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

Monday, July 18, 2005 - 8:00 a.m.

San Francisco, CA

5	Paul Nikolich	- Chair, IEEE 802 LAN / MAN Standards Committee
	Mat Sherman	 Vice Chair, IEEE 802 LAN / MAN Standards Committee
	Bob O'Hara	 Recording Secretary, IEEE 802 LAN / MAN Standards Committee
	Buzz Rigsbee	- Executive Secretary, IEEE 802 LAN / MAN Standards Committee
	John Hawkins	- Treasurer, IEEE 802 LAN/MAN Standards Committee
10	Tony Jeffree	- Chair, IEEE 802.1 - HILI Working Group
	Bob Grow	- Chair, IEEE 802.3 - CSMA/CD Working Group
	Stuart Kerry	- Chair, IEEE 802.11 - Wireless LANs Working Group
	Bob Heile	- Chair, IEEE 802.15 – Wireless PAN Working Group
	Roger Marks	- Chair, IEEE 802.16 – Broadband Wireless Access Working Group
15	Mike Takefman	- Chair, IEEE 802.17 – Resilient Packet Ring Working Group
	Mike Lynch (acting)	- Chair, IEEE 802.18 – Regulatory TAG
	Steve Shellhammer	- Chair, IEEE 802.19 – Wireless Coexistence TAG
	Jerry Upton	- Chair, IEEE 802.20 – Mobile Broadband Wireless Access
	Ajay Rajkumar	- Chair, IEEE 802.21 – Media Independent Handover
20	Carl Stevenson	- Chair, IEEE 802.22 – Wireless Regional Area Networks
	Geoff Thompson	- Member Emeritus (non-voting)

1.00 MEETING CALLED TO ORDER

- Nikolich 1 0

08:00 AM

Paul Nikolich opened the meeting, welcoming everyone to the 25th anniversary plenary session.

25

		IEEE	
	Standards P	roject Authorization	
August 25, 1979 Date of Mequet	-	Approved	No 805- 3/13/80 Dark Dark
2. [X] New Standard) Reativeation	nel
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D Project Title: Local netw	oric for Computer	Interconnection.	
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25th Anniversary of Project 802 13 March 1980

July 2005

Opening EC Meeting 8 AM-10:30AM

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2.00	MI	APPROVE OR MODIFY AGENDA	-	Nikolich		4 08:01 AM
R03		DRAFT AGENDA - IEEE 802 LMSC EXECUTIVE COMMITTEE MEETING July 18, 2005 - San Francisco, CA				
		Monday 8:00AM -10:30AM				
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	-	Hawkins	5	08:05 AM
4.01			-			08:10 AM
	Cate	gory (* = consent agenda)				08:10 AM
		Stds Board items				08:10 AM
5.00	II	Stds Board Actions (approved projects, standards, withdrawals)	-	Nikolich	2	08:10 AM
5.01	II	BPL PAR	-	Nikolich	5	08:12 AM
5.02	II	PARS to NesCom	-	Nikolich	2	08:17 AM
5.03	II	Drafts to Sponsor Ballot (802.16/Conf04)	-	Nikolich	2	08:19 AM
5.04	II	Drafts to Revcom (802.16e, 802.16f, 802.16-2004/Cor1)	-	Nikolich	2	08:21 AM
5.05	II		-			08:23 AM
						08:23 AM
		SA items				08:23 AM
5.06	II	802 Task Force update		Nikolich	5	08:23 AM
5.07	II	ISO/IEC JTC1 SC6 background	-	Thompson	10	08:28 AM
5.08	II	Get IEEE802 program update	-	Kenney	5	08:38 AM
5.09	II	Online Training Update	-	Ickowicz	5	08:43 AM
5.10	II	balloting update	-	Ickowicz	5	08:48 AM
5.11	II	Concerns over anti-trust behavior	-	Mills	5	08:53 AM
5.12	II		-			08:58 AM
5.13	II		-			08:58 AM
5.14						08:58 AM
5.15			7			08:58 AM
		LMSC items				08:58 AM
5.16	MI	LMSC Meeting Fee Waivers	-	Nikolich	2	08:58 AM
5.17	II	Tutorial schedule	-	Nikolich	5	09:00 AM
5.18	II	Appeals update	-	Nikolich	5	09:05 AM
5.19	MI	Formation of "Networking Committee"	-	Kerry	10	09:10 AM
5.20	II	Update on vendors for attendance, documentation, connectivity	-	Kerry	10	09:20 AM
5.21	MI	802.11 TGv and TGw coexistence statement additions to 5C	-	Kerry	2	09:30 AM
5.22	MI	P&P inclusion of IEEE Policies, procedures, and restrictions	-	Thompson	2	09:32 AM
5.23	II	802.11 CBP SG update (PAR)	-	Kerry	1	09:34 AM
5.24	II	802.3 Residential Ethernet Study Group update	-	Grow	5	09:35 AM
5.25	II	Architecture Group Update	-	Jeffree	5	09:40 AM
5.26	II	802.1 Shortest Path Bridging PAR	-	Jeffree	1	09:45 AM

5.27	II	802.1 VLAN MIBs PAR	-	Jeffree	1	09:46 AM
5.28	Π	802.1 Revised MAC Service Definition PAR	-	Jeffree	1	09:47 AM
5.29	Π	802.16 Relay study group formation	-	Marks	1	09:48 AM
5.30	Π	China Liaison update	-	Marks	10	09:49 AM
5.31	Π	P&P update	-	Sherman	15	09:59 AM
5.32	II	P&P revision update	-	Jeffree	2	10:14 AM
5.33	II	P802.3at DTE Power via the MDI enhancements PAR	-	Grow	1	10:16 AM
5.34	II	Possible P802.3au-Corr Isolation Requirements PAR	-	Grow	1	10:17 AM
5.35	II	Adventures with MyBallot	-	Grow	5	10:18 AM
5.36	Π	International Venues - update	-	Rigsbee	2	10:23 AM
5.37	Π		-			10:25 AM
5.38	Π		-			10:25 AM
5.39	II		-			10:25 AM
5.40	II		-			10:25 AM
5.41	II		-			10:25 AM
5.42	II		-			10:25 AM
5.43	II		-			10:25 AM
5.44	II		-			10:25 AM
5.45	DT	SEC meeting schedule (rules, SA, etc.)	-	Nikolich	3	10:25 AM
		ADJOURN SEC MEETING	-	Nikolich		10:28 AM

Motion: to approve the agenda as modified. Moved: Jerry Upton/Mat Sherman Passes: 14/0/1 5

4.00	II	TREASURER'S REPORT	-	Hawkins	5	08:05 AM
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IEEE Project 802 Estimated Statement of Operations July 2005 Plenary Session San Francisco, CA As of July 14, 2005

Meeting Income	Estimate	Budget	Variance
Registrations	1,600	1,200	400
Registration income	512,000	384,000	128,000
Deadbeat collections	0	0	0
Bank interest	150	150	0
Other income	0	0	0
TOTAL Meeting Income	512,150	384,150	128,000
Meeting Expenses	Estimate	Budget	Variance
Audio Visual Rentals	15,000	15,000	0
Audit	6,000	0	(6,000)
Bank Charges	300	230	(70)
Copying	5,500	5,500	0
Credit Card Discount	14,336	10,752	(3,584)
Equipment Expenses	9,000	9,000	0
Get IEEE 802 Contribution	120,000	90,000	(30,000)
Insurance	0	0	0
Meeting Administration	64,607	75,064	10,457
Misc Expenses	500	500	0
Network	46,000	34,388	(11,612)
Phone & Electrical	2,100	2,100	0
Refreshments Shinning	121,600	91,200	(30,400)
Shipping Social	3,100 88,000	3,100 66,000	0
Supplies	500	500	(22,000) 0
TOTAL Meeting Expense	496,543	403,334	(93,209)
NET Meeting Income/Expense	15,607	(19,184)	34,791
Analysis	10,007	(10,104)	54,751
Refreshments per registration	76	76	0
Social per registration	55	55	0
Meeting Administration per registration	40	63	22
Networking per registration	29	29	(0)
Get IEEE 802 Contribution per registratio	75	75	0
Surplus/Deficit per registration	10	(16)	26
Pre-registration rate	0.600	0.600	
Previous operating reserve	341,570		
NET Meeting Income/Expense	15,607		
Projected operating reserve	357,177		

IEEE Project 802 Statement of Operations Mar 05 Plenary Session Atlanta, GA As of July 17, 2005

		AS OI	July 17, 200	05		
Session Income				Actual	Budget	Deviation
Net Registrations				1,540	1,200	340
923 Early Registrations	@	\$300	276,900	,	216,000	60,900
6 Early cancellations	@	\$300	-1,800		-,	,
26 Cancellations	@	\$250	-6,500			
642 Registrations	@	\$350	224,700		168,000	56,700
3 Cancellation	@	\$300	-900		,	00,100
5 On-site registrations	@	\$350	1,750			
5 Other	@	\$100	500			
1 Credit for overpmt	@	\$50	-50			
Registraion Subtotal	•		494,600	494,600	384,000	110,600
0 Deadbeat Payment	@	\$350	,	0	0	0
Interest	Ŭ			207	150	57
Other				4,050	0	4,050
- · ·						
TOTAL Session Income				498,857	384,150	114,707
Session Expenses				Actual	Budget	
-					-	(5 447)
Audio Visual Rentals Audit				20,117	15,000	(5,117)
				0 494	6,000	6,000
Bank Charges					230	(264)
Copying				5,409	5,500	91
Credit Card Discounts & Fe	ees			14,090	10,752	(3,338)
Equipment Expenses Get IEEE 802 Conttribution				12,788	9,000	(3,788)
				115,500	90,000	(25,500)
Insurance Meating Administration				2,713	3,000	287
Meeting Administration				19,984	75,064	55,080
Misc Expenses				1,927	500	(1,427)
Networking				55,123	34,388	(20,735)
Phone & Electrical Refreshments				3,390	2,100	(1,290)
				130,246	72,000	(58,246)
Shipping Social				7,433	3,100	(4,333)
				46,983	42,000	(4,983)
Supplies Other (P&P Contract)				1,028 9,487	500 0	(528) (9,487)
TOTAL Session Expense				446,713	369,134	(77,579)
NET Session Surplus/(Deficit)				52,145	15,016	37,129
Analysis	lion			0E	60	(25)
Refreshments per registrat	lion			85	60 25	(25) 4
Social per registration Meeting Admin per registra				31 13	35	-
• • •				-	63	50
Surplus/(Loss) per registra Pre-Registration ratio	tion			34 0.60	13 0.60	21
Fre-Registration fatio				0.00	0.00	
Bank account balance as of 6/3	31/05	;		492,284		
Income to date for current ses	sion			(204,470)		
Expenses prepaid for current s	sessi	on		51,756		
Expenses prepaid for future se	essio	ns		0		
Petty cash fund				2,000		
Current operating reserve				341,570		
ourient operating reserve				51,570		

John said that the reserve is a little low and that we need to get it up to the \$500k range for comfort. He reviewed the budget for this session, indicating that he has been told that several items are predicted to exceed the budget, leading to uncertainty as to whether there would be a surplus or loss at the end of the session.

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

March/April/June 2005 SA Standards Board Actions <u>Standards Approved</u>

New:

P802.1AB/D13 Station and Media Access Control Connectivity Discovery (Mar 2005)

Revision:

P802.3/D2.2 Carrier Sense Multiple Access with Collision Detection (CSMA/CD) Access Method and Physical Layer Specifications (June 2005)

Administrative Withdrawals: none

Reaffirmations: none

March/April/June 2005 SA Standards Board Actions Projects Approved

802.11w Protected Management Frames (Mar 2005)

802.15.3c Millimeter-wave based Alternative Physical Layer Extension for IEEE Standard 802.15.3-2003 (Mar 2005)

Projects External to LMSC but of interest

P1901 – (COM/SC) Standard for Broadband over Power Line Networks: Medium Access Control and Physical Layer Specifications (approved Jun 2005)

P1900.2 (EMC/SDCom & COM/SC) Recommended Practice for the Analysis of In-Band and Adjacent Band Interference and Coexistence between Radio Systems

Draft PARs to NesCom

- P802.1AL Secure Device Identity
- P802.1AM Media Independent Radio Frequency (RF) Management of Wireless 802 Networks
- P802.1AP VLAN MIBs
- P802.1AO Shortest Path Bridging
- P802.1ac-rev Revised MAC Service Definition
- P802.3at Power over Ethernet Plus (30W)
- P802.3au-Corrigendum Isolation Requirements
- P802.11y 3650-3700 MHz Operation in USA
- PARS of interest outside 802
 - Input from EC members?

Draft Standards to Sponsor Ballot

- 802.1ad Provider Bridges
- 802.1Qrev
- 802.1ag Connectivity Fault Mgmt
- 802.11ma Revision
- 802.15.3b corrigenda
- 802.15.4a Alternate Phy
- 802.15.REVb
- 802.15.5 Wless Mesh Recc. Practice
- 802.16/Conf04 PICS <1GHz

Drafts to RevCom

• 802.11e QoS

- 802.16e Mobility
- 802.16f Systems MIB
- 802.16-2004/Cor1 Corrigendum

5.01	Π	BPL PAR	-	Nikolich	5	08:12 AM
5.02	п	PARS to NesCom	-	Nikolich	2	08:17 AM
5.03	II	Drafts to Sponsor Ballot (802.16/Conf04)	-	Nikolich	2	08:19 AM
802.11r	na may	ask for conditional approval to go to sponsor ballot.				
5.04	п	Drafts to Revcom (802.16e, 802.16f, 802.16-2004/Cor1)	-	Nikolich	2	08:21 AM
5.05	п		-			08:23 AM
						08:23 AM
		SA items]			08:23 AM
5.06	Π	802 Task Force update	-	Nikolich	5	08:23 AM

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5

IEEE Staff Introductions

- Karen Kenney,
 - Associate Managing Director
- Jennifer McClain Longman,
 - Manager, Industry and Information Standards Publishing
- Andy Ickowicz,
 - Staff Liaison
- Michelle Turner,
 - Project Editor
- Terry deCourcelle,
 Intl Stds Programs
- Michael Lindsay
 - Dorsey and Whitney attorney

IEEE-SA/802 Task Force

• Meeting held June Standards Board Session

- Topics:
 - 1) 802/International Stds Items
 - a)ISO/IEC IEEE SA relationship (15 minutes)
 - a1)tactical impact on 802 (recent SC6/802.11i events): Geoff Thompson
 - a2)strategic impact on 802 LMSC and IEEE SA: Paul Nikolich/Judy Gorman
 - b)Project TAG SC6: Terry deCourcelle/Bob Pritchard

2)802 speaker at CAG Munich Conference: Terry deCourcelle

3) Funded Services Project Updates (10 minutes)

a)Online training: Ickowicz

b)P&P: Ringle (or equivalent)

4) Status Update on Entity Balloting Proposal: David Law (10 minutes)

What has happened to the draft of "corporate procedures" developed by Law and Booth?

5) Complimentary Copies: Geoff Thompson/Andy Ickowicz (5 minutes)

Update on suggestions for alternatives

6) MyBallot feedback update: Bob Grow (10 minutes)

- Participants:
 - 802- Nikolich, Thompson, Law
 - SA Staff-Kenney, Ickowicz, Turner, Gorman, DeCourcelle
- Schedule a follow up meeting this week:
 - Recommend Wednesday 10-12

Trophies: IEEE-SA initiated this policy in January and have gotten no complaints from any group, including 802. Bob Grow indicated that he has received complaints that he has not forwarded, because of the hard line by the IEEE. Clint Chaplin indicated that the members of 802.11 TGi did not receive copies of 802.11i, even though that was published last year. He was told to submit his request to the IEEE editor.

5.07 II ISO/IEC JTC1 SC6 background

5

- Thompson 10 08:25 AM

An Approximate History of Internationalizing 802 Standards

Geoff Thompson At IEEE 802 EC, San Francisco July17, 2005

This is my approximate history of the internationalization of IEEE 802 Standards

Any claims of specific accuracy are disowned, clouded by my terrible memory for dates and the mists of time.

Other views and recollections from different participants are welcomed! (But I will probably fully use my 10 minutes.)

Early Days of 802

- About 1985 we started actually having published standards
 - 802.2 Logical Link Layer (Dave Carlson)
 - -802.3 CSMA/CD (Gary Robinson as VC)
 - 802.4 Token Bus? (Paul Eastman)
 - 802.5 Token Ring (Bob Donnan)
- 802 had interest of and ongoing liaisons w/ ECMA (Ingrid Fromm)

Status Quo, US work on ISO Stds

- US was very active in ISO/IEC
- ANSI held several "Secretariats" both for top level committee and sub-committees
- Country that holds Secretariat picks SC & WG chairs
- Funding for ANSI Int'l activities came directly from "big companies", e.g.:
 - AT&T
 - IBM
 - DEC
 - H-P

More on Status Quo back then:

- US held ISO/IEC JTC1 SC6 Secretariat
- Charter of SC6 was "Lower 4 layers" (of the ISO 7-Layer Model)
- JTC1 was still hoping it was going to create & "own" standards for all the layers.
- It had not yet definitively lost to:
 - Ethernet/Token Ring
 - TCP/IP
 - SNMP

More on Status Quo back then:

- 802 Folks approached SC6 and cut a deal: Submit all 802 Standards & "supplements" as "new projects" (NPs) in SC6, WG1 & 3
- Int'l versions would be ISO/IEC 8802-n
- Would be jointly pub'd by IEEE & Geneva
 - 802.3 goes to WG3 (Physical Layer Grp)
 - 802.2, .5 go to WG1 (Layer 2)
 - (My memory hazy as to when 802.1 came in)

Big Company Funding Model Broke

- AT&T broke up, lost monopoly status
- IBM lost ownership of business computing
- DEC, going down w/ mini-computers
- H-P was not dominant in new market
- New Proposal: Assess fee on Stds participation "to fund ANSI secretariats"
 - \$300 per company per year for corporate membership standards activities
 - \$100 per 802 individual per plenary

Result of New Funding Model:

- More individuals than companies participating in standards
- 802 was providing lion's share of the funding to ANSI for an extended period
- We got tired of doing more than our "fair share"
- Wasn't clear to us (802) that ISO label for our standards was that valuable incrementally

Result of New Funding Model (2):

- 802 EC decided:
 - Quit mandating ISO submission of 802 Stds
 - Leave submission issue to individ. WGs
 - Stayed in: 802.2, dot3, dot5, dot11, dot12
 - Dropped out: 802.1, ???
 - Quit funding ANSI (w/ 1 year + notice)
 - Divert saved \$\$ to fund "free distribution of 802 standards"
 - Get to work convincing IEEE about free dist.

Result of New Funding Model (3):

- US/ANSI gave up Secretariat for SC6
- US TAG for SC6 was dissolved
- Vote on SC6 matters -> JTC1 TAG
- US vote on SC6 issues ::= Abstain
- Korea picks up SC6
- 802 Stds that go to Int'l go via:
 - Fast track process
 - Submitted via UK/BSI/Robin Tasker

Result of New Funding Model (4):

- System worked well but was "fragile"
- System was very low overhead
- "Get IEEE 802[™]" came into place and was/is wildly successful in terms of getting standards into the hands of students & developers everywhere in the world.
- UNTIL the NB of China rocked the boat

The fragility/China problem:

- Situation:
 - 802 has less influence than when SC6 was US chaired and had 802 participation.
 - US & 802 are not official participants in SC6.
 - We are no longer "familiar faces" in SC6
- China is (expected to be) a big player
 - China NB is a new, inexperienced player
 - China NB is being impatient and assertive about getting its due what it believes are its rights.

The Basic Problem:

- Fast track standards are (intended to be) previously approved national or regional standards.
- For an "orderly world", amending those standards "should" be restricted to the "owning" agency for the base standard.
- China wants to amend a standard sourced from 802.

In Addition:

- Within ISO/IEC duplicate standards are considered to be a bad thing.
- Therefore, it is part of the job to "pick one"
- That process is, obviously, highly political.

Three Issues:

- Brand management (soft issue): If an "outsider" can attach itself to an "unowned" base then it can ride on the success of the base.
- Imperfect Layering:
 - Amendments usually have to crack the base document to support themselves, or amdt precludes changes the formulating group wants to do for its own further changes.
- Management Integration

Amendment management usually requires integration into management of the base standard

Roger pointed out that the 8802-1 standard is a general overview and architecture says that ISO/IEC can endorse 802 standards without publishing them, simply listing those standards they endorse. However, this requires specific process to be followed by 802 when this is desired.

5

A question was asked about IEEE patent letters of assurance and how they apply to ISO standards built from IEEE standards. The discussion at IEEE was that these letters apply to ISO standards that are direct approvals of IEEE standards, since compliance with the international standard requires compliance with the IEEE standard. However, there is no guarantee that the letters apply if the ISO version is different from the IEEE version.

10

5.08 II Get IEEE802 program update

- Kenney 5 08:51 AM

Get IEEE 802® Update 12 For LMSC July Plenary

Karen Kenney, Associate Managing Director, Business Administration

> 18 July 2005 San Francisco, CA



Get IEEE 802® Update 12 Downloads

- Program to date 1,998,117
- Year to date
- Weekly average
- Most requested
 - 802.11[™], .11a, .11b, .11i, .11g
 - 802.3[™]
 - 802.15.4



239,306

8,436

Get IEEE 802® Update 12 User Type (Year to Date)

USER	Jan	Feb	Mar	Apr	May	June	YTD Total
Academic/Student:	18,326	6,522	22,635	20,406	17,747	15,902	101,538
Other:	6,651	2,058	7,079	6,511	6,367	6,728	35,394
Network equipment manufacturer:	4,803	1,270	4,542	4,813	4,164	4,657	24,249
Public network service provider:	2,863	814	2,806	3,337	2,674	3,105	15,599
Network Software Developer/Manufacture	3,419	1,103	3,683	2,991	3,357	3,200	17,753
Systems Administrator:	2,429	880	2,804	2,471	2,335	2,255	13,174
Standards Developer:	1,770	742	1,618	1,728	1,390	1,441	8,689
Network silicon manufacturer:	1,093	307	1,146	1,168	990	831	5,535
Private network service provider:	1,340	436	1,410	1,449	1,435	1,318	7,388
Government:	1,265	301	1,372	1,209	1,183	1,321	6,651
Journalist/Analyst/Author	743	311	603	651	555	473	3,336
Curious Citizen							-
Total	44,702	14,744	49,698	46,734	42,197	41,231	239,306



Get IEEE 802® Update 12 User Type (4/03-4/05)

USER	PTD Total
Academic/Student:	501,042
Other:	190,879
Network equipment manufacturer:	134,821
Public network service provider:	85,233
Network Software Developer/Manufacturer	81,372
Systems Administrator:	67,375
Standards Developer:	45,100
Network silicon manufacturer:	36,959
Private network service provider:	42,217
Government:	37,861
Journalist/Analyst/Author	15,216
Curious Citizen	74
Total	1,238,149



Get IEEE 802® Update 12

Program Entries

Mar 2005 – Jun 2006

• Std On or about

- 802.16 [™] 2 April 05
- 802.11j™ 30 April 05
- 802.17a[™] 30 April 05
- 802.17[™] 25 March 05
- 802.1x[™] 14 June 05

July 2005 – Nov 2005

- Std On or about
- 802.1ab[™] 6 Oct



Get IEEE 802® Update 12

June Approvals

• IEEE Std

Tentative Pub Date

• 802.3

30 Nov 2005



Get IEEE 802® Update 12

Reminders/updates

- Review proposed 2007 Budget at November Plenary
- FYI staff analyzing "Get" programs for financial viability



What is the total number of 802 books ever printed? Unknown, but 100,000 would be a reasonable estimate. An analysis is being done to examine financial viability of the "Get" programs. There are a few others than Get IEEE802. They are supposed to be revenue neutral. The analysis examines potential historical sales in the absence of the programs. John Hawkins will be helping with this analysis. There will be a meeting Tuesday 1-2pm for further discussion of this topic.

5.09	II	Online Training Update	-	Ickowicz	5	08:59 AM

No presentation

5

The selected vendor, Avilar, has undergone in depth review. Milestones are not going to be met and need review. He plans to provide a further update in Friday. The contract is in the process of final review and negotiation. There will be a further meeting Tuesday 2-3pm.

5.10 II balloting update	
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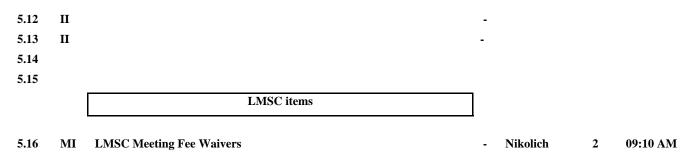
No presentation.

15 Bugs identified by the beta project have been fixed and enhancements have been made. He welcomes individual questions on these bugs and enhancement. A point was made that ballots run under the old system are running much slower. 802.16 and 802.1 still have ballots running under the old system.

5.11 II Concerns over anti-trust behavior - Mills 5 09:08 AM

Steve provided notice that there will be a presentation at the opening plenary and a one-hour session tomorrow at 5pm. There has been feedback received that there could be behavior going on that is a concern for anti-trust.

Mike Lindsay gave a short overview of his presentation.



Ickowicz

5

09:02 AM

Meeting Fee Waivers

- The following individuals have had their registration fees waived for this plenary session by the LMSC chair.
 - IEEE-SA Staff Participants
 - Karen Kenney, Jennifer McClain Longman, Andy Ickowicz, Michelle Turner, Terry deCourcelle
 - Invited Participants
 - Bruce Nordman, Ken Christensen, Tutorial presenters
 - Bill Quackenbush, guest of 802 Chair

EC Email Ballot recap

(yes/no/dnv/abs)

- 29 Mar APP ITU-R filing by 802.16 11/3/1/1
- 03 Apr DIS 802.11w press release (SJK) 4/0/12/0
- 21 May DIS 802.15.4a press release (BH) 0/0/16/0
- O5 Jun APP Conditional Approval to Forward
 802.16/Cor1 to Sponsor Ballot (RBM) 11/0/5/0

5.17 II Tutorial schedule

- Nikolich 5 09:21 AM

Tutorial Schedule

Monday	Tuesday
1) Secure Device ID (Jeffree) 6:00-7:30PM	4) Reducing Energy Consumption (Grow) 6:30-8:00PM
2) Update on Bridging (Jeffree) 7:30-9:00PM	5) EMS Panel on the IEEE 802 Standards Process (Thaler) 8:00-9:30PM
3) Cognitive Radios (Kerry) 9:00-10:30PM	
	Anti-Trust Concerns Panel Discussion (Nikolich) 5:00-6:00PM 16

5.18 II Appeals update

- Nikolich 5 09:24 AM

Appeal update

- Appeal panel formed
 - Bob O'Hara (chair), Mat Sherman, John Hawkins
- Appeal hearing Wed 4-5pm

5.19 MI Formation of "Networking Committee" - Kerry 10 09:26 AM

Stuart reported on decisions made at the previous interim wireless sessions. He indicated that the expertise of the wireless groups should be used to assist or help to run the wireless networks. Buzz replied that he agrees that this epertise and help with management of the network is needed. He indicated that he would like to nominate Tim Godfrey as the 802 network manager, who would then be able to form whatever support structures he needs to manage the network.

- Stuart asked for an update on the network RFP process. He indicated that it is being done as required by the IEEE procedures. We received four proposals and are now in a "try before we buy" of one of the two lead proposers.
- 10 Stuart asked for a meeting this week (Tuesday 3-4pm) to meet with Tim Godfrey and discuss the process for contracting for network services and how this will affect the September interim meetings.

5.20 II Update vendors for attendance, documentation, connectivity - Kerry 10 09:30 AM

Bob Hiele reported that four responses to the attendance and three responses on the documentation parts of the RFP have been received. There will be a meeting Tuesday (7:30-9:30pm) to discuss the proposals.

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A point was made that one vendor indicated that they did not receive the RFP materials until very late in the process and had tremendously less time to prepare a response.

A question was asked whether there is any interest by 802 in the use/development of attendance tracking software. Paul suggested that anyone interested in the topic attend the Tuesday evening meeting.

5.21	MI	$802.11\ \mathrm{TGv}$ and TGw coexistence statement additions to $5\mathrm{C}$	-	Kerry	2	09:39 AM
Deferred to Friday.						
5.22	MI	P&P inclusion of IEEE Policies, procedures, and restrictions	-	Thompson	2	09:40 AM
Deferred to Friday.						

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5.23 II 802.11 CBP SG update (PAR) - Kerry 1 09:41 AM

FCC issued a Report and Order for which it has received a number of requests for reconsideration. The outcome of this process is uncertain. A decision will be made during the week as to whether

5.24II802.3 Residential Ethernet Study Group update-Grow509:42 AM

Residential Ethernet has been going on more than six month as a study group. They believe that virtually everything they want to do belongs to 802.1. They will be working to determine how to integrate this work into 802.1. They may request a continuation until a determination is made.

5.25 II Architecture Group Update - Jeffree 5 09:44 AM

Continuing to talk through issues. Most of yesterday's meeting was discussing 802.11, including compatibility with bridging. Several areas were identified for 802.11 to look at.

5.26	II	802.1 PARs	-	Jeffree	1	09:45 AM
There a	re five	PARs to be considered this week.				
5.27	п		-			
5.28	II		-			
5.29	II	802.16 Relay study group formation	-	Marks	1	09:50 AM
There will likely be a request to form a new study group on Friday. A question was asked if this is a mesh network. Roger replied that this is not a mesh, that the documents specifically differentiate this from a mesh.						
5.30	Π	China Liaison update	-	Marks	10	09:51 AM

Roger has worked on the JTC1 issue to modify 8802-11 by the China NB. There will be a meeting in Beijing, August 8-12, to continue the discussion with the China NB. The EC will be asked to approve contributions to this meeting on Friday. Steve Mills will lead the delegation to the Beijing meeting.

5 There is a need to form a US TAG for SC6. Bob Pritchard has volunteered to be TAG administrator. A call for members of the TAG has been issued. Geoff asked that anyone from outside the US contact him if they are interested in forming other national TAGs.

5.31 II P&P update

- Sherman 15 09:59 AM

EC

LMSC Policy and Procedures Update

Author:

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

Date: July 18th, 2005

Status on P&P Restructuring

OU ARE HERE IN 2ND CYCLE

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 (<u>12 Cycles</u>)
 - Implement "Less is More"
 - Fix any deficiencies specific to 802
 - Reduce backlog of P&P revisions
- Entire process to take roughly 16 months
 - Extend 4 months for streamlining

Current LMSC P&P Revision Ballots

- P&P are updated via EC letter ballots and votes
 - Process defined in the LMSC P&P
 - Can be monitored via EC Email Archieve
 - http://grouper.ieee.org/groups/802/secmail/mail1.html
- In Process streamlining ballots (Vote for balloting Friday)
 - WG Membership & Meetings (Matthew Sherman)
 - LMSC Procedures & Process (Matthew Sherman)
 - LMSC Organization (Matthew Sherman)
 - Miscellaneous (Matthew Sherman)
- Other Ballots
 - Procedure for PARs (Tony Jeffree)

Comment Resolution Conducted

- 16 hours total (Normal is 3 hours)
 - 6/17 Two hours Telecon
 - 6/27 Two hours Telecon
 - 6/30 Two hours Telecon
 - -7/6 Two hours Telecon
 - -7/17 Four hours in person

Status on Streamlining Ballots

- Miscellaneous
 - Completed Balloting and Resolution
 - Will release complete change resolution 7/18
- LMSC Organization
 - Completed Balloting and Resolution
 - Will release complete change resolution 7/18
- LMSC Procedures & Process
 - Completed Balloting and Resolution
 - Will release complete change resolution 7/18
- WG Membership & Meetings (M&M)
 - See next page!

Status WG M&M Ballot

- Ballot Complete
- 15 Pages of Comments!
- Partitioned comments into 5 sub-areas
 - WG Membership requirements and rights (Resolved)
 - Election / Removal of Chair and other officers (*Resolved*)
 - Letter of Intent / Affiliation statements (Unresolved)
 - Recirculations and fixed WG membership (Unresolved)
 - Editorial / other (Unresolved)
- Unable to complete resolution

Status WG M&M Ballot (Cont)

- SA Staff has reviewed unresolved comments
- SA Staff has recommended resolutions
 - Mostly Editorial
 - Will straw poll one no-editorial change here
- Bob Grow has requested one paragraph be divided from the question

Actions for WG M&M Ballot

- On Friday will divide question on approval into 3 questions
 - Bob's paragraph
 - Material that passed through comment resolution
 - Material resolved on SA Staff recommendation
- Will pass 3 text to the reflector for comment tonight

Controversial Text

7.2.0.1 Establishment



All persons participating in the initial <u>Plenary session meeting</u> of the Working Group become members of the Working Group. Thereafter, membership in a Working Group is established by participating in the meetings of the Working Group at two out of the last three Plenary sessions.¹, *****In addition, and (optionally) a letter of intent and/or affiliation statement may be required for membership in a to the Chair of the Working Group. ***** Participation at a meeting is defined as at least 75% physical presence at that a meeting. Participation at a session is defined as attending 75% of the meeting hours at a session. Membership starts at the <u>beginning of the</u> third Plenary session attended by the participant. One interim session of a Working Group or <u>subtask</u> group meeting may be substituted for a the Working Group meetings at one of the two Plenary sessions (See subclause 7.2.3.4). The interim session must have occurred adjacent to one of the last three Plenary sessions.

Straw Poll

- Who support making the modification between the **** on the prior slide
 - If not supported will restore to text in current
 P&P

For: Against: Abstain:

Plea for Cooperation

- Attendance very low at times
- Will circulate all current texts tonight
- If you will vote against any of them, please let me know by Wednesday night along with any key reasons why
 - May further divide question

The Participation Issue

- Hardly ever have a quorum
 - 6/17 Two hours Telecon (WG M&M 1-9-1-6)
 ?
 - 6/27 Two hours Telecon (LMSC Organization 0-6-1-10)
 - (4 Voters) Mat, Dave, Geoff, Tony, Bob G
 - 6/30 Two hours Telecon (Miscellaneous Issues 0-4-1-12)
 - (6 Voters) Mat, Dave, Geoff, Tony, Bob G, Paul, AJ
 - 7/6 Two hours Telecon (LMSC P&P 4-3-1-9)
 - (3 Voters) Mat, Dave, Geoff
 - 7/17 Four hours in person (ALL)
 - (10 Voters) Mat, ml, Geoff, Tony, Steve, AJ, Bob G, Paul, Mike, Carl, Jerry, David James, Tom Mathey
- *How do we Increase Participation?*
 - Will take straw polls Friday

Next Steps

- Continued restructuring at a slower pace
 WG Model P&P
- Improvements
 - Task Group membership?
 - Ability to opt out of ballots not of direct interest
- Others?

– As brought forward by EC members or WG

SA Support

- Want to see what happens at end of week
- Will straw-poll EC Friday
 - Slow down to rate of Mat alone
 - Maintain current rate?
 - Can EC really participate at this rate?

Straw poll on maintaining the text shown on slide 10 between the "****" as part of the P&P: In favor: 5 Not in favor: 7

5

If the "may" is changed to "shall" for the affiliation statement: In favor: 5 Not in favor: 7

5.32 Π **P&P** revision update Jeffree 2 10:14 AM -10 Tony reported on the change for entity balloting, as opposed to individual balloting. A new ballot was sent out with changes to the PAR procedure. Tony will send out the revised text fro final review. Π P802.3at DTE Power via the MDI enhancements PAR 5.33 Grow 1 10:18 AM This PAR will come up for approval on Friday. 5.34 II Possible P802.3au-Corr Isolation Requirements PAR 10:19 AM Grow 1 _ 15 There is a possibility that the text should be revised due to isolation requirements. This is a maintenance item that will be submitted 48 hours before the Friday closing meeting.

5.35	Π	Adventures with MyBallot	- Grow	5	10:20 AM
		114 (01041 05 (1011 101) 204100	0101	•	101101111

Adventures with MyBallot IV P802.3REVam Beta Test Recirculations and RevCom submittal

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

Post 1st recirculation

- We had some problems
 - Special characters (especially on SCC 14 ballots) stopping upload or responses
 - No error message
 - Selective no upload
 - myBallot indicating successful upload when it wasn't
 - Text too long at 4kB
 - Supplemental files not being archived (e.g., the non change bar draft)

Final ballot (2nd recirculation)

- Conducted under EC conditional approval for RevCom submittal
- No new negatives
- Five comments, no valid new disapprove comments
- Ballot closed after RevCom submittal deadline

RevCom submittal

- Submittal package couldn't be downloaded when a recirculation was open
- MyBallot wasn't implemented to support conditional approval, but will be enhanced to support it.

Current myBallot status

- Standard is approved yet myBallot indicates "Comment Resolution 2"
 - Ballot group does not have visibility of final sponsor ballot comment responses through myBallot
 - Comments are not visible through myBallot to the ballot group, RevCom, etc. only to sponsor, delegate and staff
 - Unless enhanced, no project will appear to be finished until myProject
- Above issues have been submitted to staff
- There is a C/LM invitation group, I've only been sending invitations to my WG invitation group, how about you?

Status on Standards Extracts

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

Standards Extracts

- 802.3 has/will have:
 - Downloadable extracts of published tables
 - Downloadable MIBs
 - All current files are text files
 - Very large matrix that will not be published in standard, only downloadable file referenced (format TBD)
 - PICs pages that IEEE are not easily reproduced for their purpose (protection of the pdf of the standard).
- IEEE has a mandated location for such files
 - It is currently a flat file structure (soon to be a problem if for example we all start putting copies of our PICs pages there)
 - David Law is working on getting a hierarchical structure prior to publication of IEEE Std 802.3-2005

5.36 II International Venues - update - Rigsbee 2 10:26 AM

Buzz reported that this has been a frustrating experience, going through proposals from dozens of properties. Many properties have withdrawn from the process. There is one proposal from London that is still in the process, for January 2007.

5.37	II		-			
5.38	II		-			
5.39	II		-			
5.40	II		-			
5.41	II		-			
5.42	II		-			
5.43	II		-			
5.44	II		-			
5.45	DT	SEC meeting schedule (rules, SA, etc.)	-	Nikolich	3	10:31 AM

5

EC meetings for the week in Boardroom A

•	Tuesday 9:30-11am	reserved (Paul)
•	Tuesday 1-2pm	get IEEE802 2007 budget discussion (JohnH/KarenK)
•	Tuesday 2-3pm	EMS online training contract finalization (Pat/AndyI)
•	Tuesday 3-4pm	Network RFQ response review (Buzz)
•	Tuesday 7:30-9:30 pm	(not EC meeting/but EC members invited to participate) Attendance monitoring automation RFQ response review (Stuart/BobH)
•	Wed 8-10am	open
•	Wed 10-noon	802 Task Force (Paul)
•	Wed 1-4pm	SC6 'special meeting' preparation (Roger)
•	Wed 4-6pm	appeal hearing (Paul)
•	Thursday tbd	alternatives to EC email ballot process (Roger)
•	Thursday AM tbd	formation of TAGs in support of SC6 (Geoff, BobP)
•	Thursday 1-2pm	international venues
•	Thurs 4-6pm	'open office' (Paul, Steve and Karen)

ADJOURN SEC MEETING	-	Nikolich	10:33 AM
The EC meeting adjourned at 10:40am.			
6.00 PL IEEE 802 PLENARY MEETING STARTS		- Nikolich	60 11:00 AM

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		IEEE			
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25th Anniversary of Project 802 13 March 1980

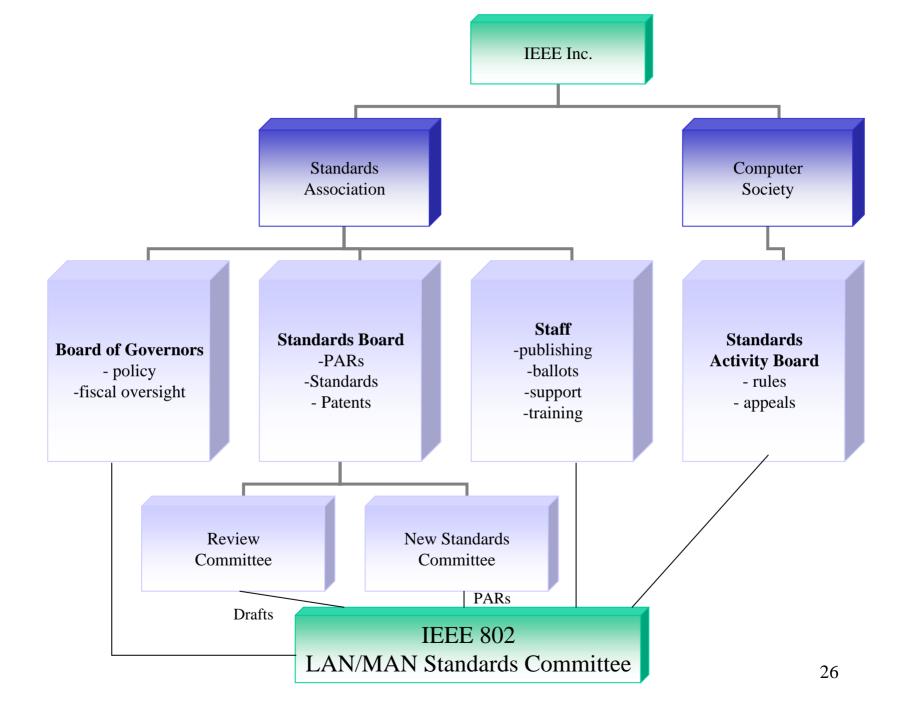
July 2005

Opening EC Meeting 8 AM-10:30AM

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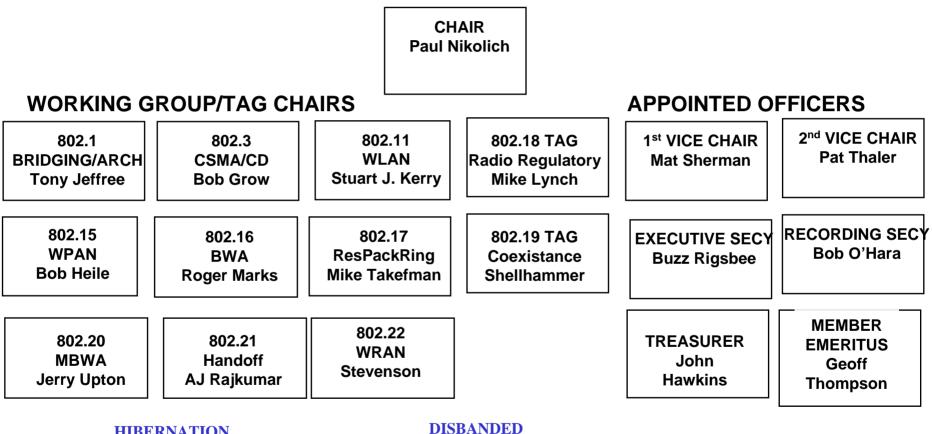
IEEE802 Monday Plenary Agenda

		ILLOUZ MOnday I fondi y Age	inda
•	11:00	Welcome	Nikolich
٠	11:02	Membership Rules, EMS update	Thaler
٠	11.04	IEEE 802 Policy and Procedure Update	Sherman
٠	11:06	Treasurer's Report	Hawkins
٠	11:08	Patent Policy	Thompson
•	11:10	Anti-Trust Concerns preview	Lindsay
٠	11:15	802.1 Architecture & Interworking	Jeffree
٠	11:20	802.3 CSMA/CD (Ethernet)	Grow
•	11:25	802.11 WLAN (Wireless Local Area Network)	Kerry
•	11:30	802.15 WPAN (Wireless Personal Area Network)	Heile
•	11:35	802.16 BWA (Broadband Wireless Access)	Marks
•	11:40	802.17 RPR (Resilient Packet Ring)	Takefman
•	11:45	802.18 Radio Regulatory TAG	Lynch
٠	11:50	802.19 Coexistance TAG	Shellhammer
٠	11:55	802.20 Mobile BWA	Upton
٠	12:00	802.21 Handoff	Rajkumar
•	12:05	802.22 Wireless Regional Area Networks	Stevenson
٠		Tutorials	Nikolich
•		Meeting Arrangements	Rigsbee
•	12:??	ADJOURN	Plenaty



IEEE 802 ORGANIZATION

EXECUTIVE COMMITTEE (EC)



HIBERNATION

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

802.4 Token Bus 802.7 Broadband TAG 802.9 ISLAN 802.14 CATV

802.6 DODB 802.8 Fiber Optic TAG 802.10 Security

Awards

- IEEE Std 802.1AB-2005 Station and Media Access Control Connectivity Discovery
 - Tony Jeffree, Paul Congdon, Bill Lane
- IEEE Std 802.15.1-2005

Wireless Medium Access Control (MAC) and Physical Layer (PHY) Specifications for Wireless Personal Area Networks (WPANs)

 Jennifer Bray, David Cypher, Ian Gifford, Dr. James Gilb, Pat Kinney, Mike McInnis, Tom Siep

IEEE Staff Introductions

- Karen Kenney
 - Associate Managing Director
- Jennifer McClain Longman,
 - Managing Editor Standards Information and Industry Publications
- Andy Ickowicz,
 - Program Manager, Technical Program Development
- Michelle Turner
 - Project Editor
- Terry DeCourcelle
 - Manager, International Committee Programs
- Michael Lindsay
 - IEEE attorney from Dorsey & Whitney

IEEE-SA Standards Board Bylaws on Patents6. Patentsin Standards

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

Slide #2 Approved by IEEE-SA Standards Board – March 2003 (Revised February 2004

Anti-Trust Overview

• Michael Linsday

Mike Lindsay reported on the issue of anti-trust. He announced the meeting to be held Tuesday at 5pm for further discussion of this issue.

IEEE Project 802 Estimated Statement of Operations July 2005 Plenary Session San Francisco, CA As of July 14, 2005

Meeting Income	Estimate	Budget	Variance
Registrations	1,600	1,200	400
Registration income	512,000	384,000	128,000
Deadbeat collections	0	0	0
Bank interest	150	150	0
Other income	0	0	0
TOTAL Meeting Income	512,150	384,150	128,000
Meeting Expenses	Estimate	Budget	Variance
Audio Visual Rentals	15,000	15,000	0
Audit	6,000	0	(6,000)
Bank Charges	300	230	(70)
Copying	5,500	5,500	0
Credit Card Discount	14,336	10,752	(3,584)
Equipment Expenses	9,000	9,000	0
Get IEEE 802 Contribution	120,000	90,000	(30,000)
Insurance	0	0	0
Meeting Administration	64,607	75,064	10,457
Misc Expenses	500	500	0
Network	46,000	34,388	(11,612)
Phone & Electrical	2,100	2,100	0
Refreshments Shinning	121,600	91,200	(30,400)
Shipping Social	3,100	3,100	0
	88,000 500	66,000	(22,000)
Supplies TOTAL Meeting Expense	496,543	<u> </u>	0
TOTAL meeting Expense	490,343	403,334	(93,209)
NET Meeting Income/Expense	15,607	(19,184)	34,791
Analysis	70	70	
Refreshments per registration	76	76 55	0
Social per registration Meeting Administration per registration	55 40	55	0
Networking per registration	40 29	63 29	22
Get IEEE 802 Contribution per registratio	29 75	29 75	(0) 0
Surplus/Deficit per registration	10	(16)	26
Pre-registration rate	0.600	0.600	20
	0.000	0.000	
Previous operating reserve	341,570		
NET Meeting Income/Expense	15,607		
Projected operating reserve	357,177		

IEEE Project 802 Statement of Operations Mar 05 Plenary Session Atlanta, GA As of July 17, 2005

		AS OI	July 17, 200	05		
Session Income				Actual	Budget	Deviation
Net Registrations				1,540	1,200	340
923 Early Registrations	@	\$300	276,900	,	216,000	60,900
6 Early cancellations	@	\$300	-1,800		,	,
26 Cancellations	@	\$250	-6,500			
642 Registrations	@	\$350	224,700		168,000	56,700
3 Cancellation	@	\$300	-900		,	,
5 On-site registrations	@	\$350	1,750			
5 Other	@	\$100	500			
1 Credit for overpmt	@	\$50	-50			
Registraion Subtotal			494,600	494,600	384,000	110,600
0 Deadbeat Payment	@	\$350	-	0	0	0
Interest	_	•		207	150	57
Other				4,050	0	4,050
TOTAL Session Income				498,857	384,150	114,707
TOTAL Session income				490,007	364,130	114,707
Session Expenses				Actual	Budget	
Audio Visual Rentals				20,117	15,000	(5,117)
Audit				0	6,000	6,000
Bank Charges				494	230	(264)
Copying				5,409	5,500	91
Credit Card Discounts & Fe	ees			14,090	10,752	(3,338)
Equipment Expenses				12,788	9,000	(3,788)
Get IEEE 802 Conttribution	1			115,500	90,000	(25,500)
Insurance				2,713	3,000	287
Meeting Administration				19,984	75,064	55,080
Misc Expenses				1,927	500	(1,427)
Networking				55,123	34,388	(20,735)
Phone & Electrical				3,390	2,100	(1,290)
Refreshments				130,246	72,000	(58,246)
Shipping				7,433	3,100	(4,333)
Social				46,983	42,000	(4,983)
Supplies				1,028	500	(528)
Other (P&P Contract)				9,487	0	(9,487)
TOTAL Session Expense				446,713	369,134	(77,579)
NET Session Surplus/(Deficit)				52,145	15,016	37,129
Analysis				05	<u> </u>	
Refreshments per registrat	ion			85	60 05	(25)
Social per registration				31	35	4
Meeting Admin per registra				13	63	50
Surplus/(Loss) per registra	tion			34	13	21
Pre-Registration ratio				0.60	0.60	
Bank account balance as of 6/3	31/05	;		492,284		
Income to date for current session				(204,470)		
Expenses prepaid for current session				51,756		
Expenses prepaid for future se	essio	ns		0		
Petty cash fund				2,000		
Current operating reserve				341,570		
e and operating receive				0.1,010		

LMSC Policy and Procedures Update

Author:

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

Date: July 18th, 2005

What are the LMSC P&P?

- P&P is short hand for Policies and Procedures
- LMSC P&P are the 'rules' that govern the IEEE 802 LMSC
- LMSC P&P can be found at
 - http://grouper.ieee.org/groups/802/policies-and-procedures.pdf
- Working groups also have P&P
- Other 'Governance' documents from
 - IEEE Standards Association
 - IEEE Computer Society

Status on P&P Restructuring

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 Executive Committee (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 recently completed complete rewrite of their rules
 - Requirements impact our rules
- AUDCOM has model Sponsor P&P and now reviews our P&P
 - Complying with AUDCOM model should ease approval our our P&P

Restructuring of Rules required to accommodate these issues

ARE HERE

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 (12 Cycles) IN 2ND CYCLE
 - Implement "Less is More"
 - Fix any deficiencies specific to 802
 - Reduce backlog of P&P revisions
- Entire process to take roughly 16 months
 - Extend 4 months for streamlining

Current LMSC P&P Revision Ballots

- P&P are updated via EC letter ballots and votes
 - Process defined in the LMSC P&P
 - Can be monitored via EC Email Archieve
 - http://grouper.ieee.org/groups/802/secmail/mail1.html
- In Process streamlining ballots (Vote for balloting Friday)
 - WG Membership & Meetings (Matthew Sherman)
 - LMSC Procedures & Process (Matthew Sherman)
 - LMSC Organization (Matthew Sherman)
 - Miscellaneous (Matthew Sherman)
- Other Ballots
 - Procedure for PARs (Tony Jeffree)

All P&P Revs Must be Approved by Vote of EC

- Current Revisions will all be voted at Closing EC meeting Friday 7/22/05
- Open to IEEE 802 Attendees

Next Steps

- Continued restructuring at a slower pace
 - WG Model P&P
- Improvements
 - Task Group membership?
 - Ability to opt out of ballots not of direct interest
- Others?

– As brought forward by EC members or WG

Questions?

- Contact Matthew Sherman
 - matthew.sherman@baesystems.com

802.1 – Activities & status

Tony Jeffree, 802.1 WG Chair July 18, 2005

Areas of work

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

Officers

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

- Website: http://www.ieee802.org/1/

Status of current projects - (1)

Revision of 802.1Q - VLANs

- Main work is general cleanup plus alignment with revisions to 802.1D MAC Bridges
- Necessary pre-cursor to ongoing amendments (Provider Bridging,...etc.)
- Sponsor ballot closed; 1 "No" vote
- Ballot resolution this week (Tues PM)
- Will need a recirculation
- Expect RevCom submission in September timeframe

Status of current projects - (2)

Llink layer discovery (IEEE Std 802.1AB)

- Published

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
- -Sponsor ballot closed
- Ballot resolution this week (Tues PM)
- -Will need a recirculation
- –Expect RevCom submission in September timeframe

Status of current projects - (4)

P802.1AE – MAC Security

- First working group recirc ballot completed
- Ballot resolution this week
- Will need further recirc
- Sponsor ballot probably Sep timeframe
- P802.1af Key Agreement
 - Second draft generated
- P802.1ag Connectivity Fault Management
 - Second draft generated
 - WG ballot in August timeframe

Status of current projects - (5)

- P802.1ah Provider Backbone Bridges
 - Proposed amendment to 802.1Q to provide further scaling characteristics in conjunction with P802.1ad in large provider networks
 - PAR approved
 - Initial draft generated
 - TG ballot due in July/August timeframe
- P802.1aj Two-port MAC Relay
 - Proposed amendment to 802.1Q to define a relay device, commonly known as a "media converter", that will assist the integration of 802 LAN technologies with emulated LAN services in use in the provider networking space.
 - PAR approved
 - Second draft generated
- P802.1ak Multiple Registration Protocol
 - Proposed amendment to 802.1Q to improve the performance/scalability of GARP-based applications (GVRP, GMRP) in provider networks
 - PAR approved
 - TG ballot completed; ballot resolution this week

New project proposals (PARs) due for submission this week

P802.1AC – MAC Service

PAR revision to extend end dates

- P802.1AL Secure Device Identity
- P802.1AM Media Independent Radio Frequency (RF) Management of Wireless 802 Networks
- P802.1ao Shortest Path Bridging
- P802.1ap Management Information Base (MIB) definitions for VLAN Bridges

Interim meeting

May 9 through 13 in Berlin

IEEE 802.3 Working Group 18 July 2005

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

802.3 Officers

- 802.3 Chair: Bob Grow (bob.grow@ieee.org)
- 802.3 Vice Chair: David Law (david_law@3com.com)
- 802.3 Secretary: Steve Carlson (scarlson@esta.org)
- P802.3REVam: David Law (david_law@3com.com)
- P802.3an 10GBASE-T: Brad Booth (bradley.booth@intel.com)
- P802.3ap Backplane Ethernet: Adam Healey (ahealey@agere.com)
- P802.3aq 10GMMF: David Cunningham (david_cunningham@agilent.com)
- P802.3ar Congestion Mgt: Kevin Daines (kevin.daines@wwp.com)
- P802.3as Frame Format Extensions: Kevin Daines (kevin.daines@wwp.com)
- Residential Ethernet SG: Michael D. Johas Teener (mikejt@broadcom.com)
- Power over Ethernet Plus SG: Mike McCormack (mike_mccormack@ti.com)

Current IEEE 802.3 Standards

- IEEE Std 802.3-2002 (8 Mar 2002)*
- IEEE Std 802.3ae-2002 (30 Aug 2002)*
- IEEE Std 802.3af-2003 (18 Jun 2003)*
- IEEE Std 802.3aj-2003 (26 Sep 2003)*
- IEEE Std 802.3ak-2004 (1 March 2004)*
- IEEE Std 802.3ah-2004 (7 Sep 2004)*
- IEEE Std 1802.3Rev-2001*
- * Available through Get IEEE 802 http://standards.ieee.org/getieee802/802.3.html

P802.3REVam

- P802.3REVam/D2.2 approved by IEEE Standards Board, currently in publication preparation
- Revision of IEEE Std 802.3-2002 includes:
 - IEEE Std 802.3-2002
 - IEEE Std 802.3ae-2002
 - IEEE Std 802.3af-2003
 - IEEE Std 802.3aj-2003
 - IEEE Std 802.3ak-2004
 - IEEE Std 802.3ah-2004
 - Maintenance 8
 - Errata
- When published will supersede above standards

P802.3an 10GBASE-T

- Extends Ethernet capabilities at 10 Gb/s
 - Operation over horizontal twisted pair
 - New physical layer to run under 802.3ae specified XGMII
- In Working Group ballot
- Meeting plan (Tue, Wed, Thu morn)
 - Resolve comments on P802.3an/D2.1, 1st recirculation working group ballot

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 (Tue, Wed)
 - Technical presentations and refinement of draft
 - Requesting advancement to Working Group ballot
 - Current draft: P802.3ap/D1.0

P802.3aq 10GBASE-LRM

- Extends Ethernet capabilities at 10 Gb/s
 - New physical layer to run under 802.3ae specified XGMII
 - Extends Ethernet capabilities at 10 Gb/s
 - Operation over FDDI-grade multi-mode fiber
- In Working Group ballot
- Meeting plan (Tue, Wed, Thu morn)
 - Resolve comments on P802.3an/D2.1, 1st recirculation working group ballot

P802.3ar Congestion Management

- Enhances Ethernet congestion management characteristics
 - Rate control
 - Support of cooperative IEEE 802 congestion management work
- Meeting plan (Tue)
 - Technical presentations

– Joint issues covered in 802.1 (Wed AM)

P802.3as Frame Format Extensions

- 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 (Wed PM)
 - Technical presentations
 - Joint issues covered in 802.1 (Wed AM)
 - Requesting advancement to Working Group ballot
 - Current draft: P802.3ap/D1.1

Residential Ethernet Study Group

- Develop Ethernet specifications for residential applications requiring time sensitive data delivery
 - Use existing 802.3 full-duplex PHYs
 - Provide predictable latency and low jitter
 - May include admission controls and clock synchronization
- Meeting plan (Tue, Wed)
 - Technical presentations
 - Refine understanding of the split of work between 802.1 and 802.3
 - Joint issues covered in 802.1 (Wed AM)

Power over Ethernet Plus Study Group

- Increase the amount of power delivered over twisted pair copper from that specified by IEEE Std 802.3af-2003
 - At least 30 watts
 - Maintain compatibility with 802.3af
- Meeting plan (Tue, Wed, Thu morn)
 - Technical presentations
 - Seeking P802.3at PAR approval this week
 - Develop a plan to correct isolation errors in 802.3af – will likely be a corregendum PAR

Other Activities

 Maintenance (Wed), interpretations (Wed), liaison matters, etc.

This Week's Meetings

- Opening WG plenary starts Monday, 1:00pm – Seacliff
- TF and SG meetings, Tues morning through Thurs noon – check detailed schedule for meeting rooms
- Closing WG plenary, Thursday 1:00pm – Seacliff
- 802.3 Web Site: www.ieee802.org/3

92nd IEEE 802.11 WIRELESS LOCAL AREA NETWORKS SESSION

Hyatt Regency San Francisco, 5 Embarcadero Center, San Francisco, CA 94111 USA

July 17th-22nd, 2005

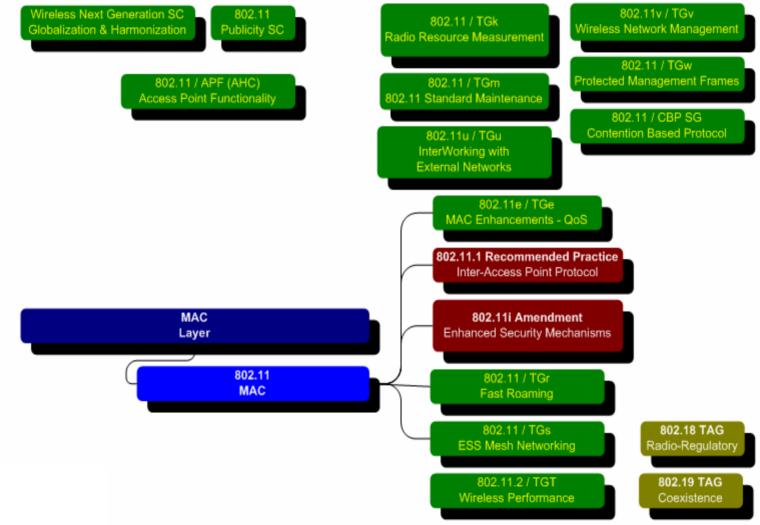


www.ieee802.org/11

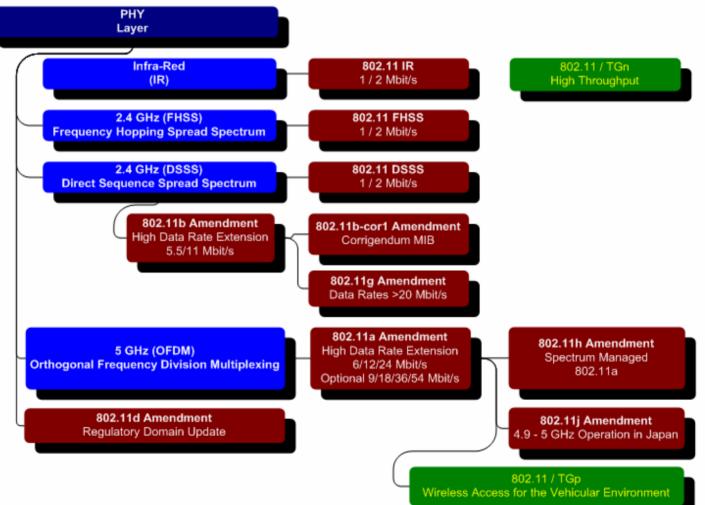
Stuart J. Kerry - Chair, IEEE 802.11 WLANs Working Group stuart.kerry@philips.com

IEEE Std 802.11, 802.11a, 802.11b, 802.11b-Cor1, 802.11d, 802.11e, 802.11g, 802.11g, 802.11i, 802.11i, 802.11k, 802.11m, IEEE 802.11BeV-ma, 802.11n, 802.11g, 802.11s, 802.11t, 802.11m, 802.11u, 802.11u, 802.11u, 802.11.1 and 802.11.2 are trademarks of the IEEE. All other names or product names are the trademarks, service marks or registered trademarks of their respective holders.

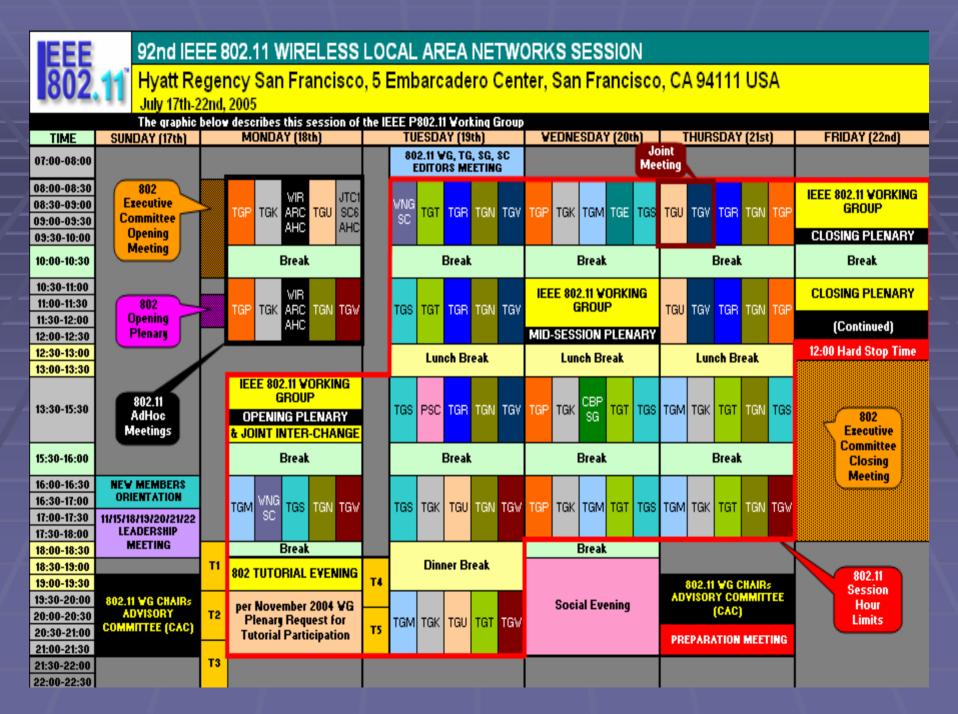
802.11 MAC & Other Activities



802.11 PHY Activities



	IEEE 802.11 WORKING G	ROUP OFFICERS				
Name	Position	Work Phone	eMail			
Stuart J. Kerry	IEEE 802.11 WG Chair Philips Semiconductors, Inc., 1109 McKay Drive, M/S 48A SJ, San Jose, CA 95131-1706, USA Fax:+1 (408) 474-5343	+1 (408) 474-7356	stuart.kerry@philips.com			
Al Petrick	WG Vice-Chair / Treasurer Policies & Treasury	+1 (321) 725-1520 x204				
Harry R. Worstell	WG Vice-Chair Attendance, Ballots, Documentation & Voting	+1 (973) 236-6915	<u>hworstell@att.com</u>			
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Clint Chaplin	TGr Chair	+1 (408) 528-2766	cchaplin@si.symbol.com			
Donald E. Eastlake 3rd	TGs Chair	+1 (508) 786-7554	donald.eastlake@motorola.com			
Charles R. Wright	TGT Chair	+1 (978) 268-9202	charles_wright@azimuthsystems.com			
Stephen McCann	TGu Chair	+44 (1794) 833341	stephen.mccann@roke.co.uk			
Pat R. Calhoun	TGv Chair	+1 (408) 635-2023	pcalhoun@cisco.com			
Jesse Walker	TGw Chair	+1 (503) 712-1849	jesse.walker@intel.com			
Peter Ecclesine	CBP SG Chair	+1 (408) 527-0815	petere@cisco.com			



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

PUBLICITY STANDING COMMITTEE OBJECTIVES FOR THIS SESSION

IEEE 802.11 / 802.15 - Joint Publicity

JOINT CHAIRS - NANCI VOGTLI - 802.11 / GREGG RASOR - 802.15

- Reports from industry groups
- Discuss press coverage of 802.11 & 802.15
- Discuss template for updates to the press
- Populate the Events Calendar

WNG STANDING COMMITTEE OBJECTIVES FOR THIS SESSION

IEEE 802.11 - Wireless LANs Next Generation

CHAIR - TEIK-KHEONG "TK" TAN

- Updates from ETSI-BRAN. MMAC, Radio Regulatory
- Updates on IEEE Evolution Future of IEEE 802.11, Multicasting in WLAN
- Prepare for IEEE Interim September 2005

TASK GROUP E OBJECTIVES FOR THIS SESSION

IEEE 802.11e Amendment - 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 to REVCOM

TASK GROUP K OBJECTIVES FOR THIS SESSION

IEEE 802.11k Amendment - Radio Resource Measurements

CHAIR - RICHARD PAINE

Letter Ballot 73 Comment Resolution and Letter Ballot

TASK GROUP M OBJECTIVES FOR THIS SESSION IEEE 802.11REVma - Standard Maintenance

CHAIR - BOB O'HARA

- Process any interpretation requests received
- Process comments from WG recirc ballot
- Issue new draft to WG recirculation ballot

TASK GROUP N OBJECTIVES FOR THIS SESSION

IEEE 802.11n Amendment - High Throughput

CHAIR - BRUCE KRAEMER / VICE-CHAR - SHEUNG LI

- Committee Reports
- Proposal Presentations
- Question and Answer Sessions
- Technical Comparison Presentations
- Down select vote
- Planning for September

TASK GROUP P OBJECTIVES FOR THIS SESSION

IEEE 802.11p Amendment - Wireless Access for the Vehicular Environment

CHAIR - LEE ARMSTRONG

- Resolve TG comments on 802.11p amendment
- Plan for next meeting, Working Group letter ballot

TASK GROUP R OBJECTIVES FOR THIS SESSION

IEEE 802.11r Amendment - Fast Roaming

CHAIR - CLINT CHAPLIN

- Work on draft
- Prepare for September meeting

TASK GROUP S OBJECTIVES FOR THIS SESSION

IEEE 802.11s Amendment - ESS Mesh Networking

CHAIR - DONALD EASTLAKE 3RD

- Presentation of Proposals and Initial Ballot
- Refinement of Proposal Selection and Draft Development Procedures
- Presentations and Discussions on Other Mesh Networking Submissions

TASK GROUP T OBJECTIVES FOR THIS SESSION

IEEE 802.11.2 Recommended Practice - Wireless Performance

CHAIR - CHARLES R. WRIGHT

- Elect permanent secretary
- Technical presentations and proposals:
 - RF test environments, metrics, definitions, application performance,
 - device operating environments, device configuration

TASK GROUP U OBJECTIVES FOR THIS SESSION

IEEE 802.11u Amendment - InterWorking with External Networks

CHAIR - STEPHEN MCCANN

- Complete drafting of requirements
- Technical submissions to assist with requirements
- Down selection document drafting
- Joint sessions with IEEE 802.11v

TASK GROUP V OBJECTIVES FOR THIS SESSION

IEEE 802.11v Amendment - Wireless Network Management

CHAIR - PAT R. CALHOUN

- Individuals present requirements (owners listed in 05/0224r3)
- Assignment of remaining requirements
- Move unassigned requirements to 'B' category
- Start collecting draft text from proposals

TASK GROUP W OBJECTIVES FOR THIS SESSION

IEEE 802.11 - PROTECTED MANAGEMENT FRAMES

CHAIR - JESSE WALKER

- Discuss and adopt requirements
- Adopt selection criteria
- Issue call for proposals
- Authorize Conference Calls
- Hear Technical Submissions

CBP STUDY GROUP OBJECTIVES FOR THIS SESSION

IEEE 802.11 - CONTENTION BASED PROTOCOL

CHAIR - PETER ECCLESINE

- Review WG, EC comments on PAR, 5 Criteria documents
- Develop plans for work after Plenary closes

IS0 JTC1-SC6 AHC OBJECTIVES FOR THIS SESSION

IEEE 802.11 - JTC1-SC6 AHC

CHAIR - JESSE WALKER

Address action items arising from JTC1-SC6, including passing enabling motions

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 <u>Example Plenary and Interim Session</u> <u>Agenda</u>, or review the latest Combined Tentative Agenda for the next IEEE 802.11 WG Session below.

	FUTURE SESSIONS			
For Year 2005	Interim Sessions to be Allocated if Required		Session	Туре
July 17th-22nd	Hyatt Regency San Francisco, CA, USA - General Information On	-	92	Plenary
	802.11 WG, TGs, SGs, SC & AHC Combined Agendas	XLS		
	includes the WG Objectives & WG Graphic	Rev.0		
	Session Registration, Hotel Booking, Tutorials & General Information	Click Here		
September 18th-23rd	Hyatt Regency Orange County, CA, USA - General Information - I	Booking TBD	93	Interim*
	802.11 WG, TGs, SGs, SC & AHC Combined Agendas	XLS		
	includes the WG Objectives & WG Graphic	Rev.TBD ⁽¹⁾		
	Session Registration, Hotel Booking & General Information	<u>Click Here</u>		
November 13th-18th	Hyatt Regency Vancouver, BC., Canada - General Information - Bo	ooking TBD	94	Plenary
For Year 2006	Interim Sessions to be Allocated if Required		Session	Туре
January 15th-20th	Hilton Waikoloa Village, Big Island, HI USA - General Information	-	95	Interim*
	802.11 WG, TGs, SGs, SC & AHC Combined Agendas	XLS		
	includes the WG Objectives & WG Graphic	Rev.TBD ⁽¹⁾		
	Session Registration, Hotel Booking & General Information	<u>Click Here</u>		
March 12th-17th	Hyatt Regency New Orleans, LA, USA - General Information - Boo	oking TBD	96	Plenary
May	To Be Determined ⁽²⁾		97	Interim*
July 16th-21st	Manchester Grand Hyatt, San Diego, CA, USA - General Informat	on - Booking TBD	98	Plenary
September	To Be Determined ⁽²⁾		99	Interim*
November 12th-17th	Hyatt Regency Dallas, TX, USA - General Information - Booking T	BD	100	Plenary
For Year 2007	Interim Sessions to be Allocated if Required		Session	Туре
January	To Be Determined ⁽²⁾		101	Interim*
March 11th-16th	Caribe Royale, Orlando Florida USA		102	Plenary
May	To Be Determined ⁽²⁾		103	Interim*
July 15th-20th	Hyatt Regency San Francisco, CA, USA - General Information - B	ooking TBD	104	Plenary
September	To Be Determined ⁽²⁾		105	Interim*
November 11th-16th	Hyatt Regency Atlanta, GA, USA - General Information - Booking	TBD	106	Plenary
				_

802.11 WG Communication & Information

IEEE 802.11 Web Site: www.ieee802.org/11/

Members Site: <u>www.802wirelessworld.com</u>

EMAIL REFLECTORS

To be added to the 802.11 reflectors please review: <u>http://www.ieee802.org/11/Reflector.html</u> Do Not send subscription requests directly to the email reflectors, see above information.

Working Group	stds-802-11@listsev.ieee.org	This reflector is for official Technical business of the 802.11 Working Group, Standing Committees, Study Groups, and AdHoc Groups. WG Letter Ballots, Technical discussions and Questions, Comments on presentations and documents, are welcome.
Task Group e	stds-802-11-tge@listsev.ieee.org	These reflectors are for official Technical business of each 802.11 Task Group
Task Group k	stds-802-11-tgk@listsev.ieee.org	community. Technical discussions and Questions, Comments on presentations and documents, are welcome.
Task Group m	stds-802-11-tgm@listsev.ieee.org	
Task Group n	stds-802-11-tgn@listsev.ieee.org	
Task Group p	stds-802-11-tgp@listsev.ieee.org	
Task Group r	stds-802-11-tgr@listsev.ieee.org	
Task Group s	stds-802-11-tgs@listsev.ieee.org	
Task Group T	stds-802-11-tgt@listsev.ieee.org	
Task Group u	stds-802-11-tgu@listsev.ieee.org	
Task Group v	stds-802-11-tgv@listsev.ieee.org	
Task Group w	stds-802-11-tgw@listsev.ieee.org	

The Email Reflectors are closed and restricted to those on the list to reduce SPAM. Membership of all reflectors is strictly controlled and adheres to the current WG Policies and Procedures. To send to a list you must use your exact email address that is subscribed as the 'From' address.



" Setting the Standards for Wireless LANs ... "

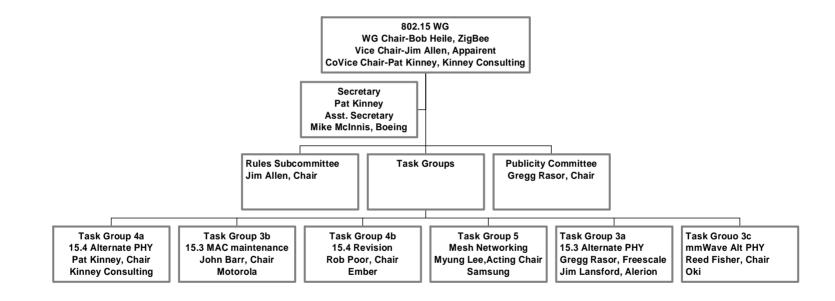


37th Session of meetings of the IEEE 802.15 Working Group for Wireless Personal Area Networks

July 18-22, 2005

Hyatt Regency Embarcadero San Francisco, CA, 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 San Francisco Session July 18-22, 2005

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)
- **3. Select new Chair**

TASK GROUP 3b OBJECTIVES FOR THIS MEETING:

- **1. Review letter ballot comments**
- 2. Edit draft if necessary
- **3. Prepare for recirculation letter ballot OR**
- 4. Prepare for sponsor ballot submission

Objectives of the San Francisco Session July 18-22, 2005

TASK GROUP 3c OBJECTIVES FOR THIS MEETING:

- **1. Project Timeline**
- 2. Update of Call for Intent
- **3. Update of Technical Requirements**
- 4. Update of Channel Modeling Activity
- **5.** Discussion on Call for Proposals(CFP) and Downselection Process
- 6. Response to WCA petition

TASK GROUP 4a OBJECTIVES FOR THIS MEETING:

- 1. Define technical issues in the editing areas of UWB, Ranging, CSS/2.4 GHz, and MAC
- 2. Modify proposals based on technical issue resolution
- 3. Revise Project Plan

Objectives of the San Francisco Session July 18-22, 2005

TASK GROUP 4b OBJECTIVES FOR THIS MEETING:

- **1. Review letter ballot results**
- 2. Comment resolution
- **3.** Joint meeting with 802.19 Coexistence TAG (time TBD)
- 4. Update Project Plan

TASK GROUP 5 OBJECTIVES FOR THIS MEETING:

- **1. Select Replacement Chair**
- 2. Decide on future direction
- **3. Revise Project Plan as required**

San Franciso Session Graphic

	37th IEEE	802.1	5 WP	AN N	IEET	ING												
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174	July 17t	h-22n	d, 20	05														
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07:00-07:30	SUNDAY	_	MON	DAY	_	TUESDAY				WEDNESDAY					THUR	RSDAY	FRIDAY	
07:30-08:00										802.15 AC MEETING								
08:00-08:30							1									1		
08:30-09:00						TODA	TOAL	TOAL		TODA		TOAL	TOAL		TODA	TOAL	TOAL	
09:00-09:30		802 EC MEETING			TG3c	TG4a	TG4b		TG3c		TG4a	TG4b		TG3c	TG4a	TG4b	802.15 WG CLOSING	
09:30-10:00																		
0:00-10:30							Bre	eak				eak			Br	eak		Break
0:30-11:00			Bre	eak							TG	G3a						
1:00-11:30			802 PL	ENARY		TG3b	TG4a	TG4b						TG3a	TG3b	TG4a	TG4b	802.15 WG CLOSING
11:30-12:00										802	2.15 WG	MEETI	NG					
12:00-12:30		Lu	nch on `	Your O	wn													Lumah an Yaun Our
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15:00-15:30		1004							802.11									
15:30-16:00			Bre	eak		2	Bre	eak		Break				Break				802 EC MEETING
16:00-16:30	NEW MEMBERS								-									
16:30-17:00	ORIENTATION	TG3a	TG3c	TG4a	TG4b	TG3b	TG4a	TG4b		TG3c	TG5	TG4a	TG4b	TG3a	TG3b	TG4a	TG5	
17:00-17:30	WIRELESS LEADERSHIP	1054	1030	1644	1640	1030	1644	1640		1930	165	1644	1640	1034	1630	1644	165	
17:30-18:00	MEETING																	
18:00-18:30										Break								
18:30-19:00	Dinner on your	Dinner	on you	ir own	T. 4 4	Dinne	r on you	ur own	T. 4 0					Di	nner on	your o		
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20:00-20:30	Optional				<u> </u>	-			<u> </u>	1						Onti	onal	
20:30-21:00	Meeting Time		TG3b	TG4a	Tut 2	TG3b	TG4a		Tut 4		Social				TG3b Meeting Time			
21:00-21:30	802.15 AC				1412				1414							meeun	ig rinc	
21:30-22:00	MEETING																	
22:00-22:30																		
								L	EGEND									
	TG3a	Task Group 3a -High Rate Alt PHY								PC					icity Com			
	TG3b TG3c	Task Group 3b -HIGH RATE MAC maintenance Task Group 3c- millimeter wave alt PHY for 15.3												IEEE 802 Tutorials 1, 2, 3 and 4 SPONSOR EXECUTIVE COMMITTEE				
	TG4a		Task G	roup 4a -	Low Rate	Alternati	ve PHY			AC						OMMITTE		
	TG4b TG5			k Group 4 ask Group														

Upcoming Sessions

- <u>September 18-23, 2005</u>, Hyatt Garden Grove, Garden Grove, CA USA, *Interim Meeting**.
- <u>November 13-18, 2005</u>, Hyatt Regency Vancouver, Vancouver, BC, Canada, 802 *Plenary Meeting*.
- January 15-20, 2006, Hyatt Waikoloa Village, Big Island, HI USA, Interim Meeting*.
- <u>March 12-17, 2006</u>, Hyatt Regency New Orleans, LA USA, 802 *Plenary Meeting*.

2005-07-18

IEEE 802.16-05/046

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 18 July 2005 San Francisco, CA, USA

802.16 Role

Develops standards and recommended practices to support the development and deployment of broadband Wireless Metropolitan Area Networks

802.16 Membership

261 Members

125 Potential Members

Registration for session (by Sunday)
 –249 Primary
 –215 Secondary

802.16 Interim Sessions

- #35: January 2005
 –Sanya, China
- #37: May 2005
 - -Sorrento, Italy
- #39: September 2005
 Taipei, Taiwan
- #41: January 2006
 New Delhi, India
- #44: May 2006
 - -To be determined this week

Task Group e

Mobility enhancements

- Brian Kiernan: Chair
- Ron Murias: Editor

Sponsor Ballot: 4th recirc complete
 Comments to resolve this week

NetMan Task Group

- Phil Barber, Chair
- Joey Chou, Editor

- 802.16f: MIB
 - Sponsor Ballot: second recirc complete
 - Comments to resolve this week

 802.16g: Management Plane Procedures and Services

Call for comments; inputs to consider

Maintenance Task Group

- Jon Labs, Chair
- Itzik Kitroser, Editor

- P802.16-2004/Cor1: Corrigendum
 To IEEE Std 802.16-2004
- Sponsor Ballot complete
 Comments to resolve this week

Task Group C

Gordon Antonello, Vice Chair
 – Herbert Ruck: Acting Chair this week

Series of conformance standards

- Current activity:
 - P802.16/Conformance 04 (PICS)
 - Working Group Letter Ballot recirc complete
 - Comments to resolve this week

Licensed-Exempt Task Group

- Mariana Goldhamer, Chair
- Barry Lewis, Vice Chair

PAR P802.16h approved in Dec 2004

 Amendment on Improved Coexistence
 Mechanisms for License-Exempt Operation

 Input in response to Call for Contributions

Multihop Relay Ad Hoc

Mitsuo Nohara, Chair

 Expect to propose formation of a Working Group Study Group this week

802.16 Officers

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

Resources

Iocal server:

– http://mercury.WirelessMAN.org [10.0.1.16]

permanently: http://WirelessMAN.org





IEEE 802.17 Resilient Packet Ring

Session # 29

Monday Plenary Start Time

1:30 pm

7/12/2004

IEEE 802.17 RPRWG

Mike Takefman



Officers of RPRWG

OPEN



- Chair Mike Takefman
- Vice-Chair / Maintenance Chair John Lemon
- Secretary
- 802.17b Editor Marc Holness



Past Interims



- April 21, 2005
 - teleconference
- May 17-19, 2005
 - Piscataway, Ottawa
- June 21, 2005
 - teleconference



Work This Week



- 802.17b Spatially Aware Sublayer
 - Comments on preliminary draft
 - Closure on remaining technical issues
- Maintenance / Interpretation Task Force
 - 802.17 Base Standard
- IETF Liaison
 - Review of draft from IPORPR WG





802.17 Meeting Schedule

	Mon	Tues	Wed	Thurs
8:00- 10:00		802.17b	802.17b	IPORPR
10:00- 12:00			802.17 Maintenance	Plenary
13:00- 16:00	Plenary Start 1:30pm	802.17b	802.17b	Plenary
16:00- 18:00	802.17 Maintenance	802.17 Maintenance		





Proposed Interim Sessions

- August
 - 802.17b Conference Call
- September
 - 802.17b Meeting
 - Location Herndon, Virginia
- October
 - 802.17b Conference Call

802.18 RR-TAG Opening Report

- Report on May 05 Interim Meeting
- Objectives for this Meeting

Report on May 05 Interim Meeting

• Met with 802.15 CBP SG

– Reviewed/discussed FCC 3650 MHz R&O

• Reviewed NZ UWB consultation

– No written comments needed

- NZ regulator gave overview of their process
- Prepared revision of 802.18 P&P

Planned Objectives for This Meeting

- Joint session with 802.22
- Joint session with 802.11 CBP SG
- Joint session with 802.15 SG 3c
- Further review of FCC 3650 MHz R&O
- Review new Canadian consultations
- FCC 2 GHz spectrum comments
- Complete revision of 802.18 P&P

Please consider (active) participation in 802.18!

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

July 2005 Opening Report

Date: 2005-07-18

Authors:

Name	Company	Address	Phone	E-mail
Steve Shellhammer	Qualcomm	5775 Morehouse Dr San Diego, CA 92121	(858) 658-1874	Shellhammer@ieee.org

Notice: This document has been prepared to assist IEEE 802.19. It is offered as a basis for discussion and is not binding on the contributing individual(s) or organization(s). The material in this document is subject to change in form and content after further study. The contributor(s) reserve(s) the right to add, amend or withdraw material contained herein.

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TAG Officers

Office	Officer
Chair	Steve Shellhammer
Vice Chair	Tom Siep
Secretary	Steve Whitesell
Editor	David Cypher
802.11 Liaison	Sheung Li
802.15 Liaison	Tom Siep

Plan for the Week

- Final review of comments on recirculation of changes to 802.19 P&P
- Discussion of 802.11 Contention-based protocol PAR
- Presentation on relevant aspects of various standards/specifications affecting coexistence
 - IEEE 802.15.1
 - Cordless telephones operating in unlicensed bands
 - IEEE 802.16
- Meeting with 802.15.4b to discuss CA document

Meeting Times This Week

• Tuesday

➤ 8:00 AM - 10:00 AM

• Wednesday

- ➤ 8:00 AM 10:00 AM
- ➤ 1:30 PM 6:00 PM

July 2005

IEEE SA Patent Policy

6. Patents

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

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

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

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

802 Opening July 2005 Plenary

802.20 Session #15

Jerry Upton- Chair

jerry.upton@ieee.org Gang Wu – Procedural Vice Chair Eshwar Pittampalli – Liaison Vice Chair Rao Yallapragada – Recording Secretary

Logistics

- No Electronic sign-in - Manual Sign In Books
- 802.20 has 14 meeting slots you need to participate in 11 meeting slots to get participation credit.
- Attendees shall state their Affiliation in the manual sign in book per Appendix B of the 802.0 Version 1.0 Policies & Procedures (802.20 PD-05). This is a requirement for obtaining a voting token.
- 802.20 and 802.21 Grant Reciprocal Maintenance Attendance Credit in addition to .18 & .19, please state your home group when signing in

Meeting Room - -Pacific Concourse West F&G

Objectives for the Session

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

Proposed High Level Agenda – July 2005 Plenary, 802.20 Session #15 Hyatt Regency Embarcadero Center, San Francisco

Monday, July 18, 2005 11:00AM – 12:30PM			
IEEE 802 Opening Plenary			
Monday, July 18, 2005 12:30PM - 1:30PM			
Lunch, no Joint Wireless Opening			
Monday, July 18, 2005 1:30PM – 5:30PM Pacific Concourse	e West F&G (Break 3:3	0 – 4:00PM)	
Opening Session of 802.20 - IEEE IPR rules and meeting conduct - Logistics for the session - Review of Proposed 802.20 Agenda - Approval of Agenda including modifications - Review and approve Mar. & May Minutes - Review Other WGs and 802 Activities - Update on 802.18 Activities	1:30-3:30pm		
Status Reports and Closure Process - Channel Models Evaluation Criteria & Traffic Models - Evaluation Criteria & Traffic Models	4:00-5:30pm		
Monday, July 18, 2005 7:00PM - 9:00PM 802 Tutorials			
Tuesday, July 19, 2005 8:00AM - 12:00PM Pacific Concourse West F&G (Break 10:00 – 10:30AM)			
Channel Models Contributions -PAS Model for Channel Models (R.Canchi) -Generation of Spatial Correlation Coefficients (R.Canch -Text for Correlation Matrix section (David Huo) - Channel Modeling (Ayman Naguib) Channel Models Review & Voting	8:00am- 8:45am i) 8:45am-9:15am 9:15am-10:00an 10:30am-11:00a 11:00am-12:00p	C802.20-05/38 n C802.20-05/42 m C802.20-05/32r1	
Tuesday, July 19, 2005 1:00PM – 5:30PM Pacific Concourse West F&G (Break 3:00 – 3:30PM)			
Channel Models Review & Voting			
Tuesday, July 19, 2005 7:30PM - 9:00PM 802 Tutorials			

Chair, IEEE 802.20

Wednesday, July 20, 2005 8:00AM - 12:00PM Pacific Concourse West F&G (Break 10:00 – 10:30AM)

Evaluation Criteria & Traffic Models Contributions -VoIP Evaluation(R.Canchi) -Text for VoIP Model (David Huo) -Mobility Modeling Action Items (Rajat Prakash) -Text for System Level Simulator Calibration (David Huo) -Text for Link-System Interface (David Huo)	8:00am- 8:30am 8:30am-9:15am 9:15am-10:00am 10:30am-11:15am 11:15am-12:00pm	C802.20-05/36 C802.20-05/43 C802.20-05/39 C802.20-05/44 C802.20-05/45	
Wednesday, July 20, 2005 1:00PM - 5:30PM (Break 3:00 – 3:	30PM) 802 Social in the	evening	
Evaluation Criteria & Traffic Models Contributions - Evaluation Criteria Items (Jim Tomcik) Evaluation Criteria & Traffic Models Review & Voting	1:00pm-1:45pm 1:45pm-5:00pm	C802.20-05/40	
Thursday, July 21, 2005 8:00AM - 12:00PM Pacific Concourse West F&G (Break 10:00 – 10:30AM)			
 Technology Selection Process Contributions -Technology Description Template (Jim Ragsdale) - MAC/PHY Specific Requirements (Dan Gal) - Compliance Table for TSP (Dan Gal) - Technology Selection Process Proposal (Dan Gal) - Technology Selection Process Doc. Update (Mark Klerer) 	8:00am- 9:00am 9:00am-9:30am 9:30am-10:00am 10:30am-11:15am 11:15am-12:00pm	C802.20-05/35 C802.20-05/26r1 C802.20-05/41 C802.20-05/72r5 C802.20-05/46	
Thursday, July 21, 2005 1:00PM - 5:00PM Pacific Concourse West F&G (Break 3:00 – 3:30PM)			
Review and Voting of Documents, as necessary New Business Next Meeting Planning Close and Adjourn	1:00pm- 3:00pm 3:30pm- 4:00pm 4:00pm- 4:45pm 4:45pm – 5:00pm		





Joint Opening Plenary

IEEE 802.21 Session #9 Media Independent Handover Services San Francisco, CA

Ajay Rajkumar ajayrajkumar@lucent.com

Ajay Rajkumar, Chair 802.21 WG





IEEE 802.21 Meeting Server Details

Handover Server IP address: 10.0.1.21 Host Name : handover

External website: <u>http://www.ieee802.org/21</u> On site meeting website: <u>http://10.0.1.21</u> On site alternate website name: <u>http://handover/</u>

On site web portal: http://ieee802.facetofaceevents.com/plenary/attendee





Meeting Logistics

- No electronic attendance again
 - Manual attendance with signup sheets circulated during meetings
- Voting Members have 802.21 indication on their badges
 - For any VM badge problems, please send email to Michael Williams, Vice-Chair with a copy of the email to the Chair





Session Time and Location

- Location: Hyatt Regency, San Francisco, CA
 - Garden A and B
- Time:
 - Monday:
 - Afternoon: 1.30 pm 6.00 pm (2 meeting slots)
 - Tuesday to Thursday:
 - Morning: 8.00 am 12.00 pm (2 meeting slots/morning)
 - Afternoon: 1.00 pm 6.00 pm (2 meeting slots/evening)
- Total of 14 meeting slots
 - To get attendance credit towards voting membership for this Plenary, one would require 75% attendance in 11 meeting slots





802.21 WG Charter

 IEEE 802.21 is developing standards to enable handover and interoperability between heterogeneous network types including both 802 and non 802 networks



Summary Of Completed Work

- Requirements completed
- Call for Proposals
- Contribution accepted and evaluated by the WG
- A single harmonized draft proposal accepted by the WG to be the baseline draft
- Draft Specification version P802-21-D00.01 confirmed by a WG vote of 25-1-1





Work In Progress

- Currently contributions are being accepted to identify
 - Editorial shortcomings
 - Technical gaps in the baseline draft

Agenda Summary - Session #9

- Review the first draft specifications for Media Independent Handover Services – P802-21-D00-01.pdf
- Start discussion on comment resolution based on various contributions
 - Editorial
 - Technical
- Discussion on L2 vs. L3 Transport for MIH Services
- Discussion on security issues across technologies
- Liaison Update
 - Discussion on L3 Transport mechanism for MIH Services within IETF
 - Update from 802.11u
 - Update on 802 Architecture discussion





Future Sessions

- Interim: September 18th 23rd, Hyatt Regency
 - Orange County, CA, USA. Meeting co-located with 802.11/15/18/19/20/22
- Plenary: November 13th 18th, Hyatt Regency
 - Vancouver, BC, Canada. Co-located with all 802 groups
- Interim: January 15th 20th, Hilton Waikoloa Village
 - Big Island, HI USA. Meeting co-located with 802.11/15/18/19/20/22
- Plenary: July 12th 17th, Hyatt Regency
 - New Orleans, LA, USA. Co-located with all 802 groups

IEEE 802.22 WG Status Report – July 2005

IEEE P802.22 Wireless RANs

Date: 2005-07-18

Authors:

Name	Company	Address	Phone	email
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Notice: This document has been prepared to assist IEEE 802.22. It is offered as a basis for discussion and is not binding on the contributing individual(s) or organization(s). The material in this document is subject to change in form and content after further study. The contributor(s) reserve(s) the right to add, amend or withdraw material contained herein.

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>

IEEE 802.22 WG Status Report – July 2005

• 802.22's goals this session

- Finalize and approve Functional Requirements Document
- Consider formation of a study group on means to improve sensing and protection of licensed Part 74 devices (wireless microphones)
- Discuss the proposal phase
 - Goal is to issue a call for proposals, with 1st proposals due in September, final proposals due in November

• 802.22's progress/work since May 2005 interim

- Held weekly ad hoc teleconference meetings to progress the work on the functional requirements doc in preparation for this session
- Held ad hoc teleconference meetings on proposed FCC status update presentation and channel models

Tutorial Schedule

Monday	Tuesday
1) Secure Device ID (Jeffree) 6:00-7:30PM	4) Reducing Energy Consumption (Grow)
	6:30-8:00PM
2) Update on Bridging (Jeffree) 7:30-9:00PM	5) EMS Panel on the IEEE 802 Standards Process (Thaler) 8:00-9:30PM
3) Cognitive Radios (Kerry) 9:00-10:30PM	
	Anti-Trust Concerns Panel Discussion (Nikolich) 5:00-6:00PM
	38

Pat Thaler announced what would be happening at the EMS Tutorial on standardization process.

6.01 PL IEEE 802 PLENARY MEETING ENDS

5 The meeting was adjourned at 12:22pm

Respectfully submitted, Bob O'Hara Recording Secretary