#### AGENDA & MINUTES (Unconfirmed) - IEEE 802 LMSC EXECUTIVE COMMITTEE MEETING (modified 7/30/2004)

Monday, July 12, 2004 - 8:00 a.m.

Hilton Portland Hotel and Executive Towers, Portland, OR

5 10 15 20	Mat Sh Bob O' Buzz R Bill Qu Tony Ju Bob Gn Stuart I Bob He Roger I Mike T Carl St Steve S Jerry U	d Frazier lerman Hara Ligsbee lackenbu effree row Kerry eile Marks Takefman evenson Shellham	<ul> <li>Vice Chair, IEEE 802 LAN / MAN Standards Committe</li> <li>Recording Secretary, IEEE 802 LAN / MAN Standards G</li> <li>Executive Secretary, IEEE 802 LAN / MAN Standards G</li> <li>Treasurer, IEEE 802 LAN/MAN Standards Cor</li> <li>Chair, IEEE 802.1 - HILI Working Group</li> <li>Chair, IEEE 802.3 - CSMA/CD Working Group</li> <li>Chair, IEEE 802.11 - Wireless LANs Working Group</li> <li>Chair, IEEE 802.15 - Wireless PAN Working Group</li> <li>Chair, IEEE 802.16 - Broadband Wireless Access Work</li> <li>Chair, IEEE 802.17 - Resilient Packet Ring Working Group</li> <li>Chair, IEEE 802.18 - Regulatory TAG</li> <li>Chair, IEEE 802.19 - Wireless Coexistence TAG</li> <li>Chair, IEEE 802.20 - Mobile Broadband Wireless Access</li> </ul>	e Comn nmitt ing C roup	nittee ree		
	1.00		MEETING CALLED TO ORDER	_	Nikolich	1	08:00 AM
	2.00	MI	APPROVE OR MODIFY AGENDA	-	Nikolich	4	08:01 AM
						-	001011111
	r04		DRAFT AGENDA - IEEE 802 LMSC EXECUTIVE COMMITTEE MEETING Monday, July 12, 2004 - 8:00AM -10:30AM Hilton Portland Hotel & Executive Tower, Portland, OR				
	1.00		MEETING CALLED TO ORDER	-	Nikolich	1	08:00 AM
	2.00	MI	APPROVE OR MODIFY AGENDA	-	Nikolich	4	08:01 AM
	3.00	*	APPROVE / MODIFY MINUTES OF PREVIOUS MEETING	-	Nikolich	0	08:05 AM
				-			08:05 AM
	4.00	II	TREASURER'S REPORT	-	Quackenbush	5	08:05 AM
	4.01			-			08:10 AM
		Catego	ory (* = consent agenda)				08:10 AM
			Stds Board items				08:10 AM
	5.00	II	June Stds Board Actions (approved projects, standards, withdrawals)		Nikolich	2	08:10 AM
	5.01	II	Stds due for Maintenance and/or revision	-	Nikolich	2	08:12 AM
	5.02	II	PARS to NesCom	-	Nikolich	2	08:14 AM
	5.03	II	Drafts to Sponsor Ballot	-	Nikolich	2	08:16 AM
	5.04	II	Drafts to Revcom	-	Nikolich	2	08:18 AM
	5.05	Π		-			08:20 AM
							08:20 AM
			SA items	1			08:20 AM
	5.06	II	802 Task Force update		Nikolich	5	08:20 AM
	5.07	п	Indemnification Policy Update	-	Kenney	10	08:25 AM

5.08

5.09 5.10 5.11 5.12

5.12 II 5.13 II

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Get IEEE802 program update

**PAR Form matters** 

802/MyBallot comment resolution

- 5.13 5.14
- 5.14
- 5.15

		LMSC items		
5.16	MI	LMSC Meeting Fee Waivers		Nikolich
5.17	II	Tutorial schedule	-	Nikolich
5.18	II	EC Treasurer	-	Nikolich
5.19	II	Operating Rules update	-	M. Sherman
5.20	II/MI	802 enews letter/PR	-	Klerer
5.21	II	Online Training Update	-	Frazier
5.22	II	802.18 Radio Regulatory TAG Status Update	-	Stevenson
5.23	MI	Invitation of Julius Knapp (FCC OET) and waiver of meeting fee	-	Stevenson
5.24	II	802.19 Coexistence TAG Status Update	-	Shellhammer
5.25	II	IETF access to 802 drafts	-	Jeffree
5.26	II	Report on 802 position statement regarding rejected projects	-	Thompson
5.27	II	802.3 PARs: 802.3ar	-	Grow
5.28	II	802.16 PARs: 802.16e, 802.16f, 802.16g	-	Marks
5.29	II	802.11 PARs: 802.11p, 802.11T	-	Kerry
5.30	II	802.11 SG: AP functional description	-	Kerry
5.31	MI	802.11 press release: 802.11i, 802.11r & 802.11s	-	Kerry
5.32	II	802.19 proposed changes to P&P	-	Shellhammer
5.33	II	802.18 PAR	-	Stevenson
5.34	MI	802.17 press release	-	Takefman
5.35	II	802.17a sponsor ballot update - forwarding to RevCom	-	Takefman
5.36	II	802.17b call for interest - spatial aware bridging sublayer	-	Takefman
5.37	II	Report from Architecture Group	-	Jeffree
5.38	MI		-	
5.39	MI		-	
5.40	II		-	
5.41	MI		-	
5.42	MI		-	
5.43	MI		-	
5.44	DT	SEC meeting schedule (rules, SA, etc.)	-	Nikolich
		ADJOURN SEC MEETING	-	Nikolich
6.00	PL	IEEE 802 PLENARY MEETING STARTS	-	Nikolich
6.01	PL	IEEE 802 PLENARY MEETING ENDS		

ME - Motion, External	MI - Motion, Internal
<b>DT- Discussion Topic</b>	II - Information Item
Special Orders	

Kenney

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10:01 AM

10:04 AM

10:07 AM

10:12 AM

10:15 AM 10:18 AM

10:28 AM 10:28 AM 10:28 AM 10:28 AM 10:28 AM 10:28 AM 10:28 AM

10:31 AM 10:21 AM

11:00 AM 12:00 PM Motion: To approve the agenda

Moved: Roger Marks/Jerry Upton

5 Approved: 13/0/0

3.00	*	APPROVE / MODIFY MINUTES OF PREVIOUS MEETING	-	Nikolich	0	08:05 AM
			-			08:05 AM
4.00	Π	TREASURER'S REPORT	-	Quackenbush	5	08:05 AM

#### IEEE Project 802 Statement of Operations March 2004 Plenary Session Lake Buena Vista, FL As of June 30, 2004

As of June 30, 200	74		
Session Income	Actual	Budget	Deviation
Net Registrations	1,376	1,100	276
844 Registrations @ \$300 253,200	.,	198,000	55,200
532 Registrations @ \$350 186,200		154,000	32,200
21 Cancellation @ \$50 1,050		104,000	52,200
0 Cancellations @ 0			
0			
0 Other @ \$100 <u>0</u> Registraion Subtotal 440,450	440,450	352,000	88,450
0 Deadbeat Payment @ \$350	440,430 0	0352,000 0	•
Interest	64	60	0 4
Other	04	00	4
•	-		-
TOTAL Session Income	440,514	352,060	88,454
Session Expenses	Actual	Budget	
Audio Visual Rentals	19,537	15,000	(4,537)
Audit	13,337	6,000	6,000
Bank Charges	120	278	159
Copying	3,021	3,500	479
Credit Card Discounts & Fees	12,131	9,504	(2,627)
Equipment Expenses	20,405	9,000	(11,405)
Get IEEE 802 Conttribution	102,225	82,500	(19,725)
Insurance	2,713	3,000	287
Meeting Administration	82,059	68,025	(14,034)
Misc Expenses	3,372	500	(2,872)
Networking	27,026	34,388	7,363
Phone & Electrical	966	2,100	1,134
Refreshments	109,285	91,300	(17,985)
Shipping	6,580	5,000	(1,580)
Social	50,641	31,680	(18,961)
Supplies	1,093	500	(593)
TOTAL Session Expense	441,173	362,275	(78,897)
NET Session Surplus/(Deficit)	(659)	(10,215)	9,557
Analysis	(000)	(10,210)	0,007
Refreshments per registration	79	83	4
Social per registration	37	29	(8)
Meeting Admin per registration	59.64	61.84	2
Surplus/(Loss) per registration	(0)	(9)	9
Pre-Registration ratio	0.61	0.60	
	0		
Reserve for uninvoiced expenses for prior sessions	0		
Reserve for other outstanding commitments	1,750		
Expenses prepaid for current session	27,123		
Expenses prepaid for future sessions	2,190		
July 2004 Operating Reserve	299,073		

### LMSC Budget

	2004						
	January						
	802						
	Interims	March	July	Nov	Year		
		Lake Buena					
	Vancouver	Vista, FL	Portland	San Antonio			
Evolution and Data	Actual <b>0.780</b>	Actual	Budget	Budget			
Exchange Rate Meeting Income:	0.780						
Registrations	1,021	1,376	1,250	1,200			
Pre-registration fee	300	300	300	300			
Registration fee	350	350	350	350			
Average Fee	324	320	320	320			
Subtotal	331,000	440,450	400,000	384,000	1,555,450		
Bank Interest	001,000	64	400,000 60	60	1,000,400		
Other	3,617	0	0	0	3,617		
	0,011	•	· ·	· ·	0,011		
TOTAL Income	334,617	440,514	400,060	384,060	1,559,252		
Meeting Expenses:							
Audio Visual Rentals	13,117	19,537	15,000	15,000	62,654		
Audit	0	0	6,050	0	6,050		
Bank Charges	66	120	278	278	742		
Copying	660	3,021	3,500	3,500	10,681		
Credit Card Discounts	9,064	12,131	10,800	10,368	42,363		
Equipment Purchase/Repair	0	20,405	9,000	9,000	38,405		
IPF/Escrow/Free 802 Stds	0	102,225	93,750	90,000	285,975		
Insurance	0	2,713	== 100		2,713		
Meeting Planners	63,508	82,059	75,463	75,064	296,093		
Misc Expenses	652	3372	500	500	5,024		
Network	29,682	27,026	34,388	34,388	125,485		
Phone & Electrical	2,170	966	2,100	2,100	7,336		
Refreshments	125,023	109,285	85,000	96,000	415,308		
Shipping	6,403	6,580	3,100	4,500	20,583		
Social	32864	50,641	40,000	38,400	161,905		
Supplies	62	1,093	500	500	2,155		
TOTAL Meeting Expense	283,270	441,173	379,429	379,598	1,483,470		
NET to Operating Reserve	51,348	(659)	20,631	4,462	75,782		
Opening Reserve	280.058	331.405	330.747	351.378			
	_00,000						
Projected Closing Reserve	331,405	330,747	351,378	355,839			
Projected Closing Cash	329,405	328,747	349,378	353,839			
Meeting Contracts Liability	38,766	171,540	150,326	269,356			
<u>_</u>		1					
Pre-Registration rate	0.516	0.598	0.600	0.600			
Credit Card Fee/Discount rate	2.74%	2.75%	2.70%	2.70%			
Refreshments per registration	122	79	68	80			
Social per registration	32	37	32				
Meeting admin per registration	62	60	60				
AV rentals per registration	13	14	12	13			
Network per registration	29	20	28	29			
Surplus/Deficit per registration	50.29	(0.48)	16.50	3.72			

Bill reports that the audit is essentially complete and is to be signed off today. He said that there were no issues with the audit. It was very clean.

Bill pointed out that the reserve is approaching \$300k and that we need to begin being careful about letting it grow.

4.01			-			08:10 AM
	Catego	ry (* = consent agenda)				08:10 AM
		Stds Board items	1			08:10 AM
5.00	II	June Stds Board Actions (approved projects, standards, withdrawals)	-	Nikolich	2	08:10 AM

Howard pointed out that all the 802 projects were approved unanimously approved at RevCom. He and Paul congratulated the chairs on their good work.

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### May 2004 and June 2004 SA Standards Board Actions <u>Standards Approved</u>

### New:

**P802.16/Conformance03**/D3 (C/LM) Standard for Conformance to IEEE Standard 802.16 - Part 3: Radio Conformance Tests (RCT) for 10-66 GHz WirelessMAN-SC<sup>TM</sup> Air Interface (May 2004)

**P802.3ah**/D3.3 (C/LM) Amendment to Part 3: CSMA/CD Access Method and Physical Layer Specifications - Media Access Control Parameters, Physical Layers and Management Parameters for Subscriber Access Networks (June 2004)

**P802.11i**/D10.0 (C/LM) Amendment Part 11: Wireless LAN Medium Access Control (MAC) and Physical Layer (PHY) Specifications: Medium Access Control (MAC) Security Enhancements (June2004)

**P802.17**/D3.3 (C/LM) Standard for Information Technology- Local and Metropolitan Area Networks -Part 17: Resilient Packet Ring (RPR) Access Method & Physical Layer Specifications (June 2004)

### **Revision:**

**P802.16/D5** (C/LM) Standard for Local and Metropolitan Area Networks - Part 16: Air Interface for Fixed Broadband Wireless Access Systems (June 2004)

### Administrative Withdrawals: NONE

**Reaffirmations: NONE** 

5.01	Π	Stds due for Maintenance and/or revision	- Nikolich	2	08:12 AM
802.11	e's PAR	R needs extension.			
5.02	II	PARS to NesCom	- Nikolich	2	08:14 AM

### PARs to NesCom

- 802.3ar Frame Study (Sept)
- 802.11p Wireless Access for the Vehicular Environment (Sept)
- 802.11T Wireless Performance Prediction Recommended Practice (Sept)
- 802.16e Modification to the Mobility PAR (cont processing July/August)
- 802.16f Management Information Base (cont. processing July/August)
- 802.16g Management Plan Procedures and Services (cont. processing J/A)
- 802.22 Cognitive Wireless RAN MAC and PHY Specifications: Policies and Procedures for Operation in the TV Bands (Sept)

5.03	II	Drafts to Sponsor Ballot	-	Nikolich	2	08:16 AM
No new	v drafts a	are entering sponsor ballot out of this session.				
5.04	II	Drafts to Revcom	-	Nikolich	2	08:18 AM
802.17a	a will be	forwarded to RevCom after this session.				
802.1at	o and 80	2.1X-REV may be forwarded after this session.				
5.05	II		-			08:20 AM
						08:20 AM
		SA items				08:20 AM
5.06	II	802 Task Force update	-	Nikolich	5	08:20 AM

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### IEEE-SA/802 Task Force

- Meeting held 23 June, 2004 during SASB meetings
  - Topics:
    - My Ballot—802 desires binding/not binding classification be added for submitted comments, GOT to act as 802 PoC
    - PAR form year—when ammending, how to reference an as-yet-to-beapproved base document
    - P&P support—SA to deliver a proposal this plenary session
  - Participants:
    - 802- Geoff, Howard, Mat, BobG, David Law, Glenn Parsons
    - SA Staff- Karen Kenney, Jennifer Longman, Andy Ickowicz, Susan Tatiner, David Ringle, Yvette Ho Sang
  - Schedule a follow up meeting this week:
    - Recommend Wednesday 4-5

Howard reported that there was a meeting at the June Standards Board meeting.

A quote has been delivered for P&P support. An action was taken by Dave Ringle and Mary Lynne Nielsen to find a way to allow a year for a-yet-to-be-approved base standard to be specified on the amendment form.

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802 changes to the MyBallot tool to allow individual identification of comment submitter and classification (binding/not binding) were discussed, as well as being able to attach a file of comments in an arbitrary (WG defined) format. Meeting on Wednesday from 4-5 to continue discussion.

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A definition of an "IEEE volunteer" has been received from IEEE corporate legal counsel. SA will roll out, by the end of the year, information on details of indemnification to the standards developing groups.

5.08 II Get IEEE802 program update - Kenney 5 08:35 AM

# Get IEEE 802® Update 10 For LMSC July Plenary

Karen Kenney, Assoc. Managing Director, Business Administration

12 July 2004 July Plenary, Portland OR



Get IEEE 802® Update 10

### Downloads

- Program to date 1,525,850
- Year to date
- Weekly average
- Most requested
  - 802.11<sup>™</sup>, .11b, .11a, .11G
  - 802.3<sup>™</sup>

,525,850 243,840 9,378



### Get IEEE 802® Update 10 User Type (Year to Date)

USER	Jan	Feb	Mar	Apr	May	Jun	YTD Total
Academic/Student:	17,132	19,574	22,210	20,166	19,857	16,832	115,771
Other:	6,886	7,481	8,005	7,944	7,601	7,039	44,956
Network equipment manufacturer:	5,117	5,269	5,763	5,581	5,523	5,071	32,324
Public network service provider:	2,815	3,746	3,974	3,357	3,606	3,390	20,888
Network Software Developer/Manufacturer	3,302	4,008	4,122	3,633	3,488	3,505	15,065
Systems Administrator:	3,095	3,502	3,780	3,257	3,082	2,880	19,596
Standards Developer:	1,731	1,621	1,997	1,830	1,755	1,627	10,561
Network silicon manufacturer:	1,397	1,112	1,230	1,356	1,394	1,313	7,802
Private network service provider:	1,583	1,485	1,870	1,693	1,742	1,629	10,002
Government:	1,208	1,601	1,960	1,384	1,651	1,536	9,340
Journalist/Analyst/Author	726	738	815	708	637	634	4,258
Curious Citizen				74			
Total	44,992	50,137	55,726	50,983	50,336	45,456	290,563



### Get IEEE 802® Update 10

### **User Type** (4/03-6/04)

USER	PTD Total
Academic/Student:	287,205
Other:	114,446
Network equipment manufacturer:	81,744
Public network service provider:	50,013
Network Software Developer/Manufacturer	36,301
Systems Administrator:	38,762
Standards Developer:	26,613
Network silicon manufacturer:	24,316
Private network service provider:	25,868
Government:	23,144
Journalist/Analyst/Author	8,377
Curious Citizen	74
Total	716,863



### **Program Entries**

### Mar 2004 – Jun 2004

- Std On or about
- 802a<sup>™</sup> 18 Mar
- 802.3aj<sup>™</sup>
   26 Mar
   802.3ak<sup>™</sup>
- 802.15.3 29 Mar
- 802.15.4 1 Apr

- Std On or about
- 802b<sup>™</sup> 21 Oct
- 1 Sep
- 802.11h<sup>™</sup>
   14 Apr
   802.16<sup>™</sup> Conf 02 25 Aug
  - 802.16.2™ 17 Sep



### **Program Entries**

### **June 2004 Approvals**

	<u>Std</u>	Tent. Pub Date
•	802ah™	24 Aug
•	802.11i™	23 Jul
•	802.16 <sup>™</sup> Revd	24 Sep
•	802.17™	24 Sep



Get IEEE 802® Update 10

### **Reminders/Updates**

• Drafts Delivery Service

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

- Shop IEEE improvements --> instant access
- SEC continuing commitment to provide drafts thru ballot upload function
- Approved drafts discontinued 1 June 2004
- Open Order Plans discontinued 31
   December 2003
- Get IEEE 802® now Registration Mark
- New Sponsorship Brochure



### **New Brochure**





Howard is concerned about the items that are running behind budget, particularly print and PDF sales. He believes there is a lot of revenue left on the table. Karen is also concerned that the contributions from companies are well behind budget.

Roger asked if sales of drafts are included in the budget. Karen indicates that they are included in either the print or PDF line items, depending on the medium of delivery.

Paul pointed out that the program agreement needs to be approved on Friday.

	5.09	II	802/MyBallot comment resolution	-	Ickowicz	5	08:40 AM	
)	Andy reports that MyBallot is going into alpha testing now (staff only), beta to begin in September.							
	5.10	п	PAR Form matters	-	Ickowicz	5	08:45 AM	

Andy reports that a note has been added to the form to address concerns about the requirement for entry of a year, describing the standard that is being revised or amended. Here is the modified text of the relevant section of the form.

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#### **"6. Type of Project**

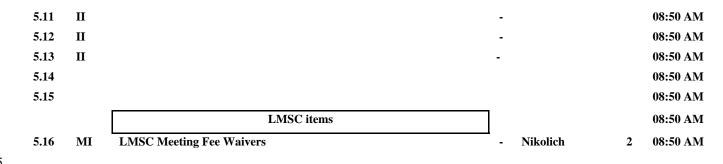
Indicate whether this work will result in a new document, a revision of an existing document (indicate document number and year), an amendment (formerly supplement) to an existing document (indicate document number and year), or a corrigendum (indicate document number and year). Note: If the year is left blank, the document authorized by this PAR shall be

20 (indicate document number and year). Note: If the year is left blank, the document authorized by this PAR shall be considered to be a modification of the approved base standard and all of its approved amendments and corrigenda that exists at the initiation of the ballot invitation.

Amendments and corrigenda are balloted documents that give explicit instructions on how to change the text in an existing
 base standard or an existing amendment. Amendments are additions to existing documents and may contain substantive corrections and/or errata to the document. Corrigenda are substantive corrections and/or errata to a document.

If this is a modification to an existing PAR, indicate the original PAR number, approval date and ballot status.

30 If this is a modified PAR or a PAR to revise an existing standard, please provide a short explanation of the changes to the original PAR. The rationale MUST be submitted under Item #19."



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### Meeting Fee Waivers

- The following individuals have had their registration fees waived for this plenary session by the LMSC chair.
  - IEEE-SA Staff Participants
    - Karen Kenney, Jennifer McClain Longman, Andy Ickowicz, David Ringle, Michelle Turner
  - Invited Participants
    - Maris Graube (original chair of LMSC)

#### 5.17 II Tutorial schedule

- Nikolich 5 08:52 AM

### **Tutorial Schedule**

Monday	Tuesday				
1) Connectivity Fault Mgmt	3) Coexistence in Unlicensed Bands				
6:30-8:00PM	6:30-8:00PM				
2) EMS: Process, Policy, Procedure	4) 1394 and 802				
8:00-9:30PM	8:00-9:30PM				
	EMS: Advanced Framemaker 8:00-9:30PM				
	(optional)				
	CFI: Residential Ethernet				
	7:00-10:00PM				
	(not a tutorial) 15				

#### 5.18 II EC Treasurer

- Nikolich 2 08:57 AM

### **Treasurer Position**

- Bill Quackenbush resigning as EC Treasurer effective the end of July Plenary Session
  - Bill: thanks for your service, we will miss you (especially Buzz, I'm sure)
- John Hawkins to be appointed/confirmed as EC Treasurer effective the end of July Plenary Session
- Bill and John will be working from now to November to effect the transfer of all treasurer materials and signature authority

John Hawkins introduced himself. John has been the treasurer of the RPR Alliance for the past several years.

#### 5.19 II Operating Rules update

### LMSC Policy and Procedures Update

### Author:

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

Date: July 12th, 2004

### LMSC P&P Maintenance Activities

- In process ballots (To be voted for approval Friday)
  - SA model sponsor P&P reformat (Matthew Sherman)
- SOW to SA for P&P Support
- Pending ballots
  - Coexistence P&P Revision (Steve Shellhammer)
  - SA conformance P&P Revision (Matthew Sherman)
- "Operating Rules" Subcommittee meeting 7/11/04
  - Discussions on pending Coexistence P&P Revision
  - Comment resolution on SA model sponsor P&P reformat

## Ballot to Reformat LMSC P&P

- Intended to be purely reformatting of existing rules
  - Some text added to match format of Sponsor P&P
  - New text should not introduce new rules
    - Cross reference existing rules
- If anyone objects to specific text
  - will remove change or amend
- Next P&P revision will be more than editorial

# Rationale for Restructuring P&P

- Current P&P has been "patched" for 20 years
  - Inconsistencies have crept in
- P&P viewed as "Broken" by many EC members
  - Identified as single most critical issue during 802 restructuring discussions
- Unable to keep up with number of revisions required
  - Was doing 3+ revisions per plenary cycle
    - Did not keep up with revisions required
- SA Rules have changed over time
  - Need through review to check compliance
- CS SAB doing complete rewrite of their rules
  - Requirements impact our rules
- Need complete rewrite of P&P
  - Note that CS SAB also rewriting their P&P

# **Restructuring Process**

- Reformat to match Sponsor Model (1 Cycle)
  - Editorial in Nature
- Modify for conformance (1 Cycle)
  - Identify where requirements of SA and CS SAB not met
  - Introduce changes to bring into conformance
- Streamline (1 Cycle)
  - Implement "Less is More"
  - Fix any deficiencies specific to 802
- Entire process to take roughly 1 year

# Rationale for Reformatting to Matching SA Sponsor Model

- New CS SAB P&P being balloted
  - Section 5.5 titled Sponsor P&P
    - "Each Sponsor shall have and shall adhere to a set of P&P's based upon the IEEE SA Model Operating Procedures for Sponsors for Standards Development."
- AUDCOM will now be Auditing our P&P
  - CS SAB wants to get out of this role (though will still review)
  - Model comes from AUDCOM and accomplishes two things:
    - Make sure all the key requirements of SA are addressed in sponsor P&P
    - Make it easier to review the many P&P AUDCOM has to look at.
- AUDCOM views Model Sponsor P&P as more than a recommendation
  - Note at top of Model Sponsor P&P
    - "... your Sponsor procedures must address each of the items below in bold-face type with text that is consistent with the IEEE-SA governance documents (IEEE-SA Standards Board Bylaws and Operations Manual)"
    - Must include Model Sponsor P&P Headings (and organization)

# SA Sponsor Model Ballot Status

- Ballot completed
  - Substantial comments from Bob O'Hara and Bill Quackenbush
- Changes circulated to address comments from Bob and Bill
  - Reviewed at Operating Rules meeting
- Additional changes being circulated to accommodate comments in Operating Rules meeting
- Will bring to vote on Friday

# SOW to SA for P&P Support

- Feedback received from SA on SOW
  - Key staff not available till Jan '05
  - Will delay start of project to Nov '04
- SA preparing 2<sup>nd</sup> rev of SOW
  - Accounts for feedback to date
- Will circulate with EC tomorrow
- Will have ad-hoc to review Wednesday
- Will ask for contingent approval of funding Friday

# Planned P&P Revisions

- Conformance with SA/SAB requirements
  - Part of overall restructuring process
  - Will also try an "simplify" P&P modification procedure
    - Current process more than SA requires and large burden
      - Limits throughput on changes
    - Next cycle will streamline P&P
      - Will consist of many smaller ballots
      - Want to adjust modification process in time for these ballots
- Coexistence
  - Implement P&P changes to address wireless coexistence issues (Steve Shellhammer)

There will be a meeting Wednesday, 3-4pm to review the SA P&P SOW.

#### 5.20 II/MI 802 enews letter/PR

5

Mark reminded us that there is a requirement that WG closing reports in a format suitable for the enews are due to the recording secretary and to Karen McCabe, 3 days after the closing EC meeting.

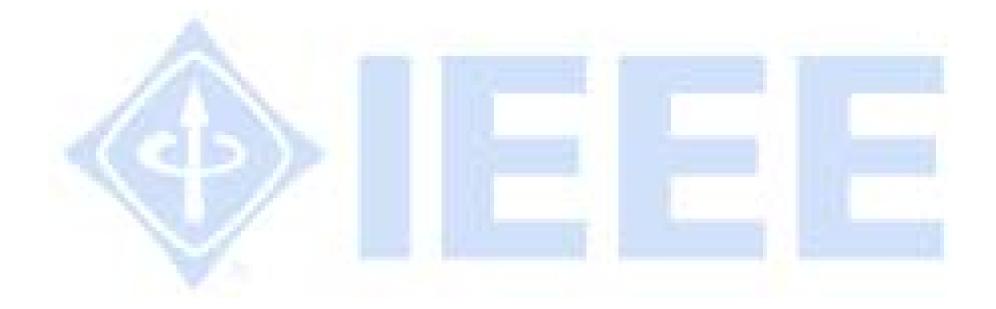
5.21	II	Online Training Update	-	Frazier	5	09:09 AM
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Klerer

-

5

09:04 AM



## Education, Mentoring, Support (EMS) July 2004



## **Online Training Courses**

- Expansion of EMS instructor-led training to online continuous training
  - Course catalogue
  - Curriculum requirements
- Program progress
- Courses offered this week
- Meetings planned for this week



## **Online Training Courses**

- Face to face instructor-led training is good, but not sufficient
- Need exists to provide online training
  - People can work at their own pace
  - Continuous access to information
  - Track participants and "graduates"
- *MyTraining*<sup>™</sup> program under development by IEEE-SA, but not available until ??? 2005



## **Course catalogue**

### 100. IEEE-SA Policies and Procedures

- 101. Introduction to IEEE-SA Policies and Procedures
- 111. Advanced Topics in IEEE-SA Policies and Procedures

### 200. IEEE-SA Editorial Process

- 201. Introduction to Editing, Framemaker and IEEE Style Guide
- 211. Advanced topics in Editing and Framemaker

### 300. Conduct of Meetings

- 301. Introduction to RRoO and Conduct of Meetings
- 311. Advanced Topics in RRoO and Conduct of Meetings

### 400. IEEE 802 LMSC Policies and Procedures

- 401. Introduction to IEEE 802 LMSC Policies and Procedures
- 411. Advanced Topics in IEEE 802 LMSC P&P
- 421. IEEE 802 LMSC Financial Policies and Procedures



## **Curriculum requirements**

	WG/TAG Chair /Vice Chair	WG/TAG Treasurer	TF/TG Chair /Vice Chair	TF/TG Editor	Interested Party
101. Intro SA P&P		1	1	<i>✓</i>	
111. Adv SA P&P	✓		1		
201. Intro Editing	✓		1	1	
211. Adv Editing				1	
301. Intro RRoO	1		1	<i>✓</i>	
311. Adv RRoO	✓		1		
401. Intro 802 P&P	✓	1	✓	1	
411. Adv 802 P&P	1	1	1		
421. 802 Finance	✓	1			



## **Program progress**

- Conference calls with IEEE-SA staff
- Conference calls with potential vendors
- Development of requirements document
   & request for quotation
- More conference calls planned for this week
- IEEE-SA staff support T.B.D.



## **Courses offered this week**

- Introduction to IEEE-SA P&P
  - PAR, balloting, RevCom submittal
  - Monday night, 8:00 9:30 pm
  - Andy Ickowicz, Dave Ringle, Howard
- Advanced topics in editing and Framemaker
  - Interactive editing session, bring your laptops
  - Tuesday night, 8:00 9:30 pm
  - Featuring J Lo



## Meetings planned for this week

- Conference calls planned with Avilar, KnowledgeNet, Unreal productions, Tuesday morning to review RFQ
- Need ~1 hour meeting Thursday am to consider quotes and draft funding proposal
- Goal is to present funding proposal to EC on Friday



There will be a meeting Thursday 11-noon to consider quotes and draft a funding proposal.

5.22 II 802.18 Radio Regulatory TAG Status Update - Stevenson 5 09:14	5.22
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## 802.18 RR-TAG Opening Report

- Report on May 04 Interim Meeting
- Objectives for this Meeting
- Update on Significant Regulatory Issues

### Report on May 04 Interim Meeting

- Prepared and approved 4 regulatory documents for FCC filing
  - 18-04-0020-00-0000\_04-37\_BPL\_Rep\_Cmts.doc
    - Filed on the deadline date
  - 18-04-0022-00-0000\_3GHz\_NPRM\_Cmts.doc
    - Filing deadline is July 28, will seek approval as 802 doc at the EC meeting this session
  - 18-04-0024-00-0000\_Wireless\_broadband\_comments.doc
    - Filed on the deadline date
  - 18-04-0025-00-0000\_cognitive-radio-rep-cmts.doc
    - Filed on the deadline date

### Report on May 04 Interim Meeting (cont.)

- Prepared and approved 1 regulatory document for Industry Canada
  - 18-04-0023-00-0000\_Industry\_Canada\_Cmts.doc
    - Filed on the deadline date
- SG1 and 802.18 finalized and approved a PAR and 5 Criteria for Wireless Regional Area Networks ("WRANs") using cognitive techniques to facilitate operation of unlicensed broadband networks in unused TV broadcast spectrum (in response to an FCC NPRM on this topic)

## Planned Objectives for This Meeting

- Prepare regulatory documents as time permits (will prioritize at 802.18 opening meeting slot)
  - FCC TV band NPRM comments
  - ITU-R contribution on 5 GHz protection criterion PDNR
  - Seek to "upgrade" 3 GHz comments from a .18 document to an 802 document
  - Others TBD
- Hold meetings of SG1 Mon., Tue., and (if necessary) Thu. Evenings
  - Respond to WG and EC comments on PAR and 5 criteria in preparation for the closing EC meeting on Friday afternoon

## Significant Pending Regulatory Issues

- FCC NPRM on unlicensed use of unused TV broadcast channels
- FCC NPRM on 3650-3700 MHz
- ITU-R PDNR on 5 GHz protection criterion
- Possible ITU-R WP9B contribution from .16?

### Please consider (active) participation in 802.18!

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

There was concern expressed that there was no tutorial on the subject of the PAR submitted by 802.18. Concern was also expressed that the PAR was not sent to the EC reflector. Paul asked that the working groups consider the PAR and the procedure and that a decision will be made on Friday.

### 5.23 MI Invitation of Julius Knapp (FCC OET) and waiver of meeting fee - Stevenson 10 09:19 AM

5

Carl asked that the EC invite Julius Knapp to the November meeting and that Paul waive his meeting fee.

5.24	II	802.19 Coexistence TAG Status Update	-	Shellhammer	5	09:24 AM
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# IEEE 802.19 Wireless Coexistence TAG

# July 2004 Opening Report

Steve Shellhammer shellhammer@ieee.org

## TAG Letter Ballot

- The 802.19 Coexistence TAG held a letter ballot to submit proposed 802 P&P changes (802.19/04-0010r4) to the Executive Committee.
- The letter ballot was approved unanimously

– Yes	10
– No	0
– Abstain	0

## Plans for the Week

- Discuss proposed 802 P&P changes for coexistence, at the Sunday night 802 P&P meeting
  - IEEE 802.19-04/0010r4
- Tutorial on Wireless Coexistence (Tuesday 6:30 PM)
- Joint meeting with 802.16 Licensed Exempt Ad-Hoc committee (Tuesday 10:30 AM)
- Joint meeting with 802.11n Task Group (Wednesday 1:30 PM)
- Work on Coexistence Assurance Methodology
- Motion for SEC letter ballot on proposed changes to 802 P&P

### IEEE SA Patent Policy

### • 6. Patents

- IEEE <u>standards</u> 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.

#### 5.25 II IETF access to 802 drafts

"This letter is a response to the IETF request to IEEE 802 to allow access to relevant IEEE 802 archives for IETF Working Groups. Upon discussion within the IEEE 802 Executive Committee the following policy has been adopted:

The IEEE 802 WG chairs have the authority to grant membership in their WGs. They can use this authority to grant membership to an IETF WG chair upon request by that IETF WG chair. As a member of the IEEE WG, the IETF WG chair will be provided with archive access to the IEEE 802 WG's information (e.g., username/password for access to document archives), and will be permitted to share that information with the membership of the IETF WG. IEEE 802 WG information that is IEEE SA copyright controlled, for example, working drafts of standards, shall be used by the IETF WG solely for the purposes of IETF research and standards development and shall not be redistributed outside of the IETF WG, or made use of in IETF drafts, without prior approval.

A list of IEEE 802 WG chairs and contact information will be made available to the IETF WG chairs to facilitate this interaction."

	5.26	II	Report on 802 position statement regarding rejected projects	-	Thompson	10	09:44 AM	
~	Geoff reported that he will pursue this item this week. He will also discuss this at the 802 Task Force meeting on Wednesday.							
5	5.27	II	802.3 PARs: 802.3ar	-	Grow	3	09:47 AM	
	.3ar is	to accor	mmodate additional preamble and postamble for new 802.1 standards.					
	5.28	II	802.16 PARs: 802.16e, 802.16f, 802.16g	-	Marks	3	09:50 AM	
10	10 .16e modification of existing PAR .16f is to define a MIB, .16g is a definition of a management plane. Roger indicates that he may come in on Friday with a fourth PAR for maintenance.							
	5.29	II	802.11 PARs: 802.11p, 802.11T	-	Kerry	3	09:53 AM	
15	Stuart reported that the WG approved the PARs for .11p and .11T by email ballot after the last interim meeting.							
15	5.30	II	802.11 SG: AP functional description	-	Kerry	3	09:56 AM	
Stuart announced that he will be bringing a motion to approve a study group on Friday.								

5.31 MI 802.11 press release: 802.11i, 802.11r & 802.11s - Kerry 5 10:01 AM

### **DRAFT: 6/25/04**

Contact: Stuart Kerry, Chair of the 802.11 Working Group 408-348-3171; stuart@ok-brit.com or Karen McCabe, IEEE Senior Marketing Manager +1 732-562-3824, <u>k.mccabe@ieee.org</u>

### IEEE STANDARD AMENDED TO GREATLY ENHANCE WIRELESS LOCAL AREA NETWORK SECURITY

### IEEE 802.11i<sup>™</sup> to Enable Multi-Vendor, Interoperable and Secure WLAN Products

**PISCATAWAY, N.J., USA, 24 June 2004** – With the security of information and access an ongoing concern in the use of wireless local area networks (WLAN), the IEEE has approved a new amendment that greatly enhances security in IEEE 802.11<sup>TM</sup> WLANs. The amendment, IEEE 802.11<sup>TM</sup>, will enable WLAN vendors to offer highly secure wireless network interface cards, access points and other products.

"IEEE 802.11i was developed by leading experts in network security to give end users and network administrators a high level of assurance that the integrity of their networks and data will not be compromised," said Stuart J. Kerry, Chair of the IEEE 802.11 standards committee.

IEEE 802.11i, "Wireless LAN Medium Access Control (MAC) and Physical Layer (PHY) Specifications: Medium Access Control (MAC) Security Enhancement," leverages security technology that has emerged since the original IEEE 802.11 standard was written in the late 1990s. These developments include the Advanced Encryption Standard (AES) and the IEEE 802.1X<sup>TM</sup> standard for access control.

"We wrote this amendment to support the wide range of users whose systems extend from small and simple units to large, complex networks," said David Halasz, Chair of the IEEE 802.11i Task Group.

The amendment allows for security improvements in existing wireless LAN products (through firmware upgrades). Most current products can be upgraded to use certain IEEE 802.11i features, such as Temporal Key Integrity Protocol and IEEE 802.1x authentication. This provides a considerable security improvement over the Wired Equivalent Privacy feature in the original standard. The amendment also contains options for backward compatibility with the original standard.

Even greater security can be gained in new products having new hardware architecture. Products coming on the market will be able to use the most advanced features of IEEE 802.11i, such as AES methods, key caching and pre-authentication for persistent authentication, which allows mobile stations to switch from one access point to another without incurring the time overhead of a key exchange each time.

"These and other enhancements in the amendment should assure that IEEE 802.11i-based wireless LAN products can meet the demanding security goals of the growing range of IEEE 802.11 WLAN applications expected in the future," Kerry said.

IEEE 802.11 standards form a family of specifications that define how WLAN equipment should be produced so equipment from different manufacturers can work together. IEEE 802.11i was developed by the IEEE 802.11 Working Group, which is sponsored by the IEEE 802<sup>®</sup> LAN/MAN Standards Committee of the IEEE Computer Society. For further information, visit: http://www.ieee802.org.

### **About the IEEE Standards Association**

The IEEE Standards Association, a globally recognized standards-setting body, develops consensus standards through an open process that brings diverse parts of an industry together. These standards set specifications and procedures based on current scientific consensus. The IEEE-SA has a portfolio of more than 870 completed standards and more than 400 standards in development. Over 15,000 IEEE members worldwide belong to IEEE-SA and voluntarily participate in standards activities. For further information on IEEE-SA see: <u>http://www.standards.ieee.org/</u>.

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# # #

Motion: To approve press release for 802.11i Moved: Stuart Kerry/Buzz Rigsbee Passes: 14/0/0

### **DRAFT: 5/13/04**

Contact: Stuart J. Kerry, IEEE 802.11 Working Group Chair +1 408 991 4854, <u>stuart.kerry@philips.com</u> or Brian Mathews, IEEE 802.11 Publicity Chair +1 321 259 0737, brian@<u>linux-wlan.com</u> or Karen McCabe, IEEE Senior Marketing Manager +1 732 562 3824, <u>k.mccabe@www.ieee.org</u>

### IEEE APPROVES TWO WIRELESS LAN PROJECTS THAT ADDRESS FAST ROAMING AND MESH STANDARDS

### Fast Roaming Standard to Support Mobile, Voice-Over IP Services; Mesh Standard to Extend Range of WLAN Access Points

PISCATAWAY, N.J., USA, \_\_\_\_ April 2004 -- The IEEE has approved the start of work on two projects for fast roaming and mesh applications in wireless local area networks (WLAN). The fast roaming project, IEEE P802.11r<sup>TM</sup>, will make it easier to use wireless voice-over-IP (VOIP) and other real-time interactive applications. The mesh project, IEEE P802.11s<sup>TM</sup>, will extend WLAN range by allowing data to pass through wireless nodes.

The Fast Roaming Task Group will standardize MAC layer enhancements that minimize non-connectivity time between a roaming WLAN unit and the wired access points within a local area network. The standard will seek to foster the use of mobile, wireless VOIP phones and other time-sensitive WLAN applications by eliminating perceptible disconnections as 802.11<sup>TM</sup>-based handsets transition from one access point to another during a handoff within a local area network such as in a hospital, an office environment, or a college campus.

Task Group s will create a mesh service standard so wireless access nodes spread over a large area can connect to a main node. This arrangement will extend coverage beyond the typical WLAN connectivity limit of 300 ft. from an access point and make it quicker and easier to install WLAN service without hard-wired connections. In a mesh, a single access point can serve a large facility or broad sensor array. Mesh networks can also allow the military to place repeater nodes on mobile units that link to a central point or let a fireman become a node in a communications network in an emergency.

"The IEEE 802.11 Working Group is committed to creating standards for all aspects of wireless LAN operation worldwide," said Stuart J. Kerry, Chairman of the IEEE P802.11 standards committee. "Task Groups r and s reflect this commitment. The standards they will develop should help open a variety of new WLAN applications and continue to promote the rapid growth of IEEE 802.11-based wireless systems."

New IEEE 802.11 study groups are also being formed for wireless interworking with external networks and wireless network management. These will join the newly created Wireless Performance Prediction Study Group.

"I am pleased to see the continued strong industry support for the development of new projects within the Local and Metropolitan Area Networks Standards Committee (LMSC). This new work is an excellent indicator of the vitality of the data communications industry and the important role the IEEE 802 LMSC plays in it," said Paul Nikolich, Chairman of the IEEE P802 LMSC.

IEEE 802.11 standards form a family of specifications that define how WLAN equipment should be produced so equipment from different manufacturers can work together. The standards are developed by the IEEE 802.11 Working Group, which is

2

sponsored by the IEEE 802 LAN/MAN Standards Committee of the IEEE Computer Society. For further information, visit: http://www.ieee802.org.

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# # #

### Motion: to approve the press release for 802.11r and 802.11s. Moved: Stuart Kerry/Carl Stevenson

A question was raised about objections from 802.21 and how they were addressed. Stuart said that the WG did not believe there is any conflict, but would withdraw the motion to address the issue with 802.21 during the week.

#### Motion withdrawn

5

5.32 II 802.19 proposed changes to P&P

- Shellhammer 3 10:04 AM

# IEEE 802.19 Wireless Coexistence TAG

# Proposed Changes to 802 Policies and Procedures

### Steve Shellhammer shellhammer@ieee.org

## IEEE 802.19/04-0010r4

6.6 Coexistence

- For a wireless project to be authorized, the WG is required to produce a Coexistence Assurance (CA) document to be submitted with their draft unless there is a compelling reason to omit this step.
  - Working Group will submit a CA document with the draft
  - Working Group will not submit a CA document

If no CA document, state reason:

## IEEE 802.19/04-0010r4

### Procedure 11 PROCEDURE FOR APPROVAL TO FORWARD A DRAFT WIRELESS STANDARD

- In the process of preparing for Sponsor Ballot, the WG shall provide the coexistence assurance (CA) document to the 802.19 TAG no less than 60 days prior to requesting that the LMSC SEC send the draft to sponsor ballot. The LMSC recommends that the WG provide the CA document to 802.19 prior to WG letter ballot.
- The TAG shall give its technical comments on the CA document within 45 days after receipt.
- The 802.19 TAG will evaluate if the CA methodology was applied appropriately and reported correctly. The LMSC shall make the final determination on whether the coexistence necessary for the standard or amendment, as defined by the WG, has been met.

## TAG Letter Ballot

- The 802.19 Coexistence TAG held a letter ballot to submit proposed 802 P&P changes (802.19/04-0010r4) to the Executive Committee.
- The letter ballot was approved unanimously

– Yes	10
– No	0
– Abstain	0

#### Potential Changes

- Require CA document at WG letter ballot, and updated CA document at Sponsor Ballot
- Restrict requirement to standards in unlicensed bands
- 802.19 TAG to offer its technical recommendations
- Drop the Sixth Criteria

#### Plan going Forward

- Meet one-on-one with EC members to discuss their issues with proposed changes
- Update document to address issues
- Potentially, make a motion on Friday to hold a EC letter ballot on proposed P&P changes.

5.33	II	802.18 PAR	-	Stevenson	3	10:07 AM
5.34	MI	802.17 press release	-	Takefman	5	10:12 AM

#### **DRAFT: 7/5/04**

Contact: Michael Takefman, Chair of the Resilient Packet Ring Working Group +1 613-271-3399; tak@cisco.com or Karen McCabe, IEEE Senior Marketing Manager +1 732-562-3824; <u>k.mccabe@ieee.org</u>

#### IEEE APPROVES HIGH-SPEED RESILIENT PACKET RING STANDARD

#### IEEE 802.17<sup>™</sup> Optimizes Packet Transmission at Multi Gb/s Rates for Local, Metropolitan and Wide Area Networks

PISCATAWAY, N.J., USA, \_\_\_ July 2004 – The IEEE has approved a new networking standard for high-speed packet transmission in local, metro, and regional optical fiber ring topologies. The standard, IEEE 802.17<sup>™</sup>, "Local and Metropolitan Area Networks-Specific Requirements-Part 17: Resilient Packet Ring (RPR) Access Method & Physical Layer Specifications," defines a network optimized for packet transmission at rates scalable to multiple gigabits per second in resilient ring systems.

The protocol offered in this standard will enable the fiber optic rings widely deployed in local, municipal and wide area networks to carry more data, voice and video content with greater reliability, efficiency and economy. In addition to a new Media Access Control (MAC) method, the standard includes appropriate physical layer specifications and promotes multi-vendor interoperability. Its potential base of users includes carriers, carrier-neutral service providers, data centers, and metropolitan pointof-presence facility providers. IEEE 802.17 Working Group is sponsored by the IEEE Computer Society,

LAN/MAN Standards Committee. Development of the standard involved those from nearly all aspects of the industry, such as carriers, service providers, systems vendors, public network providers, and academic and nonprofit organizations. For information on the Resilient Packet Ring Working Group and its activities, visit:

http://www.ieee802.org/17/.

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# # #

Mike displayed the draft press release. He indicated the WG would be editing it this week.

5.35	Π	802.17a sponsor ballot update - forwarding to RevCom	-	Takefman	3	10:15 AM
5.36	II	802.17b call for interest - spatial aware bridging sublayer	-	Takefman	3	10:18 AM
5.37	II	Report from Architecture Group	-	Jeffree	10	10:18 AM

### 802 Architecture Group

### Intent

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

### Mechanism

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

# Purpose

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

# Outputs

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

## Actions

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

- MAC Service definition (currently a revision PAR in place)
- QoS could be better expressed
- Security expressed as a set of procedures after network entry
- Management scope and interface
- MIB definition for service discovery
- Where work gets done 802.1 vs 802.X

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

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

- Protocol definition vs scope
- Security
- Bridging compatibility handling of multicasts, no clause
   6 section for .1D
- LLC acts as a block to passing additional (e.g., QoS) parameters
- Mesh (not the same as the .11 issue though)
- QoS
- Architectural consistency across three MACs

#### • Security

- has to roll its own EAP transport as .1X/AF
- is above the LLC
- No PKI model in .1X/AF
- No 3 party key establishment/authentication model in .1X/AF
- Model
  - ISS definition is in flux in .1
- QoS
  - No standard way to pass upper layer QoS requirements through to MAC level QoS parameters
  - LLC acts as a block
- Bridging compatibility handling of multicasts, no clause 6 section for .1D
- .1AE assumes that frames look like 802.3 frames; not flexible enough to accommodate .16 frame structure

- Security
- CFI improve bridging for spatial re-use
- CoS/QoS & bridging

- Needs to support handoff not clear how to deal with L2 handoff in current architecture
- Security
  - has to roll its own EAP transport as .1X/AF
  - is above the LLC
  - No PKI model in .1X/AF
  - No 3 party key establishment/authentication model in .1X/AF
- QoS
  - No standard way to pass upper layer QoS requirements through to MAC level QoS parameters
  - LLC acts as a block
- Compatibility between 802.20 frame and LLC frame

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

# Topics for next meeting (November '04)

- Solicit input on:
  - Further refinement of current issues list
  - New issues to be added
  - Proposals for resolution of issues on the list

5.38	MI		-		10:18 AM
5.39	MI		-		10:18 AM
5.40	II		-		10:18 AM
5.41	MI		-		10:18 AM
5.42	MI		-		10:18 AM
5.43	MI		-		10:18 AM
5.44	DT	SEC meeting schedule (rules, SA, etc.)	- Nikolich	3	10:21 AM

# EC meetings

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

#### ADJOURN SEC MEETING

Moved: to adjourn Moved: Buzz Rigsbee/Jerry Upton Passes: 14/0/0

5 Adjourned at 9:55am.

- Nikolich

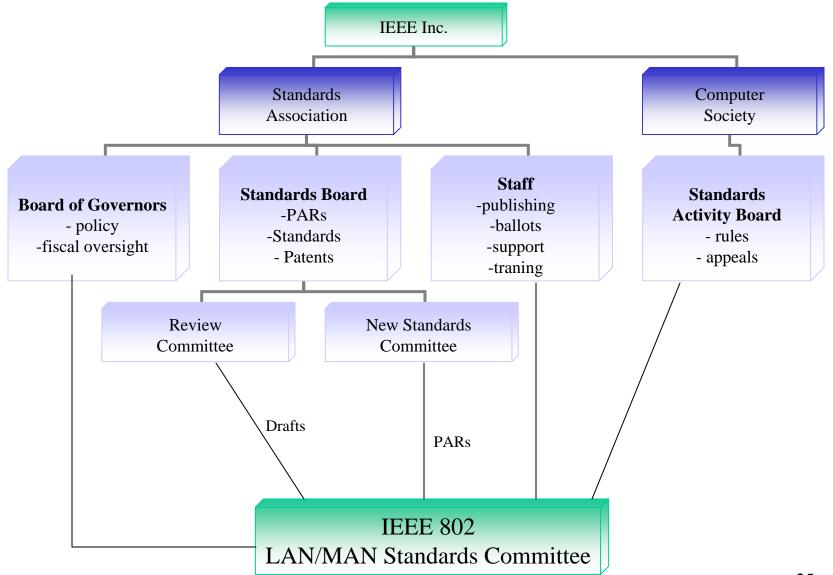
#### 6.00 PL IEEE 802 PLENARY MEETING STARTS

- Nikolich

60 11:00 AM

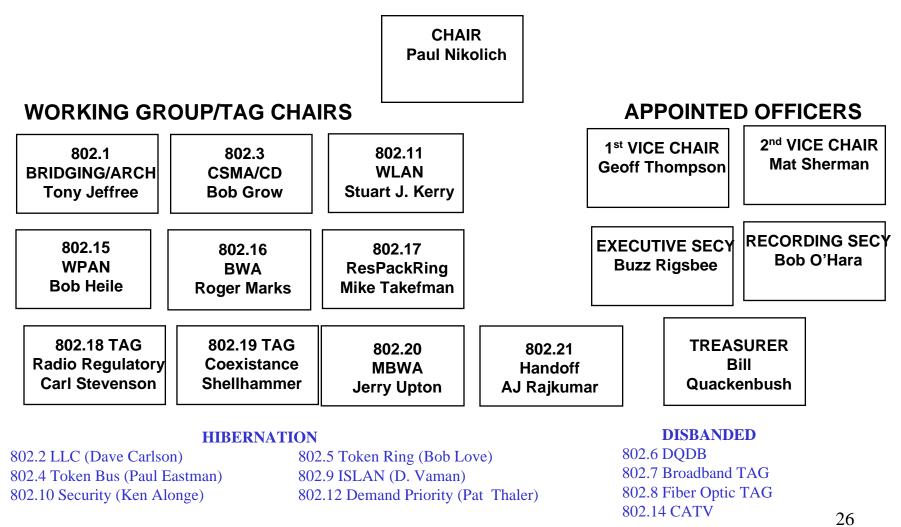
#### IEEE802 Monday Plenary Agenda

•	11:00	Welcome	Nikolich
•	11:02	Patent Policy and Membership Rules	Frazier
•	11.04	IEEE 802 Operating Rules Update	Sherman
•	11:06	Treasurer's Report	Quackenbush
•	11:08	In Mememorium	Thompson
•	11:10	802.1 Architecture & Interworking	Jeffree
•	11:15	802.3 CSMA/CD (Ethernet)	Grow
•	11:20	802.11 WLAN (Wireless Local Area Network)	Kerry
•	11:25	802.15 WPAN (Wireless Personal Area Network)	Heile
•	11:30	802.16 BWA (Broadband Wireless Access)	Marks
•	11:35	802.17 RPR (Resilient Packet Ring)	Takefman
•	11:40	802.18 Radio Regulatory TAG	Stevenson
•	11:45	802.19 Coexistance TAG	Shellhammer
•	11:50	802.20 Mobile BWA	Upton
•	11:55	802.21 Handoff	Rajkumar
•	11:55	Tutorials	Nikolich
•	11:57	Meeting Arrangements	Rigsbee
•	12:00	ADJOURN	
•	<u>ww</u>	w.ieee802.org closing SEC Meeting: 1-6pm, Frid	day Plenary



## **IEEE 802 ORGANIZATION**

#### SPONSOR EXECUTIVE COMMITTEE (SEC)



# Patent Policy (see next three slides)

# Instructions for the WG Chair

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

## IEEE-SA Standards Board Bylaws on Patents

#### in Standards

#### 6. Patents

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

a) A general disclaimer to the effect that the patentee will not enforce any of its present or future patent(s) whose use would be required to implement either mandatory or optional potions of the proposed IEEE standard against any person or entity complying with the standard; or

b) A statement that a license for such implementation will be made available without compensation or under reasonable rates, with reasonable terms and conditions that are demonstrably free of any unfair discrimination.

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

### Inappropriate Topics for IEEE WG Meetings

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

If you have questions, contact the IEEE-SA Standards Board Patent Committee Administrator at patcom@ieee.org or visit http://standards.ieee.org/board/pat/index.html

## IEEE 802 Membership

Howard explains membership criteria

#### LMSC Policy and Procedures Update

#### Author:

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

Date: July 12th, 2004

# LMSC P&P Maintenance Activities

- In process ballots (To be voted for approval Friday)
  - SA model sponsor P&P reformat (Matthew Sherman)
- SOW to SA for P&P Support
- Pending ballots
  - Coexistence P&P Revision (Steve Shellhammer)
  - SA conformance P&P Revision (Matthew Sherman)
- "Operating Rules" Subcommittee meeting 7/11/04
  - Discussions on pending Coexistence P&P Revision
  - Comment resolution on SA model sponsor P&P reformat

## Ballot to Reformat LMSC P&P

- Intended to be purely reformatting of existing rules
  - Some text added to match format of Sponsor P&P
  - New text should not introduce new rules
    - Cross reference existing rules
- If anyone objects to specific text
  - will remove change or amend
- Next P&P revision will be more than editorial

# Rationale for Restructuring P&P

- Current P&P has been "patched" for 20 years
  - Inconsistencies have crept in
- P&P viewed as "Broken" by many EC members
  - Identified as single most critical issue during 802 restructuring discussions
- Unable to keep up with number of revisions required
  - Was doing 3+ revisions per plenary cycle
    - Did not keep up with revisions required
- SA Rules have changed over time
  - Need through review to check compliance
- CS SAB doing complete rewrite of their rules
  - Requirements impact our rules
- Need complete rewrite of P&P
  - Note that CS SAB also rewriting their P&P

## **Restructuring Process**

- Reformat to match Sponsor Model (1 Cycle)
  - Editorial in Nature
- Modify for conformance (1 Cycle)
  - Identify where requirements of SA and CS SAB not met
  - Introduce changes to bring into conformance
- Streamline (1 Cycle)
  - Implement "Less is More"
  - Fix any deficiencies specific to 802
- Entire process to take roughly 1 year

# Rationale for Reformatting to Matching SA Sponsor Model

- New CS SAB P&P being balloted
  - Section 5.5 titled Sponsor P&P
    - "Each Sponsor shall have and shall adhere to a set of P&P's based upon the IEEE SA Model Operating Procedures for Sponsors for Standards Development."
- AUDCOM will now be Auditing our P&P
  - CS SAB wants to get out of this role (though will still review)
  - Model comes from AUDCOM and accomplishes two things:
    - Make sure all the key requirements of SA are addressed in sponsor P&P
    - Make it easier to review the many P&P AUDCOM has to look at.
- AUDCOM views Model Sponsor P&P as more than a recommendation
  - Note at top of Model Sponsor P&P
    - "... your Sponsor procedures must address each of the items below in bold-face type with text that is consistent with the IEEE-SA governance documents (IEEE-SA Standards Board Bylaws and Operations Manual)"
    - Must include Model Sponsor P&P Headings (and organization)

## SA Sponsor Model Ballot Status

- Ballot completed
  - Substantial comments from Bob O'Hara and Bill Quackenbush
- Changes circulated to address comments from Bob and Bill
  - Reviewed at Operating Rules meeting
- Additional changes being circulated to accommodate comments in Operating Rules meeting
- Will bring to vote on Friday

## SOW to SA for P&P Support

- Feedback received from SA on SOW
  - Key staff not available till Jan '05
  - Will delay start of project to Nov '04
- SA preparing 2<sup>nd</sup> rev of SOW
  - Accounts for feedback to date
- Will circulate with EC tomorrow
- Will have ad-hoc to review Wednesday
- Will ask for contingent approval of funding Friday

# Planned P&P Revisions

- Conformance with SA/SAB requirements
  - Part of overall restructuring process
  - Will also try an "simplify" P&P modification procedure
    - Current process more than SA requires and large burden
      - Limits throughput on changes
    - Next cycle will streamline P&P
      - Will consist of many smaller ballots
      - Want to adjust modification process in time for these ballots
- Coexistence
  - Implement P&P changes to address wireless coexistence issues (Steve Shellhammer)

#### IEEE Project 802 Statement of Operations March 2004 Plenary Session Lake Buena Vista, FL As of June 30, 2004

As of June 50, 20	04		
Session Income	Actual	Budget	Deviation
Net Registrations	1,376	1,100	276
844 Registrations @ \$300 253,200	.,	198,000	55,200
532 Registrations @ \$350 186,200		154,000	32,200
21 Cancellation @ \$50 1,050		104,000	52,200
0 Cancellations @ 0			
6			
0 Other @ \$100 <u>0</u> Registraion Subtotal 440,450	440,450	352,000	88,450
0 Deadbeat Payment @ \$350	440,430 0	002,000 0	•
Interest	64	60	0 4
Other	04	00	4
	-		-
TOTAL Session Income	440,514	352,060	88,454
Session Expenses	Actual	Budget	
Audio Visual Rentals	19,537	15,000	(1 527)
Audio Visual Remais	19,557	6,000	(4,537) 6,000
	120	278	0,000 159
Bank Charges	3,021	3,500	479
Copying Credit Card Discounts & Fees	3,021 12,131	3,500 9,504	(2,627)
Equipment Expenses	20,405	9,004 9,000	(11,405)
Get IEEE 802 Conttribution	102,225	9,000 82,500	(19,725)
Insurance	2,713	3,000	287
Meeting Administration	82,059	68,025	(14,034)
Misc Expenses	3,372	500	(14,034)
Networking	27,026	34,388	7,363
Phone & Electrical	966	2,100	1,134
Refreshments	109,285	91,300	(17,985)
Shipping	6,580	5,000	(1,580)
Social	50,641	31,680	(18,961)
Supplies	1,093	500	(593)
TOTAL Session Expense	441,173	362,275	(78,897)
-	-		
NET Session Surplus/(Deficit)	(659)	(10,215)	9,557
Analysis		00	
Refreshments per registration	79	83	4
Social per registration	37	29	(8)
Meeting Admin per registration	59.64	61.84	2
Surplus/(Loss) per registration	(0)	(9)	9
Pre-Registration ratio	0.61	0.60	
Reserve for uninvoiced expenses for prior sessions	0		
Reserve for other outstanding commitments	1,750		
Expenses prepaid for current session	27,123		
Expenses prepaid for future sessions	2,190		
July 2004 Operating Reserve	299,073		

Paul announced that Bill will be retiring form his position as treasurer at the end of this session. He thanked Bill for his meticulous and loyal service to 802. Paul then introduced John Hawkins, whim he intends to appoint to fill the position at the closing EC meeting.



#### In Memoriam: Peter J. Tarrant, 1960 – 2004

#### Obit

Peter Tarrant, a major participant in Ethernet standards development, died in Los Gatos, California last Thursday, July 9, 2004 from a sudden reoccurrence of malignant melanoma.

- Peter was a key player in the development of 10 Mb/s fiber optic Ethernet products for BICC Data Networks in the UK and early Ethernet fiber standards. Peter also served as the chairman of the 802.3 Higher Speed Study Group that resulted in the 802.3u and 802.12 standards. He also served briefly on the 802 SEC as the chair of the shortest lived Working Group on record, 802.30.
- Peter came to California from the UK and worked for SynOptics/Bay Networks and went on to be the founding VP of Marketing for Brocade Networks.
- Peter's other passion was automotive racing and he sponsored the very successful Stefan Johansson Audi Racing Team of the American LeMans Series for the 2001 season. The photo is from a party that Peter threw when the team raced at Laguna Seca in Northern California in September of that year.

Peter is survived by his parents, John and Jo, his brother Simon and sister Sue, all of the UK.

There will be service both in California and England. Arrangements are still pending. If you would like to be added to a list to be notified or wish me to pass a note to the family please send me an e-mail via <thompson@ieee.org>.

#### 802.1 – Activities & status

Tony Jeffree, 802.1 WG Chair 12<sup>th</sup> July 2003

## Areas of work

- 802 Architecture
- Interworking between 802 technologies
  - "Technical Plenary" if needed
  - Joint 802.1/802.3 TP this week Weds 10:30 AM in Embassy Suites
- MAC Bridging
  - "traditional" bridging
  - VLAN bridging
- Link Security
- LAN management (historical)
- Website: http://www.ieee802.org/1/

## Officers

- Chair: Tony Jeffree
- Vice Chair: Paul Congdon
- Recording Secretary: Michael Wright
- Interworking TG Chair: Mick Seaman
- Link Sec TG Chair: Dolors Sala
- Link Sec TG Secretary: Allyn Romanow
- Maintenance of Email exploder: Hal Keen

### Status of current projects - (1)

- 802.1Q VLANs
  - PAR for revising the standard (P802.1Q-Rev) has been approved – main work will be general cleanup plus alignment with revisions to MAC Bridge standard (802.1D)
- P802.1X-Rev Revision of 802.1X
  - Currently in Sponsor recirc ballot (closes today)
  - Comment resolution to be done in this meeting

## Status of current projects - (2)

- Llink layer discovery (P802.1AB)
  - Just completed first Sponsor ballot
  - Ballot comment resolution this week; recirc will happen in August timeframe
- MAC Service revision (P802.1ac)
  - Initial input generated based on ISO/IEC
     JTC1 standard 15802-1 plus ISS, E-ISS
     from 802.1D and 802.1Q

## Status of current projects - (3)

- P802.1ad Provider Bridges:
  - An amendment to 802.1Q
  - Work continuing on resolving comments on D2 Task Group ballot
  - Discussion this week on two further areas of work that may lead to PARs out of November meeting:
    - Revised GVRP
    - Backbone Provider Bridges

### Status of current projects - (4)

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

## IEEE 802.3 Working Group 12 July 2004

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

#### 802.3 Officers

- 802.3 Chair: Bob Grow (bob.grow@ieee.org)
- 802.3 Vice Chair: David Law (david\_law@3com.com)
- 802.3 Secretary: Steve Carlson (scarlson@esta.org)
- P802.3ah EFM: Howard Frazier (hfrazier@sbcglobal.net)
- P802.3REVam: David Law (david\_law@3com.com)
- P802.3an 10GBASE-T: Brad Booth (bradley.booth@intel.com)
- P802.3ap Backplane Ethernet: Adam Healey (ahealey@agere.com)
- P802.3aq 10GMMF: David Cunningham (david\_cunningham@agilent.com)
- Congestion Management SG: Ben Brown (benjamin.brown@ieee.org)

#### **IEEE 802.3 Standards**

- IEEE Std 802.3-2002 (8 Mar 2002)\*
- IEEE Std 802.3ae-2002 (30 Aug 2002)\*
- IEEE Std 802.3af-2003 (18 Jun 2003)\*
- IEEE Std 802.3aj-2003 (26 Sep 2003)\*
- IEEE Std 802.3ak-2004 (1 March 2004)
- P802.3ah/D3.3 (approved draft)
- IEEE Std 1802.3Rev-2001\*
- \* Available through Get IEEE 802 http://standards.ieee.org/getieee802/802.3.html

### P802.3ah Ethernet in the First Mile

- Project completed
  - P802.3ah/D3.3 approved by IEEE-SA Standards Board on June 24
  - Publication scheduled for August
- Meeting plan
  - No meeting this week
  - Final report to 802.3 Monday
- Thanks to the Task Force for a job well done!

### P802.3REVam

- Revision of IEEE Std 802.3
  - IEEE Std 802.3-2002
  - IEEE Std 802.3ae-2002
  - IEEE Std 802.3af-2003
  - IEEE Std 802.3aj-2003
  - IEEE Std 802.3ak-2004
  - IEEE Std 802.3ah-2004
- Meeting plan (Wed tentative 1:00pm)
  - Review and classify maintenance requests
  - Review comments on consolidated edition
  - Plan to go to request WG ballot

### P802.3an 10GBASE-T

- Extends Ethernet capabilities at 10 Gb/s
  - Operation over horizontal twisted pair
  - New physical layer to run under 803.2ae specified XGMII
- Meeting plan (Tues, Wed, Thu morn)
  - Technical presentations
  - Select core proposals for inclusion in first draft

### P802.3ap Backplane Ethernet

- Define Ethernet operation over electrical backplanes
  - 1Gb/s serial
  - 10Gb/s serial
  - 10Gb/s using XAUI based 4 lanes
  - Autonegotiation?
- Meeting plan (Tues, Wed, Thu morn)
  - Technical presentations
  - Work toward creation of first draft

### P802.3aq 10GBASE-LRM

- Extends Ethernet capabilities at 10 Gb/s
  - New physical layer to run under 803.2ae specified XGMII
  - Extends Ethernet capabilities at 10 Gb/s
  - Operation over FDDI-grade multi-mode fiber
- Meeting plan (Tues, Wed, Thu morn)
  - Technical presentations
  - Work toward creation of first draft

## **Congestion Management SG**

- Evaluate advisability of standardizing enhanced Ethernet congestion management capability
- Meeting plan (Tue, Wed, Thu morn)
  - Technical presentations
  - Work on PAR and Five Criteria

### Frame Format Extensions Ad Hoc

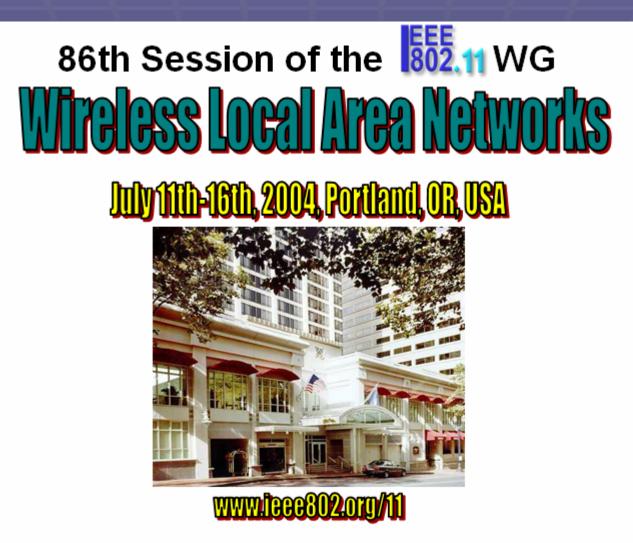
- Increase the maximum Ethernet frame size for protocol header/trailer additions
  - Initiated at the request of 802.1 in support of protocols like MACSec and Provider Bridging
  - Determine practical maximum allowed by 802.3 specifications rather than the current 1522 byte maximum
- Meeting plan (Tue)
  - Get approval to submit P802.3ar PAR
  - Work toward creation of first draft

#### **Other Activities**

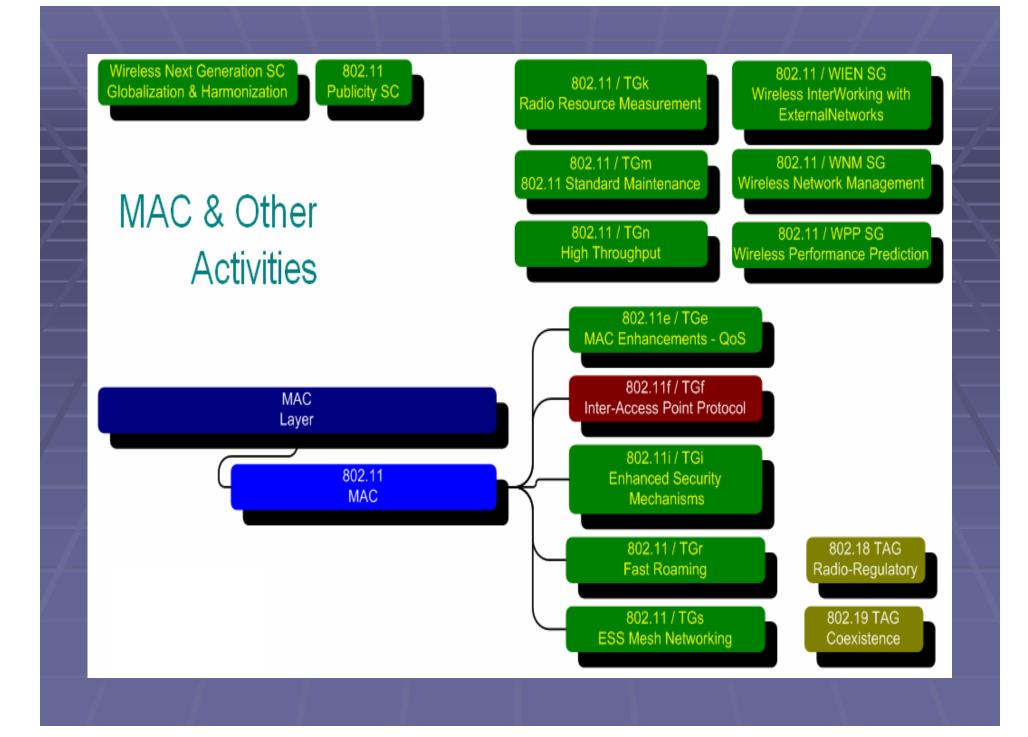
- Tuesday evening tutorial and call for interest
  - 6:30 Residential Ethernet CFI
  - -8:00 IEEE 1394 tutorial
- Interpretations, liaison matters, etc.

### **This Week's Meetings**

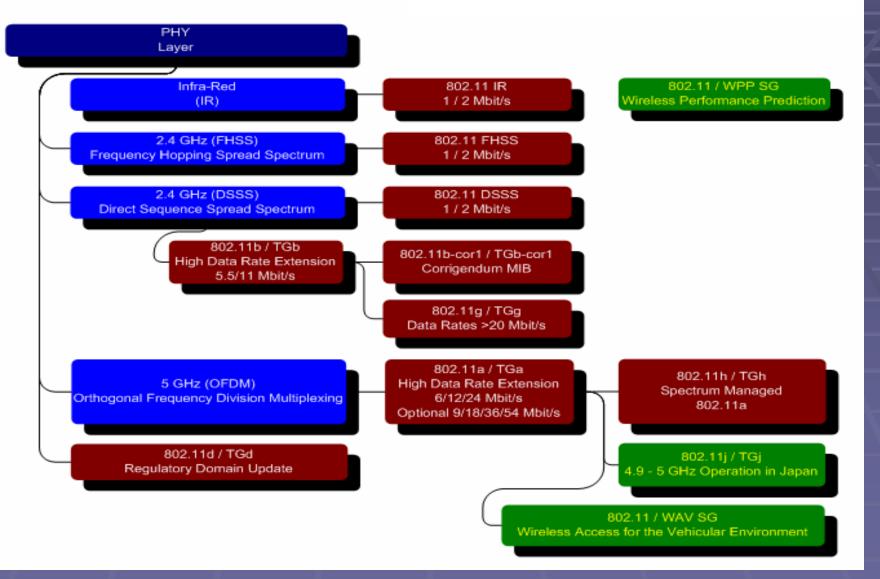
- Opening WG plenary starts at 1:00pm Embassy Suites
- TF and SG meetings, Tues morning through Thurs noon Embassy Suites
- Closing WG plenary, Thursday 1:00pm -- Hilton
- 802.3 Web Site: www.ieee802.org/3



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



#### PHY Acti∨ities





IEEE 802.11 WORKING GROUP OFFICERS				
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Charles R. Wright	WPP SG Chair	+1 (978) 268-9202	charles_wright@azimuthsystems.com	

	H	86th IEEE 802.11 WIRELESS LOCAL AREA NETWORKS SESSION							
	802.11	Hilton Portland & Executive Tower, 921 SW Sixth Avenue, Portland, OR 97204, USA							
	PLENARY	July 11th-16th, 2004							
		The graphic below describes the session of the IEEE P802.11 Working Group							
		SUNDAY (11th)		MONDAY (12th)		TUESDAY (13th)	VEDNESDAY (14th)	THURSDAY (15th)	FRIDAY (16th)
	07:00-08:00					802.11 WG, TG, SG, SC Editors meeting		802.11 WG CHAIRs ADVISORY COMMITTEE	
	08:00-08:30 08:30-09:00					DOD TOY TOD TOU VIEN	THE WIND THE VER VAN	VNM VNG	IEEE 802.11 VORKING
	09:00-09:30 09:30-10:00			802 EC MEETING		PSC TGK TGR TGN SG	TGE VNM TGM VPP VAV	TGM TGN TGS SG SC	GROUP CLOSING PLENARY
	10:00-10:30					Break	Break	Break	Break
ĺ	10:30-11:00					TOT TOK TOT TOU VIEN	IEEE 802.11 VORKING		
	<u>11:00-11:30</u> 11:30-12:00		(	02 OPENING PLENARY		TGE TGK TGR TGN SG	GROUP	TGM TGN TGS VNM VNG	CLOSING PLENARY (Continued)
	12:00-12:30 12:30-13:00					Lunch	MID-SESSION PLENARY Lunch	Lunch	12:00 pm Hard Stop Time
	13:00-13:30					Lanon	Luivi	Luion	
	13:30-15:30			VIRELESS 802 JOINT OPENING PLENARY		TGE TGK TGR TGS SGHZ			
				802.11 / 15 / 18 / 19 / 20 / 21		ADC	56 56	Su Su	
	15:30-16:00	11/15/18/19/20/21 LEADERSHIP		Break		Break	Break	Break	802 EC MEETING
	16:00-17:00			TGE TGK TGN TGR TGS			TGE TGK TGM TGN TGJ	TGE TGK TGR VPP VIEN	
	17:00-17:30 17:30-18:00	NEV MEMBERS Orientation				SG TGM SC TGS SG		IGE IGN IGN SG SG	
	18:00-18:30 18:30-19:00		TI	Dinner	T4	Dinner	Break	Dinner	
	19:00-19:30	00-19:30 00-20:00 802.11 WG CHAIRs 00-20:30 ADVISORY		Dime		Dinici			Session
	19:30-20:00 20:00-20:30			TGE TGK TGN TGR TGS	T5		Social Evening	TGE TGK TGR VPP 5GHZ	Hour Limits
	20:30-21:00 21:00-21:30	COMMITTEE (CAC)				SG TOM SC TOS SG		THE THE THE SG ADC	
	21:30-22:00 22:00-22:30		Т3		16				
	2240102224610								

#### 802.11 WORKING GROUP OBJECTIVES FOR THIS SESSION

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

- Update timeline chart for all 802.11 WG PARs & Projections for Completion
- IEEE 802.11 & Other Standards Bodies or Alliances administrative issues & co-ordination
- CAC Co-ordination with WG Chair

#### TASK GROUP E OBJECTIVES FOR THIS SESSION

802.11 - MAC Enhancements - QoS

- CHAIR JOHN FAKATSELIS / VICE-CHAR DUNCAN KITCHIN
- To resolve Sponsor Ballot comments, generate a new version of the draft.
  - Work towards submitting a Recirculation Ballot

#### TASK GROUP J OBJECTIVES FOR THIS SESSION

802.11 - 4.9 - 5 GHz Operation in Japan

#### CHAIR - SHEUNG LI

- Review New Japanese Standards Activities
- Review IEEE Activities on Balloting Process
- Review Sponsor and/or Sponsor Recirculation Ballot Results
- Review Comment Resolutions and Resolve Additional Comments as Necessary
- Request Working Group Actions as Necessary

#### TASK GROUP K OBJECTIVES FOR THIS SESSION

#### 802.11 - Radio Resource Measurements

#### CHAIR - RICHARD PAINE

- Security of Measurement Frames
- Integration of 2nd Task Group Review Technical Comments
- Letter Ballot Vote

#### TASK GROUP M OBJECTIVES FOR THIS SESSION 802.11 - Standard Maintenance

#### CHAIR - BOB O'HARA

- Respond to interpretation requests received
- Develop list of items for minor new functionality as part of standard revision
- Continue draft changes to standard to clarify areas identified in interpretation requests and list of work items developed
- Adopt 802.11rev/D0.1

### TASK GROUP N OBJECTIVES FOR THIS SESSION

802.11 - High Throughput

#### CHAIR - BRUCE KRAEMER

- Review call for proposals responses
- Meet with dot 19 & dot 18 on Interference and Regulatory
- Meet with dot 21 on network bridging
- Receive Presentations
- Review project timeline
- Prepare for new officer elections

### TASK GROUP R OBJECTIVES FOR THIS SESSION

802.11 - Fast Roaming

#### **CHAIR - CLINT CHAPLIN**

- Select recording secretary and possibly technical editor.
- Finish defining documents leading to call for proposals:
  - Scope, Requirements, Selection Criteria, Selection Process, Use Cases, Test Plan, and Current BSS Transition Mo
- Define which other groups to coordinate efforts with possible joint meetings
- Prepare for September meeting

### TASK GROUP S OBJECTIVES FOR THIS SESSION

802.11 - ESS Mesh Networking

CHAIR - DONALD EASTLAKE 3RD

- Election of Task Group Secretary and Technical Editor
- Usage Cases and Functional Requirements Discussions
- Adoption of an Initial Definitions Document
- Architecture Presentations
- Other ESS Mesh Ad-Hoc Subgroup Results, Presentations, and Discussions

### PUBLICITY STANDING COMMITTEE OBJECTIVES FOR THIS SESSION

802.11 / 802.15 - Joint Publicity

JOINT CHAIRS - BRIAN MATHEWS (802.11) / GLYN ROBERTS (802.15)

- Reports from industry groups
- Discuss press coverage of 802.11 & 802.15
- Discuss upcoming events requiring press release
- Discuss any needed communication improvements

### WNG STANDING COMMITTEE OBJECTIVES FOR THIS SESSION

802.11 - Wireless LANs Next Generation

#### CHAIR - TEIK-KHEONG "TK" TAN

- Updates from ETSI-BRAN. MMAC, radio regulatory
- AP Functional description and Behavior
- Next Generation Requirements for WLANs
- Prepare for IEEE Interim Sep 2004

### WAV STUDY GROUP OBJECTIVES FOR THIS SESSION

802.11 - Wireless Access for the Vehicular Environment

**CHAIR - LEE ARMSTRONG** 

Begin preparation of proposal for 802.11 amendment

### WIEN STUDY GROUP OBJECTIVES FOR THIS SESSION

802.11 - Wireless InterWorking with External Networks

#### **CHAIR - STEPHEN MCCANN**

- Technical submissions to refine scope and way forward
- Complete PAR and 5 Criteria documents
- Produce roadmap for study group
- Address open issues list

### WNM STUDY GROUP OBJECTIVES FOR THIS SESSION

802.11 - Wireless Network Management

CHAIR - HARRY R. WORSTELL

- Complete the Draft PAR and 5 Criteria
- Present Submissions

#### WPP STUDY GROUP OBJECTIVES FOR THIS SESSION

802.11 - Wireless Performance Prediction

#### CHAIR - CHARLES R. WRIGHT

- Resolve and approve comments to PAR/5 Criteria from 802
- Technical presentations

### 5GHZ AD-HOC COMMITTEE OBJECTIVES FOR THIS SESSION

802.11 - Chair's 5 GHz Ad-Hoc Committee

#### CHAIR - AL PETRICK

- Complete technical and editorial comments on draft letter wrt 802.11a minimal interference
- Complete draft letter 802.11a position paper to the ITU on 802.11a minimal interference requirements
- Seek 802.11 WG approval on the letter
- Forward to IEEE 802.18 chair and SEC for approval

#### IEEE 802.11 WLAN WORKING GROUP SESSIONS



All interested parties are welcome to attend our open Public meetings of the IEEE 802.11 Working Group, you do not have to be an IEEE member to attend. There is a registration fee, to defray the cost of the session. At Plenary sessions these are administered by the IEEE 802 LMSC organization. Whereas, the Interim sessions are normally managed by our sponsoring host. This is in-addition to your individual hotel accommodation, and travel expenses. Click here to view an Example Plenary and Interim Session Agenda, or review the latest Combined Tentative Agenda for the next IEEE 802.11 WG Session below.

	FUTURE SESSIONS			
For Year 2004	Interim Sessions to be Allocated if Required		Session	Туре
July 11th-16th	Portland Hilton, Portland, OR, USA - General Information	86	Plenary	
	802.11 WG, TGs, SGs & SC Combined Agendas	XLS		
	includes the WG Objectives & WG Graphic	Rev.0		
	Session Announcement	PDF or HTML		
	Session Hotel Booking	Click Here		
	Session Registration	Register Here		
	Other Information:			
	July 2004 Opening IEEE 802 Plenary Presentation	PPT (1)		
	July 2004 IEEE 802 Tutorial Agenda	PDF <sup>(1)</sup>		
September 12th-17th	Estrel Hotel Berlin, Germany - General Information - B	ooking TBD	87	Interim*
November 14th-19th	Hyatt Regency San Antonio, TX, USA - General Info	rmation - Booking TBD	88	Plenary
For Year 2005	Interim Sessions to be Allocated if Required		Session	Туре
January	To Be Determined <sup>(2)</sup>		89	Interim*
March 13th-18th	Hyatt Regency Atlanta, GA, USA - General Information	90	Plenary	
May	To Be Determined <sup>(2)</sup>		91	Interim*
July 17th-22nd	Hyatt Regency San Francisco, CA, USA - General Inf	ormation - Booking TBD	92	Plenary
September	To Be Determined <sup>(2)</sup>		93	Interim*
-	Hyatt Regency Vancouver, BC., Canada - General Info	ormation - Booking TBD	94	Plenary
For Year 2006	Interim Sessions to be Allocated if Required		Session	Туре
January	To Be Determined <sup>(2)</sup>		95	Interim*
March 12th-17th	Hyatt Regency New Orleans, LA, USA - General Info	rmation - Booking TBD	96	Plenary
May	To Be Determined <sup>(2)</sup>		97	Interim*
July 16th-21st	Manchester Grand Hyatt, San Diego, CA, USA - Gene	eral Info Booking TBD	98	Plenary
September	To Be Determined <sup>(2)</sup>		99	Interim*
-	<u>Hyatt Regency Dallas, TX, USA</u> - General Information	n - Booking TBD	100	Plenary

## Archive, Mailing Lists, URL

802.11 Web Site:

www.ieee802.org/11/

Members Site:

www.802wirelessworld.com

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

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

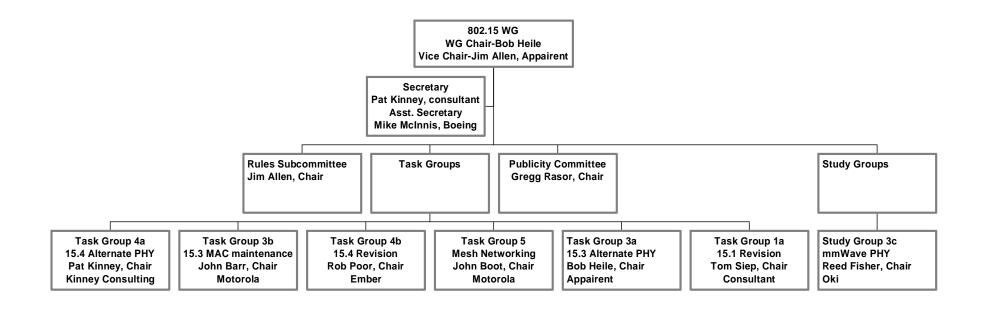


# 31st Session of meetings of the IEEE 802.15 Working Group for Wireless Personal Area Networks

### July 11-16, 2004

Hilton Portland & Executive Tower 921 SW Sixth Avenue Portland, OR 97204, USA

### 802.15 Functional Organization Chart



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

## Objectives of the PDX Meeting July 12-16, 2004

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

1. On hold during sponsor ballot

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

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

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

- 1. Organize and evaluate proposed changes to 802.15.3-2003
- 2. Assign drafting tasks

## Objectives of the PDX Meeting July 12-16, 2004

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

- **1. Drafting of Selection Criteria Document**
- 2. Draft the Call for Proposals and Issue
- 3. Channel Model Subcommittee Session
- 4. Joint Meeting with 802.15.4b regarding MAC

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

- **1. Review PAR and Timeline**
- 2. Tutorial Contributions
- **3.** Technical Contributions
- 4. Discuss, Review, Organize and Edit existing proposals
- 5. Joint Meeting with 802.15.4a regarding MAC

## Objectives of the PDX Meeting July 12-16, 2004

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

- **1.** Review of responses to CFA
- 2. Draft CFA Analysis Document
- 3. Draft Technical Requirements Document
- 4. Joint Meeting with 802.15.3b

### **STUDY GROUP 3C OBJECTIVES FOR THIS MEETING**

<b>R1</b>		31th IEEE 802.15 WPAN MEETING														
<b>N</b> I	Hilton Por	tland & Executiv	e To	Tower, 921 SW Sixth Av				venue, Portland, OR 97204, USA								
	July 11th-	16th, 2004														
		ow describes the weekly	session	of the I	EEE P80	2.15 WG	in grap	hic form	ř							
	SUNDAY	MONDAY			TUE	SDAY			WEDN	ESDAY			THUR	SDAY		FRIDAY
7:00-07:30												80	2.15 AC	MEETI	NG	
8:00-08:30	1				1	-	PC							1		
8:30-09:00				TG4b	TG3b	TG4a	with		TG	3a		SG3c	TG4a	TG3b	TG5	802.15 WG CLOSING
9:00-09:30 9:30-10:00		802 SEC MEETIN	G				802.11									
0:00-10:30	6. U				Br	eak			Bre	eak		Break			-	Break
0:30-11:00		Break				Ι										
1:00-11:30		802 PLENARY		TG4b	TG3b	TG4a	TG5	803	2.15 WG	MEET	NG	SG3c	TG4a	TG4b	TG5	802.15 WG CLOSING
1:30-12:00 2:00-12:30																
2:30-13:00		Lunch on Your Ov	vn	Lunch on Your Own		Lunch on Your Own							Lunch on Your Own			
3:00-13:30				LL	inch on	Your O	wn	Lu	ncn on	Your O	wn	Lunch on Your Own				
3:30-14:00 4:00-14:30		802.11 / 802.15 JO	NT													
4:00-14:30		OPENING PLENA		TG3a	TG3b	SG3c	TG5	TG3a	TG3b	TG4a	TG4b	TG3a	TG4a	TG4b	TG5	
5:00-15:30															802 SEC MEETING	
5:30-16:00	11 / 15 / R-REG	Break		Break		1	Break		Break				OUZ SEC MEETING			
6:00-16:30 6:30-17:00	LEADERSHIP MEETING			Horace III		10000					200 a					
7:00-17:30	NEW MEMBERS	TG3a		TG3a	TG3b	SG3c	TG5	TG3a	TG3b	TG4a	TG4b	TG3a	TG1a	TG4b	TG5	
7:30-18:00	ORIENTATION									L				ļ		
8:00-18:30 8:30-19:00	Dinner	Dinner on your own	Tut 1	Dinne	r on you		Tut 4	Break				Di	Dinner on your own			
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9:30-20:00	Optional	8 2 283 0		-	n 100			1								
0:00-20:30	Meeting Time	Optional Meeting Time	Tut 2	100 million (1997)	ional Ig Time	TG4a	Tut 5		So	cial		TG3a	TG1a	TG3b	SG3c	
1:00-21:30	802.15 AC	(ime)	<u> </u>	weeur	ig nine		<u> </u>									
1:30-22:00	MEETING		Tut 3				Tut 6									
2:00-22:30	and the second se				_	_	L								_	
						L	EGEND									
	TG1a	Task Group 1a B	luetooth I	Revision	Project	-	1	PC				Publi	city Comr	nittee		
	TG3a	Task Group	3a -High F	Rate Alt P	HY			TUT				EEE 802 T	utorials 1	, 2, 3 and		
	TG3b TG4a			E MAC maintenance SEC te Alternative PHY SG3c			802 SPONSOR EXECUTIVE COMMITTEE millimeter wave Interest Group									
	TG4b TG5	Study Group 4 Study Group						AC			8	02.15 AD	ISORY C	OMMITTE	E	

Submission

## Upcoming Meetings

- Plenary-Portland, July 12-16, 2004
- Interim-Berlin, September 13-17, 2004
- Plenary-San Antonio, Nov 15-19, 2004
- Interim-Monterey, CA Jan 17-21, 2005
- Plenary-Atlanta, March 13-18, 2005
- Interim-Sydney, May 16-20, 2005

2004-07-12

IEEE 802.16-04/39

# IEEE 802.16 Working Group on Broadband Wireless Access Roger Marks, Chair



IEEE 802.16 Working Group on Broadband Wireless Access (BWA)

802 LMSC Opening Plenary 12 July 2004 Portland, OR, USA

# 802.16 Membership

90 Members

79 Potential Members

77 Official Observers

Registration for this session

 -232: Primary
 -160: Secondary

# 802.16 Sessions

- #31: 17-20 May 2004

  Shenzhen, China (record attendance: 228)

  #32: 12-15 July 2004

  Portland, OR, USA (Pavilion Room)

  #33: 30 August 2 September 2004

  Seoul, Korea

  #34: 15-18 November 2004
  - San Antonio, TX, USA
- #35: 24-27 January 2005
   To be determined this Thursday

## **IEEE 802.16-2004**

- 915 pages
- Approved on 24 June 2004

- Gordon Antonello: Chair, Task Group d
- Itzik Kitroser, Technical Editor
- Considering opening of maintenance project

# Task Group C

- Ken Stanwood: Chair
- Gordon Antonello, Vice Chair

Series of conformance standards

 Current activity: – P802.16/Conformance 04 (PICS)

## P802.16e

- Brian Kiernan: Chair
- Ron Murias, Editor

- PAR approved 11 Dec 2002

   Modification for consideration this week
- Five "Call for Comments" Review cycles
- WG Letter Ballot opened in Feb 2004
  - Completed first recirc
  - Ran second recirc
    - Comment resolution this week

# Ad Hoc Committee on Licensed-Exempt Coexistence

Mariana Goldhamer, Chair

May be requesting to form Study Group

# 802.16's NetMan Study Group

- DJ Johnson: Chair
- Phil Barber, Vice Chair

Initiated in March 2004

 Submitted two amendment PARs – 802.16f: MIB

– 802.16g: Management Plane Procedures and Services

### IEEE 802.16 Session #32 Schedule (Draft)

IEEE 802.16's Session #32 will be held on 12-15 July 2004 in Portland, OR, USA, along with the <u>IEEE 802 Plenary Session</u>. The site is the "Hilton Portland & Executive Tower".

Group	Room (seats)	Meeting Chair	Vice Chair	Secretary	Editor
802.16 WG Plenary	Pavilion (250)	Roger Marks	Ken Stanwood	Dean Chang	
Task Group (TGe)	Pavilion (250)	Brian Kiernan			Ron Murias
Task Group C (TGC)		Ken Stanwood	Gordon Antonello		
Network Mgt Study Group (NetMan)	Parlor A/B (50)	David Johnston	Phil Barber		
Ad Hoc Committee on Licensed-Exempt Coexistence	Parlor A/B (50)	Marianna Goldhammer			
Maintenance on IEEE Std 802.16-2004	Broadway 2	Ken Stanwood			Itzik Kitroser
Other IEEE 802 or non-802.16 Activities	Various Locations				

#### **Room Assignments and Chairs**

#### Schedule

See also the IEEE 802 Agenda (when available) for the entire IEEE 802 schedule.

	Mornii	ng	Afternoo	n	Evening
Daily	Sun 5-8 IEE	Registration Desk pm, Mon-Thu: 7:3 E 802 Office: Broa pm, Mon-Fri: 7:3	30 am-5 pm Idway 1		
Sun			802 Architecture 2-5 pm Parlor C	<u> </u>	
Mon	IEEE 802 EC Meeting 8-10:30 am Pavilion	IEEE 802 Opening Plenary 11 - 12 am Grand Ballroom	IEEE 802.16 Opening Plenary 1:00-3:30 pm	TGe 4-9 pm	IEEE 802 Tutorial #1 (802.1):Connectivity Fault Mgmt6:30-8:00 pmQueen Marie - Embassy SuitesEducation, Mentoring & Support:

			PARs, Balloting, and Draft Approval 8:00-9:30 pm Grand Ballroom II		
			IEEE 802 Tutorial #3 (802.19): <u>Coexistence in Unlicensed Bands:</u> <u>Challenges and Solutions</u> 6:30-8:00 pm Grand Ballroom II		
Tue	TGe 8am-10 pm	IEEE 802 Tutorial #4 (802.3): 1394 and 802 8:00-9:30 pm Grand Ballroom II			
			<i>Education, Mentoring &amp; Support:</i> <i>Advanced Framemaker Training</i> 8:00-9:30 pm Forum Suite		
	TGC 8am-5 pm	802.16 Ad Hoc Committee: Licensed-Exempt Coexistence 8-10 pm			
Wed	TGe 8 am-6 pm		IEEE 802 Social Reception		
	802.16 NetMan Study 8am-6 pm	Crystall Ballroom, 6:30-9 pm			
Thu	TGe 8 am-5 pm	IEEE 802.16 Closing Plenary			
	Maintenance of IEEE Std 802.26-2004 8am-12 am	TGC or Maintenance 1-5 pm	7-10 pm		
Fri		IEEE 802 SEC Meeting 1-6 pm Salon I-III			

# 802.16 Officers

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

## Resources

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





## IEEE 802.17 Resilient Packet Ring Opening Report

## July 2004 Plenary

## Michael Takefman, Chair

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



# Highlights



- P802.17 approved by RevCom
  - Press release forwarded to EC for approval
- P802.17a D2.0 Sponsor Ballot passed with 100% approval
  - Draft changes based on 12 comments
  - Recirculation closes tomorrow, 2 editorial comments received
  - (Conditional) approval to forward to RevCom on Friday
- CFI for P802.17b Improved Spatial Reuse for Bridge Clients
  - Monday night @ Embassy Suites

## 802.18 RR-TAG Opening Report

- Report on May 04 Interim Meeting
- Objectives for this Meeting
- Update on Significant Regulatory Issues

### Report on May 04 Interim Meeting

- Prepared and approved 4 regulatory documents for FCC filing
  - 18-04-0020-00-0000\_04-37\_BPL\_Rep\_Cmts.doc
    - Filed on the deadline date
  - 18-04-0022-00-0000\_3GHz\_NPRM\_Cmts.doc
    - Filing deadline is July 28, will seek approval as 802 doc at the EC meeting this session
  - 18-04-0024-00-0000\_Wireless\_broadband\_comments.doc
    - Filed on the deadline date
  - 18-04-0025-00-0000\_cognitive-radio-rep-cmts.doc
    - Filed on the deadline date

## Report on May 04 Interim Meeting (cont.)

- Prepared and approved 1 regulatory document for Industry Canada
  - 18-04-0023-00-0000\_Industry\_Canada\_Cmts.doc
    - Filed on the deadline date
- SG1 and 802.18 finalized and approved a PAR and 5 Criteria for Wireless Regional Area Networks ("WRANs") using cognitive techniques to facilitate operation of unlicensed broadband networks in unused TV broadcast spectrum (in response to an FCC NPRM on this topic)

## Planned Objectives for This Meeting

- Prepare regulatory documents as time permits (will prioritize at 802.18 opening meeting slot)
  - FCC TV band NPRM comments
  - ITU-R contribution on 5 GHz protection criterion PDNR
  - Seek to "upgrade" 3 GHz comments from a .18 document to an 802 document
  - Others TBD
- Hold meetings of SG1 Mon., Tue., and (if necessary) Thu. Evenings
  - Respond to WG and EC comments on PAR and 5 criteria in preparation for the closing EC meeting on Friday afternoon

## Significant Pending Regulatory Issues

- FCC NPRM on unlicensed use of unused TV broadcast channels
- FCC NPRM on 3650-3700 MHz
- ITU-R PDNR on 5 GHz protection criterion
- Possible ITU-R WP9B contribution from .16?

### Please consider (active) participation in 802.18!

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

# IEEE 802.19 Wireless Coexistence TAG

# July 2004 Opening Report

Steve Shellhammer shellhammer@ieee.org

## TAG Letter Ballot

- The 802.19 Coexistence TAG held a letter ballot to submit proposed 802 P&P changes (802.19/04-0010r4) to the Executive Committee.
- The letter ballot was approved unanimously

– Yes	10
– No	0
– Abstain	0

#### Plans for the Week

- Discuss proposed 802 P&P changes for coexistence, at the Sunday night 802 P&P meeting
  - IEEE 802.19-04/0010r4
- Tutorial on Wireless Coexistence (Tuesday 6:30 PM)
- Joint meeting with 802.16 Licensed Exempt Ad-Hoc committee (Tuesday 10:30 AM)
- Joint meeting with 802.11n Task Group (Wednesday 1:30 PM)
- Work on Coexistence Assurance Methodology
- Motion for SEC letter ballot on proposed changes to 802 P&P

#### IEEE SA Patent Policy

#### • 6. Patents

- IEEE <u>standards</u> may include the known use of patent(s), including patent applications, provided the IEEE receives assurance from the patent holder or applicant with respect to patents essential for compliance with both mandatory and optional portions of the standard. This assurance shall be provided without coercion and prior to approval of the standard (or reaffirmation when a patent becomes known after initial approval of the standard). This assurance shall be a letter that is in the form of either
- a)
  - A general disclaimer to the effect that the patentee will not enforce any of its present or future patent(s) whose use would be required to implement the proposed IEEE standard against any person or entity using the patent(s) to comply with the standard or
- b)
  - A statement that a license will be made available without compensation or under reasonable rates, with reasonable terms and conditions that are demonstrably free of any unfair discrimination
- This assurance shall apply, at a minimum, from the date of the standard's approval to the date of the standard's withdrawal and is irrevocable during that period.

### 802 Opening July 2004 Plenary 802.20 Session #9

#### Jerry Upton- Chair

jerry.upton@ieee.org Gang Wu – Procedural Vice Chair Eshwar Pittampalli – Liaison Vice Chair

### **Objectives for the Session**

- 1. Primary Objective is Closure of Requirements Document (2 Days Dedicated in Agenda)
- 2. Progress on Evaluation Criteria, Channel Models, Traffic Models
- 3. Consensus on Work Plan Schedule

### Logistics

- Electronic sign-in <u>www.802wirelessworld.com</u>
- 802.20 has 14 meeting slots you need to participate in 11 meeting slots to get participation credit.
- Local website: <u>http://neptune/mbwa/index.html</u>
- Meeting Room - Galleria North (Ballroom Level Hilton)

802.20 Proposed Detailed Meeting Agenda			
Monday, July 12, 2004 11:00AM – 12:00PM Grand Ballroom Hilton			
IEEE802 Opening Plenary			
Monday, July 12, 2004 1:30PM - 3:30PM Grand Ballroom H			
Joint Opening 802.11/15/18/19/20/21			
Monday, July 12, 2004 4:00PM –5:30PM Galleria North			
Opening Session of 802.20 - Voting Tokens - Approval of Agenda including modifications - Review and approve March & May Minutes - Other Session Logistics	4:00pm - 4:30pm		
Review Other WGs Activities Liaison Plan Update (Eshwar Pittampalli)	4:30pm - 5:00pm 5:00pm - 5:30pm	<u>C802.20 - 04/69</u>	
Monday, July 12, 2004 7:00PM - 9:00PM			
(optional) Ad-Hocs & 802 Tutorials			
Tuesday, July 13, 2004 8:00AM - 12:00PM (Break 10:00 – 10:30AM) Galleria North			
<ul> <li>Requirements Status &amp; Process for Closure</li> <li>Functional Reqs. For 802.20 Security (Sarvar Patel)</li> <li>Moving Forward on 802.20 Security (Florent Bersani)</li> <li>Requirements Comment Resolution &amp; Voting</li> </ul>	8:00am - 9:00am 9:00am - 10:00am 10:30am -11:00am 11:00am -12:00pm	<u>C802.20-04/65</u> <u>C802.20-04/62</u>	
Tuesday, July 13, 2004 1:00PM – 5:30PM (Break 3:30 – 4:00PM) Galleria North			
<ul> <li>Requirements Comment Resolution and Voting continued</li> <li>Review of Proposed Topics for Ad-Hocs</li> </ul>	1:00pm - 5:30pm		
Tuesday, July 13, 2004 7:30PM - 9:00PM			
(optional) Ad-Hocs			

#### 802.20 Proposed Detailed Meeting Agenda

Wednesday, July 14, 2004 8:00AM - 12:00PM (Break 10:00 – 10:30AM) Galleria North			
Requirements Comments Resolution and Voting continued	8:00am - 12:00pm		
Wednesday, July 14, 2004 1:00PM - 5:30PM (Break 3:30 – 4:00PM) Galleria North			
Requirements Comments Resolution and Voting continued Requirements Closure and Next Steps	1:00pm - 4:30pm 4:30pm - 5:30pm		
Wednesday, July 14, 2004 6:30PM - 9:00 PM			
802 Social Reception			
Thursday, July 15, 2004 8:00AM - 12:00PM (Break 10:00 – 10:30AM) Galleria North			
Channel Models - Update on "Outstanding List" (Qiang Guo) Proposal for RF Evaluation Criteria (Dan Gal) Evaluation Criteria & Traffic Models Status (Farooq K.) Link-system interface simulation methodologies (Anna Tee)	8:00am - 9:00am 9:00am - 10:00am 10:30am -11:30pm 11:30am -12:00pm	C802.20-04/66 C802.20-04/64 C802.20-04/63 C802.20-04/67	
Thursday, July 15, 2004 1:00PM - 5:00PM (Break 3:30 – 4:00PM) Galleria North			
Review 802.18 Regulatory Output (Chair of .18) Work Plan & Project Schedule New Business Next Meeting Planning Close and Adjourn	1:00pm - 1:45pm 1:45pm - 3:00pm 3:30pm - 4:00pm 4:00pm - 4:30pm 4:30pm - 5:00pm		

EC Opening Plenary IEEE 802.21 Session #3 Media Independent Handover Services

> Ajay Rajkumar ajayrajkumar@lucent.com

# Officers

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

## Agenda Session #3 Summary

- Resolution on handover requirements
- Handover usage scenarios
- Joint sessions with 802.11 and activity/update within 802
- Liaison update with external SDOs

# Session Time and Location

- Location: Galleria South H
- Time:
  - Tuesday:
    - Morning: 9 am noon; Afternoon: 1.30 pm 6 pm
    - Joint session with 802.11 TGr and TGs @ TGs location (Grand Ballroom I): 1.30 pm – 2.30 pm
  - Wednesday
    - Morning: 9 am noon; Afternoon: 2 pm 6 pm
    - Ad-hoc with 802.11 WIEN SG @ 802.21 location (Galleria South H): 9 am 10.30 am
  - Thursday
    - Morning: 8 am noon; Afternoon: 2 pm 6 pm
    - Joint session with 802.11 TGn @ TGn location (Grand Ballroom I): 8 am – 9 am

### **Future Sessions**

- Interim: Sept 12<sup>th</sup> 17<sup>th</sup>, Estrel Hotel
  - Berlin, Germany. Meeting co-located with 802.11/15/18/19/20
- Plenary: November 14<sup>th</sup> 19<sup>th</sup>, Hyatt Regency
  - San Antonio, TX, USA. Co-located with all 802 groups
- Interim: January January 16<sup>th</sup> 21<sup>th</sup>
  - Monterey, CA. Meeting co-located with 802.11/15/18/19/20

### IEEE 802.21 Meeting Server Details

#### Handover Server IP address: 10.0.1.21 Host Name : handover

External website: <a href="http://www.ieee802.org/21">http://www.ieee802.org/21</a> On site meeting website: <a href="http://10.0.1.21">http://10.0.1.21</a> On site alternate website name: <a href="http://handover/">http://handover/</a>

## EC meetings

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

### **Tutorial Schedule**

Monday	Tuesday
1) Connectivity Fault Mgmt 6:30-8:00PM	3) Coexistence in Unlicensed Bands
	6:30-8:00PM
2) EMS: Process, Policy,	4) 1394 and 802
<b>Procedure</b> 8:00-9:30PM	8:00-9:30PM
	EMS: Advanced Framemaker
	8:00-9:30PM
	(optional)
	<b>CFI: Residential Ethernet</b>
	7:00-10:00PM
	(not a tutorial) 38

# Paul Nikolich - IEEE 802 Chair

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- Independent consultant in technology and new ventures working with YAS Broadband Ventures, LLC. in North Andover MA
- Goals for IEEE 802 2004-2006
  - Encourage the development of new standards work
  - Maintain IEEE802's outstanding track record of developing data communications standards that benefit society.
  - Ensure the imperative principals of due process, consensus, openness, balance and rights of appeal are implemented.
  - Increase the efficiency of the standards development process

## End of Opening Plenary Meeting

#### 6.01 PL IEEE 802 PLENARY MEETING ENDS

The meeting was adjourned at 12:00 noon

Respectfully submitted,

5 Bob O'Hara Recording Secretary