

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

Monday, November 11, 2002 - 8:00 a.m.

Hyatt Regency – Koloa, Kaua'i, Hawai'i

1. MEETING CALLED TO ORDER

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

- Paul Nikolich - Chair, IEEE 802 LAN / MAN Standards Committee
- Geoff Thompson - Vice Chair, IEEE 802 LAN / MAN Standards Committee
- Mat Sherman - Vice Chair, IEEE 802 LAN / MAN Standards Committee
- 10 Buzz Rigsbee - Executive Secretary, IEEE 802 LAN / MAN Standards Committee
- Bob O'Hara - Recording Secretary, IEEE 802 LAN / MAN Standards Committee
- Bill Quackenbush - Treasurer, IEEE 802 LAN/MAN Standards Committee
- Tony Jeffree - Chair, IEEE 802.1 - HILI Working Group
- Bob Grow - Chair, IEEE 802.3 - CSMA/CD Working Group
- 15 Bob Love - Chair, IEEE 802.5 - Token Ring Working Group
- Stuart Kerry - Chair, IEEE 802.11 - Wireless LANs Working Group
- Bob Heile - Chair, IEEE 802.15 – Wireless PAN Working Group
- Roger Marks - Chair, IEEE 802.16 – Broadband Wireless Access Working Group
- Mike Takefman - Chair, IEEE 802.17 – Resilient Packet Ring Working Group
- 20 Carl Stevenson - Chair, IEEE 802.18 – Regulatory TAG
- Jim Lansford - Chair Coexistence Study Group
- Mark Klerer - Chair, ECSG Wireless WAN Mobility

The meeting was attended by approximately 20 IEEE 802 Working Group members and several IEEE Staff, including Jerry Walker, Yvette Hosang, and Angela Ortiz.

25 Proposed Agenda

1.00		MEETING CALLED TO ORDER	- Nikolich	1	08:00 AM
2.00		APPROVE OR MODIFY AGENDA	- Nikolich	4	08:01 AM
3.00	*	APPROVE / MODIFY MINUTES OF PREVIOUS MEETING	- Nikolich	5	08:05 AM
4.00	II	TREASURER'S REPORT	- Quackenbush	5	08:10 AM
4.01	DT	Meeting Fee increase discussion	- Quackenbush	5	08:15 AM
Category (* = consent agenda)					
SA and Stds Board items				0	
5.00	II	September Stds Board Actions (NesCom and Revcom)	- Nikolich	2	08:15 AM
5.01	II	Stds due for Maintenance and/or revision	- Nikolich	2	08:17 AM
5.02	II	PARS to NesCom	- Nikolich	2	08:19 AM
5.03	II	Drafts to Sponsor Ballot	Nikolich	2	08:21 AM
5.04	II	Drafts to Revcom	Nikolich	2	08:23 AM
5.05	II	IEEE-SA Position Statement policy update	- Nikolich	5	08:25 AM
5.06	II	IEEE-SA Conformance to Drafts policy update	- Nikolich	5	08:30 AM
5.07	II	IEEE-SA/802 Task Force meeting update	- Nikolich	2	08:35 AM
5.08	II	GET802 program update	- Walker	5	08:37 AM
5.09	II	IEEE Trademark policy & Conformance Statements	- Walker	5	08:42 AM
5.10	II	IEEE-SA Standard Editions	- Ho-Sang	2	08:47 AM
5.11	II	P1541 Binary Prefixes Trial Standard Notice	- Frazier	2	08:49 AM
5.12					08:51 AM

LMSC items						08:51 AM
5.13	II	802 enews letter/PR - status update	-	Marks	2	08:51 AM
5.14	II	Tutorial schedule	-	Nikolich	1	08:53 AM
5.15	II	802 Handoff	-	Marks	2	08:54 AM
5.16	II	Link Layer Security CFI--possible ECSG?	-	Grow	2	08:56 AM
5.17	II	10Gbps Twisted Pair CFI--possible 802.3 SG	-	Grow	2	08:58 AM
5.18	MI	LMSC Meeting Fee Waivers	-	Nikolich	2	09:00 AM
5.19	II	802.18 Radio Regulatory TAG Status Update	-	Stevenson	2	09:02 AM
5.20	II	802.19 Coexistence TAG Status Update	-	Lansford	2	09:04 AM
5.21	II	802.11 RRM SG Status Update	-	Kerry	2	09:06 AM
5.22	II	802.11 Enhanced Throughput SG Update	-	Kerry	2	09:08 AM
5.23	II	802.15.3a UWB SG Update	-	Heile	2	09:10 AM
5.24	II	802.16 Mobile SG status update	-	Marks	2	09:12 AM
5.25	II	ECSG on MBWA status update	-	Klerer	2	09:14 AM
5.26	DT	PAR similarities--ECSG on MBWA and 802.16 Mobile	-	Nikolich	5	09:16 AM
5.27	II	802.17 "lite" Study Group		Takefman	2	09:21 AM
5.28	II	Rules Changes status- SEC eballoting	-	Sherman	5	09:23 AM
5.29	II	Rules Changes status- TAG rules update	-	Thompson	5	09:28 AM
5.30	II	Rules Changes status- modifications to address Quorum issue	-	Thompson	5	09:33 AM
5.31	II	Chairs Guidelines status- sharing WG documents update	-	Jeffree	2	09:38 AM
5.32	DT	Potential rules change--delegation of WG ballots to sub-committee?	-	Nikolich	2	09:40 AM
5.33	II	Meeting planner RFP status	-	Quackenbush	2	09:42 AM
5.34	II	Database status	-	Rigsbee	2	09:44 AM
5.35	II	CD-ROM update	-	O'Hara	2	09:46 AM
5.36	DT	March 2003 venue (DFW Hyatt) discussion	-	Rigsbee	5	09:48 AM
5.37	DT	SEC meeting schedule (rules, SA, etc.)	-	Nikolich	5	09:53 AM
		ADJOURN SEC MEETING	-	Nikolich		09:58 AM
6.00	PL	IEEE 802 PLENARY MEETING STARTS	-	Nikolich	60	11:00 AM
6.01	PL	IEEE 802 PLENARY MEETING ENDS				12:00 PM

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

2.00 APPROVE OR MODIFY AGENDA

Moved: Jeffree/Grow

Approved: 11/0/0, passes

- 5 The minutes of the previous meeting were approved on the consent agenda.

3.00	*	APPROVE / MODIFY MINUTES OF PREVIOUS MEETING	-	Nikolich	5	08:05 AM
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4.00	II	TREASURER'S REPORT	-	Quackenbush	5	08:10 AM
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More folks registered for the previous meeting than budgeted, resulting in a net positive influence. Even though more people were present, the food and beverage charges were almost exactly on budget.

5 Significant room block shortfall at the Paramount Hotel started at \$110k penalty. Negotiation by Buzz and Face to Face reduced the penalty to approximately C\$60. There will be two future meetings at the Paramount as a result of this negotiation.

Bill will now include "Worst case hotel cancellation penalties" in his reports. IF these cancellations occur, it would wipe out our reserve, and then some.

10 Bob Grow points out that the IEEE Computer Society and the IEEE can be used to cover these expenses, if necessary. Other standards groups make use of this, though 802 has never taken advantage of this.

There is currently \$125 budgeted for food and beverage per person.

15 **Moved: To increase the food and beverage budget by \$20,000 for this meeting.**
Moved: Bob Grow/Bob Heile

Approved: 6/2/3

20 There is a meeting survey on the web at <http://iee802.org/16/meetings/mtg22/survey.html> asking members for information on their opinion of meeting locations and services.

**IEEE Project 802
Statement of Operations
July, 2002 Plenary Meeting
Vancouver, BC Canada
As of October 31, 2002**

Meeting Income	Actual	Budget
Net Registrations	967	850
619 Registrations @ \$250	154,750	
348 Registrations @ \$300	104,400	
1 Cancellation @ \$25	25	
31 Cancellations @ \$50	1,550	
0 Other @	0	
Registraion Subtotal	260,725	216,750
0 Deadbeat Payment @ \$300	0	0
Interest	148	150
Other	765	375
TOTAL Meeting Income	261,638	217,275
Meeting Expenses	Actual	Budget
Audio Visual Rentals	10,991	9,000
Audit	0	0
Bank Charges	245	35
Copying	845	6,000
Credit Card Discounts & Fees	6,925	6,069
Equipment Expenses	5,174	8,000
Get IEEE 802 Contriubution	71,400	63,750
Insurance	770	0
Meeting Administration	53,636	53,250
Networking	4,114	10,000
Phone & Electrical	603	2,000
Refreshments	35,928	35,700
Shipping	2,485	3,000
Social	23,220	31,450
Supplies	643	0
Other	3,717	500
TOTAL Meeting Expense	220,696	228,754
NET Meeting Income/Expense	40,942	(11,479)
Expenses from prior meetings	5,265	
Reserve for outstanding commitments	7,000	
Expenses prepaid for current meeting	9,200	
Nov, 2002 Operating Reserve	164,846	
Worst Case Hotel Cancellation Penalties	128,633	

LMSC Budget

	2002				2003				
	St. Louis	Vancouver	Kauai		Vancouver	Dallas (DFW)	San Francisco	Albuquerque	
Registrations	972	952	800		200	950	950	875	
Preregistration fee	250	250	250		275	300	300	300	
On-site registration fee	300	300	300		325	350	350	350	
Average Fee	264	274	260		285	310	310	310	
Subtotal	257,000	260,725	208,000	725,725	57,000	294,500	294,500	271,250	860,250
Bank Interest	149	148	150	448	0	150	150	150	450
Other	300	765	375	1,440	0	375	375	375	1,125
TOTAL Income	257,449	261,638	208,525	727,613	57,000	295,025	295,025	271,775	861,825
Meeting Expenses:	March	July	Nov	2002	January	March	July	Nov	2003
Audio Visual Rentals	10,508	10,991	10,000	31,499	5,000	10,000	10,000	10,000	30,000
Audit	5,454	0	0	5,454		4,400			4,400
Bank Charges	162	245	230	637	30	230	230	230	690
Copying	4,194	845	6,000	11,038	500	5,500	5,500	5,500	16,500
Credit Card Discounts	6,703	6,925	5,824	19,452	1,710	8,246	8,246	7,595	24,087
Equipment Purchase/Repair	0	6,000	5,000	11,000	0	9,000	9,000	9,000	27,000
IPF/Escrow/Free 802 Stds	72,900	71,400	60,000	204,300	0	71,250	71,250	65,625	208,125
Insurance	1,944	770	0	2,714	0	3,000	0	0	3,000
Meeting Planners	54,670	53,636	49,680	157,986	18,120	63,213	63,213	59,406	185,831
Network	7,478	4,114	10,000	21,591	2,000	10,000	10,000	10,000	30,000
Phone & Electrical	1,110	603	2,000	3,713	2,000	2,100	2,100	2,100	6,300
Refreshments	62,566	35,928	55,839	154,333	20,000	70,356	71,435	60,651	202,442
Shipping	1,966	2,485	2,485	6,935	1,500	3,100	3,700	3,700	10,500
Social	30,288	23,220	41,000	94,508		33,250	38,000	30,625	101,875
Supplies	17	643	643	1,302	100	643	643	643	1,928
Other	207	3,717	3,000	6,924	500	500	500	2,000	3,000
TOTAL Meeting Expense	260,165	221,522	251,700	733,387	51,460	294,788	293,816	267,075	855,679
NET to Operating Reserve	(2,716)	40,116	(43,175)	(5,774)	0	237	1,209	4,700	6,146
Opening Reserve	152,741	150,025	190,141		146,966	146,966	147,203	148,412	
Projected Closing Reserve	150,025	190,141	146,966		146,966	147,203	148,412	153,112	
Projected Closing Cash	148,025	188,141	144,966			145,203	146,412	151,112	
Meeting Contracts Liability					17,433	111,200	107,400	45,150	

4.01 DT Meeting Fee increase discussion - Quackenbush 5 08:15 AM

The budget shown in the treasurer's report includes increases in meeting fees increasing to \$300/\$350 for the meetings beginning in 2003.

5

SA and Stds Board items

0

5.00 II September Stds Board Actions (NesCom and Revcom) - Nikolich 2 08:15 AM

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

ECSG
MBWA
Mark Klerer

APPOINTED OFFICERS

1st VICE CHAIR
Geoff Thompson

2nd VICE CHAIR
Mat Sherman

EXECUTIVE SECY
Buzz Rigsbee

RECORDING SECY
Bob O'Hara

TREASURER
Bill
Quackenbush

HIBERNATION

802.2 LLC (Dave Carlson)

802.5 Token Ring (Bob Love)

802.4 Token Bus (Paul Eastman)

802.6 DQDB (Jim Mollenauer)

802.7 Broadband TAG (P Nikolich)

802.9 ISLAN (D. Vaman)

802.10 Security (Ken Alonge)

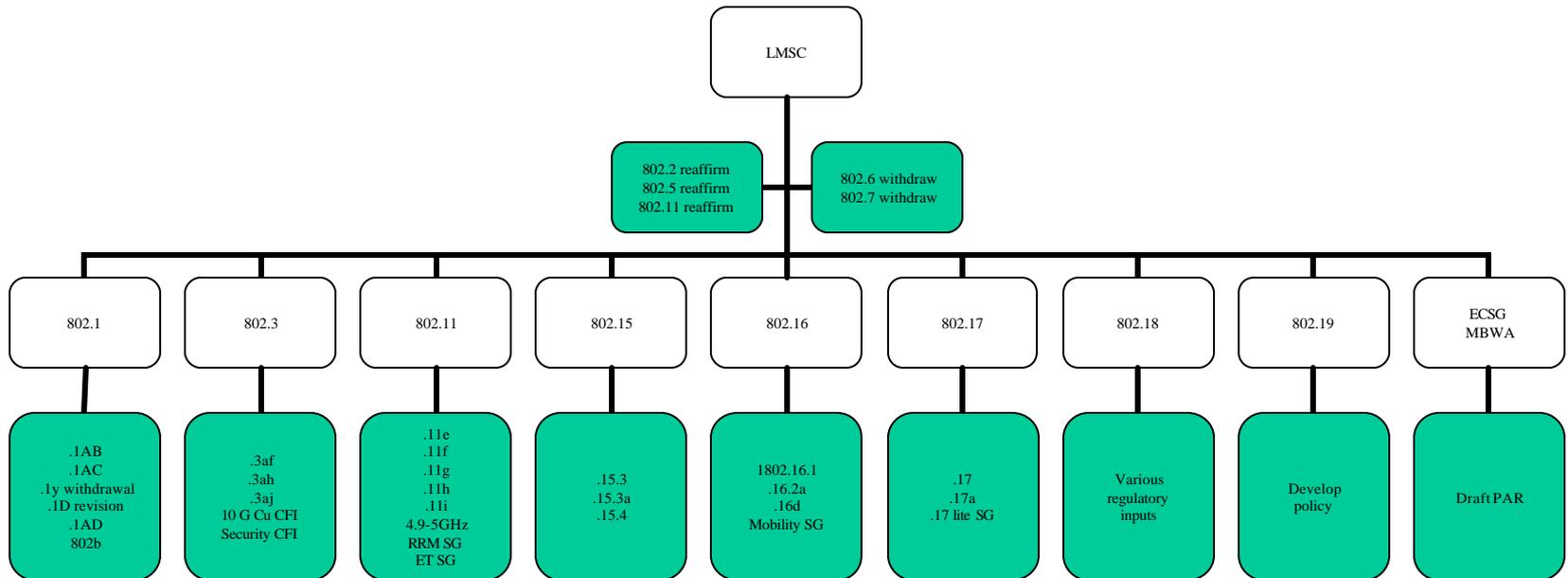
802.12 Demand Priority (Pat Thaler)

DISBANDED

802.8 Fiber Optic TAG (C. Benson)

802.14 CATV (Robert Russell)

>35 projects and activities



Stds Board Actions

July 2002 NESCOM approved

P1802.16.1 (C/LM) Standard for Conformance to IEEE Standard 802.16 - Part 1: Protocol Implementation Conformance Statement (PICS) Proforma for 10-66 GHz WirelessMAN-SC Air Interface

P802.16.2a (C/LM and MTT) Local and Metropolitan Area Networks - Amendment to Recommended Practice for Coexistence of Fixed Broadband Wireless Access Systems (Revised PAR)

Sept Stds Board

NESCOM approved:

P802.1ab Discovery Protocol

P802.1ac MAC Service

REVCOM approved (no 802 STDS on agenda)

Oct NESCOM approved (no 802 STDS on agenda)

Paul asked why 802.11 is needing to be reaffirmed. Stuart and Yvette answered that the rules require that a standard that has more than two amendments in two years must be reaffirmed. Yvette will cover it again in her item on the agenda.

5

Standards Due for Reaffirmation or Withdrawal

REAFFIRM:

Std. 802.11-1999 Reaffirmation: Wireless LAN Medium Access Control (MAC) and Physical Layer (PHY) specifications

802.2-1989 (R1997) Logical Link Control

[also 802.2a-1993 (R1997) + 802.2b-1993 (R1997) + 802.2c-1997 + 802.2d-1993(R1997) + 802.2e-1993 (R1997) + 802.2f-1997 + 802.2h-1997]

WITHDRAW:

802.5-1997 Token Ring Access Method and Physical Layer Specifications [also 802.5j-1997 + 802.5r-1997 + 802.5t-2000 + 802.5v-2001 + 802.5w-2000]

(I believe this was replaced by 8802-5 Third edition, 1998 and Third edition 1998 Amendment 1 Fiber Optic Media 1998)

WITHDRAW:

802.6-1990 (R1997) Distributed Queue Dual Bus (DQDB) Subnetwork of a Metropolitan Area Network (MAN) [also 802.6d-1993 (R1997) + 802.6f-1993 (R1997) + 802.6j-1995 (R1997)]

WITHDRAW:

802.7-1989 (R1997) IEEE Recommended Practice: Broadband Local Area Networks 4

5 A point was made that it is not clear that the drafts of the PARs to be reviewed at this meeting that have been distributed are current. Given the huge number of PARs at this meeting, it is imperative that the current material be in the hands of the working groups for review.

PARs to NesCom

- 802.1
 - .1D revision
 - .1ad MAC service Revision
 - 802b OID registration
- 802.11
 - .11j 4.9-5GHz in Japan
 - .11k Radio Resource Measurement
- 802.15
 - .15.3a higher rate PHY for .15.3 Amendment
 - .15.4 Revision
- 802.16
 - 1802.16.2 Test Suite Structure and Test Purposes
 - .16d System Profiles Amendment
 - .16e Mobility Amendment
- 802.17
 - 802.1D Amendmant
- ECSG MBWA
 - Mobile Broadband Wireless Project

Drafts to Sponsor Ballot

- Dot1
 - 802a Ethertypes for prototype and vendor-specific protocol development
 - 802.1aa Port Based Access corrections
- Dot3
 - 802.3 af DTE Power
- Dot11
 - 802.11e QoS Enhancement
 - 802.11f Inter Access Point Protocol
 - 802.11g Higher Rate 2.4 GHz PHY
 - 802.11h Spectrum Management of 802.11a
 - 802.11i MAC Security Enhancements
 - 802.11 Reaffirmation
- Dot15
 - 802.15.2 Coexistence
 - 802.15.3 High Rate
 - 802.15.4 Low Rate
- Dot16
 - 802.16.2a Fixed Wireless Coexistence Amendment

Drafts to Revcom

- Dot1
 - 802.1s Multiple Spanning Trees
- Dot3
 - 802.3aj Revision Maintenance #7
- Dot16
 - 802.16a 2-11 GHz licensed & unlicensed bands
 - 802.16c Profiles

5.05 II IEEE-SA Position Statement policy update - Nikolich 5 08:25 AM

5.06 II IEEE-SA Conformance to Drafts policy update - Nikolich 5 08:30 AM

5

There is some concern expressed that the SEC may be required to find claims are “deceptive”. Geoff will lead a discussion of this issue Tuesday at 10:00am in the Board Room.

5.07 II IEEE-SA/802 Task Force meeting update - Nikolich 2 08:35 AM

SA Position Policy Statement

- SA drafting rules change to require Sponsors get authorization for ‘policy statements’
- Chair working with SA to minimize impact to 802 (especially 802.18)

SA Position Statement Discussion

- Current rule under revision
 - Approval by BoG or Standards Board?
 - Nikolich in discussion with Carlo/Johnson

5.1.4 Position statements on standards to legislative bodies, government agencies, and international organizations

As stated in the [IEEE Policy and Procedures](#), the Institute recognizes the need for public statements on topics within the scope and purposes of the IEEE. Each IEEE Standards Sponsor shall have policies and procedures in place concerning the creation and handling of position statements on standards prior to sending any such statements to any governmental body or international standards organization. These procedures should state a means for determining a Sponsor position and a methodology for presentation of position statements. These procedures shall also conform to the IEEE-SA procedures as administrated by the IEEE-SA Board of Governors (BOG) and stated in [subclause 6.5](#) of the *IEEE Standards Association Operations Manual*.

Each position statement shall clearly state the group forming this position in its opening paragraph. The IEEE-SA Standards Board shall include a cover letter with each position statement at the time such statements are forwarded to the IEEE-SA BOG. This cover letter shall include, at a minimum, the intended recipient of the position statement; the time sensitivity of the position statement; and why the position statement is needed.

Electronic copies of all position statements shall be sent to the [Secretary of the IEEE-SA Standards Board](#) and the [Secretary of the IEEE-SA BOG](#), who shall forward such statements to the IEEE-SA BOG for appropriate action. A [consolidated listing](#) of all such position statements shall be maintained on the IEEE Standards website. The rules in [Section 15](#) of the IEEE Policy and Procedures shall be followed in developing Sponsor procedures.

If the Sponsor wants to create an entity position statement on standards that represents the viewpoint of the IEEE Standards Association, the [rules](#) in the [IEEE Standards Association Operations Manual](#) shall be followed. If the Sponsor wishes to go to another IEEE entity (as defined in Section 15 of the *IEEE Policy and Procedures*) to have that entity offer a position statement on a standards matter, they shall do so after agreement from the IEEE-SA BOG.

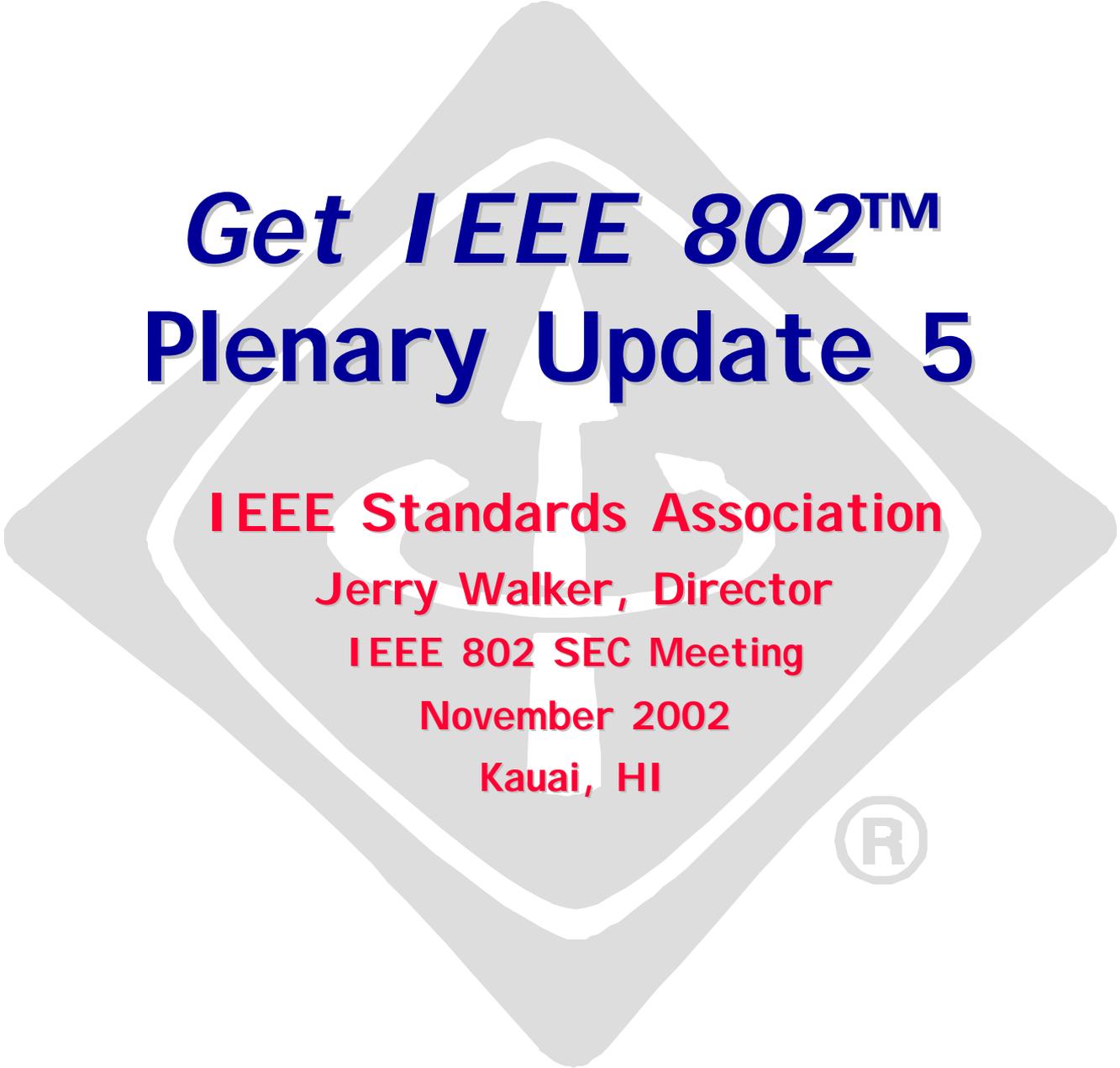
SA Conformance to Drafts Policy

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

IEEE-SA/802 Task Force

- Face to Face meeting held Sept 11 at Stds Bd mtg
 - Topics:
 - Trademarks and Compliance policy
 - Get IEEE 802 program
 - Claims of Conformance to Drafts
 - Standards Editions
 - Participants:
 - 802- Paul, Geoff, Howard,
 - BoG- Ben Johnson, Jim Carlo
 - SA Staff- Karen Rupp, Angela Ortiz, Jennifer Longman, Judy Gorman, Sue Vogel, Jerry Walker, Pam Deese (legal)
- Phone conference held in October
 - Discussed Get IEEE 802 budget

Paul has set up a meeting at 10:00am on Wednesday in the Board room to discuss the budget for the Get IEEE 802 program.

The background features a large, light gray watermark of the IEEE Standards Association logo, which is a diamond shape containing a stylized figure of a person with arms raised, holding a torch. The text is overlaid on this watermark.

Get IEEE 802™
Plenary Update 5

IEEE Standards Association

Jerry Walker, Director

IEEE 802 SEC Meeting

November 2002

Kauai, HI



Download Activity (3 Nov 02)

PDF file	Year 1	Year 2	2,001	2002 YTD	Grand
	Totals	Totals	Totals	Totals	Totals
802.11b-1999.pdf	65,470	19317	30,309	54,478	84,787
802-1990.pdf	48,989	11	43,971	5,029	49,000
802-2001.pdf	43,972	2952	43,972	2,952	46,924
802.11-1999.pdf	39,302	23480	29,093	33,689	62,782
802.11a-1999.pdf	38,198	12898	28,732	22,364	51,096
802.3-2000.pdf	31,737	7316	26,424	12,629	39,053
802.1Q-1998.pdf	30,911	7063	23,744	14,230	37,974
802.11b-1999_Cor1-2001.pdf	30,310	3770	30,310	3,770	34,080
802.1D-1998.pdf	24,485	6891	18,783	12,593	31,376
802.2-1998.pdf	24,285	5252	19,045	10,492	29,537
802.1B-1995.pdf	20,396	2777	16,206	6,967	23,173
802.3-2000_part1.pdf	20,394	2	16,288	4,108	20,396
802.1H-1997.pdf	18,851	1485	15,356	4,980	20,336
802.7-1989.pdf	18,045	2147	14,314	5,878	20,192
802.1F-1993.pdf	17,482	1383	14,402	4,463	18,865
802.10-1998.pdf	16,890	2163	13,260	5,793	19,053
802.1E-1994.pdf	16,558	1509	13,519	4,548	18,067
802.1G-1998.pdf	16,230	1534	13,235	4,529	17,764
802.10a-1999.pdf	16,216	1329	12,996	4,549	17,545
802.10c-1998.pdf	13,810	1382	11,115	4,077	15,192
802.3-2000_part2.pdf	12,141	0	9,638	2,503	12,141
802.5-1998.pdf	12,127	1521	9,971	3,677	13,648
802.3-2000_part3.pdf	11,967	1	9,472	2,496	11,968
802.12-1998.pdf	11,952	1218	9,706	3,464	13,170
802.3-2000_part5.pdf	11,244	0	9,037	2,207	11,244
802.3-2000_part4.pdf	11,067	0	8,836	2,231	11,067
1802.3-1991.pdf	10,806	2	10,801	7	10,808
802.6j-1995.pdf	10,625	886	8,882	2,629	11,511
802.6-1994.pdf	10,548	1234	8,790	2,992	11,782
802.5t-2000.pdf	10,293	645	8,656	2,282	10,938
802.4h-1997.pdf	10,216	2	9,807	411	10,218
802.4-1990.pdf	10,161	32	9,526	667	10,193
802.5c-1991.pdf	9,871	610	8,300	2,181	10,481
802.5r_and_802.5j-1998.pdf	9,797	667	8,236	2,228	10,464
802.3-2002.pdf	9,038	6478	9,038	6,478	15,516
1802.3d-1993.pdf	8,901	211	8,893	219	9,112
802.5v-2001.pdf	8,657	489	8,657	489	9,146
802.11d-2001.pdf	5,713	6946	-	12,659	12,659
802.1X-2001.pdf	4,461	6867	-	11,328	11,328
Total downloads	757,398	159,714	591,323	325,789	917,112

Going Forward

- Mechanize PDF transfers per scheduler
- Accept 2003 program budget
- User type I D via popup check box
- Voluntary Opt In for IEEE 802 info
- Solicitation for Corporate Sponsors

GET IEEE
802

TM



5.09 II IEEE Trademark policy & Conformance Statements - Walker 5 08:42 AM

Jerry said the trademark usage policy was changed. The affected PDF files have been modified, and printed copies have been slip sheeted.

5

5.10 II IEEE-SA Standard Editions - Ho-Sang 2 08:47 AM

Paul has set up a meeting at 9:00am on Wednesday in the Board Room to discuss this procedure.



11 November 2002

Yvette Ho Sang

Manager, Standards Publishing Programs

Contents

- What is an Edition?
- Pros and Cons
- What the Rules Say
- Impact of *Get IEEE 802™* Agreement
- Established Practice for Editions

What is an Edition?

- A document that compiles a base standard and all its existing amendments and corrigenda
 - Not balloted
 - Does not supersede the base and amendments in the consensus process
 - Replaces the base, amendments, and corrigenda in inventory

Pros and Cons

- ✓ Simplifies the standard
- ✓ Easier document to ballot (reaffirmation, revision, or amendment)
- ✓ Facilitates international adoption
- x More expensive for those who had already bought the base and previously published amendments
- x Costly to produce
- x Takes longer to publish
- x Final amendment is never published as a separate document
- x Some confusion with a revision

What the Rules Say

- **Policy for amendments outlined in 8.1.2 of the IEEE-SA Standards Board Operations Manual**

What the Rules Say

- A standard is allowed an unlimited number of amendments up to two years beyond the PAR approval
- If a standard has more than two amendments at two years beyond PAR approval, then the standard shall be revised or reaffirmed
- At any time beyond two years, if a standard has more than two amendments, it shall be revised or reaffirmed

NOTE--RevCom can deny the approval of additional amendments if the requirements are not met

Impact of *Get IEEE 802*

Documents in the Program

All current IEEE 802 standards will be available through the program subject to the provisions enumerated below. All documents available in the *Get IEEE 802* program will remain in the program until they are replaced in the program by a superceding document or are withdrawn.

- Recognize that the Editions are important to working group standard development
- However, evident that Editions are no longer a viable source of revenue if amendments are not of significant value or are not demanded immediately by the market

Established Practice for Editions

- Publish stand-alone amendments as they are approved, and according to publishing targets
- Prepare consolidated draft of standards (i.e., Editions), for use by the working group and for revision ballots, on a case-by-case basis, and at a slower pace

5.11 II P1541 Binary Prefixes Trial Standard Notice - Frazier 2 08:49 AM

5 At the September meeting of RevCom, SCC14 forwarded a standard for approval to require the usage of “kibi/mibi” as part of metric compliance. The Standards Board has two alternatives, approve the standard for trial use, or require the formation of a representative sponsor ballot group to re-ballot the document.

5.12 08:51 AM

LMSC items

5.13 II 802 enews letter/PR - status update - Marks 2 08:51 AM

10 Roger described the process and success of the electronic PR from the previous meeting. Roger showed the web site he has developed with the draft material that has been received to date. Roger asked that input be provided to him by Monday, the 18th. Some concern was expressed about the preliminary material being available on the web before final approval.

5.14 II Tutorial schedule - Nikolich 1 08:53 AM

15 Bob Heile volunteers to use the open session at the Hyatt on Tuesday to host a discussion of the overlap of the two proposed PARs for metropolitan area network mobility.

20 A discussion of the scheduling of overlapping tutorials pointed out the difficulty of attending sessions in two different hotels and covering topics of interest that are scheduled at the same time. Mat Sherman will chair a discussion on this topic Wednesday 8:00am in the Board Room.

Tutorial Schedule

	Hyatt	Hyatt	Sheraton	Sheraton
	Monday	Tuesday	Monday	Tuesday
1	802 Handoff	802 Handoff CFI	10G Cu	10GB-CX4 CFI
2	802 Handoff	Open	10GB-T CFI	Security CFI

Potential Rules Change

- Deligation of WG ballots to sub-committee within WG?
 - Base 802 rule on the IEEE-SA Rules:
 - **5.4.2 Delegation of authority**

Sponsors may, by at least 75% approval either by written ballot received from 75% of the voting members of the Sponsor or by a recorded vote of at least 75% approval at a meeting at which at least 75% of the voting members of the Sponsor participate, delegate the balloting to a subordinate committee of at least 10 members when one of the following conditions apply:

 - a) The membership of the Sponsor is too large to assure the required 75% return of ballots.
 - b) The subject of the standards project is highly specialized or of limited interest so that the number of unreturned ballots may cause difficulty in obtaining the 75% return required for an effective ballot.
 - c) The requirements cannot otherwise be met.
 - This delegation may be a one-time delegation or it may permanently transfer the responsibility to a formally constituted subordinate committee of the Sponsor. When balloting authority is delegated to a subordinate committee, that committee shall meet the membership requirements detailed in 5.4.1.
 - A record of the action to delegate the balloting authority shall be forwarded to the IEEE-SA Standards Board along with the makeup of the balloting body and its balance as described in 5.4.1.

802 Handoff Tutorial & CFI

- *"Handoff Mechanisms and their Role in IEEE 802 Wireless Standards"*
 - Tutorial: Monday 6:30-9:30 pm
 - Sponsored by 802.11, 802.15, 802.16
 - Organized by Marks & Kiernan (802.16)
 - Call for Interest: Tuesday 7:00-7:45 pm
- Issue: a single 802 handoff interface to allow handoff among mixed 802 networks as well to and from non-802 systems.
- Seven excellent speakers
 - IETF; T1P1 (3GPP); 802.11; etc.

5.16 II **Link Layer Security CFI--possible ECSG?** - Grow 2 08:56 AM

It is expected that the CFI will result in a request to form an executive committee study group.

802.3 Calls For Interest

- 10GBASE-T (Mon. 8:00 Brad Booth)
 - Proposal for new 10 GbE PHY
 - Operation over twisted pair copper cable
- 10GBASE-CX4 (Tue. 6:30 Dan Dove)
 - Proposal for new 10 GbE PHY
 - Extend XAUI over coaxial copper cable
- Link Security (Tue. 8:00 Dolores Sala)
 - Provide consistent architecture for 802 LAN data protection

5.18 MI LMSC Meeting Fee Waivers - Nikolich 2 09:00 AM

Moved: To waive meeting fess for the IEEE staff (Jerry Walker, Angel Ortiz, Yvette Ho-Sang) and for Charlie Perkins (speaker at 802 handoff tutorial).

5 Moved: Buzz/Bill
Approved: 11/0/0

5.19 II 802.18 Radio Regulatory TAG Status Update - Stevenson 2 09:02 AM

Significant Pending Regulatory Issues

- ET Docket No. 02-312
 - Biennial review of FCC rules under OET ... including Part 15
 - Opportunity to eliminate unnecessary, burdensome rules
- Australia/New Zealand Consultation
 - Potential impact on 802.11g ... needs review and response as appropriate
- WT Docket No. 02-146
 - NPRM on millimeter bands at 71-76 GHz, 81-86 GHz, and 92-95 GHz
 - 71-76 GHz and 81-86 GHz would be licensed, but with flexible rules
 - 92-95 GHz would be unlicensed
 - Seeks input on bandplans and a variety of other regulatory and technical issues
- DFS and the US Radar Community
 - US radar community wants *very* low DFS threshold to “protect” radars
 - Could impact WRC-03 Agenda Item 1.5 (globally harmonized allocation)
 - US industry representatives still trying to work out acceptable solution with NTIA
 - Potential (possibly major) impact on 802.11a

IEEE 802 Wireless Coexistence Study Group

Summary of Activities

- **Internal**
 - **Coexistence statement with 802.15 SG3a on PAR & 5 Criteria**
 - **Visited two SG3a companies to discuss their plans to address coexistence**
 - **Joint session with SG3a on Tuesday 8-10AM**
- **External**
 - **Two meetings with TIA-41**
 - **Engaged with one company to work with IEEE on cordless phone coexistence**
 - **WECA (WFA) board looking to endorse coexistence solution; lobbied for 802.15.2**
 - **Presentation by IEEE 1073 (Medical Device Communication)/ EMBS on coexistence issues in medical environments**
 - **Gave presentation at Medical Technology Conference on IEEE efforts to improve coexistence between unlicensed band devices**
 - **Contacted Steve Berger to coordinate with EMC**
- **Administrative**
 - **Web site not up – will try to remedy this week**

5.21 II 802.11 RRM SG Status Update - Kerry 2 09:06 AM

Stuart Kerry described the RRM study group, that produced the 802.11k PAR proposal.

5.22 II 802.11 Enhanced Throughput SG Update - Kerry 2 09:08 AM

5

Stuart Kerry described the High Throughput SG and indicated that an extension of this study group would be requested.

5.23 II 802.15.3a UWB SG Update - Heile 2 09:10 AM

Bob Heile described that the study group would be requesting extension at the end of the week.

10

5.24 II 802.16 Mobile SG status update - Marks 2 09:12 AM

802.16 Mobile Wireless MAN SG

Report to SEC, 11 November 2002

- Chair: Brian Kiernan
- Proposed PAR 802.16e:
 - Physical Layer and Medium Access Control Modifications for Mobile Operation in Licensed Bands below 6 GHz
- Enhance 802.16a for fixed/mobile use
 - New regulatory allocations, esp. in U.S.
- Open Call for Comments issued
- PAR will evolve this week

PAR Scope

To amend the 802.16 standard with the needed capabilities to support combined fixed and mobile operation within a single system. The mobile operation will support vehicular speeds up to 250 km/hour. The extension will address PHY and MAC changes to support mobile subscriber operation and roaming between 802.16 base-stations or their sectors. This amendment will allow high spectral efficiency (3-4 bit/s/Hz), macrocell sizes and NLOS operation in licensed bands below 6 GHz.

Response to Call for Comments

"expertise for the wide area broadband 3G systems supporting all mobile speeds in licensed bands has historically been in the 3GPP and 3GPP2 arena. When issues affecting non-wide area broadband systems have arisen, many individuals in these bodies point to the expertise and excellence of the IEEE standards groups... it would seem that consideration should be given to not unnecessarily duplicating efforts or creating competitive fora."

–Mark Epstein

Response to Call for Comments

- "We understand that IEEE 802 is, very appropriately, concerned that standardization projects be based in market requirements. So, we assure you that many of WCA's members are looking forward with keen interest to deploying fixed/mobile broadband wireless metropolitan area networks, and would be very interested in the future output of the IEEE 802.16e project." (see IEEE 802.16sgm-02/26)
 - Andrew Kreig, President, Wireless Communications Association International

Response to Call for Comments

- "This PAR describes mobility extensions to 802.16\ a baseline. It is important to emphasize that this extension will retain the high rate services capabilities of the base line standard, which, when combined with high channel widths, make a big differentiation to other groups with similar scope."
 - Itzik Kitroser (802.16 Member)

MBWA

Executive Committee Study Group

Status Report

11 November 2002

Mark Klerer

Chair- MBWA ECSG



Developments since July Meeting

- PAR and Five Criteria approved at September interim meeting
- PAR and Five Criteria submitted to SEC for approval at November meeting
- Conditional submittal of PAR and Five Criteria to NesCom
- Issues raised since submittal of the PAR
 - Subsequent submittal of 802.16e PAR raises issue concerning unique identity of the two PARs
 - Issue has been raised on the SEC mailing list whether these PARs conflict with work ongoing in 3GPP and/or 3GPP2
 - Comments from Executive Board members to be resolved

The MBWA PAR Scope

Develop a specification for the PHY and MAC layers of an air interface for interoperable packet-data mobile broadband wireless access systems that:

- operates in licensed frequency bands below 3.5 GHz,
- supports peak data rates per user in excess of 1 Mbps,
- supports vehicular mobility classes up to 250 Km/h,
- covers cell sizes commensurate with ubiquitous metropolitan-area networks, and
- targets spectral efficiencies, sustained user data rates and numbers of active users significantly higher than achieved by existing mobile systems.



MBWA Purpose

- Enable worldwide deployment of cost effective , spectrum efficient, always on and interoperable mobile broadband wireless access systems in order to address user needs for:
 - Mobile and ubiquitous Internet access
 - Transparent support of Internet applications
 - Access to enterprise intranet services
 - Transparent access to Infotainment and Location services
- This specification will fill the performance gap between the high data-rate WLANs currently developed in 802 and the high mobility cellular networks



MBWA Solution Characteristics

Characteristic	Value
Mobility	up to 250 km/hr
Sustained spectral efficiency	> 1 b/s/Hz/cell
Peak user data rate (Downlink (DL))	> 1 Mbps*
Peak user data rate (Uplink (UL))	> 300 Kbps*
Peak aggregate data rate per cell (DL)	> 4 Mbps*
Peak aggregate data rate per cell (UL)	> 800 Kbps*
Airlink MAC frame RTT	<10 ms
Bandwidth	e.g., 1.25 MHz, 5 MHz
Spectrum (Maximum operating frequency)	< 3.5 GHz

MBWA Draft Project Development Timeline

- **First Meeting of MBWA WG** **Jan 13-17, 2003**
- **WG Letter Ballot** **Nov 21 – Dec 30, 2003**
- **LMSC Sponsor Ballot** **May 26 – July 7 2004**
- **Sponsor Confirmation Ballot** **Aug 11 – 26, 2004**
- **Submission to RevCom** **October 31, 2004**
- **IEEE-SA Approval** **December 10, 2004**



5.26 DT PAR similarities--ECSG on MBWA and 802.16 Mobile - Nikolich 5 09:16 AM

Discussion of the scheduling problems of the tutorials and the CFIs resulted in a proposal that the discussion of the MAN mobility issues be scheduled from 6-7pm.

5

Moved: That the comment period on the 802.16e and MBWA PARs be extended to noon on Wednesday and the response period extended to noon on Thursday.

Moved: Roger Marks/

Approved: 12/0/0

10

5.27 II 802.17 "lite" Study Group Takefman 2 09:21 AM

802.17 Status Update

Mike Takefman
Steven Wood

PAR For 802.17a

- ❑ Amendment to 802.1D to add support for 802.17
- ❑ PAR was distributed to SEC members 30 days ago
- ❑ Comments should be directed to 802.17 WG
- ❑ Intent is to ask for PAR approval at SEC closing
Mtg this week

CFI: 802.17 "Lite"

- ❑ CFI to gauge interest in creating a SG within 802.17
- ❑ Define a simplified subset of 802.17 procedures that would cover X.MSR (ITU-SG17) requirements
- ❑ Avoid the creation of a new, incompatible RPR standard
- ❑ CFI Meeting Monday 7pm – Kauai 3&4

X.MSR Liaison Update

- ❑ Latest Copy of X.MSR Received and Studied
- ❑ 802.17 WG will be creating a Liaison to X.MSR this week
- ❑ Takefman to Present Liaison at ITU in Geneva
- ❑ Goal – critique X.MSR and provide a forward path for both standards
- ❑ Some 802.17 members have worked through Canadian Gov't and US State Dept to **delay** X.MSR

802 Rules Changes

Author:

Matthew Sherman
AT&T Labs - Research
mjsherman@att.com

Date: November 11, 2002

Rules Changes in Process

- TAG Rules enhancements
 - New TAG groups (Coexistence, Regulatory)
 - Require adjustments for faster response, etc.
 - Comment Resolution complete – vote on 11/15
- SEC Electronic Balloting
 - Clarify rules for electronic balloting and make more flexible (shorter time frame)
 - Failed - Limited time this meeting - Will try again
- Voting retention rights
 - Want non-attendees to roll off faster
 - No consensus, will drop for now

Voting Results

Ballot	Yes	No	Abstain	DNV	Status
SEC e-balloting	0	11	1	2	Fail
TAG changes	3	1	0	10	Fail
Voting Retention Rights	0	2	0	12	Fail

Future Rules Ballots (Editorial)

- Operation Rules name change
 - Bring into conformance with SA Policies and Procedures
- Fix SEC / Executive Committee nomenclature
 - Inconsistent usage of terms
 - Need to adjust for consistent usage
- Clarify 802 / SA / IEEE reporting structure
 - Add Reference section
 - Identify which rules sets defer to other rules sets
- Clarify voting on Procedural matters

Future Rules Ballots (Procedures)

- Balloting groups within working groups
 - Some groups getting very large
 - Difficult to review all drafts and respond to all letter ballots
 - Allow WG flexibility to allow members to opt in and out of voting pools on drafts

5.28 II Rules Changes status- SEC eballoting - Sherman 5 09:23 AM

Comment resolution was not completed. This rule change has died. Mat will circulate a new proposal.

5.29 II Rules Changes status- TAG rules update - Thompson 5 09:28 AM

Small changes made to the text of the rule change. Motion will be made to approve the rule change in Friday's meeting.

5.30 II Rules Changes status- modifications to address Quorum issue - Thompson 5 09:33 AM

This failed by a significant margin. No new proposal will be made.

5.31 II Chairs Guidelines status- sharing WG documents update - Jeffree 2 09:35 AM

Tony has received a few small proposed changes. He will present those on Friday.

5.32 DT Potential rules change--delegation of WG ballots to sub-committee? - Nikolich 2 09:37 AM

Paul floated an idea about a rules change to add to Mat's list of proposals a change to delegate WG ballots to a subcommittee. Discussion on this idea was spirited and universally negative.

5.33 II Meeting planner RFP status - Quackenbush 2 09:39 AM

Buzz is still preparing the draft RFP. It is not yet complete. A new draft will be produced after this meeting. Paul asked Bill Q to make sure we are protected contractually and to prepare any necessary motions for Friday.

5.34 II Database status - Rigsbee 2 09:41 AM

New version of the database was received this week. There is a very short list of issues to be addressed before completion.

5.35 II CD-ROM update - O'Hara 2 09:43 AM

The CD-ROM is here and being distributed at this meeting to all registered attendees.

5.36 DT March 2003 venue (DFW Hyatt) discussion - Rigsbee 5 09:45 AM

Buzz described the arrangements for the meeting, restaurants, and a complimentary shuttle service from the hotel to Grapevine Mall.

5.37 DT SEC meeting schedule (rules, SA, etc.) - Nikolich 5 09:50 AM

SEC Chair's Meetings

TIME	Purpose	Who	Location
MON			
4:00			
TUES			
9:00-10:00	Draft conformance policy discussion	Geoff	Board Room
10:00			
11:00-12:00	Draft conformance policy discussion	Geoff	Board Room
3:00			
4:00			
WED			
8:00-9:00	Tutorial Policy discussion	Mat Sherman	Board Room
9:00-10:00	Discussion on Editions Policy	Yvette	Board Room
10:00-11:00	Get IEEE 802 Budget	Jerry W	Board Room
1:00			
4:00			Board Room
THU			
8:00			
10:00			
12:00			
2:00			
4:00			

CHANGED!!

ADJOURN SEC MEETING

- **Nikolich**

09:55 AM

The meeting was adjourned at 10:25am

802 Opening Plenary Meeting

1. MEETING CALLED TO ORDER

Paul Nikolich called the meeting to order at 11:00 am.

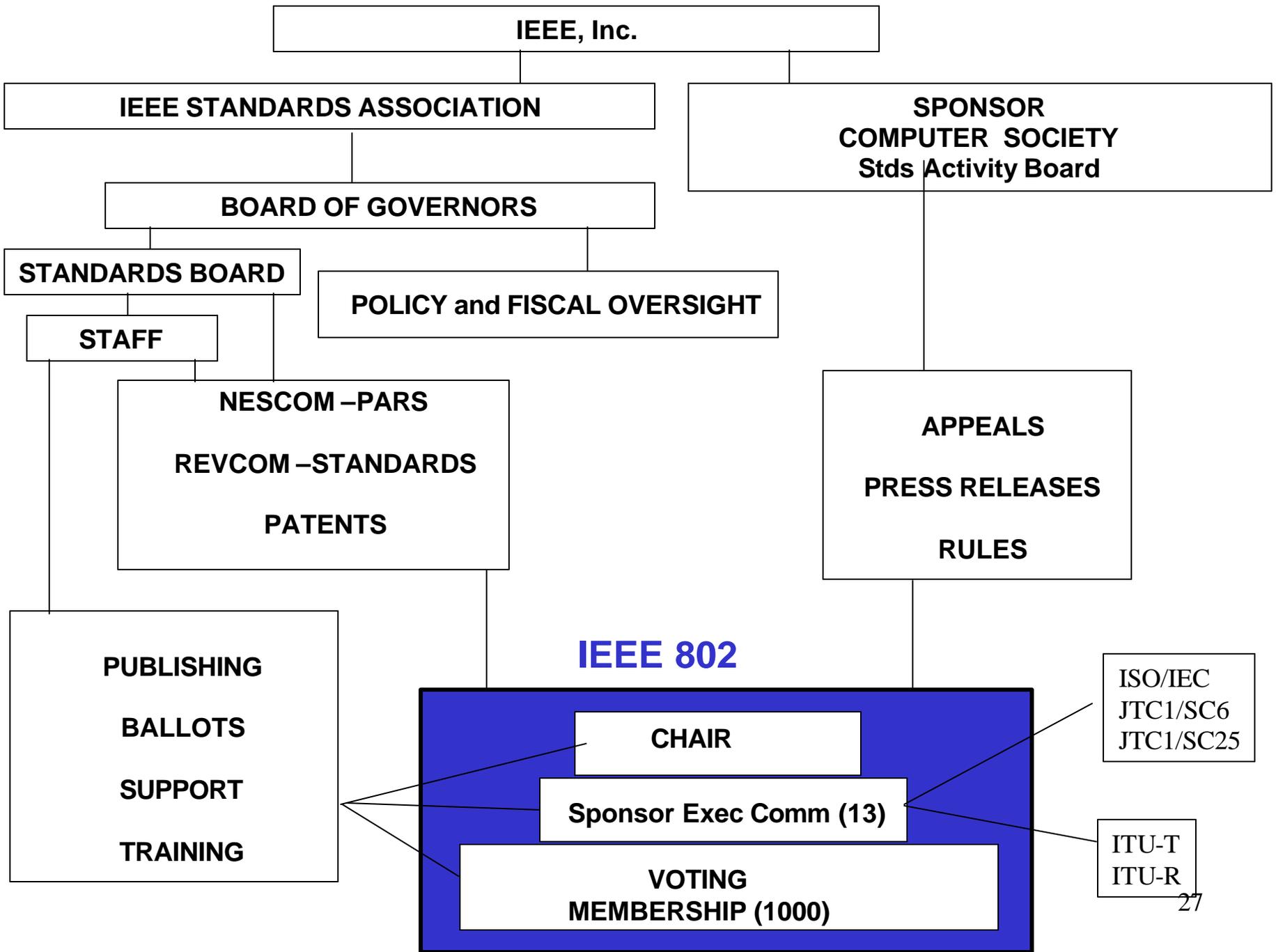
Agenda

- 5 • 11:00 Welcome and Review of SEC Meeting Nikolich
- 11:04 Patent Policy and Membership Rules Thompson
- 11:07 IEEE 802 Operating Rules changes Sherman
- 11:10 Treasurer's Report Quackenbush
- 11:14 IEEE Project Editors Status Report IEEE Staff
- 10 • 11:18 802.1 Architecture & Interworking Jeffree
- 11:22 802.3 CSMA/CD (Ethernet) Grow
- 11:26 802.11 WLAN (Wireless Local Area Network) Kerry
- 11:30 802.15 WPAN (Wireless Personal Area Network) Heile
- 11:34 802.16 BWA (Broadband Wireless Access) Marks
- 15 • 11:38 802.17 RPR (Resilient Packet Ring) Takefman
- 11:42 802.18 Radio Regulatory TAG Stevenson
- 11:46 802.19 Coexistence TAG Lansford
- 11:50 Executive Committee Study Group on Mobile BWA Klerer
- 11:54 Tutorials Nikolich
- 20 • 11:56 P1541 Draft Standard Prefixes for Binary Multiples Frazier
- 11:58 Meeting Arrangements Rigsbee
- 12:00 ADJOURN

- 11:00 Welcome and Review of SEC Meeting Nikolich

Welcome to Kauai

- Great location
- Lots of work!



IEEE 802

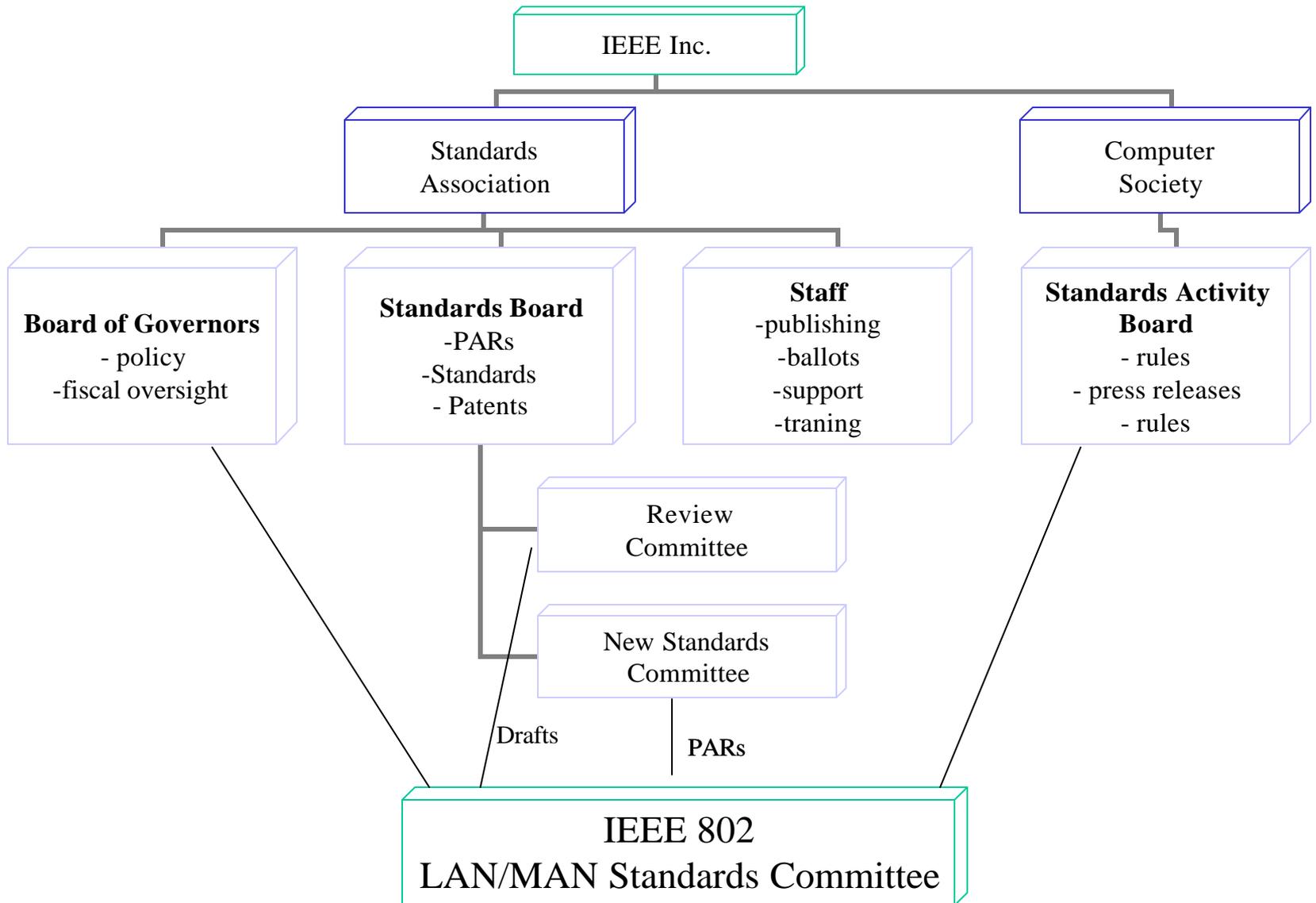
CHAIR

Sponsor Exec Comm (13)

**VOTING
MEMBERSHIP (1000)**

ISO/IEC
JTC1/SC6
JTC1/SC25

ITU-T
ITU-R



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

ECSG
MBWA
Mark Klerer

APPOINTED OFFICERS

1st VICE CHAIR
Geoff Thompson

2nd VICE CHAIR
Mat Sherman

EXECUTIVE SECY
Buzz Rigsbee

RECORDING SECY
Bob O'Hara

TREASURER
Bill
Quackenbush

HIBERNATION

802.2 LLC (Dave Carlson)

802.5 Token Ring (Bob Love)

802.4 Token Bus (Paul Eastman)

802.6 DQDB (Jim Mollenauer)

802.7 Broadband TAG (P Nikolich)

802.9 ISLAN (D. Vaman)

802.10 Security (Ken Alonge)

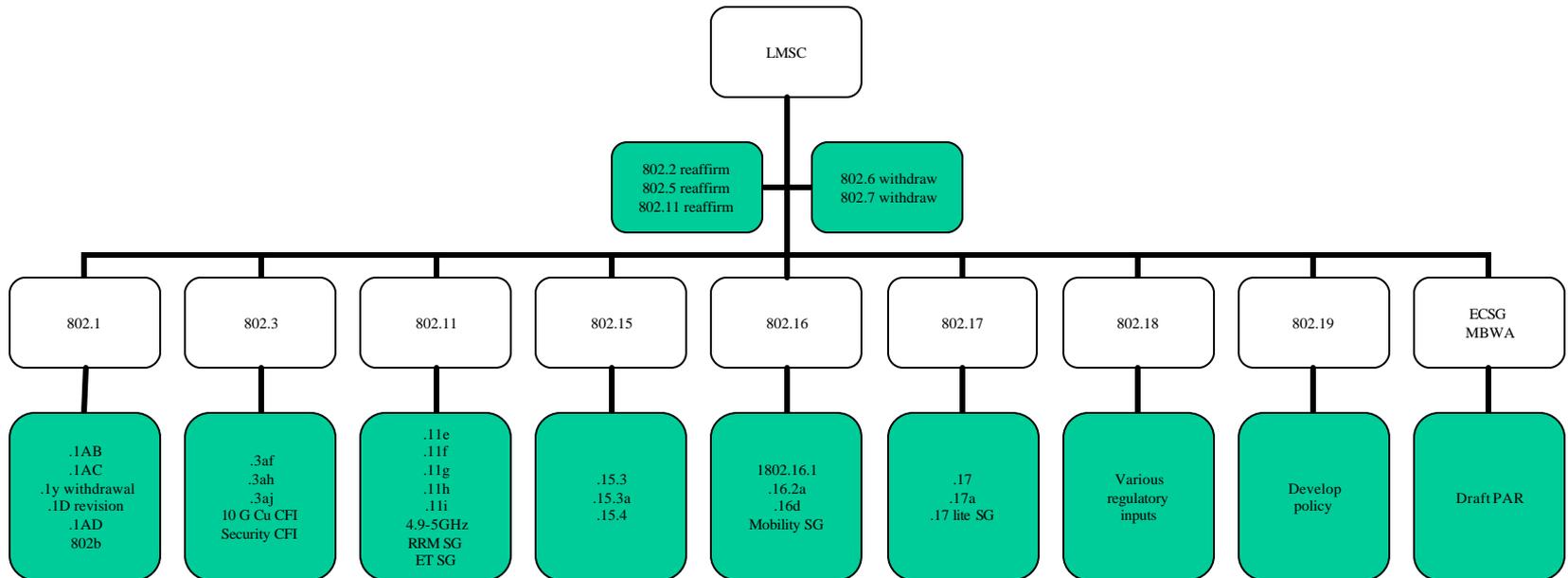
802.12 Demand Priority (Pat Thaler)

DISBANDED

802.8 Fiber Optic TAG (C. Benson)

802.14 CATV (Robert Russell)

>35 projects and activities



- 11:04 Patent Policy and Membership Rules Thompson

Patent Policy

(from Jan 2002 SA Bylaws)

6. Patents

IEEE standards may include the known use of patent(s), including patent applications, provided the IEEE receives assurance from the patent holder or applicant with respect to patents essential for compliance with both mandatory and optional portions of the standard. This assurance shall be provided without coercion and prior to approval of the standard (or reaffirmation when a patent becomes known after initial approval of the standard). This assurance shall be a letter that is in the form of either

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

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

IEEE 802 Membership

5.1.3 Membership

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

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

- 11.07 IEEE 802 Operating Rules changes Sherman

Pending Rules Changes

- TAG Rules Changes
- Working Group Electronic Balloting
- Quorum/membership gain & loss

802 Rules Changes

Author:

Matthew Sherman
AT&T Labs - Research
mjsherman@att.com

Date: November 11, 2002

Rules Changes in Process

- TAG Rules enhancements
 - New TAG groups (Coexistence, Regulatory)
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- 11:10 Treasurer's Report Quackenbush

**IEEE Project 802
Statement of Operations
July, 2002 Plenary Meeting
Vancouver, BC Canada
As of October 31, 2002**

Meeting Income	Actual	Budget
Net Registrations	967	850
619 Registrations @ \$250	154,750	
348 Registrations @ \$300	104,400	
1 Cancellation @ \$25	25	
31 Cancellations @ \$50	1,550	
0 Other @	0	
Registraion Subtotal	260,725	216,750
0 Deadbeat Payment @ \$300	0	0
Interest	148	150
Other	765	375
TOTAL Meeting Income	261,638	217,275
Meeting Expenses	Actual	Budget
Audio Visual Rentals	10,991	9,000
Audit	0	0
Bank Charges	245	35
Copying	845	6,000
Credit Card Discounts & Fees	6,925	6,069
Equipment Expenses	5,174	8,000
Get IEEE 802 Contriubution	71,400	63,750
Insurance	770	0
Meeting Administration	53,636	53,250
Networking	4,114	10,000
Phone & Electrical	603	2,000
Refreshments	35,928	35,700
Shipping	2,485	3,000
Social	23,220	31,450
Supplies	643	0
Other	3,717	500
TOTAL Meeting Expense	220,696	228,754
NET Meeting Income/Expense	40,942	(11,479)
Expenses from prior meetings	5,265	
Reserve for outstanding commitments	7,000	
Expenses prepaid for current meeting	9,200	
Nov, 2002 Operating Reserve	164,846	
Worst Case Hotel Cancellation Penalties	128,633	

- 11:14 IEEE Project Editors Status Report IEEE Staff

IEEE 802[®] Publishing Status Report



IEEE

Yvette Ho Sang

11 November 2002

Manager, Standards Publishing Programs

IEEE 802

2002 Ballot Invitations

- P802aTM
- P802.1sTM
- P802.3afTM
- P802.11eTM
- P802.11FTM
- P802.11gTM
- P802.11hTM
- P802.11iTM
- P802.15.2TM
- P802.15.3TM
- P802.15.4TM
- P802.16aTM
- P802.16cTM
- P802.16.2aTM
- IEEE Std
802.11TM Reaff

IEEE 802 2002 Ballots

- P802.1s
- P802.3ae™
- P802.11F
- IEEE Std
802.11 Reaff*
- P802.15.1™
- P802.15.4
- P802.16a
- P802.16c

* Scheduled for ballot in November

IEEE 802

2002 Published Standards

- IEEE Std 802-2001
- IEEE Std 802.3TM-2002
- IEEE Std 802.3ae-2002
- IEEE Std 802.15.1-2002
- IEEE Std 802.16TM-2001

IEEE 802

December 2002 RevCom Agenda

- IEEE P802.1s
- IEEE P802.16a
- IEEE P802.16c

IEEE Standards Development Online

- Simplified, automated outline of the IEEE Standards process
- Automated submissions for editorial reviews, ballot invitations, sponsor ballots, reaffirmations

<http://standards.ieee.org/resources/development/index.html>

Awards

- Plaques for 802.3ae
 - Jonathan Thatcher, Stephen Haddock, Benjamin Brown, Walter Thirion, Shimon Muller, David Law, Edward Turner, Brad Booth, Bob Grow, Rich Taborek, Eric Lynskey, Pat Thaler, Tom Alexander, Justin Chang, David Kabal, Eric Grann, Dawson Kesling, Geoff Thompson
- Certificate of Appreciation for 802.3ae
 - Larcreshia Laningham

- 11:18 802.1 Architecture & Interworking Jeffree

802.1 – Activities & status

Tony Jeffree, 802.1 WG Chair

11th November 2001

Areas of work

- 802 Architecture
- Interworking between 802 technologies
 - “Technical Plenary” if needed
- MAC Bridging
 - “traditional” bridging
 - VLAN bridging
- LAN management
- Website: <http://www.ieee802.org/1/>

Status of current projects - (1)

- P802.1s - Multiple Spanning Tree support in VLANs
 - Sponsor balloting now complete
 - No outstanding comments or negative votes
 - Plan to submit to December RevCom for final approval

Status of current projects - (2)

- P802.1y – Maintenance items for 802.1D (including t, w)
 - Task Group ballot completed; awaiting new draft
 - Need to convert this project to a revision PAR
- P802.1z – Maintenance items for 802.1Q (including v)
 - Nothing so far identified
- P802.1aa – Maintenance items for 802.1X
 - Various proposed changes resulting from implementation experience
 - Draft 4 issued following resolution of WG ballot of Draft 3.
 - Recirculation ballot to be started in November.

Status of current projects - (3)

- P802a PAR for “Playpen Ethertypes” has been approved
 - Draft 1 was circulated for its first Working Group ballot and comments resolved in May interim.
 - Draft 2 recirculated – one outstanding negative/comment.
 - Sponsor ballot probably after November meeting.
- Link layer discovery – PAR approved. First draft circulated.
- New project starting to “rescue” the MAC Service standard from ISO/IEC JTC1 SC6 and revise it as an 802 standard – PAR approved.

New work planned:

- Support for bridging in service provision environments
- Additions to Std 802 to define registration procedures related to the use of OID arcs in 802

- **11:22 802.3 CSMA/CD (Ethernet) Grow**

Awards were presented to Bob Grow and Geoff Thompson for their work on 10Gig Ethernet.

Get list of other contributors from Bob G.

IEEE 802.3 CSMA/CD (Ethernet) Working Group Status

- Approved Projects / Major Activities:
 - P802.3af DTE Power via the MDI
 - D3.3 WG recirculation ballot prior to meeting
 - Plan to request Sponsor Ballot this week
 - P802.3ah Ethernet in the First Mile
 - D1.1 formal TF review prior to meeting
 - P802.3aj Maintenance #7
 - Plan to request WG ballot this week

IEEE 802.3 CSMA/CD (Ethernet) Working Group Status

- Other Activities
 - Interpretations of 802.3 and 802.3ae
 - 6 Interpretation requests requiring response
 - Liaison Reports
 - Tutorial (Ahmet Tuncay)
 - 10GBASE-T Challenges and Solutions
 - 3 Calls for Interest

802.3 Calls For Interest

- 10GBASE-T (Mon. 8:00 Brad Booth)
 - Proposal for new 10 GbE PHY
 - Operation over twisted pair copper cable
- 10GBASE-CX4 (Tue. 6:30 Dan Dove)
 - Proposal for new 10 GbE PHY
 - Extend XAUI over coaxial copper cable
- Link Security (Tue. 8:00 Dolores Sala)
 - Provide consistent architecture for 802 LAN data protection

IEEE 802.3 Standards

- IEEE Std 802.3-2002 (8 Mar 2002)
 - Now available in Get IEEE 802
 - <http://standards.ieee.org/getieee802/802.3.html>
- IEEE Std 802.3ae-2002 (30 Aug 2002)
 - Amendment to 802.3-2002
 - Published 30 Aug 2002
- IEEE Std 1802.3Rev-2001
 - Available in Get IEEE 802

802.3 Officers

- 802.3 Chair: Bob Grow
(bob.grow@ieee.org)
- 802.3 Vice Chair: David Law
(david_law@3com.com)
- 802.3af DTE Power, 802.3 Secretary:
Steve Carlson (scarlson@esta.org)
- 802.3ah EFM: Howard Frazier
(millardo@dominetsystems.com)

This Week's Meetings

- 802.3 Working Group and Task Force meetings will be held in the Sheraton Kauai Resort (shuttle available)
 - Opening WG plenary starts at 1:00pm
 - Tutorial and CFIs Monday and Tuesday evening
 - Closing plenary Thursday 1:00pm
- 802.3 Web Site: www.ieee802.org/3

- 11:26 802.11 WLAN (Wireless Local Area Network) Kerry

76th Session of the IEEE 802.11 WG

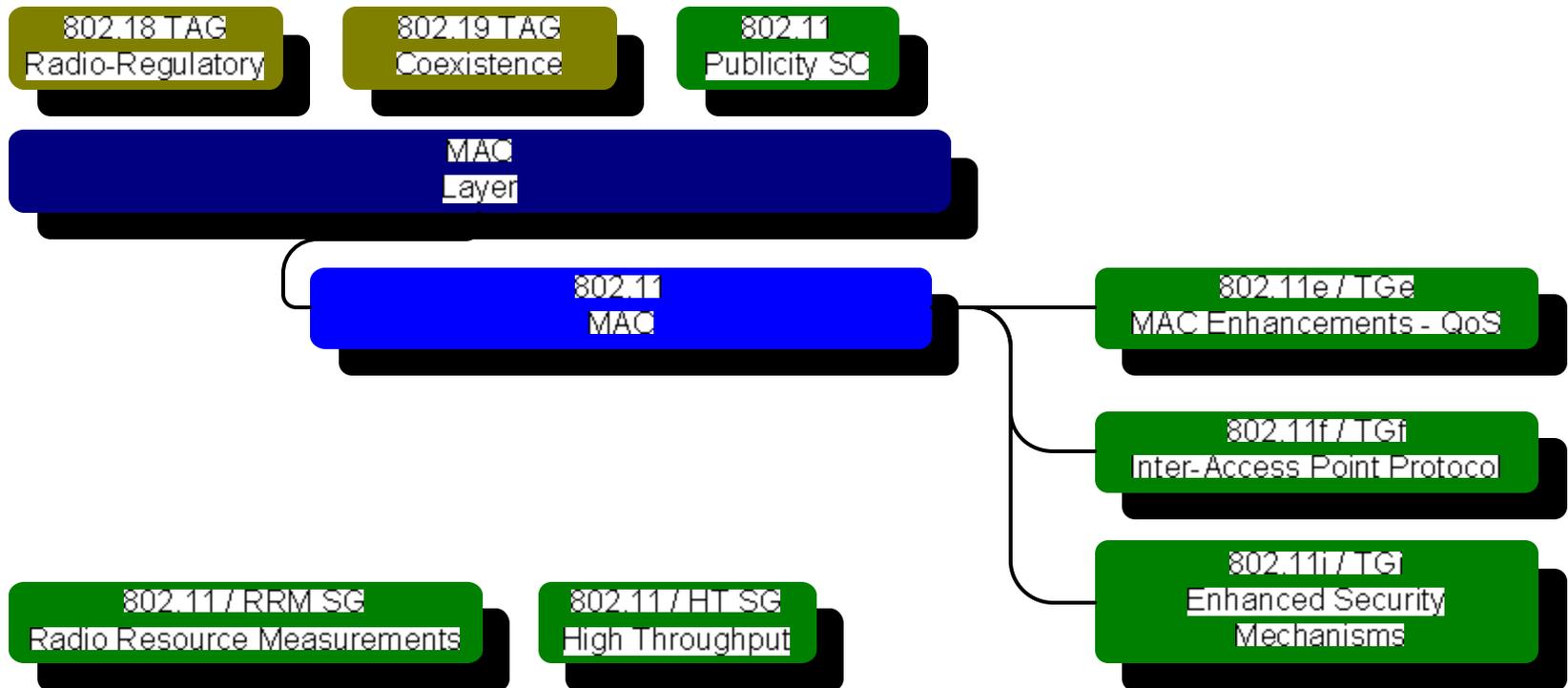
Wireless Local Area Networks

November 10th-15th, 2002, Kauai, HI, USA

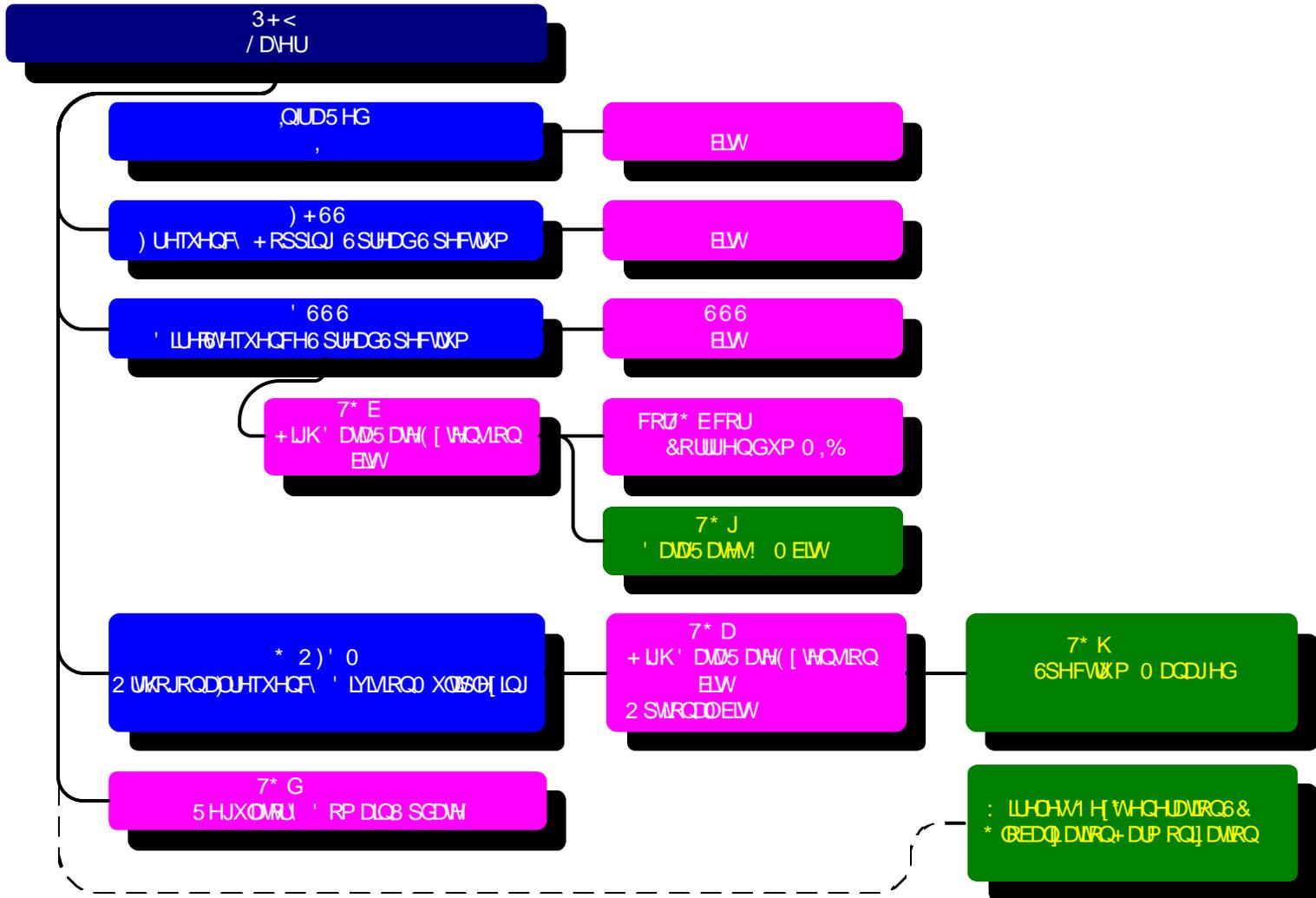


Stuart J. Kerry - Chair, IEEE 802.11 WLANs Working Group
stuart.kerry@philips.com

802.11 Activities MAC & Others



802.11 Activities PHY





802.11 Functional Organization Chart

Archive, Mailing Lists, URLs

- Web Page: <http://www.ieee802.org/11/>
- Technical Reflector: stds-802-11@ieee.org
- General Mailing List: stds-802-11-m@ieee.org
- Joint 802.11/15 List: stds-802-11-jt11-15@ieee.org
- CAC List: stds-802-11-cac@ieee.org
- Voter/Nearly List: stds-802-11-voters@ieee.org

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

To add your name to IEEE mailing lists please send an e-mail to apetrick@icefyre.com

PLENARY	76TH IEEE 802.11 WIRELESS LOCAL AREA NETWORKS SESSION												
R4	Hyatt Regency Kauai, 1571 Poipu Road, Koloa, Kauai, HI 96756, USA.												
	November 10th-15th, 2002												
	The graphic below describes the weekly session of the IEEE P802.11 WG in graphic format.												
	SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY							
07:00-08:00					802.11 WG CHAIRs ADVISORY COMMITTEE								
08:00-10:00		802 SEC MEETING	TGH TGE RRM SG HT SG	RRM SG TGF TGI TGG	TGE TGI TGF TGG	802.11 WG CLOSING PLENARY							
10:00-10:15			Break		Break		Break						
10:15-10:30			Break		Break		Break						
10:30-12:00		802 PLENARY	TGH TGE RRM SG 11 / 15 PSC	802.11 WG MID-SESSION PLENARY		TGE TGI TGF TGG	802.11 WG CLOSING PLENARY (Con't)						
12:00-13:00		Lunch	Lunch	Lunch	Lunch	12:00 pm Hard Stop Time							
13:00-14:15		802.11 / 15 / 18 / 19 JOINT OPENING MEETING	TGH TGI WNG SC TGG	TGH TGF TGE TGG	TGH TGI TGF TGG	802 SEC MEETING							
14:15-14:30		Break											
14:30-15:00		802.11 WG OPENING PLENARY											
15:00-15:15	802.11 / 15 / 18 / 19 LEADERSHIP MEETING	Break	Break		Joint Mtg with 802.18		Break						
15:15-15:30		Break	Break		Break		Break						
15:30-16:30		TGH TGE TGG TGI	TGH TGI TGF TGG	TGH TGF TGE TGG	TGH TGI TGF TGE								
16:30-17:30	NEW MEMBERS ORIENTATION												
17:30-19:00	Break	Joint Mtg with 802.18	Dinner	Dinner	Break	Dinner	Joint Mtg with 802.18						
19:00-21:30	802.11 WG CHAIRs ADVISORY COMMITTEE (CAC)	TGH TGI TGG HT SG	WNG TGE TGF TGG	IEEE 802 Social Evening		HT SG TGI WNG SC TGE	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 group on 802.11 Operating Rules Letter Ballot
- Update timeline chart for all 802.11 WG PARs & Projections for Completion
- IEEE 802.11 / ETSI BRAN and MMAC study groups administrative issues & co-ordination
- CAC Co-ordination with WG Chair
- IEEE 802.11 Standard Roll-Up Inclusion of 802.11A / 802.11B / 802.11B COR-1 / 802.11D Amendments

TASK GROUP E OBJECTIVES FOR THIS SESSION

802.11 - MAC Enhancements - QoS

CHAIR - JOHN FAKETSELIS / VICE-CHAR - DUNCAN KITCHIN

- To generate a new version of the draft and to submit to Letter Ballot

TASK GROUP F OBJECTIVES FOR THIS SESSION

802.11 - Inter-Access Point Protocol

CHAIR - DAVE BAGBY

- Review & process responses to Sponsor Ballot
- Prepare revised draft
- Proceed to next stage (depends on Ballot result, unknown at time of agenda creation) of SB process

TASK GROUP G OBJECTIVES FOR THIS SESSION

802.11 - 802.11b Data Rates >20 Mbit/s

CHAIR - MATTHEW SHOEMAKE / VICE-CHAIR - JOHN TERRY

- Review the results of WG recirculation ballot
- Forward draft to Sponsor Ballot or resolve comments and issue WG Recirculation Ballot
- Hold joint meeting with 802.18 regulatory committee

TASK GROUP H OBJECTIVES FOR THIS SESSION

802.11 - Spectrum Managed 802.11a

CHAIR - MIKA KASSLIN

- Process re-circulation ballot comments
- Submit the draft to Sponsor Ballot
- Update on progress in related matters (jointly with 802.18 TAG)

TASK GROUP I OBJECTIVES FOR THIS SESSION

802.11 - Enhanced Security Mechanisms

CHAIR - DAVE HALASZ

- Go to Letter Ballot

PUBLICITY STANDING COMMITTEE OBJECTIVES FOR THIS SESSION

802.11 - Publicity

CHAIR - BRIAN MATHEWS

- Review & discuss .11/.15 communication process
- Reports from WECA & WiMedia
- Discuss .11/.15 TG Summaries

WNG STANDING COMMITTEE OBJECTIVES FOR THIS SESSION

802.11 - Wireless LANs Next Generation

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

- Updates from ETSI/BRAN, MMAC, 802.18 and IAG
- Review and discuss WIG activities and presentations
- Nomination of recording secretary
- Discuss new presentations - UWB channel modeling, smart antennas, OFDM performance improvement
- Discuss LB#43 comments

HT STUDY GROUP OBJECTIVES FOR THIS SESSION

802.11 - High Throughput

CHAIR - JON ROSDAHL

- Draft the PAR and Criteria Statement for High Throughput
- Prepare response to the Criteria requirements

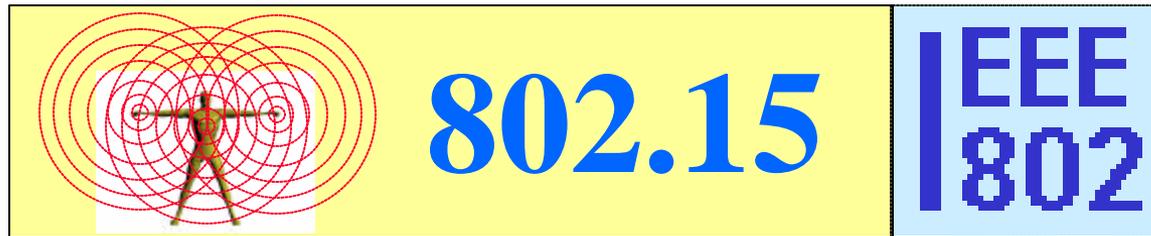
RRM STUDY GROUP OBJECTIVES FOR THIS SESSION

802.11 - Radio Resource Measurements

CHAIR - RICHARD PAINE

- Complete draft of the RRM Requirements and Issues document
- Approval of the RRM Requirements and Issues document
- Meet for the first time as a Task Group
- Final determination of editor
- Draft outline for the RRM specification

- 11:30 802.15 WPAN (Wireless Personal Area Network) Heile

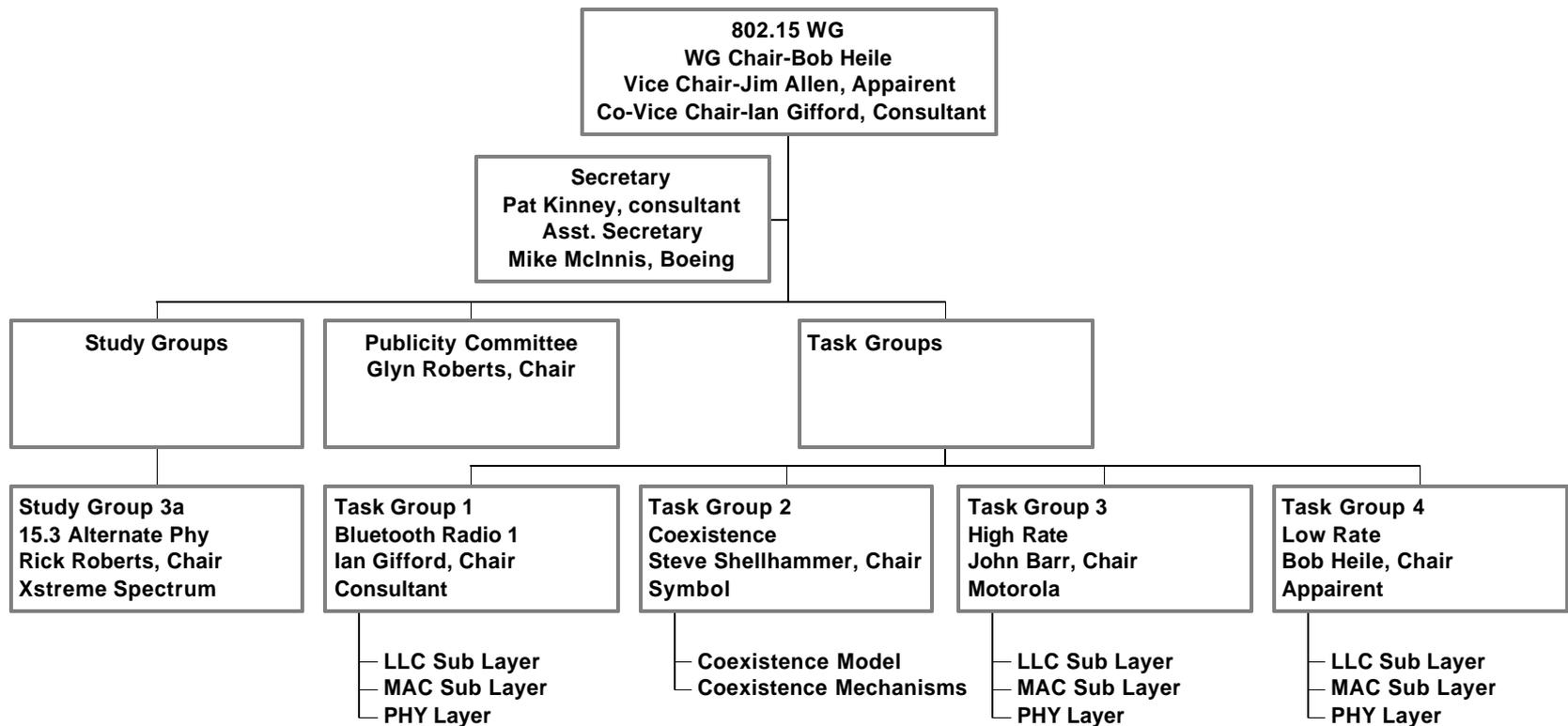


21st Session of meetings of the IEEE 802.15 Working Group for Wireless Personal Area Networks

November 11-15, 2002

Hyatt Regency Kauai

802.15 Functional Organization Chart



Archive, Mailing List, URLs

- Web Page: <http://www.ieee802.org/15/>
- General Mailing List: stds-802-wpan@ieee.org
- Voter/Nearly List: stds-802-15@ieee.org
- TG2 list: stds-802-15-2@ieee.org
- TG3 list: stds-802-15-3@ieee.org
- TG4 list: stds-802-15-4@ieee.org
- SG3a list: stds-802-15-sg3a@ieee.org
- Lists restricted to those on the list to reduce SPAM. To send to the list you must use the exact email address on the list as the 'from' address. Alias addresses such as ieee.org will not work.

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

Objectives of the Kauai Meeting

November 11-15, 2002

TASK GROUP 2 OBJECTIVES FOR THE MEETING

1. RECIRCULATION BALLOT COMMENT RESOLUTION

TASK GROUP 3 OBJECTIVES FOR THIS MEETING:

1. CONFERENCE CALL STATUS, INCLUDING APPROVAL OF ANY AD HOC BUSINESS
2. RECIRCULATION BALLOT COMMENT RESOLUTION
3. UPDATE DRAFT AS REQUIRED
4. RE-CIRCULATE LETTER BALLOT
5. SEEK EXCOM SPONSOR BALLOT CONDITIONAL AUTHORIZATION

Objectives of the Kauai Meeting

November 11-15, 2002

TASK GROUP 4 OBJECTIVES FOR THIS MEETING:

-
- 1. CONFERENCE CALL STATUS, INCLUDING APPROVAL OF ANY AD HOC BUSINESS**
 - 2. COMMENT RESOLUTION ON SPONSOR BALLOT**
 - 3. ZIGBEE RELATIONSHIP UPDATE**
 - 4. SPONSOR BALLOT RECIRCULATION PREP**
 - 5. PAR PURPOSE MODIFICATION TO REFLECT DRAFT DATA RATES**

Objectives of the Kauai Meeting

November 11-15, 2002

STUDY GROUP 3a OBJECTIVES FOR THIS MEETING: **(Ref: 02416r1P802.15)**

- 1. Secure PAR approval from 802 and forward to NesCom**
- 2. Technical Document & CFP Editing**
- 3. Down Selection Procedure**
- 4. Continue Channel Model Work**
- 5. Joint Meeting with 802.19**
- 6. Hear Contributions**

Kauai Meeting Graphic

R1	21st IEEE 802.15 WPAN MEETING																							
	Hyatt Regency, Koloa, Kauai																							
	November 11-15, 2002																							
	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																							
	07:30-08:00	802.15 AC MEETING																						
	08:00-08:30																							
	08:30-09:00	802 SEC MEETING			TG3 ad hoc	SG3a with 802.19	TG2	TG3	TG4	SG3a	TG2	TG3	TG4	SG3a	TG2	TG3	TG4	802.15 WG CLOSING						
	09:00-09:30																							
09:30-10:00																								
10:00-10:30	Break																							
10:30-11:00	Break																							
11:00-11:30	802 PLENARY			TG3 ad hoc	PC with 802.11	TG2	TG3	TG4	802.15 WG MEETING				SG3a	TG2	TG3	TG4	802.15 WG CLOSING							
11:30-12:00																								
12:00-13:00	Lunch																							
13:00-13:30	Optional	802.11 / 802.15 JOINT OPENING PLENARY			SG3a	TG2	TG3	TG4	SG3a	TG2	TG3	TG4	SG3a	TG2	TG3	TG4	802 SEC MEETING							
13:30-14:00																								
14:00-14:30	Break																							
14:30-15:00																								
15:00-15:30	Break																							
15:30-16:00	11/15 / R-REG LEADERSHIP MEETING	802.15 OPENING PLENARY																						
16:00-16:30	Break																							
16:30-17:00	NEW MEMBERS ORIENTATION	TG2	TG3/SG3a	TG4	SG3a	TG2	TG3	TG4	SG3a	TG2	TG3	TG4	SG3a	TG2	TG3	TG4								
17:00-17:30	Dinner																							
17:30-18:30	Dinner																							
18:30-19:00	Break																							
19:00-19:30	TG3 BRC Meeting	Optional Meeting Time	TG3	Tut 1	Optional Meeting Time	TG3	Tut 3	Social				Optional Meeting Time	TG3	802.11 WNG										
19:30-20:00																								
20:00-20:30																								
20:30-21:00																								
21:00-21:30																								
LEGEND																								
SG3a	Alt 15.3 PHY Study Group							WNG	Wireless Next Generation															
TG2	Task Group 2 - COEXISTENCE							TUT	IEEE 802 Tutorials 1, 2, 3 and 4															
TG3	Task Group 3 -HIGH RATE WPAN							SEC	802 SPONSOR EXECUTIVE COMMITTEE															
TG4	Task Group 4 - LOW RATE																							
AC	802.15 ADVISORY COMMITTEE																							

Upcoming Meetings for 2003

- Interim-Ft. Lauderdale, FL Jan13-17, 2003
- Plenary-DFW, TX March 10-14, 2003
- Interim-Singapore, May 12-16, 2003
- Plenary-San Francisco, July 20-25
- Interim-TBD, September 15-19, 2003
- Plenary-Albuquerque, NM Nov 9-14, 2003

- 11:34 802.16 BWA (Broadband Wireless Access) Marks

IEEE 802.16

Working Group on

Broadband Wireless Access

Roger Marks, Chair



IEEE 802.16
Working Group on
Broadband Wireless Access
(BWA)

LMSC Plenary Meeting

11 November 2002

Hyatt Regency Koloa

802.16 Sessions

- #21: 23-26 September 2002
–Cheju, Korea
- #22: 11-14 November 2003
–Kauai, Hawaii, USA
- #23: 13-16 January 2003
–San Jose, CA, USA

802.16 Membership

- **84 Members**
 - Down from peak of 175
 - Key projects have been winding down
 - Looking to open some new work
- **62 Potential Members**
- **25 Observers**

802.16 Officers

- **Chair: Roger Marks**
- **Vice Chair:**
 - **Election to fill vacancy due to resignation of Paul Struhsaker**
- **Secretary: Dean Chang**
- **TGa & Mobile SG Chair: Brian Kiernan**
- **TGC Chair: Ken Stanwood**
- **TG2 Chair: Phil Whitehead**

802.16 Project Structure

Air Interface

IEEE Standard
802.16

Publ: Apr 2001
MAC
10-66 GHz PHY

802.16c (Profiles)
RevCom: Dec02

802.16a
2-11 GHz
RevCom: Dec02
(maybe?)

802.16d (Profiles)
PAR: Nov 2002

Conformance

1802.16.1 (PICS)
WG Ballot: Nov02

1802.16.2
PAR: Nov 2002

1802.16.3
PAR: 2003

Coexistence

IEEE Standard
802.16.2
Publ: Sep 2001

802.16.2a
2-11 GHz
WG Ballot:
close to done;
Request to open
Sponsor Ballot

P802.16a

- Amend IEEE Standard 802.16 by the addition of 2-11 GHz PHY, plus MAC enhancements
- Completed Sponsor Ballot and 2 Recircs
- Pre-Submitted to RevCom for Dec 2002
- But, some additional comments received
- Expect to ask SEC on Friday for approval (or conditional approval) for RevCom submission

P802.16c

- To amend IEEE Standard 802.16 by the addition of 10-66 GHz profiles
 - for compliance and interoperability tests
- PAR approved by 802 on 22 March
 - By IEEE-SA on 9 May
- Fully completed Sponsor Ballot
- Expect to ask SEC on Friday to approve RevCom submittal

P1802.16d (proposed)

- Proposed amendment to IEEE 802.16: 2-11 GHz System Profiles
- Basis of interoperability test
- Parallel to completed 802.16c
- Expect to ask SEC on Friday for approval

P1802.16.2 (proposed)

- Proposed new standard: 10-66 GHz Test Suite Structure and Test Purposes for IEEE Standard 802.16
- Second of proposed three-volume set of conformance test documents
 - P1801.16.1 (PICS) being readied for WG Ballot this week
- Expect to ask SEC on Friday for approval

Mobile Wireless MAN Study Group

- Approved by SEC in July 2002
 - Following 802.16's Mobile Broadband Wireless Access SG: March-July
- Proposed PAR 802.16e:
 - Physical Layer and Medium Access Control Modifications for Mobile Operation in Licensed Bands below 6 GHz
- Enhance 802.16a for fixed/mobile use
 - New regulatory allocations, esp. in U.S.
- Open Call for Comments issued
- Expect to ask SEC on Friday for approval

Mobile Wireless MAN/MBWA SGs

- Concern over distinct identity
- MBWA PAR Presentation to 802.16
 - Monday 4:30-5 pm
- 802.16e PAR Presentation to MBWA SG
 - Tuesday 8:30- ~10 am
- Meeting to address identity overlaps
 - Tuesday 6-7 pm (open; Bob Heile: moderator)
- Deadlines on mobility PARS delayed
 - Comments due Wednesday noon
 - Final PAR due Thursday noon

802 Handoff Tutorial & CFI

- *"Handoff Mechanisms and their Role in IEEE 802 Wireless Standards"*
 - Tutorial: Monday 6:30-9:30 pm
 - Sponsored by 802.11, 802.15, 802.16
 - Organized by Marks & Kiernan (802.16)
 - Call for Interest: Tuesday 7:00-7:45 pm
- Issue: a single 802 handoff interface to allow handoff among mixed 802 networks as well to and from non-802 systems.
- Seven excellent speakers
 - IETF; T1P1 (3GPP); 802.11; etc.

Resources

- on LAN this week:
 - <http://wirelessman>
 - (AKA <http://10.12.0.16>)
 - Hosts the 802 meetings survey
- permanently:
 - <http://WirelessMAN.org>
- tutorials:
 - <http://WirelessMAN.org/tutorial>

- 11:38 802.17 RPR (Resilient Packet Ring) Takefman



IEEE 802.17 Resilient Packet Ring

Meeting # 11

Michael Takefman, Chair

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



Officers of RPRWG



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



RPRWG



- New 802 Project approved by IEEE Standards Board on Dec. 7, 2000 as IEEE 802.17 Resilient Packet Ring Working Group
- The Resilient Packet Ring Working Group will define 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.
- The project will use existing Physical Layer specifications and may develop new PHYs where appropriate.



Meeting Goals

- Opening Plenary
 - Monday afternoon & Tuesday morning
- Approval for PAR 802.17a – Amendment to 802.1D to include 802.17
- Liason to ITU-T SG 7/17 on X.msr Draft
- Call for Interest – WGSG – 802.17 lite
 - Outgrowth of liason with ITU-T SG 7/17
 - Monday 8pm Kauai 3/4
- Comment resolution on Draft 1.1
 - Tuesday afternoon
 - Wednesday
- Closing Plenary
 - Thursday



Next Interim Meeting



- Jan X to (X+3), 2003
Atlanta, GA
Sponsored by Scientific Atlanta
- March – Dallas Ft. Worth
- May - TBD

- 11:42 802.18 Radio Regulatory TAG Stevenson

802.18 RR-TAG Opening Report

- Report on September Interim Meeting
- Objectives for this Meeting
- Update on Significant Regulatory Issues

Report on September Interim Meeting

- **Activity at the September 2002 Interim Meeting**
 - **Held brief joint sessions with 802.11 TGh and WNG SC**
 - **Prepared and approved 3 regulatory filings for FCC**
 - 18-02-028r1 Ex Parte Presentation re: AMSAT Reply Comments
 - 18-02-029r0 Opposition to LMS Petition for Reconsideration in ET Docket No. 99-231 and Ex Parte Comments on Progeny's Petition for Rulemaking
 - 18-02-033r0 Ex Parte Presentation on WRC-03 Agenda Item 1.5 (5 GHz) (also intended for presentations to key Members of Congress and officials in the Dept. of Commerce)
 - **Prepared and approved comments in response to Hong Kong TA Public Consultation**
 - 18-02-031r0
 - **All 3 FCC documents and Hong Kong document were approved at closing plenaries of all 3 wireless WGs ... all passed 5 day SEC review**
 - **Planned updates to 802.18 website regulatory resources**

Planned Objectives for This Meeting

- Hold joint meetings with 802.11 TGg, TGh, WNG SC
- Prepare regulatory documents as time permits (will prioritize at 802.18 opening plenary)
- Work on 802.18 operating rules, time permitting (?)
 - Based on recent re-write/modifications of 802.11 operating rules as a starting point
 - If time does not permit, will commence work via e-mail correspondence, with conference calls as necessary to progress work between now and the January interim meeting

Significant Pending Regulatory Issues

- ET Docket No. 02-312
 - Biennial review of FCC rules under OET ... including Part 15
 - Opportunity to eliminate unnecessary, burdensome rules
- Australia/New Zealand Consultation
 - Potential impact on 802.11g ... needs review and response as appropriate
- WT Docket No. 02-146
 - NPRM on millimeter bands at 71-76 GHz, 81-86 GHz, and 92-95 GHz
 - 71-76 GHz and 81-86 GHz would be licensed, but with flexible rules
 - 92-95 GHz would be unlicensed
 - Seeks input on bandplans and a variety of other regulatory and technical issues
- DFS and the US Radar Community
 - US radar community wants *very* low DFS threshold to “protect” radars
 - Could impact WRC-03 Agenda Item 1.5 (globally harmonized allocation)
 - US industry representatives still trying to work out acceptable solution with NTIA
 - Potential (possibly major) impact on 802.11a

- 11:46 802.19 Coexistence TAG Lansford

IEEE 802 Wireless Coexistence Study Group

Summary of Activities

- **Internal**
 - **Coexistence statement with 802.15 SG3a on PAR & 5 Criteria**
 - **Visited two SG3a companies to discuss their plans to address coexistence**
 - **Joint session with SG3a on Tuesday 8-10AM**
- **External**
 - **Two meetings with TIA-41**
 - **Engaged with one company to work with IEEE on cordless phone coexistence**
 - **WECA (WFA) board looking to endorse coexistence solution; lobbied for 802.15.2**
 - **Presentation by IEEE 1073 (Medical Device Communication)/ EMBS on coexistence issues in medical environments**
 - **Gave presentation at Medical Technology Conference on IEEE efforts to improve coexistence between unlicensed band devices**
 - **Contacted Steve Berger to coordinate with EMC**
- **Administrative**
 - **Web site not up – will try to remedy this week**

- 11:50 Executive Committee Study Group on Mobile BWA Klerer

MBWA Executive Committee Study Group

Broadband Mobile Wireless Access

11 November 2002

Mark Klerer
Chair- MBWA ECSG



The MBWA PAR Scope

Develop a specification for the PHY and MAC layers of an air interface for interoperable packet-data mobile broadband wireless access systems that:

- operates in licensed frequency bands below 3.5 GHz,
- supports peak data rates per user in excess of 1 Mbps,
- supports vehicular mobility classes up to 250 Km/h,
- covers cell sizes commensurate with ubiquitous metropolitan-area networks, and
- targets spectral efficiencies, sustained user data rates and numbers of active users significantly higher than achieved by existing mobile systems.

MBWA Purpose

- **Enable worldwide deployment of cost effective , spectrum efficient, always on and interoperable mobile broadband wireless access systems in order to address user needs for:**
 - **Mobile and ubiquitous Internet access**
 - **Transparent support of Internet applications**
 - **Access to enterprise intranet services**
 - **Transparent access to Infotainment and Location services**

Work Plan for this Meeting

- Tuesday, 12 November 2002:
 - Review of PARs of other WGs and generation of comments for submittal by 5:00pm (noon Wednesday for 802.16e PAR).
 - Initial refinement of MBWA PAR in response to received comments
- Wednesday, 13 November 2002:
 - Responses to received comments on PAR
 - Production of final PAR text for submittal to Executive Committee by noon Thursday
- Thursday, 14 November 2002:
 - Presentations on mobility enabling technologies and capabilities
 - Planning for first WG meeting
- Local URL: <http://802-18-19/mbwa/index.html>

MBWA Draft Project Development Timeline

- **First Meeting of MBWA WG** **Jan 13-17, 2003**
- **WG Letter Ballot** **Nov 21 – Dec 30, 2003**
- **LMSC Sponsor Ballot** **May 26 – July 7 2004**
- **Sponsor Confirmation Ballot** **Aug 11 – 26, 2004**
- **Submission to RevCom** **October 31, 2004**
- **IEEE-SA Approval** **December 10, 2004**

MBWA Solution Characteristics

Characteristic	Value
Mobility	up to 250 km/hr
Sustained spectral efficiency	> 1 b/s/Hz/cell
Peak user data rate (Downlink (DL))	> 1 Mbps*
Peak user data rate (Uplink (UL))	> 300 Kbps*
Peak aggregate data rate per cell (DL)	> 4 Mbps*
Peak aggregate data rate per cell (UL)	> 800 Kbps*
Airlink MAC frame RTT	<10 ms
Bandwidth	e.g., 1.25 MHz, 5 MHz
Spectrum (Maximum operating frequency)	< 3.5 GHz

- 11:54 Tutorials Nikolich

Tutorial Schedule

	Hyatt	Hyatt	Sheraton	Sheraton
	Monday	Tuesday	Monday	Tuesday
1	802 Handoff	802 Handoff CFI	10G Cu	10GB-CX4 CFI
2	802 Handoff	Open	10GB-T CFI	Security CFI

- 11:56 P1541 Draft Standard Prefixes for Binary Multiples Frazier

Why You Should Care About kibus

Howard Frazier
IEEE 802 LMSC
Hyatt Regency, Kauai
November 11, 2002

P1541 Draft Standard

Prefixes for Binary Multiples

- The prefixes given in Table 1 shall be used to indicate multiplication by 2^{10n} , where $n = 1, 2, 3, 4, 5$, or 6 .

Factor	Name	Symbol	Origin	Related SI Prefix	Examples
2^{10}	kibi	Ki	kilobinary: (2^{10})	kilo: (10^3) k	Kib = 1.024 kb
2^{20}	mebi	Mi	megabinary: $(2^{10})^2$	mega: $(10^3)^2$ M	MiB \approx 1.0486 MB
2^{30}	gibi	Gi	gigabinary: $(2^{10})^3$	giga: $(10^3)^3$ G	Gio \approx 1.0737 Go
2^{40}	tebi	Ti	terabinary: $(2^{10})^4$	tera: $(10^3)^4$ T	Tib \approx 1.0995 Tb
2^{50}	pebi	Pi	petabinary: $(2^{10})^5$	peta: $(10^3)^5$ P	PiB \approx 1.1259 PB
2^{60}	exbi	Ei	exabinary: $(2^{10})^6$	exa: $(10^3)^6$ E	Eio \approx 1.1529 Eo

- The SI prefixes shall not be used to denote multiplication by powers of two.

P1541 Current Status

- PAR approved May 2002
- Sponsor ballot completed July 2002
 - 16 balloters - Gov/Academic/Consultant/User
 - No Producers in sponsor ballot pool
 - Unanimous approval
- Approved by RevCom September 2002
- Tabled by IEEE-SA StB until December 2002
- If P1541 is approved, all projects submitted to RevCom will be reviewed^a for compliance

^aother verbs could be used

IEEE-SA StB Possible Actions on P1541

- Approve as Full Use, 5 year IEEE Std
or
- Approve as Trial Use, 2 year IEEE Std
 - Any comments received during trial period would have to be addressed, and potentially re-ballotedor
- Re-form sponsor ballot group and re-ballot

Questions for IEEE 802 LMSC Members

- Do you care about P1541?
- Were you aware of P1541?
- Did you have the opportunity to comment and ballot on P1541?
- Would you like to have the opportunity to comment and ballot on P1541?
- What should the IEEE-SA StB do about P1541?
 - Approve (Full Use, 5 year)
 - Approve (Trial Use, 2 year)
 - Re-form ballot group and re-ballot

Alternatives to kibis

- Assuming that the imprecision associated with using decimal prefixes when discussing binary multiples is worth addressing, there are alternatives to the introduction of new prefixes:
 - Write the precise value in expanded form, e.g. 65 536 bytes, rather than 64 kB
 - Write the precise value in exponential form, e.g. 2^{16} bytes

Background

- P1541 was drafted and balloted by Standards Coordinating Committee (SCC) 14: Quantities, Units and Letter Symbols
- Unlike other sponsors and SCCs that draft standards, SCC14 is not listed on the “Request Form to Join an IEEE Balloting Pool”:

<http://standards.ieee.org/db/balloting/ballotform.html>

- SCC14 is very diligent and very persistent about reviewing all projects for compliance with IEEE Standards for quantities, units and letter symbols. Compliance with 1541 will probably be vigorously enforced.

Background

- In *subclause 5.4.1 Balloting group*, the IEEE-SA Standards Board Operations manual says:

The balloting group shall provide for the development of consensus by all interests significantly affected by the scope of the standard. This is achieved through a balance of such interests in the balloting group membership. Balance is defined as the avoidance of dominance by any single interest category.

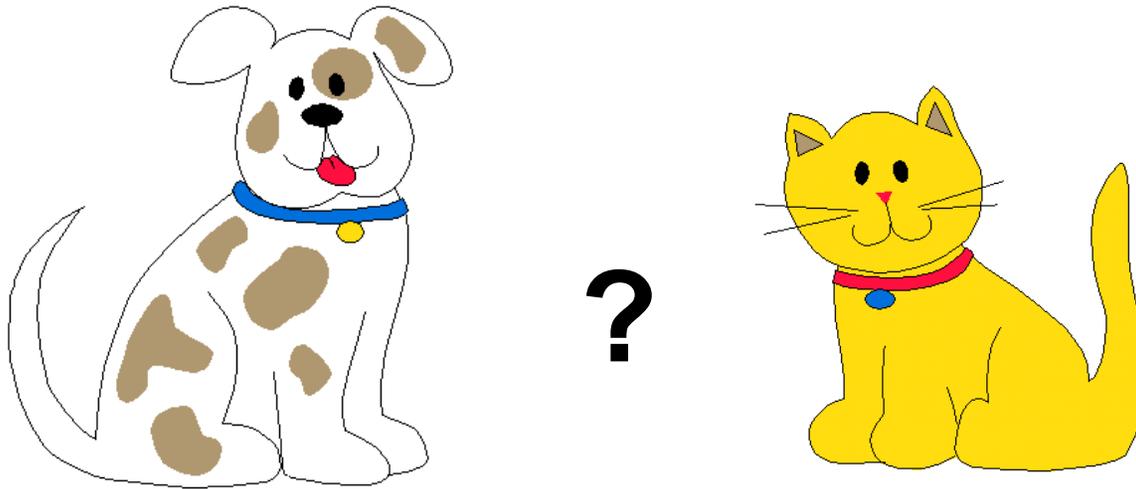
...

Care shall be taken to ensure that all classes of interest are represented to the extent possible.

Background

- The campaign for kibis began in the IEC, which adopted IEC 60027-2, Letter symbols to be used in electrical technology, Part 2: Telecommunications and electronics, Amendment 2, 1999-01.
- ASTM/IEEE SI 10-2002, Standard for Use of the International System of Units (SI): The Modern Metric System, says the use of SI prefixes to denote multiplication by powers of two is deprecated.

What do you think of
when you hear “kibi”?



or mebi something else?

- 11:58 Meeting Arrangements Rigsbee

- 12:00 ADJOURN

The meeting was adjourned at 12:22pm

Respectfully Submitted,

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Bob O'Hara

Recording Secretary