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

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

Hyatt Regency – St. Louis, MO.

1. MEETING CALLED TO ORDER

Paul Nikolich called the meeting to order at 8:05 am. Members in attendance were:

Paul Nikolich	- Chair, IEEE 802 LAN / MAN Standards Committee
	- Vice Chair, IEEE 802 LAN / MAN Standards Committee
Buzz Rigsbee	- Executive Secretary, IEEE 802 LAN / MAN Standards Committee
Bob O'Hara	- Recording Secretary, IEEE 802 LAN / MAN Standards Committee
Robert Grow	- Treasurer, IEEE 802 LAN/MAN Standards Committee
Tony Jeffree	- Chair, IEEE 802.1 - HILI Working Group
Geoff Thompson	- Chair, IEEE 802.3 - CSMA/CD Working Group
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
Vic Hayes	- Regulatory Ombudsman
Jim Lansford	- Chair Coexistence Study Group

The meeting was attended by approximately 10 IEEE 802 Working Group members and several IEEE Staff.

2.00 APPROVE OR MODIFY AGENDA

DRAFT AGENDA (R4) - IEEE 802 LMSC EXECUTIVE COMMITTEE MEETING

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

Hyatt Regency, St. Louis, Missouri

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		**TREASURER'S REPORT**	**-**	**Grow**	**10**	**08:10 AM**
	Category (* = consent agenda)					
5.00	**DT**	**Schedule for week and Friday Plenary (1pm - 5pm)**	**-**	**Nikolich**	**5**	**08:20 AM**
5.01	**II**	**Tutorials**	**-**	**Nikolich**	**5**	**08:25 AM**
5.02	**II**	**LMSC Chair Status, SEC elections & appointments**	**-**	**Nikolich**	**10**	**08:30 AM**
5.03	**II**		**-**		**0**	**08:40 AM**
5.04	**II**	**Standards Board actions**	**-**	**Nikolich**	**5**	**08:40 AM**
5.05	**II**	**Meeting fee waiver**	**-**	**Nikolich**	**2**	**08:45 AM**
5.06	**II**	**Awards**	**-**	**Nikolich**	**2**	**08:47 AM**
5.07	**MI**	**Collocate SEC and Standards BOG meetings in July 2002**	**-**	**Nikolich**	**5**	**08:49 AM**
5.08	**MI**	**Approval of LCD projector purchase**	**-**	**Rigsbee**	**5**	**08:54 AM**
5.09	**DT**		**-**		**0**	**08:59 AM**
5.10	**DT**	**GET802 program update**	**-**	**Walker**	**5**	**08:59 AM**
5.11	**DT**	**IEEE PR - recommendations for improvement**	**-**	**Staff**	**5**	**09:04 AM**
5.12	**DT**	**Drafts for Sale update**	**-**	**Staff**	**5**	**09:09 AM**

5.13	**DT**	**IEEE Trademark policy**	**-**	**Walker**	**10**	**09:14 AM**
5.14	**DT**	**IEEE Certification Initiative**	**-**	**Walker**	**10**	**09:24 AM**
5.15	**DT**	**RAC Update**	**-**	**Jeffree**	**5**	**09:34 AM**
5.16	**DT**	**Meeting planner RFP update**	**-**	**Rigsbee**	**5**	**09:39 AM**
5.17	**DT**	**802.11 interim meeting issues: quorum**	**-**	**O'Hara**	**10**	**09:44 AM**
5.18	**DT**		**-**		**0**	**09:54 AM**
5.19	**II**	**802.16a to sponsor ballot (conditional)**	**-**	**Marks**	**2**	**09:54 AM**
5.20	**II**	**802.16c PAR to NESCOM**	**-**	**Marks**	**2**	**09:56 AM**
5.21	**II**	**802.16 tutorial on gigabit by radio**	**-**	**Marks**	**2**	**09:58 AM**
5.22	**II**	**802.15.3 Alternate PHY SG update**	**-**	**Heile**	**2**	**10:00 AM**
5.23	**II**	**Rules Changes - closing plenary**	**-**	**Nikolich**	**2**	**10:02 AM**
5.24	**II**	**Rules Changes - 2nd vice chair**	**-**	**Nikolich**	**2**	**10:04 AM**
5.25	**II**	**Rules Changes - standing committees**	**-**	**Hayes**	**2**	**10:06 AM**
5.26	**II**	**Rules Changes - additional criteria: coexistence**	**-**	**Hayes**	**2**	**10:08 AM**
5.27	**II**	**Rules Changes - interim plenary quorum**	**-**	**Nikolich**	**2**	**10:10 AM**
5.28	**II**	**Rules Changes - addition of email ballot process for WGs**	**-**	**Nikolich**	**2**	**10:12 AM**
		ADJOURN SEC MEETING	**-**	**Nikolich**		**10:30 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**

Motion to approve agenda

Move/Second: Heile/

7/0/1 Approved at 8:08 am

3.00 Approve minutes of previous meeting

Approved at 8:08 as part of consent agenda

4.00 Treasurer's Report – Grow

There is a small problem with the reconciliation of the November meeting. There is $400 too much (registration income) in the checking account, as compared to what the registration report indicates. Bob is working with F2F to understand and correct this. For the first time since becoming treasurer, our operating reserve now meets the requirements of Procedure 1 (75% of the amount to run a meeting). About to drop the Xerox invoice for November 99 from the contingent liabilities. The budget shows that the operating reserve decreases continuously, until it reaches approximately $50k at the end of 2003. We should look at controlling expenses or increasing the meeting fee to compensate.

The audit fee is approximately $5-6k. Bob has treated this as a non-extraordinary expense. He asked whether there is any objection by the SEC to consider it to be a normal and customary expense. Geoff suggests that we create a list of these normal and customary expenses that do not need SEC approval. Bob will create a proposed list by Thursday.

IEEE Project 802
Statement of Operations
November 2001 Meeting

November 2001 Meeting Income:		*Actual*	*Budget*	
179 Registrations@ $300	53,700			
757 Registrations@ $250	189,250			
Registrations@ $100	0			
10 Cancellations@ $50	500			
Subtotal	**243,450**	**243,450**	234,000	
Deadbeat Registrations		**300**	0	
Bank Interest		**171**	150	
Other			375	
TOTAL Income		**243,921**	234,525	

November 2001 Meeting Expenses:	*Actual*	*Budget*	
Audio Visual Rentals	**10,223**	7,000	
Bank Charges	**2**	30	
Copying	**5,201**	7,200	**
Credit Card Discount	**6,740**	6,552	*
Equipment Expense	**11,150**	8,000	
Get IEEE 802	**68,625**	67,500	
Meeting Administration	**55,830**	53,100	*
Networking	**0**	5,000	
Phone & Electrical	**2,137**	2,500	
Refreshments	**56,341**	35,100	
Shipping	**2,219**	2,448	
Social	**29,095**	36,000	
Supplies	**0**	0	
Other	**2,156**	2,000	
TOTAL Meeting Expense	**249,719**	232,430	
NET Meeting Income/Expense	**(5,798)**	2,095	
Expenses from prior meetings	**300**		
Expenses prepaid for current meeting	**9,200**		
10 March 2002 Operating Reserve	**148,065**		

* Actual charges are based on registration, budget is based on registration forecast.

** Reserve is sufficient for contingent liabilities of ~$9,000.

LMSC Budget

	2001				2002				2003			
	Hilton Head *Actual*	Portland *Actual*	Austin *Actual*		St. Louis *Budget*	Vancouver *Budget*	Kauai *Budget*		Dallas? *Budget*	San Fran? *Budget*	Albq. *Budget*	
Meeting Income:	***March***	***July***	***Nov***	***2001***	***March***	***July***	***Nov***	***2002***	***March***	***July***	***Nov***	***2003***
Registrations	1,094	1,019	936		900	850	825		800	750	700	
Preregistration fee	250	250	250		250	250	250		250	250	250	
On-site registration fee	300	300	300		300	300	300		300	300	300	
Average Fee	265	263	260		255	255	255		255	255	255	
Subtotal	290,200	267,550	243,450	801,200	229,500	216,750	210,375	656,625	204,000	191,250	178,500	573,750
Bank Interest	343	336	171	850	150	150	150	450	150	150	150	450
Other	49,109	4,700	300	54,109	375	375	375		375	375	375	
TOTAL Income	339,652	272,586	243,921	856,159	229,650	216,900	210,525	657,075	204,150	191,400	178,650	574,200
Meeting Expenses:	***March***	***July***	***Nov***	***2001***	***March***	***July***	***Nov***	***2001***	***March***	***July***	***Nov***	***2001***
Audio Visual Rentals	10,482	7,238	10,223	27,942	8,000	8,000	8,000	24,000	8,320	8,320	8,320	24,960
Bank Charges	1	3	2	6	35	35	35	105	40	40	40	120
Copying	2,267	5,987	5,201	13,455	6,000	6,000	6,000	18,000	5,500	5,500	5,500	16,500
Credit Card Discounts	8,334	7,667	6,740	22,742	6,426	6,069	5,891	18,386	5,712	5,355	4,998	16,065
Equipment Purchase	704	25,406	11,150	37,259	8,000	8,000	8,000	24,000	9,000	9,000	9,000	27,000
IPF/Escrow/FreeStds	215,100	78,000	68,625	361,725	67,500	63,750	61,875	193,125	60,000	56,250	52,500	168,750
Meeting Planners	62,715	49,291	55,830	167,836	55,500	53,250	52,125	160,875	52,800	50,500	48,200	151,500
Network	0	4,300	0	4,300	10,000	10,000	10,000	30,000	10,000	10,000	10,000	30,000
Phone & Electrical	1,952	51	2,137	4,139	2,000	2,000	2,000	6,000	2,100	2,100	2,100	6,300
Refreshments	62,978	44,901	56,341	164,220	40,500	35,700	45,375	121,575	36,000	37,500	28,000	101,500
Shipping	2,448	775	2,219	5,442	3,000	3,000	3,000	9,000	3,100	3,700	3,700	10,500
Social	35,332	22,383	29,095	86,809	34,200	31,450	41,250	106,900	16,800	15,750	14,700	47,250
Supplies	0	0	0	0	0	0	0	0	0	0	0	0
Other	8,098	2,889	2,156	13,143	5,954	500	2,000	8,454	4,823	500	2,000	7,323
TOTAL Meeting Expense	410,411	248,890	249,719	909,020	247,115	227,754	245,551	720,420	214,195	204,515	189,058	607,768
NET to Operating Reserve	(70,758)	23,696	(5,798)	(52,860)	(17,465)	(10,854)	(35,026)	(63,345)	(10,045)	(13,115)	(10,408)	(33,568)
Opening Reserve	81,418	131,034	153,853		148,065	130,600	119,746		84,720	74,676	61,561	
Projected Closing Reserve	10,659	154,730	148,055		130,600	119,746	84,720		74,676	61,561	51,153	
Projected Closing Cash	(541)	152,730	146,055		128,600	117,746	82,720		72,676	59,561	49,153	

5.00 DT Schedule for week and Friday Plenary (1pm - 5pm) - Nikolich 5 08:20 AM

Moved: To set the time of the March 2002 closing SEC meeting to be Friday from 1pm to 6pm
Moved: Tony/Bob O
Passes: 8/0/1

Moved: To set the time of the July 2002 closing SEC meeting to be Friday from 8am to 1pm
Moved: Roger/Geoff

The reason to move away from Thursday night was to give the working groups more time to work. This does not accommodate this need. There are 300-400 attendees that have expressed a desire to work on Friday. There has been discussion that the SEC week start earlier, to give the WGs the time they need.

Move to amend: strike "8am-1pm" to "1pm-5pm"
Moved: Bob O/Buzz
Passes: 6/2/2

Vote on main motion as amended: 7/2/1 passes

5.01 II Tutorials - Nikolich 5 08:25 AM

Full slate of tutorials

Tutorials

- Monday 6:30-8:30PM
  - High Speed Mobile Wireless Data
    - Potential ECSG request at Friday SEC meeting
- Monday 8:30-10PM
  - Dedicated Short Range Communications
- Tuesday 6:30-8PM
  - Gigabit Millimeter Wave Radio
- Tuesday 8-9:30PM
  - Ultra wide band communications

5.02 II LMSC Chair Status, SEC elections & appointments - Nikolich 10 08:30 AM

Paul was approved by the Computer Society through the end of this meeting. Everyone is up for reelection at this meeting. Paul is nominated for LMSC chair by Bob Heile (seconded by Tony)

Paul proposes that there be a second vice chair, because of the increasing work load of the LMSC. Bob G asks why there is still a regulatory ombudsman when there is a "wireless" vice chair. Paul said that the two vice chairs are not "wired" and "wireless", but internal and external focused. Discussion at the rules meeting indicates that the ombudsman position is likely to be replaced by a TAG. Geoff points out that the chair may appoint as many positions as he desires. But the rules mu st be changed to grant them voting rights on the SEC.

Paul points out that he would like to keep the 2nd vice chair as a non-voting position until the rules are changed to enfranchise this position. The 2nd vice chair position would not continue if such a rules change were not approved.

SEC Election Process

- SEC re-affirmation process
  - Current Working Group Chairs should announce to their Working Groups that normal two-year elections are being held per the operating rules, inform the Working Group if they wish to be considered as a candidate for re-election and solicit new candidates.
  - A formal election within the Working Group should occur during the plenary week and a statement on the Working Groups selection for Chair and Vice Chair(s) be reported to the SEC at their plenary closing meeting upon which they must be confirmed by the SEC.
  - The newly elected/affirmed occupants of positions will formally take responsibility at the end of the March plenary session.
  - Each Working Group should also elect a Vice Chair or Vice Chair(s). A Working Group may have more than one Vice Chair, if circumstances warrant and to provide more leadership candidates.
  - If there are additional candidates for IEEE 802 LMSC Chair they should notify Bob O'Hara, the recording secretary by Monday morning, March 11, in order that the process proceed smoothly in an open manner.

SEC Election Process

Elected/appointed officers to remain in office until Mar-2004

- All WG Chairs are elected/reaffirmed in Mar-2002 by their WGs
  - 802.1, 802.3, 802.11, 802.15, 802.16, 802.17 (6 positions)

- SEC Chair (elected) and appointees (affirmed) by the SEC
  - Elected Nominee: Chair-Paul Nikolich,
  - Appointed Nominees: 1st Vice Chair-Geoff Thompson, 2nd Vice Chair-Mat Sherman, Exec Secy-Buzz Rigsbee, Recording Secy-Bob O'Hara, Treasurer-Bill Quackenbush, Regulatory Ombudsman-Carl Stevenson (6 positions)

- Elected/affirmed SEC members assume offices at the close of the March 2002 Plenary Session

5.03	**II**		**-**		**0**	**08:40 AM**
5.04	**II**	**Standards Board actions**	**-**	**Nikolich**	**5**	**08:40 AM**

802.16 approved, 802.15.1 recirculation recommended. P802a PAR approved, P802.16a revised PAR approved. P802.1s PAR extension approved. 802.4-1990 (1995), 802.4h-1997 standards withdrawn.

5.05	**II**	**Meeting fee waiver**	**-**	**Nikolich**	**2**	**08:45 AM**

Jerry Walker, Jennifer Longman, Angela Ortiz fee waived.

5.06	**II**	**Awards**	**-**	**Nikolich**	**2**	**08:47 AM**

Awards

- Certificates of Appreciation.
  - 802.11d-2001: Arnoud Zwemmer, Johnny Zweig, Chris Zegelin, Darwin A. Engwer, and Ken Clements
  - 802.11b-1999/Cor 1-2001: Bob O'Hara
- Plaques
  - 802.5v: John Messenger, Simor Harrison, Andy Fierman, Karl Reinke, Neil Jarvis, Richard Knight
  - 802.11b corrigendum: Stuart Kerry, Carl Anderson, Victoria Poncini
  - 802.11d: Stuart Kerry, Bob O’Hara
  - 1802.3: Geoff Thompson, David Law
  - 802-2001: Bill Lidinsky, Alan Chambers

5.07 MI Collocate SEC and Standards BOG meetings in July 2002 - Nikolich 5 08:49 AM

5

Some of the matters LMSC has vital concern with were discussed in closed session. There was concern expressed that there is no need to have a meeting co-located with the BoG, if they are not going to have a commitment to openness. Geoff to draft a letter indicating our desires for an open meeting with the BoG.

Co-location of 802 with BoG

- BoG has approached IEEE 802
  - Wish to co-locate the July BoG meeting with July 2002 IEEE 802 plenary
  - BoG meetings to take place Fri & Sat
  - Suggestion that IEEE 802 SEC meet with BoG at the end of the Plenary Session Friday afternoon
  - To be followed by an 802/BoG social event

5.08	**MI**	**Approval of LCD projector purchase**	**-**	**Rigsbee**	**5**	**08:54 AM**

Moved: Approve the purchase of 1 large and 2 small projector to support our current meeting requirements. Expenditure totals $10,950.
Moved: Buzz/Bob G

There is concern expressed about approving capital expenditures after the fact.

Vote: 6/1/1 passes

5.09	**DT**		**-**		**0**	**08:59 AM**
5.10	**DT**	**GET802 program update**	**-**	**Walker**	**5**	**08:59 AM**

IEEE

Get IEEE 802™ Update 3

IEEE Standards Association

Jerry Walker, Director

IEEE 802 SEC

11 March 2002

St. Louis, Mo

Background

- IEEE-SA moving from sale of product to fee-for-services business model
- SDOs, trade associations, and consortia making products available “for free”
  - supported by membership fees
- IEEE 802® Standards Committee in competition with industry groups, e.g., IETF, ETSI
  - purchasers/users demanding similar treatment
  - low or no-cost access to standards
  - cost of standards prohibitive for start-up businesses

IEEE-SA Board of Governors Resolution

*The IEEE-SA BOG formally endorses staff attempts to gain increased industry support for standards delivery through a selective and well-crafted solicitation of corporate sponsorship for the public availability of IEEE 802® standards for three years as a **test case** for a new business model that could be fully implemented.*

- **Gain increased industry support for IEEE-SA standards delivery**
- **Another test case for the future IEEE-SA business model**

11/00

IEEE 802®/IEEE-SA Partnership Formed

- *3-year pilot program*
  - Public availability of individual IEEE 802® Standards
  - PDF format only
  - Effective 15 May 2001.
  - IEEE 802® contributes $75/person/meeting since July 2000
  - Individual PDFs available 6 months after publication
  - IEEE-SA developing corporate solicitation
  - Program labeled: “Sponsored by Industry”
  - Annual review for viability

3/01

Activity (as of 31 Jan 02)

- Over 150,000 hits monthly
- Over 600,000 downloads
  - Peaked third week (30,055)
  - 17,000 weekly
- California leading
  - Japan, China, Germany, Taiwan, India follow
- Most popular standards
  - 802.3, 802 (Base), 802.11, .11a, .11b

Financial Status (as of 31 Jan 02)

- **Revenue** (via Sponsorship)
  - IEEE 802® Plenary - $362K
  - Individual contributions - $2K
  - Letter of Intent - $5K
  - Print down 40%
  - PDF down 32%
  - Pre-May 15 revenues kept these from being lower leading to need to change program

Business Strategy

- **Customer Relations/Retention**
  - Enhanced Online Subscription value
- **Aggressive sponsorship pursuit**
  - Economic climate or not
  - Began January 2002
  - c.$500,000 required for program continuance
- **Attract and retain customers**
  - Use web site to promote IEEE, IEEE-SA, IEEE 802® Plenary and new standards, drafts and products
  - Identify ways to keep customers from delaying or deferring purchases

Solicitation

- Over 800 letters mailed
- Over 70 contacts made
  - Represents 44 corporations
- 12 “Declines”
  - Budget, no interest, already participating
- Online subscribers positive to expanded availability
- Many still considering

Recommendations

- Continue solicitation through 30 June 2002
  - Includes telephone follow up
- Extend PDF availability to twelve (12) months after publication
- Decide future based on feedback
  - Full support – continue as initially defined
  - Positive but delayed support – continue (revised)
  - Negative or less than needed - terminate

IEEE-SA BOG Continues Program

- **Motion:**
  - **Continue the pilot Get IEEE 802™ program through 30 June 2002 but effective 1 March 2002 revise the terms for PDF availability from six months to twelve months until such time as the pilot is fully supported by industry or terminated.**

Going Forward

- How can IEEE 802® plenary help the solicitations?

A request was made that the SEC be shown the real numbers to support the statements made that the 802 contributions do not cover the loss of document sales. Jerry states there is a serious situation going into 2002 with shortfall of revenue from document sales. A meeting will be scheduled this week to discuss this issue.

A point was raised that there might be some small fee ($5) charged for a download before general free distribution. Given the number of downloads, this would generate significant revenue. Jerry points out that this would cost $30 to collect.

Geoff asked if IEEE has unilaterally changed the agreement prior to the end of the one year review period. The answer was "yes".

Moved: In view of the BoG's unilateral decision and implementation, well before the annual review date, to change the "paid" period for the GET802 program from 6 months to 12 months, the 802 SEC is no longer prepared to provide financial to this program. As of the start of the March 802 plenary, the 802. treasurer is instructed to cease our financial support for the program.
Moved: Tony/Geoff
Vote: 10/0/0 passes.

A meeting to discuss the program is set for 1pm Tuesday.

5.11 DT IEEE PR - recommendations for improvement - Staff 5 09:04 AM

Angela Ortiz presented the information on this program. First concern is to find a single person to serve as a contact person between the PR department and the 802 chairs. It is important that this person be technical and have knowledge of the impact of standards on the market. PR needs to coordinate more with the WG chairs on the issues that will come out of the meetings. The PR group needs 2 weeks notice to write up article and get them back to the WGs for review and approval. Angela asks that Bob O'Hara forward any notes on issues from the WGs to Karen McCabe.

Paul asks that Angela come to the Friday meeting with a more formal proposal for how 802 will interface with the PR group.

5.12 DT Drafts for Sale update - Staff 5 09:09 AM

Angela Ortiz reports that the challenges and issues IEEE has searching for products are out of their hands. She agrees that this is an unacceptable situation. It has been forwarded to the IEEE senior management. There may be a communication problem in customer service differentiating the IEEE standards, drafts, and GET802 program. Paul asks that Roger participate in these discussion and be the SEC point of contact for these issues.

5.13 DT IEEE Trademark policy - Walker 10 09:14 AM

IEEE Trademark Usage and Conformance Statement Policy and Certification Activity Research

Jerry Walker, Director
IEEE802® SEC
St Louis, Mo
11 March 2002

Today's Update

- Background
- Actions
- Results
- Recommendations

Scope

- ...To produce requirements document(s) that can be used to establish, operate and maintain certification schemes...
  - for internal guidance
  - as basis for RFPs/RFQ
  - to educate or promote
  - To address multiple types of programs

Request Example

We are a professional cable manufacturer, and now, we are devoting to make communication cables as IEEE, USB, Cat.5, and DVI cables.

We want to print on our cable, such content as "IEEE-1284" or "IEEE-1394". Although we are sure this cable can meet IEEE performance, we are not sure if any authorization from IEEE is needed. If necessary, please would you advise us how to achieve this authorization?

IEEE Standards in the news

WIRELESS

Unplug at Your Own Risk

Networks may be more vulnerable to security breaches than you ever imagined

BY ANNA DORFMAN

At July's Def Con 9 gathering in Las Vegas, Internet security experts stepped forward to voice concerns about the vulnerability of current wireless networks. As a whole, the group agreed that the Wired Equivalency Protocol (WEP), the default 40-bit encryption scheme built into 802.11 standard wireless local area networks (LANs) to provide the same security capabilities found in wired networks, was woefully inadequate; attendees had found that its password systems could be hacked into in less than 30 seconds.

"Wireless networks are being more widely deployed [especially when a small one today can be installed for a few hundred dollars]. The advantage is that people don't have to run cables around walls, assign specific connections to people," explains Dr. Ian Goldberg,

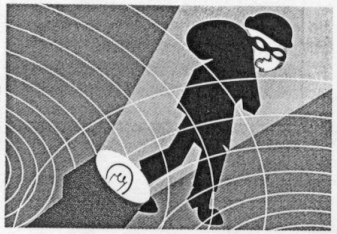


ILLUSTRATION STEVE MORRIS

a leading cryptographer and chief scientist at Zero-Knowledge Systems, a seller of privacy and security technologies.

For a true security
ays, companies must exp
tual private networks (VP
of the public communi
rather than a limited s
company-owned or lease
data before sending it ou
developed three VPN pr
year Qwest rolled out bo
VPN and a network VPI
Security (IPsec), a devel
security at the network c
layer of network commu
weapon against possible
the VPN level.

As far as security go
important to acknowledg
issues of wireless networ
those of wired networks.
tion, and authorization," s
director of technical
Communications Securit
supplier of Internet secur
ing the popular SSH IPsec
ing to make sure users ha
the network, and you wan
really are who they say they are."

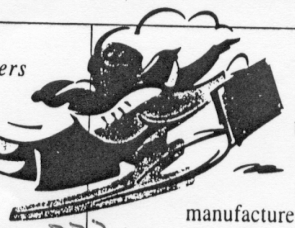
The perception problem here, David adds, is "the feeling of anonymity" and isolation when you're on a cell phone or using a PDA: "People don't realize that their signals—radio signals—can be eavesdropped."

Wireless technology enables business-on-the-fly

by Amy Zuckerman

A new Internet standard is about to b
rolled out that will bind the Interne
with the pass-through toll and high-
way clearance industry. Technology
that marries intelligent transportation
systems (ITS) and the web is close to
reality after an Aug. 24 vote by the
*American Society for Testing Materi-
als* (ASTM) (www.astm.org) to back
a national standard for **dedicated
short-range communication**.

The new standard will not only
provide national interoperability for

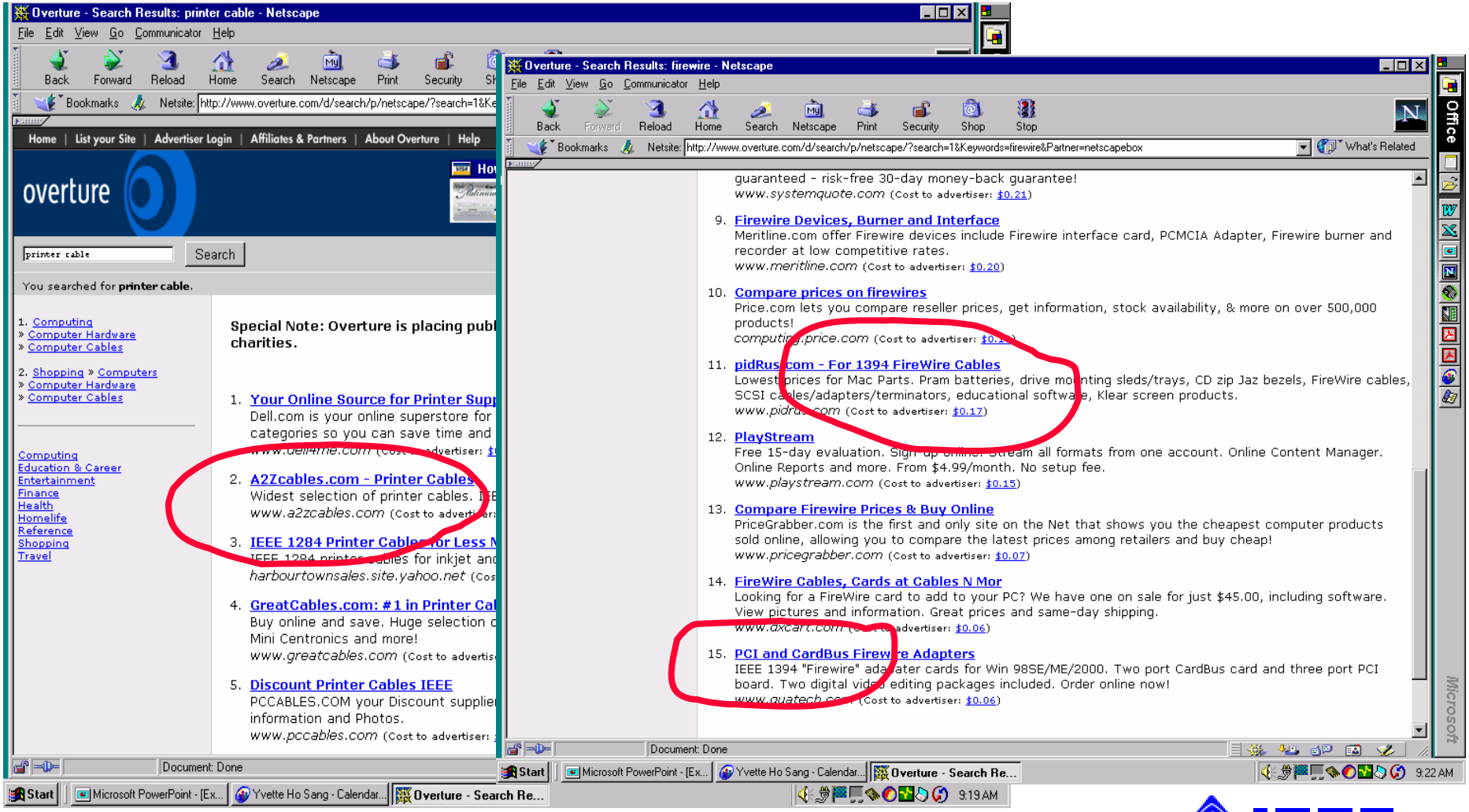


and Electronic Engineers (IEEE) standard **802.11a**, which is already being used to create private networks. The ASTM committee has slightly altered this standard and created **802.11a/RA** (road access).

802.11a/RA allows for easy convergence with the Internet. According to Armstrong, it has a transmission range of 3,000 feet (one

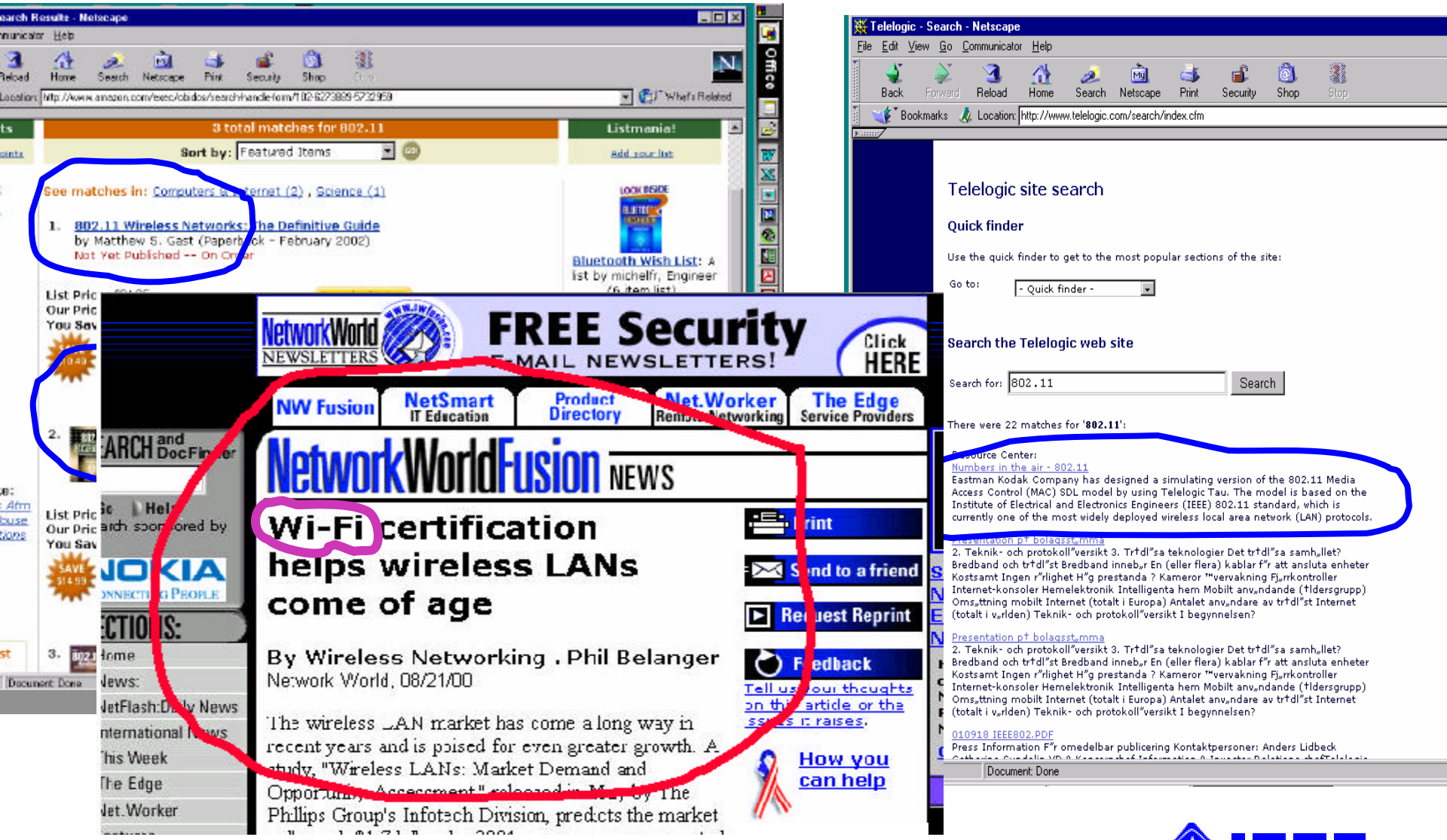
On a globa
level, the ne
U.S.-wide
standard coul
pit America
manufacturers against Eu
ropeans in world markets. Althoug
there may be resistance from Japa
— which has a built-in ITS infra
structure based on alternative tech
nology — U.S. standards officials be
lieve that Asian buy-in will occu
over the next few years, particularly

Branding and product liability concerns



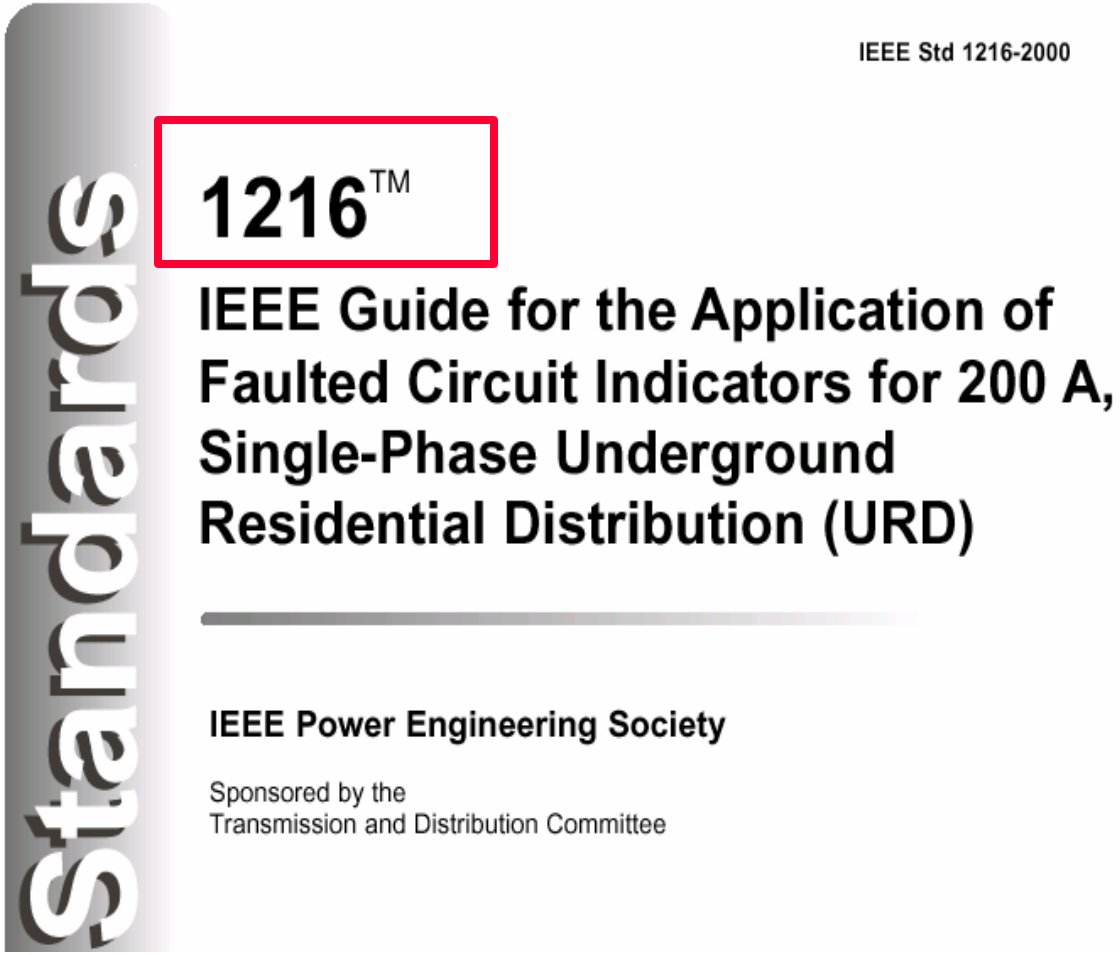
IEEE

Misuse of intellectual property



IEEE

What are we doing?



The IEEE and its designees are the sole entities that may authorize the use of IEEE-owned certification marks and/or trademarks to indicate compliance with the materials set forth herein.

IEEE

Trademark Policy Rationale

- IEEE name and its marks are its most valuable assets.
  - Failure to ensure they are properly used confuses the marketplace and may cause the marks to fall into the public domain
  - Currently, the marketplace is replete with inappropriate uses of IEEE name and mark.
- -Trademark Usage and Conformance Statement Policy
  - approved by IEEE-SA Board of Governors and
  - currently being inserted in every newly published standard.

Front Matter Statement

…It is not permissible to use the standard number alone or with "IEEE" to indicate conformance or compliance with the associated standard. The user of the Standard should contact the Manager, Standards Licensing and Contracts, Standards Activities department, for information concerning issues regarding indicating product compliance with an IEEE Standard. To represent that a product has been designed to meet an IEEE standard, it is permissible to state that "the product has been engineered, designed or manufactured to meet the requirements of "IEEE Std xxxx—200xTM." However, its *not* permissible to state or refer to a product as "xxxx compliant," "xxxx certified," "IEEE xxxx conformant," "IEEE xxxx certified,"or the like, unless the user has obtained a license from the IEEE Standards Activities Department.

Trademark Usage/Conformance Statement Policy

- **Q1) Why do I need to use the ™ or ® when using IEEE trademarks?**

- Many people are not aware that the number designations associated with our standards products, such as 1512, 488, etc. are considered trademarks of the IEEE. Given that these marks have what is called 'secondary meaning' and are associated with a specific product, they are considered trademarks. Some of these marks, e.g. POSIX® and 802® are officially registered with the U.S. Patent and Trademark Office. Federal, state and common law requires that trademark owners ensure that their marks are properly used or, they risk losing the secondary meaning behind the mark, causing the mark to fall within the public domain.

Trademark Usage/Conformance Statement Policy

- **Q2: Why is it necessary to use the trademark symbols in every mention within a standard?**
-
- **A. The IEEE decided to use the symbols in every instance within a standard due to the fact that users quite often excerpt portions of standards. If we did not use the symbols in every instance, we could not be sure that our marks would be recognized as IEEE trademarks when excerpted.**

Trademark Usage/Conformance Statement Policy

- **Q3: Why do I need to obtain permission to use IEEE trademarks in a statement where I am claiming a product conforms/complies with an IEEE standard?**
-
- **A. Being that trademarks are directly associated with the trademark owner, the unregulated use of IEEE trademarks in compliance statements may cause the IEEE to open itself up to legal liability, should a product that claims conformance/compliance be, in fact, out of conformance/compliance with the standard. Therefore, the IEEE must carefully regulate who is using their name and/or marks to make such claims in the marketplace.**

Trademark Usage/Conformance Statement Policy

- Q4: Does the IEEE have a program wherein product manufacturers may obtain permission to make such conformance/compliance statements?
- A. Not at present. However, the IEEE is diligently working to establish such a program.
-
- Q5: Is this new Trademark Usage/ Conformance Statement policy valid for all IEEE standards or, are just a few standards going to be effected?
- A. The IEEE Standards Board of Governors recently approved the policy for all IEEE standards. The policy shall be included within the front matter of all future IEEE standards.

Trademark Usage/Conformance Statement Policy

- Who do I contact to ask questions, make comments regarding the implementation of this new policy?
-
- A. You may call the Manager, Standards Licensing and Contracts, Standards Activities Department at (732) 562-3804 or, via email at c.stanziola@ieee.org.

A question was raised as to the removal of a statement from the IEEE-SA web site concerning the use of draft standards to build equipment or claim conformance. Jerry had no infomation on this item.

A point was made that the new statement in the front matter is in opposition to the PICS in the standards.

Paul set a meeting from 2-3pm to discuss this issue in detail. Stuart will be the lead.

5.14 DT IEEE Certification Initiative - Walker 10 09:24 AM

Current Programs

- IEEE POSIX®
- SyncML

Team

- **Ben Johnson - Champion**
- **Jerry Walker – Leader (Business Development)**
- **Anita Ricketts - Operational issues (IEEE POSIX)**
- **Claudio Stanziola - Marks, IPR, Licensing, Liability, and Tax status issues**
- **Peter Lefkin - IEEE-ISTO**
- **Yvette Ho Sang - Publishing interface**
- **Jane Pink - NCC (consultant)**

Timeframe and Deliverables

- 15 August 2001 to 15 February 2002
  - Statement of Work
  - Request for Quotation
  - Independent Contractor Agreement
  - Project Initiation Document
  - Certification Program Types
  - Standards Inventory
  - Market Research Report
  - Requirements Document

Results

- General
  - Market research findings
  - Standards Inventory
- Specific
  - Types of Certification Programs
  - Pre-assessment questionnaire
  - Tasks per program type
  - Costs per program type
  - Estimates per program type
  - Business Models per program type

Market Research Demographics

- 43 contacts by mail/telephone
- 26 Nov 01 thru 3 Dec 01
- 30 US, 12 Europe
- IT and Telecom sectors
  - LMAN, VHDL, HLA, SWE, etc
- IEEE-SA staff and leadership

Market Research Findings

Use IEEE in company literature	N=19
Value use of IEEE name	N=19
Perceive Misuse of IEEE name	N=18
Support certification program	N=20
Would use certification program	N=12
Interested in independent test suite	N=21
Support IEEE as Certification Authority	N=23
Want mark and test report	N=16
See IEEE role as problematic	25%

Standards Inventory

- Most (800) of our standards contain language requiring “compliance”, “conformance”, or compatibility with the standard
- Use of the language is inconsistent
- IT and telecom standards include Implementation Conformance Statements
- Indicates needs for guidance in proper use and interpretation of terms in standards.

Preferred Program Types

- **Group Interoperability (IOP)Test**
  - Third party certification based on independent tests and group test events where vendors demonstrate IOP
- **Reference Interoperability (IOP)Test**
  - Vendor self test thru use of reference pool products or servers under the control of the Certification Authority
- **Vendors Self-test**
  - Vendor self test and submittal to Certification Authority

Pre-Assessment Questionnaire

- To assist in deciding on form and needs of a specific program
- To assist in responding to inquiries for “conforming to IEEE standards”
- To define the parameters and business model for a specific program

Recommendations

- Put in place an joint oversight committee
- Agreement between ISTO and SA to address professional services and licensing IEEE marks
- Send out communication to address concerns
- Develop Business Plans for each program
- Develop Guidelines for terms use by WGs
- Expand research to other technologies

Summary

There is a role for IEEE!

- Any Questions?
- Discussion

A request was made to get additional information on the plans for certification programs, beyond what is in the presentation.

Meeting from 3-4pm Tuesday to discuss this in more detail.

5.15	**DT**	**RAC Update**	**-**	**Jeffree**	**5**	**09:34 AM**

802 representatives are Geoff and Mick Seman.

5.16	**DT**	**Meeting planner RFP update**	**-**	**Rigsbee**	**5**	**09:39 AM**

The current statement of work is out of date and needs major overhaul. Buzz and Dawn will work on this and present it to the SEC before the next plenary.

The current contract expires after this meeting. There is a provision in for automatic renewal for a year, if no action is taken by the SEC.

Meeting Wednesday at 10am to discuss the statement of work.

5.17	**DT**	**802.11 interim meeting issues: quorum**	**-**	**O'Hara**	**10**	**09:44 AM**

An appeal of the process followed by 802.11 at their January interim meeting was presented. Discussion of the process of the 802.11 WG at their January 2002 meeting followed.

Moved: That SEC uphold and affirm the validity of the appeal to the 802.11 process by Bob O'Hara. The process was not in accordance with the 802 procedures. The remedy dictated is: The remedy is that the results of the flawed process shall be subject to approval by the 802.11 working group in session at the March 2002 Plenary as a technical vote.
Moved: Geoff/Tony
Vote: 7/2/1 passes.

5.18	**DT**		**-**		**0**	**09:54 AM**
5.19	**II**	**802.16a to sponsor ballot (conditional)**	**-**	**Marks**	**2**	**09:54 AM**
5.20	**II**	**802.16c PAR to NESCOM**	**-**	**Marks**	**2**	**09:56 AM**
5.21	**II**	**802.16 tutorial on gigabit by radio**	**-**	**Marks**	**2**	**09:58 AM**
5.22	**II**	**802.15.3 Alternate PHY SG update**	**-**	**Heile**	**2**	**10:00 AM**

IEEE P802.15
Wireless Personal Area Networks

Project	IEEE P802.15 Working Group for Wireless Personal Area Networks (WPANs)	
Title	**AltPHY Study Group Opening Report March 02**	
Date Submitted	11 March 2002	
Source	[Rick Roberts] [XtremeSpectrum, Inc.] [8133 Leesburg Pike, Suite 700 Vienna, Va. 22182	Voice: [703.269.3043] Fax: [703.749.0248] E-mail: [rroberts@xtremespectrum.com]
Re:		
Abstract		
Purpose		
Notice	This document has been prepared to assist the IEEE P802.15. It is offered as a basis for discussion and is not binding on the contributing individual(s) or organization(s). The material in this document is subject to change in form and content after further study. The contributor(s) reserve(s) the right to add, amend or withdraw material contained herein.	
Release	The contributor acknowledges and accepts that this contribution becomes the property of IEEE and may be made publicly available by P802.15.	

IEEE802.15.SG3a Opening Report

1. 802.15.SG3a met for two sessions at the Dallas interim.

2. The total attendance between the two sessions was 36 different persons.

3. Heard 3 application proposals:
    - Doc 02047r0, Mary DuVal, TI
    - Doc 02031r0, Pierre Gandolfo, XtremeSpectrum
    - Doc 02043r0, Masa Akahane, Sony

4. 802.15.SG3 will be meeting for 6 sessions at the St. Louis Plenary.

5. We will be hearing 5 application proposals:
    - Doc 02xxxr0, Jay Bain, Time Domain
    - Doc 02119r0, Gadi Shor, Wisair/Philips
    - Doc 02xxxr0, Jim Allen, Kodak
    - Doc 02139r0, Chuck Brabenac, Intel
    - Doc 02xxxr0, Jason Ellis, Atomic General

6. Documents to be initiated (started) during St. Louis Plenary
    - Application Summary Report
    - PAR & 5C
    - Requirements
    - Selection Criteria

7. Score card so far against 5C …

1. Broad Market Potential

- Industry participation (8 Application Presentations)

2. Compatibility

- Supplemental PHY to 802.15.3
- RF coexistence - TBD (but required)

3. Distinct Identity

- Application Presentations posturing higher data rates than any current 802 PHY

4. Technical Feasibility

- TBD

5. Economical Feasibility

- TBD

5.23 II Rules Changes - closing plenary - Nikolich 2 10:02 AM

The following changes are proposed to the operating rules with respect to opening and closing meeting times.

March 2002 Plenary Session
LMSC Rules Meeting Sunday March 10, 2002 7-8PM

Author: Paul Nikolich Date: March 10, 2002
Revision: 1

Purpose:
Rules Change recommendation to set the times of the opening and closing SEC meetings at plenary sessions

Rationale:
At the March 2001 Plenary Session Howard Frazier proposed making the times of the opening and closing SEC meetings during plenary sessions 'flexible' with respect to absolute start times. He proposed a rules change (shown on the page two) which Paul Nikolich was to have initiated. The rules change process was never started, resulting in the closing SEC meeting times being set in an ad-hoc manner (March, Fri 8-12PM; July, Fri 3-7PM; November, Fri 3-7PM; March 02, Friday 1-6PM tentatively)

This rules change sets specific opening and closing meeting times. I will ask for input on these changes this week, make appropriate modifications, then make a motion for a rules change ballot at the Friday SEC meeting.

RULES CHANGE TEXT:

5.1.5.2.3 Executive Committee Representation

The chair of a hibernating Working Group may retain voting rights on the LMSC Executive Committee for three LMSC Plenary meetings after the WG has hibernated:

a) if the hibernating WG chair was the active WG chair when the WG hibernated, and
b) if the hibernating WG chair maintains attendance as per Retention (5.1.3.2) with attendance at both the Monday and Friday Executive meeting required for Plenary meeting attendance.

Deleted: Thursday

Procedure 5: Procedure for limiting the length of the IEEE LMSC Executive Committee meetings

7. The Monday Executive Committee meeting shall start at 8AM and shall end no later than 10:30AM on Monday morning and the Friday Executive Committee meeting shall start at 1PM and shall end no later than 5PM during the Plenary session.

Deleted: morning and Thursday evening
Deleted: s
Deleted: during the Plenary session
Deleted: at
Deleted: midnight on Thursday evening

Background from the SEC meeting minutes:

FROM THE March 2001 Monday SEC meeting (Hilton Head)

5.14 Move the Closing SEC meeting to Friday - Frazier
Frazier presents proposed text of rules change.

5.1.5.2.3 Executive Committee Representation
The chair of a hibernating Working Group may retain voting rights on the LMSC Executive Committee for three LMSC Plenary meetings after the WG has hibernated:
a) if the hibernating WG chair was the active WG chair when the WG hibernated, and
b) if the hibernating WG chair maintains attendance as per Retention (5.1.3.2) with attendance at both the <<DELETE<Monday>>> opening and <<DELETE<Thursday>>> closing Executive meeting required for Plenary meeting attendance.

Procedure 5
PROCEDURE FOR LIMITING THE LENGTH OF THE IEEE LMSC EXECUTIVE COMMITTEE MEETINGS
7. <<<DELETE<The Monday morning and Thursday evening Executive Committee meetings during the Plenary session shall end no later than 10:30AM on Monday morning and at midnight on Thursday evening.>>> The opening Executive Committee meeting shall have a duration of no greater than 2.5 hours. The closing Executive Committee meeting shall have a duration of no greater than 5 hours.

Carlo entertains motion to Move closing SEC meeting to Friday from 8:00am to 1:00 pm effective at the July, 2001 meeting, and initiate rules change to effect this change.
Frazier/Jeffree
Grow says that having been a voting member in dot3, dot5, dot6, dot11, he observes that every WG needs more task force meeting time.
Marks passes on comment from his WG members who feel that it would be more difficult to attend closing SEC meeting if it was held on Friday morning.
Rigsbee speaks in support of motion It would give the meeting planning staff and the Exec Sec'y more time to prepare financial data.
9/1/0 Approved

FROM THE March 2001 Friday meeting (Hilton Head)

4.29 II July Closing SEC meeting - Carlo
Move the SEC meeting to 4-8pm on Friday in July.
Marks/Hayes 9/2/0

FROM THE July 2001 Monday 8-10:30AM meeting (Portland) MINUTES

5.00 II Meeting Week Schedule - IEEE 802 - CARLO
Friday SEC meeting moved to 3-7pm. Paul asks for input on rules change to set closing SEC meeting time.
5.01 MI SEC Friday Meeting Time - CARLO
Friday SEC meeting is 3-7pm.

FROM THE July 2001 Friday 3-7PM meeting (Portland) MINUTES

4.18 MI November Closing SEC Meeting - Carlo 5 06:08 PM

Discussion: We will need a Sunday meeting for the rules change issue. Suggestion is to have a meeting from 1-5pm.

Comment: Surprised at how badly this meeting has gone. Doubt that moving the meeting to 1pm will make it any better. Suggestion: 3-7 (x2), 8am - noon.

Comment: if the SEC meeting is on Friday morning, this means that SEC committee meetings could be held Thursday evening.

Poll: 8-12: 5, 3-7:3, 1-5:0

Meeting time will be: 3pm to 7pm, since WGs are already planning on using the mornings for meetings.

FROM THE November 2001 Monday 8-10:30AM meeting (Austin)

5.00 DT Schedule for week and Friday Plenary (3pm - 7pm) - Carlo 5 08:20 AM

5.24	**II**	**Other Rules Changes**	**-**	**Nikolich**	**8**	**10:04 AM**

The following additional changes to the operating rules are proposed.

Other Rules Changes

- 2nd Vice Chair
- Quorum at interim meetings
- WG email ballot process
- Others (per Bob Grow's list)

- **Action:** assign preparation of above the rules changes to SEC members for rules change ballot request at Friday SEC meeting

Rules change for Wireless PARs

- Call for comments on WG reflectors (except .17) resulted in feedback from 7 persons
- Request to extent the requirement for addressing regulatory conformance to wired PARs
- Ballot result 2-6-0, 3 not voting
- Rules change meeting
  - Agreed with the change to make regulatory conformance for all PARs
  - Agreed to re-study the co-existence point and consider moving it to “Compatibility”

Rules change for SEC Standing Committee

- Call for comments on WG reflectors (except .17) resulted in feedback by 3 persons
- Mostly editorial, one on content
- Ballot result 2-4-2, 3 not voting
- Rules change meeting discussed the matter and agreed to discontinue the SEC SC proposal and to use a TAG for resolving the Regulatory work
- Regulatory group to study the details and come back with a resolution on Friday

5.25	**II**	**Rules Changes - standing committees**	**-**	**Hayes**	**2**	**10:06 AM**
5.26	**II**	**Rules Changes - additional criteria: coexistence**	**-**	**Hayes**	**2**	**10:08 AM**

The SEC meeting adjourned at 10:33am.

		ADJOURN SEC MEETING	**-**	**Nikolich**		**10:30 AM**
6.00	**PL**	**IEEE 802 PLENARY MEETING STARTS**	**-**	**Nikolich**	**60**	**11:00 AM**

1. MEETING CALLED TO ORDER

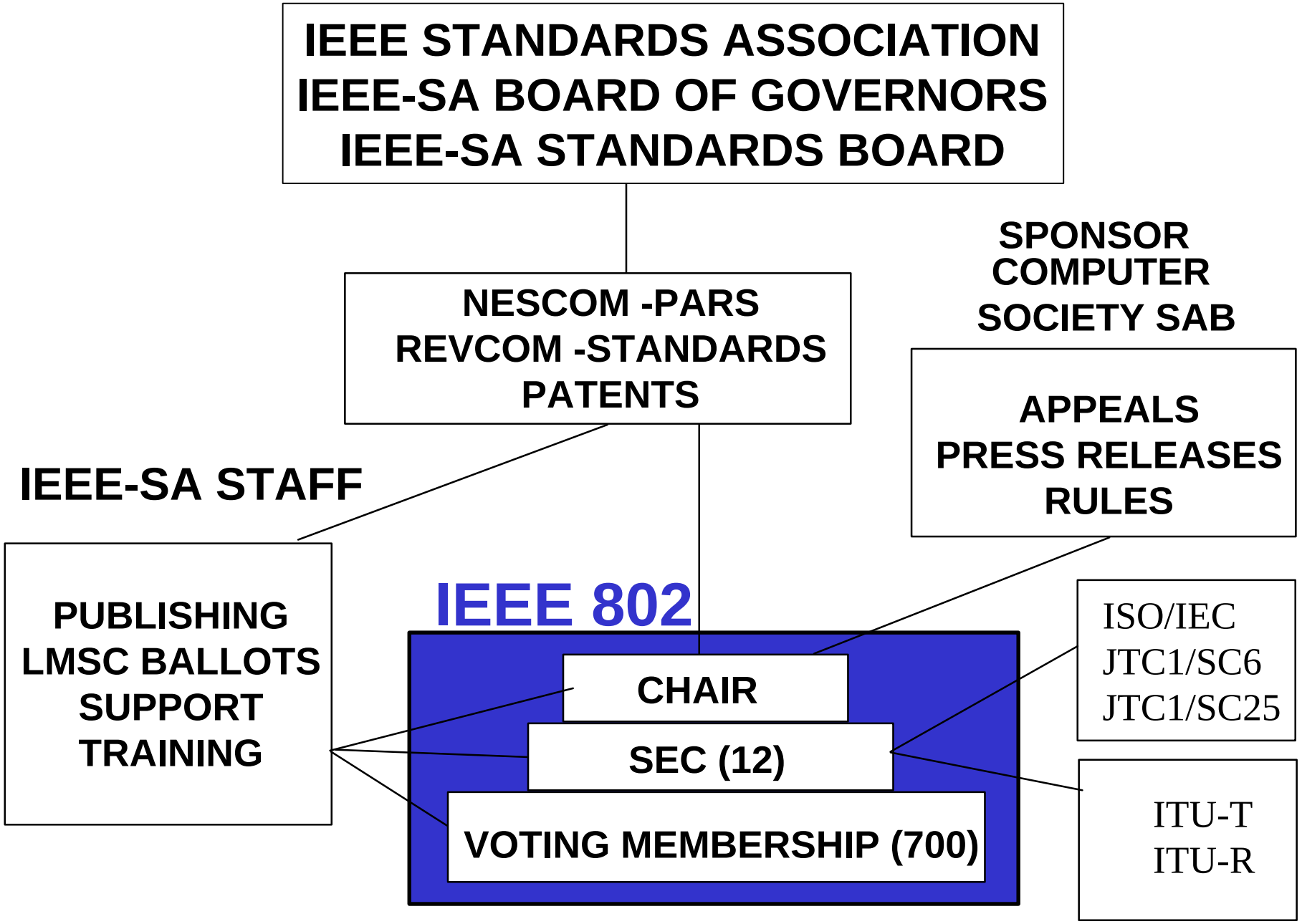
Paul Nikolich called the meeting to order at 11:10 am.

11:00 Welcome and Review of SEC Meeting – Nikolich

IEEE802 Monday Plenary Agenda

• 11:00	Welcome and Review of SEC Meeting	Nikolich
• 11:07	Sponsor Executive Committee Election Process	Nikolich
• 11.12	Voting Rules and IEEE 802 Operating Rules	Nikolich
• 11:15	Treasurer's Report	Grow
• 11:20	IEEE Project Editors Status Report	IEEE Staff
• 11:24	802.1 Architecture & Interworking	Jeffree
• 11:29	802.3 CSMA/CD (Ethernet)	Thompson
• 11:34	802.11 WLAN (Wireless Local Area Network)	Kerry
• 11:41	Regulatory Ombudsman	Hayes
• 11:44	802.15 WPAN (Wireless Personal Area Network)	Heile
• 11:48	802.16 BWA (Broadband Wireless Access)	Marks
• 11:53	802.17 RPR (Resilient Packet Ring)	Takefman
• 11:55	Tutorials	Nikolich
• 11:58	Meeting Arrangements	Rigsbee
• 12:00	ADJOURN	

• www.ieee802.org **SEC Meeting: 1-6pm, Friday**


IEEE STANDARDS ASSOCIATION
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SUPPORT
TRAINING
IEEE 802
CHAIR
SEC (12)
VOTING MEMBERSHIP (700)
ISO/IEC
JTC1/SC6
JTC1/SC25
ITU-T
ITU-R

IEEE 802 ORGANIZATION

SPONSOR EXECUTIVE COMMITTEE (SEC)

CHAIR
Paul Nikolich

WORKING GROUP CHAIRS

802.1
BRIDGING/ARCH
Tony Jeffree

802.3
CSMA/CD
Geoff Thompson

802.17
ResPackRing
Mike Takefman

802.11
WLAN
Stuart J. Kerry

802.15
WPAN
Bob Heile

802.16
BWA
Roger Marks

APPOINTED OFFICERS

VICE CHAIR
Paul Nikolich

RECORDING SEC
Bob O'Hara

EXECUTIVE SEC
Buzz Rigsbee

TREASURER
Bob Grow

REGULATORY
Vic Hayes

HIBERNATION

802.2 LLC (Dave Carlson)
802.4 Token Bus (Paul Eastman)
802.7 Broadband TAG (P Nikolich)
802.10 Security (Ken Alonge)
802.5 Token Ring (Bob Love)
802.6 DQDB (Jim Mollenauer)
802.9 ISLAN (D. Vaman)
802.12 Demand Priority (Pat Thaler)

DISBANDED

802.8 Fiber Optic TAG (C. Benson)
802.14 CATV (Robert Russell)

SEC Friday Meeting
1:00 – 6:00pm

No Thursday Midnight Meeting

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 – 2002-2004
  - 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

SEC Election Process

- SEC re-affirmation process
  - Current Working Group Chairs should announce to their Working Groups that normal two-year elections are being held per the operating rules, inform the Working Group if they wish to be considered as a candidate for re-election and solicit new candidates.
  - A formal election within the Working Group should occur during the plenary week and a statement on the Working Groups selection for Chair and Vice Chair(s) be reported to the SEC at their plenary closing meeting upon which they must be confirmed by the SEC.
  - The newly elected/affirmed occupants of positions will formally take responsibility at the end of the March plenary session.
  - Each Working Group should also elect a Vice Chair or Vice Chair(s). A Working Group may have more than one Vice Chair, if circumstances warrant and to provide more leadership candidates.
  - If there are additional candidates for IEEE 802 LMSC Chair they should notify Bob O'Hara, the recording secretary by Monday morning, March 11, in order that the process proceed smoothly in an open manner.

SEC Election Process

Elected/appointed officers to remain in office until Mar-2004

- All WG Chairs are elected/reaffirmed in Mar-2002
  - 802.1, 802.3, 802.11, 802.15, 802.16, 802.17 (6 positions)
- SEC Chair and appointees elected/reaffirmed
  - Elected Nominee: Chair-Paul Nikolich,
  - Appointed Nominees: 1st Vice Chair-Geoff Thompson, 2nd Vice Chair-Mat Sherman, Exec Secy-Buzz Rigsbee, Recording Secy-Bob O'Hara, Treasurer-Bill Quackenbush, Regulatory Ombudsman-Carl Stevenson (6 positions)
- New SEC members assume offices at the close of the March 2002 Plenary Session

Patents -IEEE-SA Standards Board Bylaws (Jan-2000)

6. Patents

IEEE standards may include the known use of patent(s), including patent applications, if there is technical justification in the opinion of the standards-developing committee and provided the IEEE receives assurance from the patent holder that it will license applicants under reasonable terms and conditions for the purpose of implementing 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 to all applicants without compensation or under reasonable rates, with reasonable terms and conditions that are demonstrably free of any unfair discrimination

6.3 Patents

The patent policy is set forth in clause 6 of the *IEEE-SA Standards Board Bylaw*s. Patent holders shall submit letters of assurance to the IEEE Standards Department (to the attention of the Staff Administrator, Intellectual Property Rights) before the time of IEEE-SA Standards Board review for approval. In the event that a patent may apply to a standard and a letter of assurance cannot be obtained, the working group shall refer this matter to the Patents Administrator in the IEEE Standards Department. Unless the letter of assurance is received from an individual within the issuing organization who has clear authority for intellectual property and/or legal matters, the IEEE Standards Department (Administrator, Intellectual Property) shall send a certified letter, return receipt requested, to the General Counsel of the issuing organization to confirm receipt of the letter of assurance and to ensure that the letter of assurance is factually correct and was submitted by an appropriate individual within the issuing organization. No response to this letter, other than the return receipt, is required. The IEEE will provide contact information about the patent holder upon request.

Patents - IEEE-SA Standards Board Operations Manual (Jan 2001)

6.3.1 Public notice

The following notice shall appear when the IEEE receives assurance from a known patent holder prior to the time of publication that a license will be made available to all applicants either without compensation or under reasonable rates, terms, and conditions that are demonstrably free of any unfair discrimination.

"Attention is called to the possibility that implementation of this standard may require use of subject matter covered by patent rights. By publication of this standard, no position is taken with respect to the existence or validity of any patent rights in connection therewith. The IEEE shall not be responsible for identifying patents for which a license may be required by an IEEE standard or for conducting inquiries into the legal validity or scope of those patents that are brought to its attention. A patent holder has filed a statement of assurance that it will grant licenses under these rights without compensation or under reasonable rates and nondiscriminatory, reasonable terms and conditions to all applicants desiring to obtain such licenses. The IEEE makes no representation as to the reasonableness of rates and/or terms and conditions of the license agreements offered by patent holders. Further information may be obtained from the IEEE Standards Department. "

If the IEEE has not received letters of assurance prior to the time of publication, the following notice shall appear:

"Attention is called to the possibility that implementation of this standard may require use of subject matter covered by patent rights. By publication of this standard, no position is taken with respect to the existence or validity of any patent rights in connection therewith. The IEEE shall not be responsible for identifying patents for which a license may be required by an IEEE standard or for conducting inquiries into the legal validity or scope of those patents that are brought to its attention."

Patents - IEEE-SA Standards Board Operations Manual (Jan 2001)

6.3.2 Submittal

Through the working group, the Sponsor chair shall request that known patent holders submit a statement either that the patent does not apply to the standard or that licenses will be made available without compensation or under reasonable rates, terms, and conditions. This assurance shall be obtained without coercion and submitted to the IEEE at the earliest practical time prior to the approval of an IEEE standard.

The IEEE encourages early disclosure to the working group of patent information that might be relevant to the standard. While standards may include the known use of patents if there is technical justification, the working group should not attempt to determine whether or not a patent applies. The working group shall accept the view of the patent holder.

6.3.3 Disclaimer

The IEEE shall not be responsible for identifying all patents for which a license may be required by an IEEE standard or for conducting inquiries into the legal validity or scope of those patents that are brought to its attention.

IEEE 802 WG Voting Rules

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.

Tutorials

- Monday 6:30-8:30PM
  - High Speed Mobile Wireless Data
    - Potential ECSG request at Friday SEC meeting
- Monday 8:30-10PM
  - Dedicated Short Range Communications
- Tuesday 6:30-8PM
  - Gigabit Millimeter Wave Radio
- Tuesday 8-9:30PM
  - Ultra wide band communications

2. SEC Election Process

Paul described the biennial SEC election process. He described that each of the working groups must elect a chair at this meeting. He identified the appointees he will appoint, if he is elected to be the SEC chair.

Paul Nikolich was nominated for chair at this morning's SEC meeting. He described his goals for 802.

Paul passes the thanks of himself and all of 802 for Jim's participation and chairmanship.

3. Voting Rules and IEEE 802 Operating Rules

4. Treasurer's Report

IEEE Project 802
Statement of Operations
November 2001 Meeting

November 2001 Meeting Income:		*Actual*	*Budget*	
179 Registrations@ $300	53,700			
757 Registrations@ $250	189,250			
Registrations@ $100	0			
10 Cancellations@ $50	500			
Subtotal	**243,450**	**243,450**	234,000	
Deadbeat Registrations		**300**	0	
Bank Interest		**171**	150	
Other			375	
TOTAL Income		**243,921**	234,525	

November 2001 Meeting Expenses:	*Actual*	*Budget*	
Audio Visual Rentals	**10,223**	7,000	
Bank Charges	**2**	30	
Copying	**5,201**	7,200	**
Credit Card Discount	**6,740**	6,552	*
Equipment Expense	**11,150**	8,000	
Get IEEE 802	**68,625**	67,500	
Meeting Administration	**55,830**	53,100	*
Networking	**0**	5,000	
Phone & Electrical	**2,137**	2,500	
Refreshments	**56,341**	35,100	
Shipping	**2,219**	2,448	
Social	**29,095**	36,000	
Supplies	**0**	0	
Other	**2,156**	2,000	
TOTAL Meeting Expense	**249,719**	232,430	
NET Meeting Income/Expense	**(5,798)**	2,095	
Expenses from prior meetings	**300**		
Expenses prepaid for current meeting	**9,200**		
10 March 2002 Operating Reserve	**148,065**		

* Actual charges are based on registration, budget is based on registration forecast.

** Reserve is sufficient for contingent liabilities of ~$9,000.

LMSC Budget

	2001				2002				2003			
	Hilton Head *Actual*	Portland *Actual*	Austin *Actual*		St. Louis *Budget*	Vancouver *Budget*	Kauai *Budget*		Dallas? *Budget*	San Fran? *Budget*	Albq. *Budget*	
Meeting Income:	***March***	***July***	***Nov***	***2001***	***March***	***July***	***Nov***	***2002***	***March***	***July***	***Nov***	***2003***
Registrations	1,094	1,019	936		900	850	825		800	750	700	
Preregistration fee	250	250	250		250	250	250		250	250	250	
On-site registration fee	300	300	300		300	300	300		300	300	300	
Average Fee	265	263	260		255	255	255		255	255	255	
Subtotal	290,200	267,550	243,450	801,200	229,500	216,750	210,375	656,625	204,000	191,250	178,500	573,750
Bank Interest	343	336	171	850	150	150	150	450	150	150	150	450
Other	49,109	4,700	300	54,109	375	375	375		375	375	375	
TOTAL Income	339,652	272,586	243,921	856,159	229,650	216,900	210,525	657,075	204,150	191,400	178,650	574,200
Meeting Expenses:	***March***	***July***	***Nov***	***2001***	***March***	***July***	***Nov***	***2001***	***March***	***July***	***Nov***	***2001***
Audio Visual Rentals	10,482	7,238	10,223	27,942	8,000	8,000	8,000	24,000	8,320	8,320	8,320	24,960
Bank Charges	1	3	2	6	35	35	35	105	40	40	40	120
Copying	2,267	5,987	5,201	13,455	6,000	6,000	6,000	18,000	5,500	5,500	5,500	16,500
Credit Card Discounts	8,334	7,667	6,740	22,742	6,426	6,069	5,891	18,386	5,712	5,355	4,998	16,065
Equipment Purchase	704	25,406	11,150	37,259	8,000	8,000	8,000	24,000	9,000	9,000	9,000	27,000
IPF/Escrow/FreeStds	215,100	78,000	68,625	361,725	67,500	63,750	61,875	193,125	60,000	56,250	52,500	168,750
Meeting Planners	62,715	49,291	55,830	167,836	55,500	53,250	52,125	160,875	52,800	50,500	48,200	151,500
Network	0	4,300	0	4,300	10,000	10,000	10,000	30,000	10,000	10,000	10,000	30,000
Phone & Electrical	1,952	51	2,137	4,139	2,000	2,000	2,000	6,000	2,100	2,100	2,100	6,300
Refreshments	62,978	44,901	56,341	164,220	40,500	35,700	45,375	121,575	36,000	37,500	28,000	101,500
Shipping	2,448	775	2,219	5,442	3,000	3,000	3,000	9,000	3,100	3,700	3,700	10,500
Social	35,332	22,383	29,095	86,809	34,200	31,450	41,250	106,900	16,800	15,750	14,700	47,250
Supplies	0	0	0	0	0	0	0	0	0	0	0	0
Other	8,098	2,889	2,156	13,143	5,954	500	2,000	8,454	4,823	500	2,000	7,323
TOTAL Meeting Expense	410,411	248,890	249,719	909,020	247,115	227,754	245,551	720,420	214,195	204,515	189,058	607,768
NET to Operating Reserve	(70,758)	23,696	(5,798)	(52,860)	(17,465)	(10,854)	(35,026)	(63,345)	(10,045)	(13,115)	(10,408)	(33,568)
Opening Reserve	81,418	131,034	153,853		148,065	130,600	119,746		84,720	74,676	61,561	
Projected Closing Reserve	10,659	154,730	148,055		130,600	119,746	84,720		74,676	61,561	51,153	
Projected Closing Cash	(541)	152,730	146,055		128,600	117,746	82,720		72,676	59,561	49,153	

5. IEEE Project Editor's Status Report

Paul introduces Jennifer Longman (802 project editor).

Four documents published since the November meeting: 802.11b-1999COR1, 802.5v, 802-2001, 802.3-2002

802.16 to be published in March. 802.15.1 is on the REVCOM agenda.

6. 802.1 Architecture and Interworking

Awards presented to Bill Lidinsky and Alan Chambers.

802.1 – Activities & status

Tony Jeffree, 802.1 WG Chair

11th March 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)

- Standard 802 revision (Overview & Architecture)
  - Approved by June RevCom
  - Now published, following BoG decision on compliance issues (removed Clause 5)

Status of current projects - (2)

- P802.1s - Multiple Spanning Tree support in VLANs
  - Draft 11.2 circulated to WG – protocol & BPDU format now fully specified
  - Looking to issue WG ballot before July

Status of current projects - (3)

- P802.1y – Maintenance items for 802.1D (including t, w)
  - Some bug fixes related to 802.1w
- 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
  - Recent paper re 802.1X/802.11 issues – will work that with .11 this week

Status of current projects - (4)

- PAR for “Playpen Ethertypes” has been approved – initial draft generated
- Looking at new work related to link layer discovery

Meetings this week:

- Mon PM: Plenary plus X/Dot 11issue
- Tues: Task group sessions (times TBA)
- Weds AM: Technical plenary
  - 802.3 EFM & 802.17 Bridging issues
  - X/Dot 11 issues
- Weds PM: Task group sessions (times TBA)
- Thurs AM: Closing plenary
- Meeting room is “Wabash Cannonball”

7. 802.3 CSMA/CD (Ethernet)

Award to Geoff Thompson and David Law for publication of 1802.3. Also Geoff Thompson and David Law for publication of 802.3-2002.

IEEE 802.3 CSMA/CD Working Group Status

- Major Activities/Approved Projects:
  - P802.3ae 10 Gigabit Ethernet TF
    in final stages of Sponsor Ballot
  - P802.3af DTE Power via MDI
    Resolving WG Ballot comments
  - P802.3ah Ethernet in the First Mile
    Choosing core proposals this week

IEEE 802.3 CSMA/CD Working Group Status

- Other Activities:
  - P1802.3Rev., 10BASE-T Conformance Test Approved / Published
  - P802.3ag Maint #6 (Revision) Approved / Published March 8 in 3 Volumes as IEEE Std. 802.3 – 2002
  - P802.3aj Maint #7 (PAR app'd for NESCOM)
  - Liaison reports
  - Ad Hoc: Cable Discharge ?
  - Call for Interest : 100BASE-X on 2 SM fibers

IEEE Std. 802.3 Status

- **Published (PDF, Paper is on the way)**
  - **IEEE Std. 802.3 - 2002**

  NOTAvailable at no charge from "IEEE Download 802"

  http//standards.ieee.org/getieee802/802.3.html

- **Now Obsolete:**
  - **IEEE Std. 802.3 2000 Edition**

802.3 CSMA/CD Working Group Officers

- 802.3 Chair (for now): Geoff Thompson (thompson@ieee.org)
- 802.3 Vice Chair: David Law (David_Law@3Com.com)
- 802.3 Secretary: Bob Grow (bob.grow@intel.com)
- 802.3ae 10 Gig E'net: Jonathan Thatcher (jonathan@worldwidepackets.com)
- 802.3af DTE Power via MDI: Steve Carlson (scarlson@esta.org)
- 802.3ah Ethernet in First Mile: Howard Frazier (millardo@dominetsystems.com)

- 802.3 & SUB-GROUPS WILL MEET IN THIS HOTEL
- PLENARY STARTS at 1:00 PM in the REGENCY BALLROOM (Not this room!)
- Closing Plenary: Thurs, 1 - ~5:00
- 802.3 CSMA/CD Web site
- Information is always available on our web site:

  http://www.ieee802.org/3/index.html

8. 802.5 Token Ring

Award to Reinke, Jarvis, Messenger, Fierman Simon Harrison, Richard Knight for publication of 802.5v

9. 802.11 WLAN (Wireless Local Area Network)

Award to Stuart Kerry for publication of 802.11b-COR1 and 802.11d. Also to Bob O'Hara, Ken Clements, Arnoud Zwemmer, Johnny Zweig, Darwin Engwer, Chris Zegelin for the publication of 802.11d. Also to Vctoria Poncini and Carl Andren and Bob O'Hara for publication of 802.11b-COR1.

Get file from Stuart

10. Regulatory Ombudsman

Opening report Radio Regulations to Radio Working Groups March 2002 meeting

Regulatory Ombudsman
(Vic Hayes)

http://ieee802.org/Regulatory/

\\venus2\RREG 2002_March

Since November 2002 meeting

- Letter sent to the Minister of the MII (Information Industry) of the People's Republic of China
  - May have arrived too late for his visit to the US
  - Plan was to inform the FCC to discuss the issue at the visit of the MII Minister to the US
  - Industry Canada is also active in the lobby
  - Held 2 tele-conferences in February to make a presentation outline
  - WECA visited MII officials on March 8
    - First experiment with "open spectrum"
    - There is flexibility in the regulation
    - They need information about interference danger in densely populated areas in other countries
    - They are studying the 5 GHz agenda items of WRC-03

Since November meeting (2)

- Sent a letter to the US JRG 8A-9B to complete the PDNR on DFS with characteristics of IEEE 802 standard
  - Approved to go to National Committee
- Sent a liaison to ETSI-BRAN with a new DFS
  - Further work on making the functions implementation independent

Since November meeting (3)

- Rules change procedure for
  - An SEC level Standing Committee
  - Additional requirement for wireless PARs
- Have asked for comments through the .1, .3, .11, .15 and .16 reflectors
- Held SEC e-mail ballot
- Resolution meeting held Sunday evening

External events: WECA 5 GHz

- On January 15, WECA filed a Petition for Rulemaking of the Wireless Ethernet Compatibility Alliance To Permit Unlicensed National Information Infrastructure Devices To Operate in the 5.470-5.725 GHz Band
- Comment period closed on February 28,
  - 3 opposing (1 ham, 1 Association and the ARRL)
  - 13 supporting (1 ham, 1 individual, 10 companies and the WCA)
- Contact Vic if you want to file late supporting comments
- Reply Comment period closes on March 15

External events: US WRC-03

- IWG5 approved the Preliminary US view on agenda item 1.5, but FCC and NTIA are at an impasse
- Draft proposal on agenda item 1.5 was submitted on the last IWG5 meeting
- ARRL had some objections and it was tabled

External events: National Consultations

- France have issued consultation document for 2.45 GHz and 5 GHz issues
  - Prepared “potential responses” for our members
- UK have issued a consultation document for license issues
  - Officially closed but may have been extended
- Canada issued a consultation document for 3-30 GHz spectrum

Objectives for St Louis. MO

- **Seeking SEC approval of rules changes for SEC Standing Committee Radio Regulations and for Wireless PARs**
- **Work on PAR rules amendment**
- **To prepare and submit other position statements if needed**
  - **e.g. Spectrum requirement 5 GHz band**
  - **e.g. 2.45 GHz regulations in China**
  - **e.g. Supportive comments on WECA petition**
  - **e.g. Opposing comments on Sirius petition**
- **To hold joint meetings with TGh, TGg and SC WNG**

Meeting schedule this week (1)

- Joint meetings
  - TGh: Monday 3:30 PM - 5:30 PM
  - TGg: Thursday 1 PM – 3 PM
  - WNG SC: Thursday 6:30 – 9:30 PM
- Rules change meetings
  - Monday 6:30 PM – 9:30 PM
  - Tuesday 8:00 AM – 10 AM
  - Thursday 8 AM – 10 AM

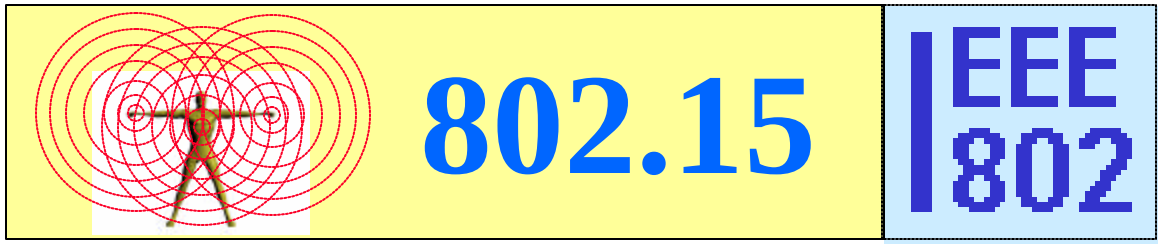
Meeting schedule this week (2)

- Regulatory matters (5 GHz and 2.4 GHz)
  - Monday 3:30 PM – 5:30 PM (joint with TGh)
  - Tuesday 3:30 PM – 6:30 PM
  - Wednesday 3:30 PM – 5:30 PM
  - Thursday 8 AM – 10 AM, 1:00 PM – 3:00 PM
- Addition meetings scheduled in between those mentioned

Potential output documents

- Revised proposals to the Rules changes
- Submissions to US WRC-03
- Response to IC consultation

11. 802.15 WPAN (Wireless Personal Area Network)

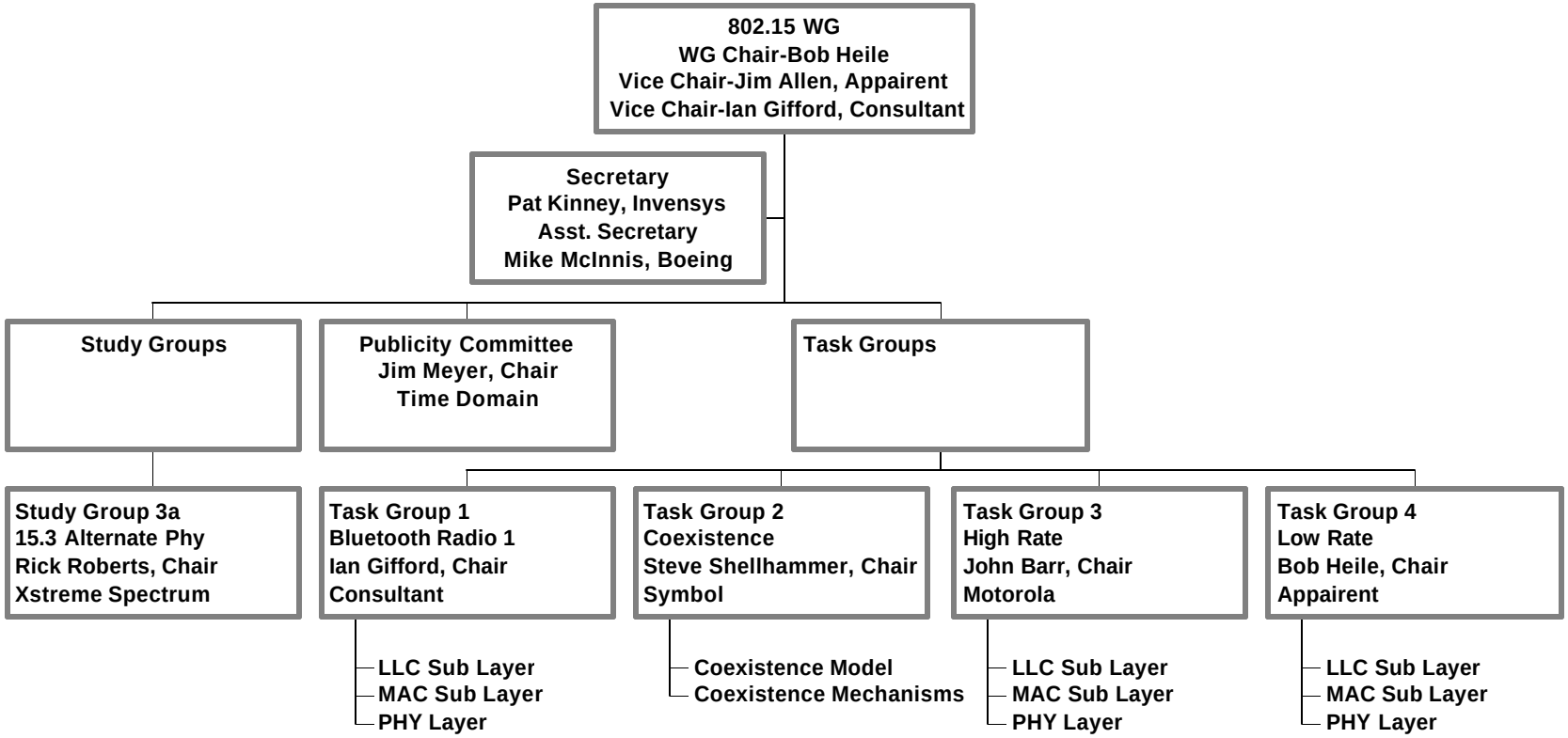


17th Session of meetings of the IEEE 802.15 Working Group for Wireless Personal Area Networks

March 11-15, 2002

Hyatt Regency Union Station
St. Louis, MO

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
- TG1 list: stds-802-15-1@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 St. Louis Meeting March 11-15, 2002

TASK GROUP 1- Bluetooth MEETING OBJECTIVES

1. Socialize any remaining issues prior to REVCOM

TASK GROUP 2 -Coexistence MEETING OBJECTIVES

1. REVIEW AND VOTE ON DRAFT CHANGE REQUESTS

2. FINALIZE DRAFT FOR LETTER BALLOT

3. VOTE TO SEND DRAFT TO WORKING GROUP FOR LETTER BALLOT

4. PAR TITLE CHANGE TO BE VOTED ON BY EXCOM

Objectives of the St. Louis Meeting March 11-15, 2002

TASK GROUP 3-High Rate MEETING OBJECTIVES

1. **CONFERENCE CALL STATUS, INCLUDING APPROVAL OF ANY AD HOC BUSINESS**
2. **LETTER BALLOT COMMENT RESOLUTION**
3. **MANDATORY SECURITY SUITE SELECTION**
4. **UPDATE DRAFT AS REQUIRED**
5. **RE-CIRBULATE LETTER BALLOT**
6. **EXCOM SPONSOR BALLOT PREP (LETTER BALLOT)**

Objectives of the St. Louis Meeting March 11-15, 2002

TASK GROUP 4-Low Rate MEETING OBJECTIVES:

1. **CONFERENCE CALL STATUS, INCLUDING APPROVAL OF ANY AD HOC BUSINESS**
2. **COMMENT RESOLUTION ON LETTER BALLOT**
3. **SECURE WORKING GROUP APPROVAL TO MOVE TO RECIRCULATION**
4. **INITIATE SPONSOR BALLOT POOL UPDATE**
5. **OBJECTIVES FOR MAY MEETING**

Objectives of the St. Louis Meeting March 11-15, 2002

STUDY GROUP 3a-15.3 alt PHY, MEETING OBJECTIVES

1. HEAR APPLICATION PRESENTATIONS

(Ref: 02023r2P802.15 CFA)

2. GENERATE A PRESENTATION SUMMARY

(Ref: 02XXXr0P802.15)

3. WORK ON PAR & 5C (Ref: 02XXXr0P802.15)

4. START WORK ON REQUIREMENTS DOCUMENT (Ref: 02XXXr0P802.15)

5. START WORK ON SELECTION CRITERIA

(Ref: 02XXXr0P802.15)

Objectives of the St. Louis Meeting March 11-15, 2002

802.15 PC/802.11PC OBJECTIVES FOR THIS MEETING:

1. SELECT NEW CHAIRS FROM 802.11
2. Update Conference Calendar
3. ESTABLISH ONGOING AGENDA
4. Continue to Work on Joint 802.11 / 802.15 Publicity Activities

St. Louis Meeting Graphic

R2

17th IEEE 802.15 WPAN MEETING
Hyatt Regency St. Louis
March 11th-15th, 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		802.15 AC MEETING												802.15 AC MEETING				
07:30-08:00																		
08:00-08:30		802 SEC MEETING			TG3 ad hoc	SG3a	TG2	TG3	TG4	R-REG	TG2	TG3	TG4	TG1	TG2	TG3	TG4	802.15 WG CLOSING
08:30-09:00																		
09:00-09:30																		
09:30-10:00																		
10:00-10:30						Break				Break				Break				Break
10:30-11:00		Break																
11:00-11:30		802 PLENARY			TG3 ad	PC	TG2	TG3	TG4	802.15 WG MEETING				SG3a	TG2	TG3	TG4	802.15 WG CLOSING
11:30-12:00																		
12:00-13:00		Lunch				Lunch				Lunch				Lunch				Lunch
13:00-13:30	Optional Meeting Time & Network Setup	802.11 / 802.15 JOINT OPENING PLENARY				SG3a	TG2	TG3	TG4	802 COEX BoF		TG3	TG4	SG3a	TG2	TG3	TG4	802 SEC MEETING
13:30-14:00																		
14:00-14:30																		
14:30-15:00																		
15:00-15:30		Break				Break				Break				Break				
15:30-16:00		TG1	TG2	TG3	TG4	SG3a	TG2	TG3	TG4	TG2		TG3	TG4	SG3a	TG2	TG3	TG4	
16:00-16:30																		
16:30-17:00	11/15 CO-ORD MEETING																	
17:00-17:30																		
17:30-18:30	Optional	Dinner				Dinner				Break				Dinner				
18:30-19:00	Optional Meeting Time	Optional Meeting Time		TG3	Tut 1	Optional Meeting Time	Optional Meeting Time	TG3	Tut 3	Social				Optional Meeting Time		TG3		
19:00-19:30																		
19:30-20:00					Tut 2				Tut 4									
20:00-20:30																		
20:30-21:00																		
21:00-21:30																		

LEGEND

TG1	Task Group 1 - BLUETOOTH	802 COEX	Task Group D (Regulatory Domain Update)
TG2	Task Group 2 - COEXISTENCE	R-REG	802.11 Radio Regulatory Ad-Hoc Group
TG3	Task Group 3 -HIGH RATE WPAN	5GSG	IEEE / ETSI / MMAC 5 GHz Globalization Study Group
TG4	Task Group 4 - LOW RATE	TUT	IEEE 802 Tutorials 1, 2, 3 and 4
AC	802.15 ADVISORY COMMITTEE	SEC	802 SPONSOR EXECUTIVE COMMITTEE

12. 802.16 BWA (Broadband Wireless Access)

IEEE 802.16 Working Group on Broadband Wireless Access (BWA)

IEEE 802.16
Working Group on
Broadband Wireless Access
(BWA)

LMSC Opening Plenary

11 March 2002

Hyatt Regency St. Louis

802.16 Membership

- 158 Members
- 53 Potential Members
- 60 Observers

802.16 Officers

- Chair: Roger Marks
- Vice Chair: Brian Kiernan
- Secretary: Dean Chang

802.16 Project Structure

Air Interface (Standard)□	Coexistence (Recommended Practice)□
IEEE Standard 802.16 **approved 6 Dec 2001** (publication:March 2002) MAC 10-66 GHz PHY	IEEE Standard 802.16.2 **published 10 Sep 2001** (in GetIEEE802 ASAP) 10-66 GHz
P802.16a 2-11 GHz PHY MAC enhancements WG Letter Ballot RevCom target: August 02	**P802.16.2a** 2-11 GHz PAR Approved Aug 2001

Proposed 802.16c PAR

- To amend IEEE Standard 802.16 by the addition of 10-66 GHz profiles
  - for compliance and interoperability tests
- Expect to request SEC approval on Friday

802.16 Tutorial: Gigabit Radio

"Upper Millimeter-Wave
History, Technology and Applications
for Gigabit Communications Services"

Wayne Pleasant

Doug Lockie

Tuesday 6:30-8 pm

Expect this to form the basis of a Friday SEC request for 802.16 Study Group

Resources

- on LAN this week:
  - 10.0.1.16
  - wirelessman16
  - mercury
- permanently:
  - http://WirelessMAN.org

13. 802.17 RPR (Resilient Packet Ring)

IEEE 802.17 Resilient Packet Ring

Meeting # 7

Michael Takefman, Chair

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

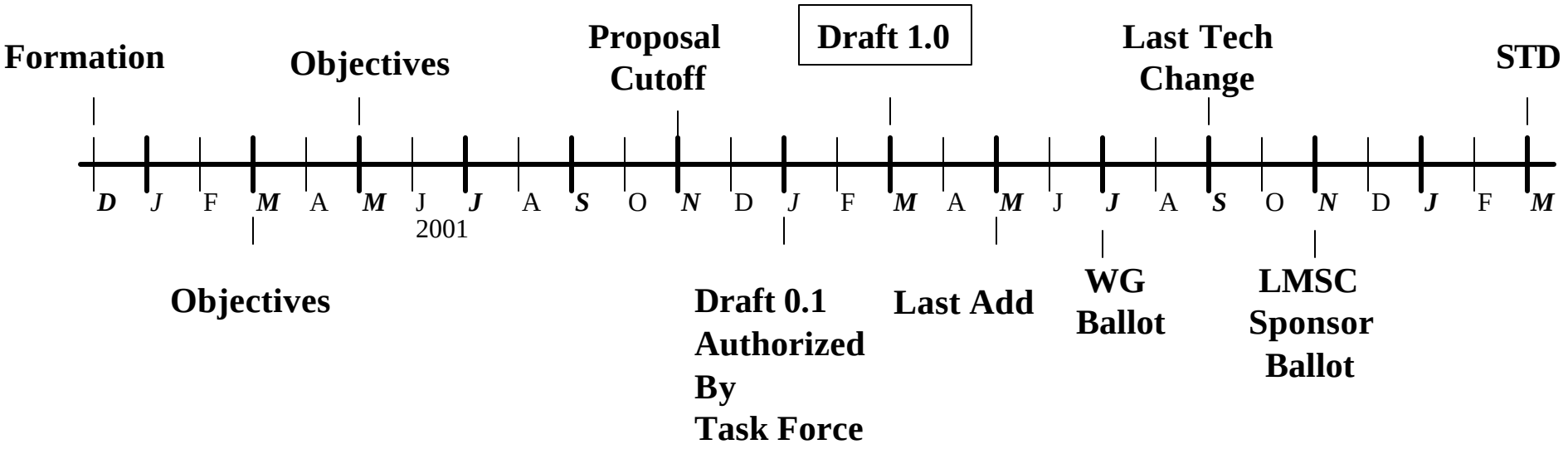
Officers of RPRWG

- Chair — Mike Takefman
- Vice-Chair — Bob Love
- Secretary — B.J. Lee
  - Asst Secretary — Mannix O'Connor
- Web-Masters — 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.

802.17 Timeline



Next Interim Meeting

- May 6-9, 2002
  Crown Plaza Hotel
  Ottawa, Canada

14. Tutorials, Meeting Arrangements

Paul described the High Speed Mobile Wireless Data tutorial, that might result in a study group request at the Friday SEC meeting. He also presented the schedule for the other tutorials on Monday and Tuesday evening.

12:25 Adjourn

The meeting was adjourned at 12:25pm.

6.01 PL IEEE 802 PLENARY MEETING ENDS 12:25 PM

Respectfully Submitted,
Bob O'Hara
Recording Secretary