

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

Thursday, March 9, 2000 - 7:00 p.m.

Hyatt Regency, Albuquerque, NM

5 1. MEETING CALLED TO ORDER

Jim Carlo called the meeting to order at 7:00 pm. Members in attendance were:

	Jim Carlo	- Chair, IEEE 802 LAN / MAN Standards Committee
	Paul Nikolich	- Vice Chair, IEEE 802 LAN / MAN Standards Committee
10	Buzz Rigsbee	- Executive Secretary, IEEE 802 LAN / MAN Standards Committee
	Howard Frazier	- Recording Secretary, IEEE 802 LAN / MAN Standards Committee
	Robert Grow	- Treasurer, IEEE 802 LAN/MAN Standards Committee
	Bill Lidinsky	- Chair, IEEE 802.1 - HILI Working Group
	Pat Thaler	- Chair, IEEE 802.12 - DPAM Working Group
15	Geoff Thompson	- Chair, IEEE 802.3 - CSMA/CD Working Group
	Bob Love	- Chair, IEEE 802.5 - Token Ring Working Group
	Robert Russell	- Chair, IEEE 802.14 – CATV LAN Working Group
	Vic Hayes	- Chair, IEEE 802.11 - Wireless LANs Working Group
	Bob Heile	- Chair, IEEE 802.15 – Wireless PAN Working Group
20	Roger Marks	- Chair, IEEE 802.16 – Broadband Wireless Access Working Group

The meeting was attended by approximately 26 IEEE 802 Working Group members.

2. APPROVE OR MODIFY AGENDA

DRAFT AGENDA - IEEE 802 LMSC EXECUTIVE COMMITTEE MEETING
Thursday, March 9, 2000 - 7:00 pm
Hyatt Regency Albuquerque

1.00	MEETING CALLED TO ORDER	- Carlo	1	07:00 PM
2.00	APPROVE OR MODIFY AGENDA	- Carlo	4	07:01 PM
3.00	TREASURER'S REPORT	- Grow	5	07:05 PM
	Category (* = consent agenda)			
4.00	ME* Withdrawal of 802.5z PAR (Link Aggregation)	- Love	5	07:10 PM
4.01	ME* Conditional forwarding of 802.5v (Gigabit TR) to RevCom	- Love	1	07:15 PM
4.02	ME* Withdrawal of 802.5x PAR (Source Route Forwarding Rules)	- Love	1	07:16 PM
4.03	ME 802.1X Port Based Network Access PAR revision to NesCom	- Lidinsky	1	07:17 PM
4.04	ME Liaison to SC6 to recover maintenance of documents	- Lidinsky	5	07:18 PM
4.05	ME Endorsement of Jim Carlo for IEEE Fellow	- Nikolich	5	07:23 PM
4.06	ME* 802.3ad Link Aggregation to RevCom	- Thompson	1	07:28 PM
4.07	ME Liaison letter from 802.3 to TIA TR-41	- Thompson	1	07:29 PM
4.08	ME Liaison letter from 802.3 to ANSI T1X1.5	- Thompson	1	07:30 PM
4.09	ME Withdrawal of 802.8 PAR	- Frazier	5	07:31 PM
4.10	ME 802.11e MAC Enhancements PAR to NesCom	- Hayes	5	07:36 PM
4.11	ME 802.11f IAPP Recommended Practice PAR to NesCom	- Hayes	5	07:41 PM
4.12	ME 802.11b-cor1 Corrigenda PAR revision to NesCom	- Hayes	5	07:46 PM
4.13	ME Conditional approval of 802.11b-cor1 to Sponsor Ballot	- Hayes	5	07:51 PM

4.14	ME	Fast track 8802.11 5 GHz PHY DAM	-	Hayes	5	07:56 PM
4.15	ME	Withdrawal of 802.14 and 802.14a PARs	-	Russell	5	08:01 PM
4.16	ME	802.15.3 High Rate PAR to NesCom	-	Heile	10	08:06 PM
4.17	ME*	802.15 Press Releases	-	Heile	1	08:16 PM
4.18	ME	802.16.3 BBWA Below 11 GHz PAR to NesCom	-	Marks	10	08:17 PM
4.19	MI	Election of LMSC Chair	-	Nikolich	3	08:27 PM
4.20	MI	Election of WG Chairs and SEC Officers	-	Carlo	5	08:30 PM
4.21	MI	Elimination of Closing Plenary Meeting	-	Frazier	5	08:35 PM
4.22	MI	Meeting Fees	-	Grow	10	08:40 PM
4.23	MI	Rules Change, Try 7	-	Lidinsky	10	08:50 PM
		Break			15	09:00 PM
4.24	MI	Resilient Packet Ring Study Group Formation	-	Frazier	10	09:15 PM
4.25	MI	802.11 PHY Study Group Formation	-	Hayes	10	09:25 PM
4.26	MI	802.16 High Speed Unlicensed MAN Study Group Formation	-	Marks	10	09:35 PM
4.27	MI	Disband 802.14 Working Group	-	Russell	5	09:45 PM
4.28	II	Sponsor Recirculation of 802 Overview and Architecture	-	Lidinsky	5	09:50 PM
4.29	II	1802-3rev to 802.3 WG Ballot	-	Thompson	1	09:55 PM
4.30	DT	EUI-64 meeting	-	Carlo	5	09:56 PM
4.31	DT	Network for the SEC/802	-	Kerry	10	10:01 PM
4.32	DT	Future Meeting Venues	-	Rigsbee	10	10:11 PM

Nikolich requests to remove items 4.07 and 4.08 from consent agenda

Motion to Approve Agenda as modified, including consent agenda

M: Bob Love

5 **S: Lidinsky**

Approved 10/0/0 7:09 pm

3.00 Treasurer's Report – Bob Grow

Attendance 598. Large increase in operating reserve of 31,620. Projecting a decrease in attendance over the next few meetings.

IEEE Project 802
Estimated Statement of Operations
March 2000 Meeting

open	25 February Operating Reserve	46,700	
March 2000 Meeting Income:		Actual	Budget
	244 Registrations@ \$300	73,200	
	354 Registrations@ \$250	88,500	
	0 Registrations@ \$100	0	
	Subtotal	161,700	125,875
	Deadbeat Registrations	0	
	Bank Interest	200	
	Other	450	
plus	TOTAL Income	162,350	125,875
March 2000 Meeting Expenses:		Estimate	Budget
	Audio Visual Rentals	6,000	5,000
	Bank Charges	25	25
	Copying	7,200	6,650
	Credit Card Discounts	4,705	3,525 *
	International Program Fee	22,200	22,200 *
	Meeting Administration	36,200	34,625 *
	Phone & Electrical	1,500	800
	Refreshments	25,000	11,875
	Shipping	3,000	3,000
	Social	18,600	15,000
	Supplies		200
	Other	500	2,100
minus	TOTAL Meeting Expense	124,930	105,000
minus	Equipment Expense	5,800	5,000
equals	Mar 2000 Operating Reserve	78,320	
	Net Change in Operating Reserve	31,620	20,876

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

Projection With No Fee Change

	1999			2000			2001		
	Austin Actual	Montreal Actual	Kauai Actual	Albq. Estimate	LaJolla Budget	Tampa Budget	Hilton Head Budget	Portland Budget	Austin Budget
	March	July	Nov	March	July	Nov	March	July	Nov
Meeting Income:									
Registrations	415	469	474	598	500	475	425	400	375
Preregistration fee	275	250	250	250	250	250	250	250	250
On-site registration fee	300	300	300	300	300	300	300	300	300
Average Fee	286	266	266	270	267	267	267	267	267
<i>Subtotal</i>	118,800	124,650	126,150	161,700	133,333	126,667	113,333	106,667	100,000
Bank Interest	263	202	213	200	200	200	150	150	150
Other			475	450	400	400	400	375	375
TOTAL Income	119,063	124,852	126,838	162,350	133,933	127,267	113,883	107,192	100,525
Meeting Expenses:	<i>March</i>	<i>July</i>	<i>Nov</i>	<i>March</i>	<i>July</i>	<i>Nov</i>	<i>March</i>	<i>July</i>	<i>Nov</i>
Audio Visual Rentals	4,208	5,911	6,863	6,000	5,000	5,000	5,000	5,000	5,000
Bank Charges	1	133	1	25	25	25	30	30	30
Copying	4,819	2,384	4,818	7,200	7,500	6,175	5,100	4,800	4,500
Credit Card Discounts	3,383	3,245	3,364	4,705	3,733	3,547	3,173	2,987	2,800
IPF/Escrow	37,400	42,000	22,200	22,200	22,200	0	0	0	0
Meeting Planners	36,302	32,999	36,547	36,200	35,700	34,625	32,675	31,600	30,525
Phone & Electrical	822	618	986	1,500	800	800	900	900	900
Refreshments	15,814	9,988	25,626	25,000	18,000	15,675	13,600	12,800	12,000
Shipping	2,248	1,855	4,025	3,000	3,000	3,000	3,000	3,000	3,000
Social	9,596	7,125	23,411	18,600	12,000	10,925	8,500	8,000	7,500
Supplies	0	0	5		0	0	0	0	0
Other	1,100	70	2,806	500		1,500	2,000		1,500
Meeting Equipment	4,924	20,150	22,482		5,000	5,000	5,000	5,000	5,000
TOTAL Meeting Expense	120,617	126,479	153,134	124,930	112,958	86,272	78,978	74,117	72,755
NET to Operating Reserve	(1,554)	(1,627)	(26,296)	37,420	20,975	40,995	34,905	33,075	27,770
Projected Opening Reserve	49,480	47,963	66,296	40,000	77,420	98,395	139,390	174,295	207,370
Projected Closing Reserve	47,926	46,336	40,000	77,420	98,395	139,390	174,295	207,370	235,140
Projected Closing Cash	36,726	35,136	28,800	66,220	87,195	128,190	163,095	196,170	223,940

Projection With (\$100) Fee Change

	1999			2000			2001		
	Austin <i>Actual</i> March	Montreal <i>Actual</i> July	Kauai <i>Actual</i> Nov	Albq. <i>Estimate</i> March	LaJolla <i>Budget</i> July	Tampa <i>Budget</i> Nov	Hilton Head <i>Budget</i> March	Portland <i>Budget</i> July	Austin <i>Budget</i> Nov
Meeting Income:									
Registrations	415	469	474	598	500	475	425	400	375
Preregistration fee	275	250	250	250	250	150	150	150	150
On-site registration fee	300	300	300	300	300	200	200	200	200
Average Fee	286	266	266	270	267	167	167	167	167
Subtotal	118,800	124,650	126,150	161,700	133,333	79,167	70,833	66,667	62,500
Bank Interest	263	202	213	200	200	200	150	150	150
Other			475	450	400	400	400	375	375
TOTAL Income	119,063	124,852	126,838	162,350	133,933	79,767	71,383	67,192	63,025
Meeting Expenses:	March	July	Nov	March	July	Nov	March	July	Nov
Audio Visual Rentals	4,208	5,911	6,863	6,000	5,000	5,000	5,000	5,000	5,000
Bank Charges	1	133	1	25	25	25	30	30	30
Copying	4,819	2,384	4,818	7,200	7,500	6,175	5,100	4,800	4,500
Credit Card Discounts	3,383	3,245	3,364	4,705	3,733	2,217	1,983	1,867	1,750
IPF/Escrow	37,400	42,000	22,200	22,200	22,200	0	0	0	0
Meeting Planners	36,302	32,999	36,547	36,200	35,700	34,625	32,675	31,600	30,525
Phone & Electrical	822	618	986	1,500	800	800	900	900	900
Refreshments	15,814	9,988	25,626	25,000	18,000	15,675	13,600	12,800	12,000
Shipping	2,248	1,855	4,025	3,000	3,000	3,000	3,000	3,000	3,000
Social	9,596	7,125	23,411	18,600	12,000	10,925	8,500	8,000	7,500
Supplies	0	0	5		0	0	0	0	0
Other	1,100	70	2,806	500		1,500	2,000		1,500
Meeting Equipment	4,924	20,150	22,482		5,000	5,000	5,000	5,000	5,000
TOTAL Meeting Expense	120,617	126,479	153,134	124,930	112,958	84,942	77,788	72,997	71,705
NET to Operating Reserve	(1,554)	(1,627)	(26,296)	37,420	20,975	(5,175)	(6,405)	(5,805)	(8,680)
Projected Opening Reserve	49,480	47,963	66,296	40,000	77,420	98,395	93,220	86,815	81,010
Projected Closing Reserve	47,926	46,336	40,000	77,420	98,395	93,220	86,815	81,010	72,330
Projected Closing Cash	36,726	35,136	28,800	66,220	87,195	82,020	75,615	69,810	61,130

Please submit updates to Paul Nikolich by Thursday afternoon

PROJECT	TITLE	PG COUNT	Mar-99	APR-99	MAY-99	JUN-99	Jul-99	AUG-99	SEP-99	OCT-99	Nov-99	DEC-99	JAN-00	FEB-00	Mar-00	APR-00	MAY-00	JUN-00	Jul-00	AUG-00	SEP-00	OCT-00	Nov-00	DEC-00	JAN-01	FEB-01	Mar-01	APR-01	MAY-01	JUN-01
802	OPERATING RULES	REVISED 7/95									REVISED																			
802	FUNC. RQMTS. DOC.	REVISED 11/91																												
802.1	BILL LIDINSKY, CHAIR														F															
	O & A REVISION	34														A						I								
	R GPRP		W				S				X																			
	S MULT. SPAN. TREE						W												S			F		A					I	
	T D MAINT.																		S			F		A					I	
	U Q MAINT.																		S			F		A					I	
	V VLAN CLASS PROT AND PORT		P									W							S			F		A					I	
	W RAPID RECONFIG.		P												W				S			F		A					I	
	X PORTBASED NET. ACCESS														P						W						S			
802.3	GEOFF THOMPSON, CHAIR														F															
	AD LINK AGGR						W				S					A	I													
	AE 10GBPS ENET		SG					SG			P				W							F		A					I	
	AF DTE POWER SG		CFI					SG			P											F		A					I	A
	1G CAT 6 SG							CFI			SG				SG							P								
	2.5G CAT 6							CFI																						
	10,000 BASE-CX							CFI																						
	AG 1802.3 MAINT										P				W							S		F		A			I	
802.5	BOB LOVE, CHAIR														F															
	V 1000M TR	100	W								S																			
	W MAINT		S								F																			
	X 802.1Q SRCROUT		W												X															
	Z LINK AGGR. STUDY GROUP		W												X															
	ENHANCED SR STUDY GROUP		P				X																							
	REVISION						X																							
802.8	CHIP BENSON, CHAIR														X															
	REC. PRACT.	23																												
802.11	VIC HAYES, CHAIR																													
	A 20MBPS 5 GHZ PHY		S				F				A																			
	B 5-11 MBPS 2.4 GHZ PHY		S				F				A																			
	E ENHANCEMENT SG																													
	F INTER-ACCESS POINT PROTOCOL																													
	B CORR CORRIGENDA																													
	D REGULATORY DOMAIN						P?				W																			
802.14	ROBERT RUSSELL, CHAIR														D															
	BASE STD	300													X															
	A HI_PHY														X															
802.15	BOB HEILE, CHAIR																													
	BASE STD																													
	COEXISTENCE STUDY GROUP																													
15.3	HIGH RATE (20M) STUDY GROUP																													
802.16	ROGER MARKS, CHAIR																													
16.1	AIR INTF. FOR FIXED BWA		P																											
16.2	COEXISTENCE						P								W															
16.3	2-11 GHZ LIC.																													
	UNLIC. SG																													
	CFI SPATIAL REUSE PROTOCOL																													
SEC		CURRENT OCCUPANTS																												
802	CHAIR	JIM CARLO																												
802	VICE CHAIR	PAUL NIKOLICH																												
802	EXEC. SECY.	BUZZ RIGSBEE																												
802	RECORDING SECY	HOWARD FRAZIER																												
802	TREASURER	BOB GROW																												

C=CHARTER WG BY EXEC
 P=EXEC APP. OF PAR
 W=APP. FOR WG BALLOT
 S=EXEC APP. FOR SPONSOR BALLOT

R=SPONSOR BALLOT RECIRC
 F=EXEC FWD TO STDS BD
 A=STDS BOARD APP.
 I=PUB. ISSUED

H= HIBERNATE
 X= WITHDRAWN
 T= TUTORIAL
 SG=STUDY GROUP
 D= DISBAND

4.00 ME Withdrawal of 802.5z PAR (Link Aggregation)

Approved as part of the consent agenda

4.01 ME Conditional forwarding of 802.5v (Gigabit TR) to RevCom

5 **Approved** as part of the consent agenda

4.02 Withdrawal of 802.5x PAR (Source Route Forwarding Rules)

Approved as part of the consent agenda

4.03 802.1X Port Based Network Access PAR to NesCom – Bill Lidinsky

PAR was never previously submitted to NesCom. PAR has been revised from that previously approved by SEC to reflect that it

10 Is a standalone document, not a supplement. WG unanimously approved.

Motion to Approve 802.1X PAR and submit to Nescom

M: Lidinsky

S: Thompson

Approved 10/0/0

15 **4.04 Liaison to SC6 to recover maintenance of documents – Bill Lidinsky**

Drag 15802-1, 11802-1, 11802-2 back from ISO/IEC to put maintenance control in the hands of 802.1.

Thompson asks if LAN Architecture document from SC6 should also be included in this list.

Lidinsky replies that 802.0 is our own version of the SC6 document. The listed documents are a central part of the work of 802, whereas SC6's architecture document is not.

20 Motion to approve liaison letter in principle, but consider the impact of the SC6 architecture document.

M: Lidinsky

S: Hayes

Approved 10/0/0

4.05 Endorsement of Jim Carlo for IEEE Fellow – Paul Nikolich

25 Copy of letter was distributed to SEC.

Motion approve sending of endorsement letter for J. Carlo's nomination to IEEE Fellow.

M: Nikolich

S: Lidinsky

Approved 10/0/0

Title: Liaison to ISO/IEC JTC 1 SC6 WG1 with respect to ISO/IEC 15802-1, ISO/IEC TR 11802-1 and ISO/IEC TR 11802-2

Source: IEEE 802.1

Date: 9 March 2000

The IEEE 802 is aware that the following documents,

- ISO/IEC 15802-1 (LAN MAC Service Definition)
- ISO/IEC TR 11802-1 (LLC Addresses)
- ISO/IEC TR 11802-2 (Standard group MAC addresses)

contain information of essential importance to the work of the IEEE 802, and currently form a part of the Program of Work of SC6 WG1.

The IEEE 802 believe that a more effective and efficient means of working would be for the IEEE 802 to take responsibility for these areas of work and, accordingly, propose their transfer from the SC6 WG1 Program of Work to that of the Interworking Task Group of the IEEE 802.1.

The Interworking Task Group of the IEEE 802.1 does not envisage any immediate further development of the LAN MAC Service Definition, but would welcome input from SC6 should any issues arise with respect to this area of work.

The IEEE already has in place the means of administration and management of well known addresses and the IEEE 802 believe that the information contained in both Technical Reports shown above would fit naturally into this structure.

The IEEE 802 view this request as a tangible benefit of the new liaison relationship between the two organisations and look forward to a positive response from SC6 on this matter.

MOTION:

802.1 resolves to forward the above letter to SC6 via Robin Tasker.

802.1

Moved: Keen

Second: Chambers

For: 17

Against: 0

Abs: 1

SEC

Approve the above letter in principle. Also consider the architecture document.

Moved: Lidinsky

Second: Hayes

For: 10

Against: 0

Abs: 0

4.06 802.3ad Link Aggregation to RevCom – Geoff Thompson

Approved as part of the consent agenda

4.07 Liaison letter from 802.3 to TIA TR-41 – Geoff Thompson

5 This pertains to the TIA TR41.5 project to develop a twisted pair standard for gigabit ethernet. They sent us a liaison letter asking about AutoNegotiation selector field assignment. They made an assignment, which is wrong. Letter says that we won't process their request for a selector field assignment until their document gets past working group ballot.

Carlo asks whether this field should be administered by the RAC. Frazier answers that this is a pretty arcane area which should be in the control of the body of experts, namely 802.3. Carlo asks how assignments are administered, Thompson says via 802.3 web page.

10 **Motion to Approve Liaison Letter**

M: Thompson

S: Grow

Approved 10/0/0

4.08 Liaison letter from 802.3 to ANSI T1X1.5 – Geoff Thompson

15 Geoff presents liaison letter to T1X1.5. Letter essentially says that we are studying the subject and will keep T1X1.5 of our progress.

Motion to approve liaison letter.

M: Thompson

S: Grow

20 **Approved 10/0/0**

4.09 Withdrawal of 802.8 PAR – Howard Frazier

Motion to Withdraw PAR for 802.8, unless 802.8 is submitted to RevCom before this withdrawal request gets to NesCom.

Chip Benson has been notified of this action. 802.8 will be disbanded in July.

M: Frazier

25 S: Nikolich

Approved 10/0/0.

4.10 802.11e MAC Enhancements PAR to NesCom – Vic Hayes

WG approved 18/5/6. PAR was circulated in advance of 30 day deadline. Comments received from 802.16, two comments accepted, on rejected because it conflicted with the rules.

30 **Motion to approve PAR and submit to NesCom for March 2000 meeting.**

M: Hayes

S: Marks

Approved 10/0/0.

4.11 802.11f IAPP Recommended Practice PAR to NesCom – Vic Hayes

Carlo asks if NesCom has the correct PAR. Hayes says they do.

Motion to approve PAR and submit to NesCom for March 2000 meeting.

5 M: Hayes

S: Lidinsky

Approved 10/0/0

4.12 802.11b-cor1 Corrigenda PAR revision to NesCom – Vic Hayes

PAR is being revised to include PICs in scope of Corrigenda PAR.

10 Thompson/Thaler/Love/Carlo state that a PICs change is editorial.

Carlo asks if RevCom would care. Frazier/Thaler expressed view that RevCom would not.

Thompson concerned about precedent. Doesn't want to require PICS changes to need a PAR.

Could be handled with an erratta.

Kerry suggested that PAR revision be withdrawn, with notification of erratta via web and email.

15 Hayes withdraws motion.

4.13 802.11b-cor1 to Sponsor Ballot – Vic Hayes

Motion to submit 802.11b-cor1 to LMSC Sponsor Ballot

WG vote was 25/0/0

M: Hayes

20 S: Marks

Approved 9/0/1

4.14 Fast Track 8802.11 5 GHz PHY DAM – Vic Hayes

Moved that Jim Carlo advise the US Member body to vote "Approve with Comments" the comment being that the object of the ballot ought to be replaced by the published standard 802.11a-1999,

25 M: Hayes

S: Rigsbee

Approve 11/0/0

4.15 Withdrawal of 802.14 and 801.4a PARs – Russell

Move to withdraw the 802.14a PAR.

M: Russell

S: Nikolich

WG vote was 42/0/0

Approved 11/0/0

5 **Move to withdraw the 802.14 PAR**

M: Russell

S: Nikolich

WG vote was 48/0/0.

Approved 11/0/0

10 **4.16 802.15.3 High Rate PAR to NesCom – Heile**

Move that the SEC forward the 802.15 High Rate PAR, Document 99/165r6, to March Meeting of NesCom for Approval.

M: Heile

S: Hayes

15 Thompson notes for the record that this establishes a precedent which is contrary to previous practice, which that we are allowing a WG to develop a new MAC without requiring them to spin off into another Working Group.

Russell asks how that is different from Gigabit Ethernet in 802.3?

Thompson states that 802.3 has a single MAC. 802.15 appears to be seeking the freedom to start with a clean sheet of paper in 802.15.3.

Grow says that without a restriction to stay with an existing MAC, the scope of future work is unbounded.

20 **Approved 6/0/4**

Carlo asks Alan Chambers to review 802.0 language regarding multiple MACs within a WG.

4.18 802.16.3 BBWA below 11 GHz PAR to NesCom – Marks

WG vote was 37-0-1. Comments were received from dot11 and dot15, which were resolved to their satisfaction.

25 Motion to approve Proposed PAR for Broadband wireless Access systems in Licensed Bands from 2 to 11 GHz (Document IEEE 802.16.3-00/00)

Hayes asks what is the difference between doc 00 and doc 10? Marks states that they are identical. No unlicensed spectrum of any kind.

M: Marks

S: Nikolich

30 **4.19 Election of LMSC Chair – Paul Nikolich**

No new nominees have come forward.

Move to re-elect Jim Carlo as LMSC SEC Chair

M: Nikolich

S: Hayes

10/0/0

5 **Approved 8/0/2**

4.20 Election of WG chairs and SEC Officers – Jim Carlo

Move to affirm the following SEC Officers appointed by the chair (Mar00 – Mar02)

Paul Nikolich – Vice Chair, Buzz Rigsbee – Executive Secretary, Howard Frazier - Recording Secretary, Bob Grow – Treasurer, Vic Hayes – Ex-Officio voting member (Regulatory Ombudsman).

10 M: Heile

S: Lidinsky

Approved 6/0/5

Motion to approve the slate of chairs and vice chairs

15 802.1 Tony Jeffree – Chair, Neil Jarvis – Vice Chair

802.3 Geoff Thompson – Chair, David Law – Vice Chair

802.5 Bob Love – Chair

802.11 Stuart Kerry – Chair, Al Petrick - Vice Chair, Harry Worstell – Vice Chair

802.15 Bob Heile – Chair, Ian Gifford – Vice Chair

20 802.16 Roger Marks – Chair, Louis Olsen – Vice Chair

M: Frazier

S: Rigsbee

Approve 11/0/0

4.21 Elimination of Closing Plenary Meeting – Frazier

25 **Motion to kill plenary passed 11//0/0**

Item_4_21

SEC Motion

Pending approval of the rules change ballot, conditionally eliminate the Friday morning closing plenary meeting, and disseminate the reports and announcements that are normally distributed at the meeting via the ieee802.org web page. Reports are to be provided to the LMSC Recording Secretary in the form of PDF files no later than 8:00 am on the Friday morning of 802 Plenary Sessions. This change will take effect at the July 2000 meeting.

Conduct a Rules Change ballot on the proposed "Rules Extracts related to change of closing plenary and executive meeting" drafted by Bob Grow dated 8 March 2000.

M: Frazier

S: Grow

Y: 11 N: 0 A: 0

Motion to move SEC meeting failed 5/5/0

Item_4_21

SEC Motion

Move the SEC meeting from Thursday evening to Friday morning, 8:00 am to noon. This change will take effect at the July 2000 meeting.

M: Frazier

S: Grow

Y: 5 N: 5 A: 1

Failed

4.22 Meeting Fees – Grow

Motion:

5 **The 802 Executive Committee requests that Jim Carlo, Howard Frazier, Geoff Thompson negotiate with IEEE to establish an escrow account for the purpose of making 802 standards freely available. Funds deposited to the account will revert to the 802 committee in the event a workable funding mechanism cannot be implemented.**

M: Grow

S: Frazier

Approved 10/0/1

10 4.23 Rules Change, Try 7 – Lidinsky

Move: Approve the rule change 7.x Ballot State after resolution.

Thompson states objection to 30 day for ballot 15 day for recirc requirement, without stating that this is a minimum requirement. This does not allow chair to exercise discretion to lengthen ballot period.

Frazier says that if ballot periods are identified as “minimums” he can vote for change.

15 Nikolich says there should be a maximum bound.

Carlo sees no problem with having a minimum with no maximum.

Thompson notes that holidays and size of a document could require a longer ballot period.

Nikolich wants 40/20 maximum ballot period.

Frazier changes his vote on the rule change to Yes.

20 Bob Love wants minimum of 10 days for recirc.

No one objects to $\geq 30/10$.

Russell still objects to description of TIC1. Suggests deleting remainder of first sentence of TIC1 after “draft standard”.

After addition discussion of Robert Russells point, support for the rules change collapses. Carlo polls the SEC members, with the following result:

25 Grow votes no, Nikolich votes no, Love Yes, Frazier No, Rigsbee No, Thomposon No, Heile No, Hayes No, Lidinsky Yes, Russell No, Carlo Yes Marks Yes.

Rigsbee asks if motion can be tabled. Nikolich states that the proposed rule change is dead.

4.24 Resilient Packet Ring Study Group Formation – Frazier

30 Recap tutorial and call for interest meeting. Present motion.

Interim meeting planned for Reston, VA, May 22-23, hosted by Sprint.

M: Frazier

S: Nikolich

Approved 9/0/2

Item_4_24

SEC Motion:

Approve the formation of an ECSG to be known as the Resilient Packet Ring Study Group (RPRSG). The problem space includes optimized packet transfer on LAN/MAN/WAN rings, discussion of layering and elimination of equipment to improve the economy of deployment, bandwidth multiplication, fast protection and restoration, efficient multicast, fairness, and media independence. The activities of the RPRSG will include investigation of new MAC protocols.

Appoint Mike Takefman as chair of the RPRSG.

The expectation is that the RPRSG will produce a PAR and 5 Criteria for a new project no later than the November 2000 plenary meeting.

M: Howard Frazier

S: Paul Nikolich

Y: 9 N: 0 A: 2

4.25 802.11 PHY Study Group Formation – Hayes

Motion to affirm the formation of a study group in 802.11 for improvement of the 802.11b characteristics with the aim to submit the related PAR(s) and 5 criteria at the November 2000 meeting. SG chair is Mathew Shoemake.

5 M: Hayes

S: Nikolich

Approved 10/0/0

4.26 802.16 High Speed Unlicensed MAN Study Group Formation – Marks

Roger Marks presents study group name (WirelessHUMAN), objectives

10 **Motion to affirm a Working Group Study Group in 802.16 on “Wireless High-Speed Unlicensed Metropolitan Area Networks” and to approve Durga Satapathy as the chairman.**

M: Marks

S: Nikolich

Approved 11/0/0

15 Discussion of how dot11, dot15, dot16 will work together in this SG.

4.27 Disband 802.14 Working Group – Russell

Move to disband the 802.14 Working Group and the 802.14a Task Force.

M: Russell

S: Nikolich

20 WG vote was 8/0/0.

Approved 11/0/0

4.28 Sponsor recirculation of 802 Overview and Architecture – Lidinsky

Plan to conduct a recirc immediately after may meeting. Targeting Sept standards board meeting.

4.29 1802-3rev to 802.3 WG ballot – Thompson

25 Going out to WG ballot. Targeting March/June 2001 Standards board meeting.

4.30 EUI-64 meeting – Carlo

Had meetings this week. May need to have some one replace Jim Carlo (perhaps a wireless person) on the RAC.

Thompson encouraged to conduct a tutorial about RAC and addressing at July meeting.

4.31 Network for the SEC/802 – Kerry

30 Introduces Don Berry from MSFT who has volunteered to chair ad-hoc group on networking 802.

Don makes a presentation regarding the use of 802.11 wireless networking for 802 meetings.

Thompson expresses concerns about security.

Don volunteers to study and pilot test a solution with the 802.11 WG.

4.32 Future Meeting Venues – Rigsbee

5 March 10-15 2002 Acapulco 5, Albuquere 2, St Louis 9, Crystal City 4, Tampa 4.

March 9-14 2003 Albuquerque 6, St. Louis 10, Austin, Tampa 4, Palm Desert 0, Phoenix 0

July 7-12 2003 Denver 9, Palm Desert 4, Albuquerque 0, Tahoe 3, Maui 5, UK 12, Enschede 6, Israel 6

7 SEC members expressed an interest in having a meeting in Israel at some time, not necessarily July.

4.33 Announcements from IEEE Staff

10 May 5th is the deadline for the June StB meeting. Revcom June 20th. Recirc deadline May 26th.

The meeting was adjourned at 11:22 pm

AGENDA & MINUTES(Unconfirmed) - IEEE 802 LMSC CLOSING PLENARY MEETING

Friday March 10, 2000 – 8:00 am.

Hyatt Regency, Albuquerque, NM

1. MEETING CALLED TO ORDER

- 5 Jim Carlo called the meeting to order at 8:00 am.

8:00 Review of Agenda – Carlo

IEEE 802 Friday Plenary Agenda

- 8:00 Review of Agenda Carlo
- 8:05 Review of Thursday Evening Executive Meeting Carlo
- 8:15 Rules Changes Nikolich
- 8:25 Treasurer's Report Grow
- 8:40 802.1 HILI Lidinsky
- 8:45 802.3 CSMA/CD Thompson
- 8:50 802.5 Token Ring Love
- 9:05 802.8 Fiber Optic TAG Benson
- 9:10 802.11 Wireless Hayes
- 9:15 802.14 Cable Modem Russell
- 9:20 802.15 Wireless PAN Heile
- 9:25 802.16 BWA Marks
- 9:30 ECSG Resilient Packet Ring SG Takefman
- 9:40 Adjourn
- 10:15 Plenary Foils Available Outside Office Frazier

- <http://www.ieee802.org>



8:05 Review of Thursday Evening Executive Meeting – Carlo

Carlo announces that this will be the last Friday morning 802 closing plenary. We will not have such a meeting in July. Materials will be distributed by web.

- 5 Recaps SEC actions, including election of officers and WG chairs. Disbandment of 802.14 and withdrawal of their PARs, withdrawal of 802.8 PAR. New chairs in 802.1 and 802.11, and appointment of Vic Hayes as Wireless Ombudsman.

8:10 Rules Changes – Nikolich

Rules change concerning balloting has failed. Rules change initiated to allow us to eliminate closing plenary.

8:15 Treasurer's Report – Grow

- 10 A surge in attendance, up 125 bodies to 598, which is an all time record. Had two deadbeats Bill Huhn, Jim Tatum. Operating reserve is grew by \$31,620. Will initiate discussions with IEEE to establish an escrow account to fund free distribution of 802 standards.

See file fritreasrep.pdf

IEEE Project 802
Estimated Statement of Operations
March 2000 Meeting

open	25 February Operating Reserve	46,700	
March 2000 Meeting Income:		Actual	Budget
	244 Registrations@ \$300	73,200	
	354 Registrations@ \$250	88,500	
	0 Registrations@ \$100	0	
	Subtotal	161,700	125,875
	Deadbeat Registrations	0	
	Bank Interest	200	
	Other	450	
plus	TOTAL Income	162,350	125,875
March 2000 Meeting Expenses:		Estimate	Budget
	Audio Visual Rentals	6,000	5,000
	Bank Charges	25	25
	Copying	7,200	6,650
	Credit Card Discounts	4,705	3,525 *
	International Program Fee	22,200	22,200 *
	Meeting Administration	36,200	34,625 *
	Phone & Electrical	1,500	800
	Refreshments	25,000	11,875
	Shipping	3,000	3,000
	Social	18,600	15,000
	Supplies		200
	Other	500	2,100
minus	TOTAL Meeting Expense	124,930	105,000
minus	Equipment Expense	5,800	5,000
equals	Mar 2000 Operating Reserve	78,320	
	Net Change in Operating Reserve	31,620	20,876

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

8:20 802.1 Management/VLANs – Lidinsky

see file dot1friplen.pdf

802.1 Status

Standards in Progress

802: Overview & Architecture

LMSC sponsor ballot completed

Comments have been processed

Editor will generate a disposition of comments & review them in May

Will conduct a recirculation ballot after May interim meeting

802.1s: Supplement to 802.1q; Support for multiple spanning trees

TG ballot comments processed at this meeting

Another draft and TG ballot prior to interim meeting

802.1t: Maintenance for 802.1d

WG ballot comments processed at this meeting

Another draft and WG ballot prior to interim meeting

802.1u: Maintenance for 802.1q

WG ballot comments processed at this meeting

Another draft and WG ballot prior to interim meeting

802.1 Status

Standards in Progress (continued)

802.1v: VLAN Classification by Protocol and Port

WG ballot comments processed at this meeting

Another draft and WG ballot prior to interim meeting

802.1w: Rapid Reconfiguration

TG ballot comments processed at this meeting

Another draft and TG ballot prior to interim meeting

802.1x Port Based Network Access Control

Changed PAR to make .1x a stand-alone standard - not a supplement

Submitted to SEC for forwarding to NESCOM

WG ballot comments processed at this meeting

Another draft and WG ballot prior to interim meeting

802.1 Status

802 Business and Process Issues

Operating Rules Change for Working Groups

64-bit addressing

Availability of 802 standards documents

802.1 Interim Meeting and Pre-Meeting

Interim Meeting (Co-located with 802.3)

Week of 22-26 May 2000, Ottawa Canada

Probably Tue - Thu, 23-25 May

Pre-Meeting

8:30am - 10:30am Mon. 10 July 2000 La Jolla

8:25 802.3 CSMA/CD - Thompson

see file dot3friplen.pdf

802.3 CSMA/CD Working Group Status

- Major Activities this week:
 - P802.3ad didn't meet, pkg at REVCOM
 - P802.3ae 10 Gigabit Ethernet
Technical Work this week
 - P802.3af DTE Power via MDI
Technical Work this week
 - 1802.3 Rev. (10BASE-T Conformance)
P802.3rev draft forward to WG ballot
 - Maintenance proposal considered
 - Re-elected officers

802.3 CSMA/CD Working Group Officers

- 802.3 Chair: Geoff Thompson
(gthompso@nortelnetworks.com)
- 802.3 Vice Chair: David Law
(davel@pdd.3Com.com)
- 802.3 Secretary: Bob Grow
(bob.grow@intel.com)
- P802.3ae 10 Gig E'net: Jonathan Thatcher
(jonathan@worldwidepackets.com)
- P802.3af DTE Power via MDI:
Steve Carlson (scarlson@esta.org)

- 802.3 CSMA/CD Web site
- Information always available on our web site:
<http://www.ieee802.org/3/>

**IEEE P802.1 HILI Interim Meeting
IEEE P802.3ae Task Force Interim Meeting
IEEE P802.3af DTE Power via MDI Task Force
Interim Meeting**

Hosted by Nortel Networks

Monday, May 22 through Thursday, May 25, 2000

**Westin Hotel
Ottawa**

8:30 802.5 Token Ring – Love

see file dot5friplen.pdf



IEEE 802.5

Token Ring Working Group

*Closing Plenary Information
For Meeting LL
March 6-10, 2000*

*Chair: Robert D. Love
(rdlove@us.ibm.com)*

Primary Thrust

- *Completion of remaining 802.5 work*
 - *802.5v 1000 Mbit/s HSTR*
 - *Resolution of LMSC Sponsor Ballot comments*
 - *Move to publish draft of 802.5z (Link Aggregation) rather than take through the ballot process*
 - *Withdrawal of remaining PAR 802.5x (Virtual Bridged LANs)*
 - *Expect to Hibernate by July 2000 Mtg*

E-Mail and WWW

■ *802.5 E-Mail Reflector*

- `stds-802-5@mail.ieee.org` for messages
- `majordomo@majordomo.ieee.org` for subscription
 - `subscribe stds-802-5 <your e-mail address>`
 - `unsubscribe stds-802-5 <your e-mail address>`

■ *802.5 WWW Site*

<http://grouper.ieee.org/groups/802/5/>

which links to

<http://www.8025.org/>

802.8 FO TAG – Chip Benson

No Chip – no report.

802.11 Wireless LAN – Vic Hayes

5 see file dot11friplen.pdf

IEEE P802.11, Wireless LANs

Retired Chair: Vic Hayes

[Http://www.ieee802.org/11](http://www.ieee802.org/11)

New Chair: Stuart Kerry

Vice Chair: Al Petrick

Co Vice Chair: Harry Worstell

Secretary: Tim Godfrey

IEEE P802.11, Wireless LANs

802.11d
802.11b-cor1

802.11e
802.11f

Liaison and Contact with
regulatory agencies

Study Group

MAC

2.4 GHz
Frequency.
Hopping
Spread
Spectrum

1 Mbit/s
2 Mbit/s

2.4 GHz
Direct
Sequence
Spread
Spectrum

2 Mbit/s
1 Mbit/s

Infra-
Red

1 Mbit/s
2 Mbit/s

2.4 GHz
Higher
data rate
extension

802.11b

5.5 Mbit/s
11 Mbit/s

5 GHz
High data
rate
extension

802.11a

6, 12, 24 Mbit/s
9-54 Mbit/s

Legend: italic (and red) = optional

IEEE P802.11, Wireless LANs

**802.11d Regulatory
domain update**

Chair: Bob O'Hara
WG Recirculation ballot

**802.11b-cor1
corrigendum MIB**

Chair: Victoria Poncini
Sponsor Ballot

**802.11e
MAC enhancements
QoS/Security**

Chair: John Fakatselis
Proposal review, 5 reviewed

**802.11f Rec.
Practices Inter-
Access Point Prot.**

Chair: Dave Bagby
No proposals, no activity

**WG Study Group for
Higher rates of .11b**

Chair: Matthew Shoemake
Just approved last night

IEEE P802.11, Wireless LANs

Regulatory matters

- **Received a status report on FCC Docket 99-231**
- **Rules change in the 2.45 GHz band**
 - Wide band Frequency Hopping
 - Test requirements for Direct Sequence
- **Interesting compromise proposal filed**
 - To add rules similar to the CEPT/ETSI regulations
- **No actions taken**
- **Vote to approve IS 8802-11/DAM1**
 - 6-54 Mbit/s in the 5 GHz band

IEEE P802.11, Wireless LANs

TGd, Regulatory domains

- **Task Group completed the resolution of the letter ballot and produced a new draft standard**
- **Will be sent out for WG recirculation letter ballot**

Study Group MAC Enhancements

- **SEC approved 2 PARs for submission to NesCom**
 - **802.11e (Supplement for MAC enhancements on QoS and security)**
 - **802.11f ([Recommended Practices for Multi-Vendor Access Point Interoperability via Inter-Access Point Protocol across Distribution Systems supporting IEEE P802.11 operation.]**

IEEE P802.11, Wireless LANs

TGb-cor1, Repair MIB

- **Proposed to include PICS reference number correction**
- **Will become an errata sheet**
- **Draft will go out for Sponsor Ballot**

Study Group 802.11b improvement

- **Award winning standard can be improved quickly**
 - **> 20 Mbit/s**
 - **other improvements**
- **Goal to have a PAR + 5C at November 2000**

IEEE P802.11, Wireless LANs

Interim meeting

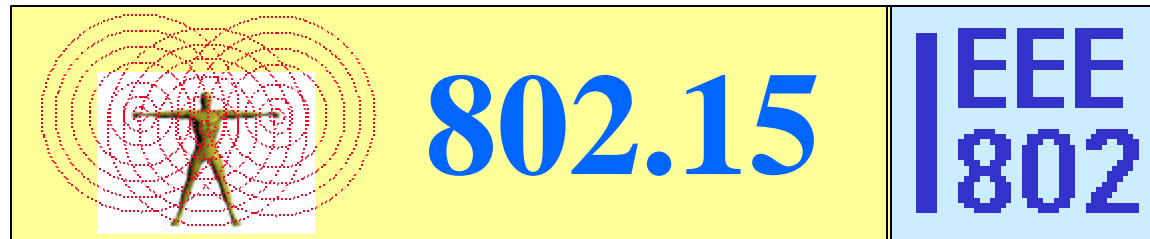
- **May 8-12, 2000, Hosted by Boeing**
- **Renaissance Madison Hotel, Seattle, WA**
- **Co-located with 802.15 and Study Group of 802.16**
- **Objectives:**
 - **process TGd recirculation ballot results**
 - **process 802.11b-cor1 recirculation ballot results and submit to Sponsor Ballot**
 - **start the work on 802.11e and 802.11f**
 - **Send letters to liaison groups and to regulatory agencies as needed**
 - **Work in the Study Group on 2.45 GHz improvements**

802.14 CATV – Russell

going out of business

802.15 WPAN – Heile

5 see file dot15friplen.pdf



5th Session of meetings of the IEEE 802.15 Working Group for Wireless Personal Area Networks

March 6-10, 2000
Hyatt Regency Albuquerque
330 Tijeras NW
Albuquerque, NM. 87102

Objectives of the Albuquerque Meeting

March 5-10, 2000

- TG1: continue driving TG1 objectives and letter ballot
 - LB2 Reply Comment Resolution Being Applied to Draft
 - Continued Work on SDLs
 - LB(3) tentatively scheduled 19May00 22Jun00
- TG2: hearing submissions on Coexistence model
 - Began Hearing Submissions of the Coexistence Model
- MC: Organization, action plan and next steps
 - Reviewed Conference/Publication Plan
 - Began Building outline with 802.11 and 802.16 on Joint Market Messages
- WG: Re-election of officers
 - Re-elected Bob Heile as Chair and Ian Gifford as Vice Chair
- HR: PAR approval, review of CFP/CFA, organization
 - Resolved PAR Comments and Secured SEC Approval to Forward to NesCom

Name Suggestions for High Rate

Thanks for all the responses

- Jaws
- JawBreaker
- GoldMind
- HON (Home Operations Network)
- SweetTooth
- FlashWave
- Root Canal - (Better than a blue tooth)
- Multimedia ISM
- Dentures
- White Teeth (32 teeth = 32 Mbps?)
- Top Gun (“I have a need for Speed”-movie quote)
- Top Tooth

Next Meeting

Joint IEEE Interim 802.11 and 802.15 Standards Meetings
May 8 – 12, 2000

Hosted By:
The Boeing Company

Hotel Information: Renaissance Madison Hotel
515 Madison Street
Seattle, WA 98104
USA

Direct Reservations Phone: 1-800-278-4159
Reservation Facsimile: +001 206-447-0992
Phone: +001 206-583-0300

Web- <http://www.renaissancehotels.com/seasm/fastfact/>

Hotel Reservation Deadline: Friday, March 23, 2000

Archive, Mailing List, URLs

- Web Page
 - <http://grouper.ieee.org/groups/802/15/>
- Mailing List
 - stds-802-wpan@majordomo.ieee.org
- Bluetooth Special Interest Group
 - <http://www.bluetooth.com/>
- Home RF Working Group
 - <http://www.homerf.org/>

To add your name to IEEE mailing list please send an e-mail to Mike McInnis: michael.d.mcinnis@boeing.com

So Long and Thanks for all the Fi

Hitchhikers Guide to the Galaxy

Acronym's & Glossary

- IEEE (Institute of Electrical and Electronics Engineers, Inc.)
- MAC (Medium Access Control) Layer
- PHY (Physical) Layer
- TG (Task Group)
- SG (Study Group)
- MC (Marketing Committee)
- WG (Working Group)
- WPAN (Wireless Personal Area Networking)
- Bluetooth (Bluetooth Special Interest Group is the codename for a technology specification for small form factor, low-cost, short range radio links between mobile PCs, mobile phones and other portable devices.)
- HomeRF (The HRFWG plans to publish the SWAP specification by fall of 1998 and companies may begin product development shortly thereafter.)

802.16 BBWA – Marks

see file dot16friplen.pdf

IEEE 802.16
Working Group on
Broadband Wireless Access
(BWA)

802 Closing Plenary

March 10, 2000

Attendance

Large Attendance:

124 sign-ins

72 members

Existing Projects

- **802.16.1: Air Interface (10-66 GHz)**
 - Two proposals considered
 - Choice set for May Interim
- **802.16.2: Coexistence**
 - Working Group Letter Ballot postponed until July 2000

New PAR Approved

- **802.16.3: Broadband Wireless Access Systems in Licensed Bands from 2 to 11 GHz**
- Brian Kiernan, Chair

New Study Group Approved

- Wireless High-Speed Unlicensed Metropolitan Area Networks
("Wireless HUMAN")
- 16 people prepared proposal
- Closely coordinated with 802.11 & .15
- Meet in Seattle with 802.11 & .15
- Durga Satapathy, Chair

Other Business

- Elections
 - Roger Marks re-elected Chair
 - Lou Olsen re-elected Vice Chair
- ETSI BRAN HIPERACCESS negotiations took place
- IPR Procedures under discussion

Next Interim Meeting

- May 1-5
- Gaithersburg, Maryland, USA
- ETSI BRAN HIPERACCESS will co-locate meeting, with intent to agree on Annex to ETSI/IEEE Agreement

RPRSG – Takefman

see file rprsgfriplen.pdf

Resilient Packet Ring Study Group

IEEE March 2000 Plenary

Mike Takefman

Cisco Systems

SRP Tutorial

- Tuesday 8:00 PM, approximately 100 people in attendance
- Straw Poll of interest on working towards a standard in this area.
33 individuals representing 14 organizations

SRP Call for Interest

- Wednesday 1:00 PM, 40 people in attendance
 - some members of 802.1 in attendance
- Recap of some of the Tutorial Material with lively discussion
- Motion presented to request SEC to approve an ECSG to complete no later than November 2000
Plenary a PAR and 5 Criteria
- Simulation study presented

- *Motion requests 802 Sponsor Executive Committee (SEC) to approve formation of Executive Committee Study Group (ECSG) to be known as Resilient Packet Rings Study Group (RPRSG). The problem space includes optimized packet transfer on LAN/MAN/WAN rings, discussion of layering and elimination of equipment to improve the economy of deployment, bandwidth multiplication, fast protection and restoration, efficient multicast, fairness, media independence.*

The activities will include investigation of new MAC protocol.

appoint M. Takefman as chair.

- Passed 20 - 3 - 5

Creation of RPRSG

- Motion to create RPRSG made to SEC by Howard Frazier
Passed 9 - 0 - 2
- Mike Takefman appointed Chair

Going Forward

- Interim Meeting Scheduled
May 22/23 @ Reston Hyatt sponsored by Sprint
- mail reflector: email to majordomo@ieee.org
body: subscribe stds-802-rprsg you@you
- website: www.ieee802.org/rprsg
- Contact Mike:
tak@cisco.com; 613-271-3399

Respectfully Submitted,
Howard Frazier
Recording Secretary

5