF AHC	ADS SG TGK TGR TGS TGN	TGE TGK TGM TGN TGS	ADS SG TGK TGT TGR TGN		
17:00-17:30	NEW MEMBERS ORIENTATION						
17:30-18:00							
18:00-18:30		T1	Dinner Break	T4	Break		
18:30-19:00					Social Evening		
19:00-19:30							
19:30-20:00	802.11 WG CHAIRS ADVISORY COMMITTEE (CAC)	T2	TGE TGM TGR TGP TGT	T5 WNM SG TGK WIEN SG TGS TGN			802.11 WG CHAIRS ADVISORY COMMITTEE (CAC)
20:00-20:30							PREPARATION MEETING
20:30-21:00							
21:00-21:30		T3		T6			
21:30-22:00							
22:00-22:30							

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 & Other Standards Bodies or Alliances 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 Sponsor Ballot comments, generate a new version of the draft
 - Work towards submitting a Recirculation Ballot

TASK GROUP K OBJECTIVES FOR THIS SESSION

802.11 - Radio Resource Measurements

CHAIR - RICHARD PAINE

- Letter Ballot 71 Comment Resolution and Letter Ballot Again

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

- Proposal Presentations
- Panel Discussions
- Technical Presentations
- Down select vote
- Planning for January

TASK GROUP P OBJECTIVES FOR THIS SESSION

802.11 - Wireless Access for the Vehicular Environment

CHAIR - LEE ARMSTRONG

- Prepare 802.11p amendment

TASK GROUP R OBJECTIVES FOR THIS SESSION

802.11 - Fast Roaming

CHAIR - CLINT CHAPLIN

- Take presentations
- Prepare for January meeting

TASK GROUP S OBJECTIVES FOR THIS SESSION

802.11 - ESS Mesh Networking

CHAIR - DONALD EASTLAKE 3RD

- Presentations and Discussions on Functional Requirements and Proposal Evaluation Criteria
- Presentations and Discussions on Submissions that may be referenced by the Call For Proposals
- Presentations and Discussions on Process for Call for Proposals and Selection

TASK GROUP T OBJECTIVES FOR THIS SESSION

802.11 - Wireless Performance Prediction

CHAIR - CHARLES R. WRIGHT

- Elect permanent secretary
- Confirmation of TG editor
- Approve a starter draft document
- Technical presentations:
 - RF test environments, metrics, definitions, applic.performance, device operating environments, device config

PUBLICITY STANDING COMMITTEE OBJECTIVES FOR THIS SESSION

802.11 / 802.15 - Joint Publicity

JOINT CHAIRS - AL PETRICK (Temp) - 802.11 / GREGG RASOR - 802.15

- 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
- Next Generation Requirements for WLANs
- Prepare for IEEE Interim Jan 2005

ADVANCED SECURITY SG OBJECTIVES FOR THIS SESSION

802.11 - ADVANCED SECURITY (ADS) SG

CHAIR - JESSE WALKER

- Develop PAR and 5 Criteria
- Presentations new security mechanisms

WIEN STUDY GROUP OBJECTIVES FOR THIS SESSION

802.11 - Wireless InterWorking with External Networks

CHAIR - STEPHEN MCCANN

- Discussion and creation of requirements and down selection criteria documents for proposed Task Group
- Continued review of documents stated in July 2004 IETF liaison
- Address open issues list

WNM STUDY GROUP OBJECTIVES FOR THIS SESSION

802.11 - Wireless Network Management

CHAIR - HARRY R. WORSTELL

- Review the Draft PAR and 5 Criteria
- ELECT/APPOINT SECRETARY
- GROUP STATUS UPDATE, PREPARATION FOR EXCOM MEETING
- Present Submissions

APF ADHOC GROUP OBJECTIVES FOR THIS SESSION

802.11 - Access Point Functionality

CHAIR - DOROTHY STANLEY

- Develop Access Point Functional Description Submission(s)
- Presentations on AP Functional Descriptions



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

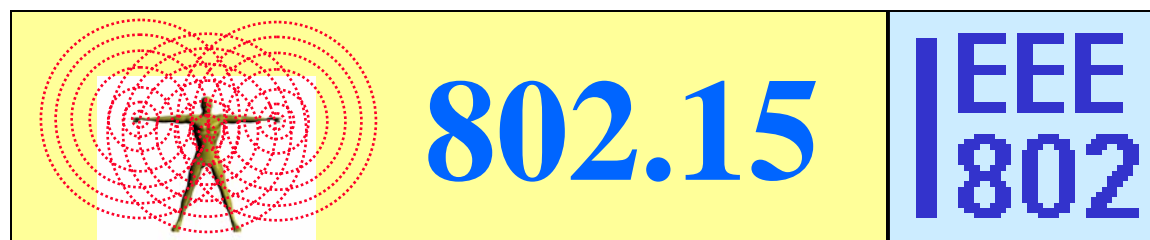
For Year 2004	<i>Interim Sessions to be Allocated if Required</i>	Session	Type
November 14th-19th	Hyatt Regency San Antonio, TX, USA - Session Hotel General Information Only	88	Plenary
	802.11 WG, TGs, SGs & SC Combined Agendas includes the WG Objectives & WG Graphic	XLS Rev.0	
	IEEE 802 Plenary Registration, Hotel & General Information	Information	
For Year 2005	<i>Interim Sessions to be Allocated if Required</i>	Session	Type
January 16th-21st	Hyatt Regency Monterey, Monterey, CA, USA - General Info - Booking TBD	89	Interim*
March 13th-18th	Hyatt Regency Atlanta, GA, USA - General Information - Booking TBD	90	Plenary
May 15th-20th	<i>Sydney, Australia</i> ⁽²⁾ - General Information - Booking TBD	91	Interim*
July 17th-22nd	Hyatt Regency San Francisco, CA, USA - General Information - Booking TBD	92	Plenary
September 18th-23rd	<i>To Be Determined</i> ⁽²⁾	93	Interim*
November 13th-18th	Hyatt Regency Vancouver, BC, Canada - General Information - Booking TBD	94	Plenary
For Year 2006	<i>Interim Sessions to be Allocated if Required</i>	Session	Type
January	<i>To Be Determined</i> ⁽²⁾	95	Interim*
March 12th-17th	Hyatt Regency New Orleans, LA, USA - General Information - Booking TBD	96	Plenary
May	<i>To Be Determined</i> ⁽²⁾	97	Interim*
July 16th-21st	Manchester Grand Hyatt, San Diego, CA, USA - General Info. - Booking TBD	98	Plenary
September	<i>To Be Determined</i> ⁽²⁾	99	Interim*
November 12th-17th	Hyatt Regency Dallas, TX, USA - General Information - Booking TBD	100	Plenary

Archive, Mailing Lists, URL

- **802.11 Web Site:** www.ieee802.org/11/
- **Members Site :** www.802wirelessworld.com
- **Email Reflectors :**
 - **Working Group:** stds-802-11@listsev.ieee.org
 - **Task Group e :** stds-802-11-tge@listsev.ieee.org
 - **Task Group k :** stds-802-11-tgk@listsev.ieee.org
 - **Task Group m :** stds-802-11-tgm@listsev.ieee.org
 - **Task Group n :** stds-802-11-tgn@listsev.ieee.org
 - **Task Group p :** stds-802-11-tgp@listsev.ieee.org
 - **Task Group r :** stds-802-11-tgr@listsev.ieee.org
 - **Task Group s :** stds-802-11-tgs@listsev.ieee.org
 - **Task Group t :** stds-802-11-tgt@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

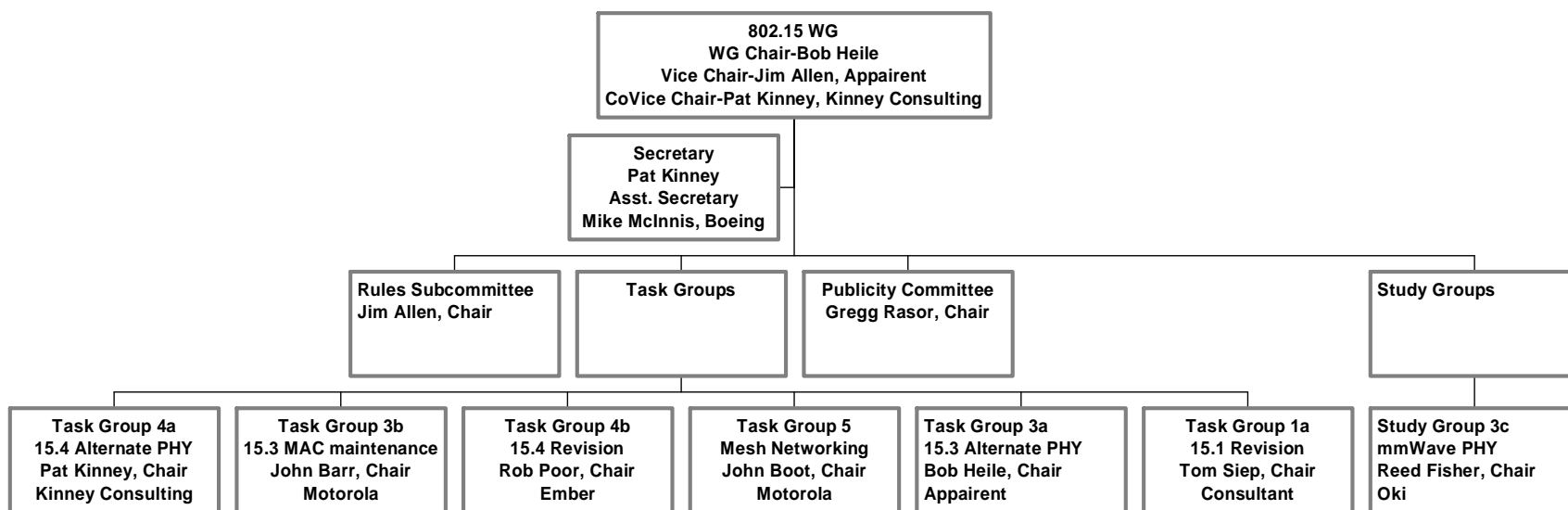


33rd Session of meetings of the IEEE 802.15 Working Group for Wireless Personal Area Networks

November 14-19, 2004

**Hyatt Regency San Antonio
123 Losoya
San Antonio, TX 78205, USA**

802.15 Functional Organization Chart



To add your name to the WG/SG/TG reflectors
please go to www.ieee802.org/15

Objectives of the San Antonio Session November 15-19, 2004

TASK GROUP 1a OBJECTIVES FOR THE MEETING

- 1. Complete Sponsor Ballot Recirc**
- 2. Submit to RevCom for Continuous Approval Process**

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)**

TASK GROUP 3b OBJECTIVES FOR THIS MEETING:

- 1. Organize and evaluate proposed changes to 802.15.3-2003**
- 2. Assign drafting tasks**
- 3. Prepare to go to Letter Ballot**

Objectives of the San Antonio Session November 15-19, 2004

TASK GROUP 4a OBJECTIVES FOR THIS MEETING:

- 1. Hear Preliminary Presentations**
- 2. Complete Channel Model effort**
- 3. Hear final report from Ranging group**
- 4. Revise Criteria Selection Document**

TASK GROUP 4b OBJECTIVES FOR THIS MEETING:

- 1. Discuss, Review, Organize and Edit existing MAC, PHY and Security proposals**
- 2. Prepare Task Group motion for draft approval**
- 3. Prepare Working Group motion for draft approval**

Objectives of the San Antonio Session

November 15-19, 2004

TASK GROUP 5 OBJECTIVES FOR THIS MEETING:

1. Draft Technical Requirements Document

STUDY GROUP 3C OBJECTIVES FOR THIS MEETING

- 1. Hear Responses to CFA**
- 2. Discuss Channel Model**
- 3. Discuss Technical Requirement**
- 4. Complete Work on PAR & 5C**

San Antonio Session Graphic

R2	33rd IEEE 802.15 WPAN MEETING																					
	Hyatt Regency San Antonio, 123 Losoya, San Antonio, TX 78205, USA November 14th-19th, 2004 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												
07:30-08:00																						
08:00-08:30		802 EC MEETING				TG4b	TG3b	TG4a	PC with 802.11	TG3a				SG3c	TG4a	TG4b	SG1b	802.15 WG CLOSING				
08:30-09:00																						
09:00-09:30																						
09:30-10:00																						
10:00-10:30																						
10:30-11:00		Break				Break				Break				Break								
11:00-11:30		802 PLENARY				TG4b	TG3b	TG4a	TG5	802.15 WG MEETING				SG3c	TG4a	TG4b	TG3b	802.15 WG CLOSING				
11:30-12:00		Lunch on Your Own				Lunch on Your Own				Lunch on Your Own				Lunch on Your Own				Lunch on Your Own				
12:30-13:00		802.15 Opening Plenary																				
13:00-13:30		TG3a				TG3a	TG3b	SG3c	TG5	TG3a	TG3b	TG4a	TG4b	TG3a	TG4a	TG4b	TG3b	802 EC MEETING				
13:30-14:00																						
14:00-14:30																						
14:30-15:00																						
15:00-15:30																						
15:30-16:00		Break				Break				Break				Break								
16:00-16:30	11 / 15 / R-REG LEADERSHIP MEETING																					
16:30-17:00		TG3a	TG3b	TG4a	TG4b	TG3a	TG3b	SG3c	TG5	TG3a	TG3b	TG4a	TG4b	TG3a	TG1a	TG4b	TG3b					
17:00-17:30	NEW MEMBERS ORIENTATION																					
17:30-18:00																						
18:00-18:30																						
18:30-19:00	Dinner	Dinner on your own				Tut 1	Dinner on your own				Tut 4	Dinner on your own										
19:00-19:30																						
19:30-20:00																						
20:00-20:30	Optional Meeting Time	Optional Meeting Time				Tut 2		TG4a	TG4b	Tut 5	Social				SG3c		TG4b	TG3b				
20:30-21:00																						
21:00-21:30	802.15 AC MEETING																					
21:30-22:00																						
22:00-22:30																						

LEGEND

- TG1a
- TG3a
- TG3b
- TG4a
- TG4b
- TG5

Task Group 1a Bluetooth Revision Project
 Task Group 3a -High Rate Alt PHY
 Task Group 3b -HIGH RATE MAC maintenance
 Task Group 4a - Low Rate Alternative PHY
 Task Group 4b - 15.4 enhancements
 Task Group 5 - mesh networking

- PC
- TUT
- SEC
- SG3c
- AC
- SG1b

Publicity Committee
 IEEE 802 Tutorials 1, 2, 3 and 4
 802 SPONSOR EXECUTIVE COMMITTEE
 millimeter wave Study Group
 802.15 ADVISORY COMMITTEE
 Study Group 1b 15.1 enhanced rate

Upcoming Meetings

- Plenary-San Antonio, Nov 15-19, 2004
- Interim-Monterey, CA Jan 17-21, 2005
- Plenary-Atlanta, March 13-18, 2005
- Interim-TBD, May 16-20, 2005
- Plenary-SFO, July 17-22, 2005
- Interim-tentative Anaheim, Sept 18-23, 2005

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 November 2004

San Antonio, TX, USA

802.16 Membership

- **137 Members**
- **107 Potential Members**
- **97 Official Observers**
- **Registration for session (by Sunday)**
 - **280 Primary**
 - **177 Secondary**

802.16 Sessions

- #31: 17-20 May 2004
 - Shenzhen, China (228 people)
- #32: 12-15 July 2004
 - Portland, OR, USA (333 people)
- #33: 30 August - 2 September 2004
 - Seoul, Korea (288 people)
- #34: 15-18 November 2004
 - San Antonio, TX, USA [Mainly in Hyatt]
- #35: 24-27 January 2005
 - Sanya, China
- #37 and #39: May and September 2005
 - To be determined this week



현대인터넷(와이브로)의 국제 기술표준을 정하는 IEEE802.16의 표준제정 회의(33차 임시회의)가 지난달 30일 서울 강남 메리어트호텔에서 개최됐다. 내년 초 와이브로 사업자 선정을 앞두고 열린 이 회의에선 국내 기술의 국제표준화 진입을 놓고 삼성전자와 LG전자, 유무선 통신사업자의 경쟁이 치열하게 전개될 전망이다.

14시간 마라톤 회의 '진땀'

IEEE 802.16-2004

- **857 pages**
- **Published on 1 October 2004**
- **Gordon Antonello: Chair, Task Group d**
- **Itzik Kitroser, Technical Editor**
- **Robert Nelson, Assistant Editor**
- **Maintenance PAR 802.16-2004/Cor 1**
 - **approved by 23 September**
 - **Maintenance Task Group meeting this week**
 - **Ken Stanwood: Chair**

Task Group C

- **Gordon Antonello, Vice Chair**
- **Series of conformance standards**
- **Current activity:**
 - **P802.16/Conformance 04 (PICS)**
 - **Ran Call for Comments on Working Document**
 - **Meeting this week to resolve comments**

Task Group e

- **Brian Kiernan: Chair**
- **Ron Murias: Editor**
- **P802.16e PAR modified 23 September**
- **Sponsor Ballot ran to 5 November**
 - **1973 Comments**
 - **~1000 from one person**
 - **Comment resolution this week**

NetMan Task Group

- **Phil Barber, Vice Chair**
- **Two PARs approved 12 August 2004**
- **802.16f: MIB**
 - **WG Letter Ballot in October**
 - **Comment resolution this week**
- **802.16g: Management Plane Procedures and Services**
 - **Call for contributions inputs to consider**

802.16's Study Group on Licensed-Exempt Coexistence

- **Mariana Goldhamer, Chair**
- **Chartered at July Plenary**
- **Submitted PAR P802.16h to 802 EC**
 - Amendment on *Improved Coexistence Mechanisms for License-Exempt Operation*
- **Comments due Tuesday 5pm**

802.16 Officers

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

Resources

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



IEEE 802.17 Resilient Packet Ring

Session # 25

Monday Plenary Start Time

1:30 pm @ Hyatt Regency



Officers of RPRWG



- Chair Mike Takefman
- Vice-Chair John Lemon
- Secretary Vinay Bannai
- Web-Master John Lemon



Past Interims

- October 4-6, 2004
 - Ottawa, Spatially Aware Bridging Study Group
 - PAR & 5C Approved
- October 26, 2004
 - SABSG Teleconference
- Nov 8, 2004
 - SABSG Teleconference



SB Activity



- RevCom approved 802.17a
 - Amendment to 802.1D for support of 802.17



Work This Week

- Maintenance Process for 802.17
- Spatially Aware Bridging Study Group
 - Respond to PAR/5C comments
 - Technical Presentations
- Visit with 802.1
 - Link Sec & Spatially Aware Bridging



802.17 Meeting Schedule



	Mon	Tues	Wed	Thurs
8:30 -12		SABSG 8:30am	SABSG 8:30am	Plenary 8:30am
1-6	Plenary Start 1:30pm		SABSG 802.1	



Proposed Interim Sessions



- December
 - 802.17b Conference Call
- January
 - 802.17b Meeting
 - Location TBD
- February
 - 802.17b Conference Call

802.18 RR-TAG Opening Report

- Report on July 04 Plenary Meeting
- Report on Sept & Oct 04 Interim Meetings
- Objectives for this Meeting
- Announcement regarding 802.22 kickoff

Report on July 04 Plenary Meeting

- Worked on draft comments on the FCC “TV Band” NPRM
- Responded to WG comments on the 802.22 PAR
- Approved 2 docs for ITU-R, secured IEEE-SA approval
 - Document on FWA for WP9B
 - Document was informational, presented to WP9B by Dr. Jose Costa
 - Document of 5 GHz RLAN Sharing Criterion for WP8A
 - Chairman of WP8A asked Carl Stevenson to act as chair of WG7, due the delayed arrival of the normal chair from UK OFCOM
 - Presented the IEEE document justifying a -6 dB I/N as the appropriate protection criteria for 5 GHz RLANs
 - Advanced from a “Working Document Towards a PDNR” to what all administrations present considered a “Mature PDNR” in one meeting
 - Final approval by WP8A expected at next meeting (Apr05), with approval by SG8 expected at the next meeting of SG8 (Dec05)

Report on Sept and Oct. 04 Interim Meetings

- Held interim meetings of 802.18 and SG1 to advance the work on the TV Band NPRM comments
 - Sept 04 Berlin
 - Oct 04 Washington, DC
- Have had conference calls nearly weekly to continue work towards consensus

Planned Objectives for This Meeting

- Finalize comments on the TV band NPRM
 - Must complete, as due date is end of Nov in response to our request for an extension of the comment deadline
 - Nothing else of significance at this time
- 802.22 will have its “kickoff” at this plenary

802.22 starts at this plenary

- There will be 6 meetings of 802.22 this week
 - Tue/Wed/Thu in the “AM1” and “AM2” timeslots
 - (8-10:00am and 10:30am-12:30 pm respectively)
- Plus, a special meeting Thu evening starting at 7:00 pm for election of WG officers
- Must attend at least 75% of the meetings (5 of 6) to gain voting rights
- Nominations will be accepted at the Thu AM2 meeting
- Candidates must have gained voting rights in .22 and meet other criteria of the LMSC P&P

Please consider (active) participation in 802.18!

- **802.18 needs consistent participation from all wireless WGs**
 - Our charter is to provide balanced representation of the interests of all of the wireless WGs before the FCC and other regulatory bodies
 - WG chairs who have not yet done so are encouraged to appoint liaisons to 802.18 *who are able to and will actually attend 802.18 as their primary group*
 - Other members of wireless WGs who can attend 802.18 as their primary group, or at least substantially, are also encouraged to participate
 - Remember ... attendance in 802.18 meetings counts towards maintaining your voting rights in your “home WG”

IEEE 802.19 Wireless Coexistence TAG

November 2004 Opening Report

**Steve Shellhammer
shellhammer@ieee.org**

Plan for the Week

- ✓ EC Comment Resolution on EC letter ballot of proposed 802 P&P changes
- ✓ Make appropriate edits to proposed P&P changes
- Distribute revised text to EC
- EC vote on proposed P&P changes
- Submissions on coexistence assurance (CA) Methodology

Executive Committee Letter Ballot Results

- The executive committee letter ballot on the proposed 802 P&P changes closed on August 20.
- The letter ballot was approved
 - Yes 11
 - No 2
 - Did not vote 3
- $\text{Yes}/(\text{Total Voters}) = 11/16 = 68.75\% > 2/3$
- Detailed summary in document
 - 19-04-0029-00-0000 EC Letter Ballot Results

Revision of Proposed 802 P&P Changes

- The 802.19 TAG Reviewed EC letter ballot comments in September
- The proposed text was modified in Sept
 - 802.19-04/0032r1
- Resolutions to EC Comments
 - 802.19-04/0033r0
- Additional modification based on EC comments at Sunday's Rules Meeting
 - 802.19-04/0032r2
- EC vote on Friday

CA Methodology Submissions

- Interference Testing Presentation
- Proposed text on Coexistence Assurance Simulation Model
- An Analytic Coexistence Assurance Model

Meeting Time This Week

- Tuesday
 - 8 AM – 6 PM
- Wednesday
 - 8 AM – 10 AM
 - 1:30 PM – 6:00 PM
- Room – Bowie R

- <http://ieee802.org/19/pub/download.html>

IEEE SA Patent Policy

- **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.

**802 Opening
November 2004 Plenary
802.20 Session #11**

Jerry Upton- Chair

jerry.upton@ieee.org

Gang Wu – Procedural Vice Chair

Eshwar Pittampalli – Liaison Vice Chair

Logistics

- No Electronic sign-in - - Manual Sign In Books
- 802.20 has 14 meeting slots you need to participate in 11 meeting slots to get participation credit.
- Attendees shall state their Affiliation in the manual sign in book per Appendix B of the 802.0 Version 1.0 Policies & Procedures (802.20 PD-05). This is a requirement for obtaining a voting token.
- 802.20 and 802.21 Grant Reciprocal Maintenance Attendance Credit
- Local website: <http://neptune/mbwa/index.html>
- Meeting Room - - Maverick (Hyatt)

Objectives for the Session

1. Primary Objective is Closure of Evaluation Criteria, Traffic Models, and Channel Models Documents
2. Consensus on Technology Selection Process

802.20 Opening Session Starts at 1:30PM
Maverick Room In Hyatt

IEEE 802.21

Meeting Server Details

Handover Server IP address: 10.0.1.21

Host Name : handover

External website: <http://www.ieee802.org/21>

On site meeting website: <http://10.0.1.21>

On site alternate website name: <http://handover/>

EC Opening Plenary
IEEE 802.21 Session #5
Media Independent Handover Services
San Antonio, Texas

Ajay Rajkumar
ajayrajkumar@lucent.com

Ajay Rajkumar, Chair 802.21

WG Officers

- Chair Ajay Rajkumar
ajayrajkumar@lucent.com
- Vice-Chair Michael Williams
Michael.G.Williams@nokia.com
- Secretary Xiaoyu Liu
xiaoyu.liu@samsung.com
- Editor Vivek G. Gupta
vivek.g.gupta@intel.com

Attendance

- Still sorting out electronic attendance with Ideal
- Currently manual attendance

Agenda Session #5 Summary

- Handover requirements completed
- Issued a Call For Proposals after the Berlin Interim on the following work items:
 - Event/Trigger Service Model
 - MIH Model
 - Information Service
- Initial proposals will presented during the current Plenary
- Discussion/Update on Evaluation Criterion

Session Time and Location

- Location:
- Time:
 - Monday:
 - Afternoon: 2 pm – 6 pm
 - Tuesday to Thursday:
 - Morning: 8 am – 12.30 pm
 - Afternoon: 1.30 pm – 6 pm

Future Sessions

- Interim: January 16th – 21th
 - Monterey, CA. Meeting co-located with 802.11/15/18/19/20/22
- Plenary: March 13th – 18th, Hyatt Regency
 - Atlanta, GA, USA. Co-located with all 802 groups
- Interim: May 15th – 20th
 - TBD, Meeting co-located with 802.11/15/18/19/20/22
- Plenary: July 17th – 22nd, Hyatt Regency
 - San Francisco, CA, USA. Co-located with all 802 groups

IEEE 802.21

Meeting Server Details

Handover Server IP address: 10.0.1.21

Host Name : handover

External website: <http://www.ieee802.org/21>

On site meeting website: <http://10.0.1.21>

On site alternate website name: <http://handover/>

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

The meeting was adjourned at 12:00 noon

5 Respectfully submitted,
Bob O'Hara
Recording Secretary